155-251 Aldington Road, Kemps Creek, NSW

Frasers Property Industrial Pty Ltd

Validation Report

JBS&G 66105 | 159,245 Rev 1

26 July 2024

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

We pay respect to Elders past and present and in the spirit of reconciliation, we commit to working together for our shared future.

Caring for Country The Journey of JBS&G
Artist: Patrick Caruso, Eastern Arrernte

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Abbreviations

Term	Definition
ACM	Asbestos Containing Material
AHD	Australian Height Datum
ASC NEPM	National Environment Protection (Assessment of Site Contamination) Measure 1999 (2013)
ASRIS	Australian Soil Resource Information System
ASS	Acid Sulfate Soils
bgs	Below Ground Surface
BTEX	Benzene, Toluene, Ethylbenzene, Xylenes
CEC	Cation Exchange Capacity
COC	Chain of Custody
COPC	Contaminants of Potential Concern
Council	Penrith City Council
CSM	Conceptual Site Model
DA	Development application
DP	Deposited Plan
DPI	Department of Primary Industry
DQI	Data Quality Indicator
DQO	Data Quality Objective
DSI	Detailed Site Investigation
EC	Electrical Conductivity
EIL	Ecological Investigation Levels
Envirolab	Envirolab Services Pty Ltd
EPA	NSW Environment Protection Authority
ESL	Ecological Screening Levels
Eurofins	Eurofins MGT
GPS	Global Positioning Unit
Ha	Hectare
HIL	Health Investigation Levels
HSL	Health Screening Levels
JBS&G	JBS&G Australia Pty Ltd
LAA	Licenced Asbestos Assessor
LEP	Local Environmental Plan
LOR	Limit of Reporting
NATA	National Association of Testing Authorities
NEPC	National Environment Protection Council
OCP	Organochlorine Pesticides
OEH	Office of Environment and Heritage
PAH	Polycyclic Aromatic Hydrocarbons

PARCCS	Precision, Accuracy, Representativeness, Comparability, Completeness and Sensitivity
PCB	Polychlorinated Biphenyls
pH	Potential of Hydrogen
ppm	Parts Per Million
PSI	Preliminary Site Investigation
QA/QC	Quality Assurance / Quality Control
RAP	Remedial Action Plan
RL	Relative Level
RPD	Relative Percent Difference
SWL	Standing Water Level
TCLP	Toxicity Characteristic Leaching Procedure
TPH	Total Petroleum Hydrocarbons
TRH	Total Recoverable Hydrocarbons
VOC	Volatile Organic Compounds

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Executive Summary

JBS&G Australia Pty Ltd (JBS&G) was engaged by Frasers Property Industrial Pty Ltd (Frasers, the client), to undertake remediation and validation activities for land located at 155-251 Aldington Road, Kemps Creek, NSW (the site). The area, address and legal Lots and Deposited Plans (DPs) identifiers of the properties which comprise the site are detailed in **Table 1.1.**

The site is owned by Frasers, and is proposed to be redeveloped for a series of open plan warehouses and associated infrastructure (hardstand pavement, car parks, loading docks etc), and is consistent with a commercial/industrial (NEPC 2013[1]) land use scenario.

A State Significant Development Application (SSDA) has previously been submitted for the construction, fit-out and operation of two warehouse and distribution buildings, including offices, loading docks, parking and hardstand areas, landscaping, utilities and services. Associated works include demolition, vegetation removal, bulk earthworks, construction of internal roads, and an access road off Aldington Road, as well as a 9-lot Torrens Title subdivision. A Remedial Action Plan (RAP) was prepared specific to the development proposal, as documented in JBS&G (2022[2]) and submitted with the SSDA.

An amendment to the SSDA is proposed to be submitted, with the key development differences comprising:

- A 15 Lot Torren Title Subdivision;
- Estate wide civil and infrastructure works;
- Construction of 8 new warehouses; and
- An ancillary civil works zone located on the southern portion of 141 to 153 Aldington Road, Kemps Creek, NSW 2178.

As such, the RAP was updated (JBS&G 2024[3]), to reflect the current redevelopment plans and to address specific remedial measures, site management requirements and the validation approach in relation to works to be undertaken in the Ancillary Works Zone to ensure that the site, upon completion of remedial works, will be suitable for the proposed development.

Validation of remedial works at the site was completed by JBS&G in accordance with the RAP (JBS&G 2024) to demonstrate the successful remediation and demonstrate that the site is suitable for the proposed commercial and industrial land use (unencumbered by contamination management plans or similar instrument) in accordance with guidelines made or approved by the NSW Environment Protection Authority (EPA).

Remediation included the on-site surface treatment of approximately 7,500 m^3 of bonded asbestos impacted material and the manual removal (via spreading/hand picking) of ACM fragments. Approximately 50 m^3 of material identified to be impacted with AF/FA was disposed off-site to a facility lawfully able to accept such materials, and removal and disposal of deeper identified asbestos material at TP460 and TP463, as well as hydrocarbon impacted material at TP398. Validation of remedial works were conducted by JBS&G in accordance with the requirements of the RAP.

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1 *National Environmental Protection Measure – Assessment of Site Contamination (ASC),* National Environmental Protection Council, 2013 (NEPC 2013)

2 *Remedial Action Plan – Aldington Road Estate 155-167, 169-181, 183-197, 199, 201-217, 219-233 and 235-251 Aldington Road, Kemps Creek, NSW*. JBS&G Australia Pty ltd reference 60482/153876 dated 16 March 2022. JBS&G (2022).

3 *Remedial Action Plan – Aldington Road Estate, Edge South Development, Aldington Road, Kemps Creek, NSW*. JBS&G Australia Pty Ltd reference 65376/157278 dated 5 February 2024 Rev 2, JBS&G (2024).

During remedial works, additional unexpected finds were identified including an asbestos pipe in Area 1A, and deeper asbestos impacts within Area 1B. The asbestos pipe was removed and disposed of by Ford Civil, the UF1 in Area 1B was excavated and spread for picking, before being disposed of off-site after a friable asbestos detection in a validation sample. After removal, both areas were validated in accordance with the RAP (JBS&G 2024).

Based on the results of the remediation and validation of the site described herein, and subject to the limitations described in **Section 11**, JBS&G considers that the site has been remediated and is suitable for the proposed commercial/industrial land use, without the requirement for ongoing management.

It is recommended that the unexpected finds protocol presented in the RAP (2024) is utilised throughout earthworks.

1. Introduction and Objectives

1.1 Introduction

JBS&G Australia Pty Ltd (JBS&G) was engaged by Frasers Property Industrial Pty Ltd (Frasers, the client), to undertake remediation and validation activities for land located at 155-251 Aldington Road, Kemps Creek, NSW (the site, see **Figure 1**). The area, address and legal Lots and Deposited Plans (DPs) identifiers of the properties which comprise the site are detailed in **Table 1.1** and are shown on **Figure 2**.

Table 1.1 Site Identification Details

Lot/DP	Address	Area (ha)
Aldington Road – Edge South		
33/258949	155 to 167 Aldington Road, Kemps Creek, NSW, 2178	10.1
28/255560	169 to 181 Aldington Road, Kemps Creek, NSW, 2178	10.2
27/255560	183 to 197 Aldington Road, Kemps Creek, NSW, 2178	10.2
26/255560	199 Aldington Road, Kemps Creek, NSW, 2178	2.6
25/255560	201 to 217 Aldington Road, Kemps Creek, NSW, 2178	10.2
24/255560	219 to 233 Aldington Road, Kemps Creek, NSW 2178	10.2
10/253503	235 to 251 Aldington Road, Kemps Creek, NSW 2178	10.1
Approximate Site Area (ha)		63.6
Ancillary Works Zone		
Part 34/258949	141 to 153 Aldington Road, Kemps Creek, NSW 2178	10.1

The properties which comprise the site have been the subject of a number of previous environmental investigations as summarised in **Section 43** and shown on **Figures 3A** to **3E**). Contamination conditions have been identified by previous investigations which are to be addressed to make the site suitable for the proposed commercial/industrial purposes.

The site is owned by Frasers, and is proposed to be redeveloped to contain a series of open plan warehouses and associated infrastructure (hardstand pavement, car parks, loading docks etc), and is consistent with a commercial/industrial (NEPC 2013[4]) land use scenario.

A State Significant Development Application (SSDA) has previously been submitted for the construction, fit-out and operation of two warehouse and distribution buildings, including offices, loading docks, parking and hardstand areas, landscaping, utilities and services. Associated works include demolition, vegetation removal, bulk earthworks, construction of internal roads, and an access road off Aldington Road, as well as a 9-lot Torrens Title subdivision. A Remedial Action Plan (RAP) was prepared specific to the development proposal, as documented in JBS&G (2022[5]) and submitted with the SSDA.

An amendment to the SSDA is proposed to be submitted, with the key development differences comprising:

- A 15 Lot Torren Title Subdivision;
- Estate wide civil and infrastructure works;
- Construction of 8 new warehouses; and

[4] *National Environmental Protection Measure – Assessment of Site Contamination (ASC),* National Environmental Protection Council, 2013 (NEPC 2013)

[5] *Remedial Action Plan – Aldington Road Estate 155-167, 169-181, 183-197, 199, 201-217, 219-233 and 235-251 Aldington Road, Kemps Creek, NSW*. JBS&G Australia Pty ltd reference 60482/153876 dated 16 March 2022. JBS&G (2022).

- An ancillary civil works zone located on the southern portion of 141 to 153 Aldington Road, Kemps Creek, NSW 2178.

As such, the RAP was updated (JBS&G 2024[6]), to reflect the current redevelopment plans and to address specific remedial measures, site management requirements and the validation approach in relation to works to be undertaken in the Ancillary Works Zone to ensure that the site, upon completion of remedial works, will be suitable for the proposed development.

Validation of remedial works at the site was completed by JBS&G in accordance with the RAP (JBS&G 2024) to demonstrate the successful remediation and demonstrate that the site is suitable for the proposed commercial and industrial land use (unencumbered by contamination management plans or similar instrument) in accordance with guidelines made or approved by the NSW Environment Protection Authority (EPA).

This validation assessment has been undertaken in accordance with guidelines made or approved by the NSW EPA.

1.2 Objective

The objectives of the Validation Report are to:

- Demonstrate remediation of the site, including off-site disposal of impacted materials and on-site treatment of material were completed in accordance with the RAP (JBS&G 2024); and
- Demonstrate that the successful validation of the site indicates that the site is suitable for commercial and industrial land use (encumbered by any contamination management plans or similar instrument), pursuant to the NEPC (2013).

1.3 Scope of Works

The following scope of works were undertaken by JBS&G:

- Supervision of the excavation of impacted soils to the lateral and vertical extents of identifiable impact, with additional removal of soils where additional impacts were identified;
- Supervision of the disposal of impacted material off-site via trucks;
- Supervision of the on-site treatment of impacted material by Ford Civil and/or its appointed subcontractor/s;
- Inspection, validation sampling and laboratory analysis of representative samples of asbestos picked surfaces and residual soils at the base and walls of the excavations in accordance with JBS&G (2024) and relevant NSW EPA guidelines;
- Documentation of the validation process; and
- The preparation of a validation report detailing the remedial and validation works in accordance with relevant NSW EPA guidelines.

[6] *Remedial Action Plan – Aldington Road Estate, Edge South Development, Aldington Road, Kemps Creek, NSW*. JBS&G Australia Pty Ltd reference 65376/157278 dated 5 February 2024 Rev 2, JBS&G (2024).

2. Site Conditions and Surrounding Environment

The site location and layout are shown in **Figures 1** and **2,** respectively. Site details are summarised in **Table 2.1** and described further in the following sections.

Table 2.1: Summary of Site Details

Lot – DP Address (as shown on Error! Reference source not found.**)**	Lot 33 DP258949 – 155 to 167 Aldington Road, Kemps Creek, NSW, 2178 Lot 28 DP255560 – 169 to 181 Aldington Road, Kemps Creek, NSW, 2178 Lot 27 DP255560 – 183 to 197 Aldington Road, Kemps Creek, NSW, 2178 Lot 26 DP255560 – 199 Aldington Road, Kemps Creek, NSW, 2178 Lot 25 DP255560 – 201 to 217 Aldington Road, Kemps Creek, NSW, 2178 Lot 24 DP255560 – 219 to 233 Aldington Road, Kemps Creek, NSW, 2178 Lot 10 DP253503 – 235 to 251 Aldington Road, Kemps Creek, NSW, 2178 Part Lot 34 DP258949 – 141 to 153 Aldington Road, Kemps Creek, NSW, 2178
Local Government Authority	Penrith City Council
Approximate Assessment Area Co-ordinates (MGA 56)	As shown on Error! Reference source not found.
Approximate Area	~74 ha (legal properties) ~65 ha (the Site)
Current Zoning	Western Sydney Employment Area 2009
Current Land Use	Rural Residential / Agricultural
Previous Land Use	Rural Residential / Agricultural
Proposal Land Use	Commercial / Industrial

2.1 Site Description (Before Remediation)

A detailed description of the site conditions prior to demolition and remediation was documented in the Detailed Site Investigation (DSI) and RAP (JBS&G 2022b[7] and 2024 respectively) and is provided below. The site layout and key features at the time of investigation are shown on **Figure 2.**

The site consists of seven whole Lots and one part Lot, all with rural residential housing and associated outbuildings (sheds, chicken coops and stables). Approximately half of the site was composed of pastoral grazing land, with the other half comprising horticultural market gardens that were operational at the time of the DSI site inspection (2022). Several dams were present on the site with one in the south-western portion of the site, and dry at the time of the investigations. Dams were used for stock and horticultural irrigation purposes.

Of note across the site were several areas with ACM on the ground surface (AEC 1a and 1e) and affixed to stockpiled concrete slabs (≈5 m^3, AEC 6c), an area of stockpiled material (≈ 6,100 m^3) within the south-eastern portion, disturbed terrain with some small stockpiles (<5 m^3), and an area of stained gravel in the south-western, and two above ground storage tanks (ASTs) within Lot 27.

[7] *Detailed Site Investigation – Aldington Road Estate 155-167, 169-181, 183-197, 199, 201-217, 219-233 and 235-251 Aldington Road, Kemps Creek, NSW*. JBS&G Australia Pty Ltd reference 60482/143618 Revision A dated 16 March 2022. JBS&G (2022b).

Lot 34, of which the southern portion is part of the site, comprises a broadly undeveloped parcel of land. Two dams were present within the property, in addition to an access driveway from Aldington Road. The central/eastern portion of the property was occupied by a rural residential area and included multiple rural residence structures, a swimming pool, vegetable/fruit garden, animal shelters and yards.

2.2 Surrounding Land Use

The current land uses of adjacent properties or properties across adjacent roadways are summarised below.

- North – the balance of Lot 34 and then rural residential and agricultural properties;
- East – Aldington Road, across which are rural residential and agricultural properties, and a construction site opposite 219-233 Aldington Road;
- South – rural residential and agricultural properties; and
- West – rural residential and agricultural properties. Further west lies Mamre Road, across which are currently rural residential and agricultural properties.

2.3 Environmental Setting

The environmental setting of the site is presented in **Table 2.2** and is based on site information presented summarised in JBS&G (2022b).

Table 2.2 Summary of Environmental Characteristics

Environmental Aspect	Characteristics
Topography	A review of topographical information (NSW Sixmaps, LPI[8]) indicates that the site is located within a gently undulating regional topography with a gentle downward slope towards Kemps Creek located approximately 0.6 km to the south west of the site. Ground levels of approximately 96 m Australian Height Datum (AHD) are present near the northern site extent falling to approximately 50 m AHD within the southwestern site extent towards the drainage/creek line and Kemps Creek.
Geology/Soil	Review of the 1:100 000 Geological Series Sydney Geological Survey of NSW Sheet 9030 (DMR 1991[9]) indicates that site is underlain by Wianamatta Group Bringelly Shale, which is described as shale, carbonaceous claystone, laminate, fine to medium grained lithic sandstone, rare coal and tuff. Reference to the online ESPADE 2.1[10] tool indicates that most of the site is covered with Blacktown Residual soils with Luddenham Erosional soils present in the northeast portion of the site. Blacktown Residual soils are described as comprising shallow to moderately deep (>100 cm) hard setting mottled texture contrast soils, red and brown podzolic soils on crests grading to yellow podzolic soils on lower slopes and in drainage lines. Limitations of these soils include localised seasonal waterlogging, localised water erosion hazard, moderately reactive highly plastic subsoil, localised surface movement potential. Luddenham Erosional soils are described as comprising Shallow dark podzolic soils on crests, moderately deep red podzolic soils on upper slopes, yellow podzolic and prairie soils on lower slopes and drainage lines. Limitations of these soils include water erosion hazard, localised steep slopes, localised mass movement hazard, localised surface movement potential, moderately reactive, localised impermeable highly plastic subsoil.

[8] *Land and Property Information, Spatial Information Exchange website*, http://maps.six.nsw.gov.au/ accessed 24 May 2019.
[9] *Penrith Geological Series Sheet 9030 (Edition 1) 1983*. Geological Survey of NSW, Department of Mineral and Resources (DMR 1991)
[10] *ESPADE 2.1, https://www.environment.nsw.gov.au/eSpade2Webapp,* accessed 12 December 2021

Acid Sulfate Soils (ASS)	Review of accessible data using the SEED[11] tool, indicates the area occupied by the site is within an area not assessed for the presence of Acid Sulfate Soils (ASS). Such sites are identified by default, as areas where land management activities are not likely to be affected by ASS materials. Review of the geographical and topographical location of the assessment area, in addition to the geological conditions identified at the site has indicated that the likelihood of ASS within the area is low.
Hydrology	Surface water runoff mostly enters ephemeral creek lines to the west and south of the site, which discharge into Kemps Creek, approximately 600 m southwest of the site. Kemps Creek is a tributary of the Hawkesbury River. The site is mostly unsealed, therefore, precipitation falling onto the site is expected to infiltrate surface soils at a rate reflective of the permeability of the underlying site soils. In periods of heavy or prolonged rainfall, following surface soil saturation, excess water movement is expected to follow the ephemeral creek lines to the west and south of the site, following the topographic gradient. During the site inspection, several dams were observed across the site. These water bodies were identified to be predominately utilised for irrigation.
Hydrogeology	The search identified no groundwater bores to be located within a 1.5 km radius of the site. It is noted that the desktop search did not indicate licensed groundwater bores to be present on the site. This was consistent with the site inspection. Perched (saline) groundwater may be present within localized (shallow) filled areas and generally within the soils in the lower landscape above shale bedrock. Saline groundwater is also anticipated at relatively shallow depths in the lower landscape portions of the site, hosted by fracturing / jointing of the Wianamatta Shales. Given the site is underlain by low permeability clays and shales, the potential for groundwater movement is likely to be low. Groundwater levels were measured within monitoring wells during the JBS&G investigations identified groundwater at depths between 1.981 m and 2.540 m below top of casing (btoc) in clay/weathered shale. A review of monitoring well boreholes indicated weathered shale was noted to be wet at between 4.8 m and 7.9 m below ground surface (bgs). Therefore, groundwater levels in monitoring wells are assumed related to accumulation of seepage and confining pressure influence. Groundwater flow is inferred to be towards the south west/west following local topography towards Kemps Creek. It is noted that groundwater was not encountered during advancement of soil locations during the investigations. The potential for stock watering or irrigation would be limited due to the saline nature and limited flow of shallow groundwater.
Salinity	The site is shown on the Salinity Potential Map for Western Sydney (DIPNR 2002[12]) to lie within an area of moderate salinity potential, with high salinity potential occurring in the vicinity of creek and drainage lines. PSM (2019) undertook salinity testing within a portion of the site and reported soils to be non-saline to moderately saline.
Meteorology	Averaged climatic data indicated the site's meteorological setting is characterised by average minimum temperatures which vary from 4.1 ^{o}C in July to 17.3 ^{o}C in February; average maximum temperatures which vary from 17.5 ^{o}C in July to 30.3 ^{o}C in January; average annual rainfall of approximately 671 mm with rainfall greater than 1 mm occurring on an average of 67 days per year; and monthly rainfall varing from 23 mm in September to 95 mm in February.

11 https://www.seed.nsw.gov.au/ accessed 12 April 2021

12 *Salinity Potential in Western Sydney*. Department of Infrastructure, Planning and Natural Resources 2002 (DIPNR 2002)

3. Site History

A detailed review of historical data is presented in JBS&G (2022b[13] and 2022c[14]).

The Edge South development site historically comprised a single property, used for pastoral/agricultural purposes, with a sole residential building in the south-west corner. In 1978, the Edge South development site was subdivided into five smaller properties, with the primary use comprising agricultural, horticultural and residential activities. Rural residential dwellings and associated buildings/sheds have been constructed and demolished/removed at various times. Market garden operations have occurred continuously at Lot 25 and at various times on Lot 28. Smaller scale horticulture has occurred on Lot 33. Stockpiling of various wastes has occurred at Lots 25, 27, 28 and 33. Importation of fill material has occurred at Lots 25 and 27. Dams were identified on the site since 1955 and on all lots in the Edge South development site since 1982.

The Ancillary Works Zone has been used for agricultural (grazing) uses since the beginning of records and for rural residential purposes since 1979. The central western dams on 129 Aldington Road were constructed between 1955 and 1965. Residential areas and remaining dams were constructed across the site between 1978 and 1986.

A review of records held by the NSW EPA indicate no prevention, clean-up or prohibition notices, no transfer, variation, suspension, surrender or revocation of an environmental protection licences, no notices have been issued for the site under the *Contaminated Land Management Act 1997 (CLM Act)*, the site has not been notified to the EPA under section 60 of the *CLM Act* with regards to contamination, and the site is not on the EPA Per- and Poly- Fluoroalkyl Substances (PFAS) register.

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13 *Detailed Site Investigation, 113-153 Aldington Road, Kemps Creek, NSW*. JBS&G Australia Pty Ltd reference 65172/143757 Revision A dated 17 February 2022.

14 *Detailed Site Investigation – Aldington Road Estate, 155-167, 169-181, 183-197, 199 and 201-217 Aldington Road, Kemps Creek, NSW*. JBS&G Australia Pty Ltd reference 60482-136605 Revision 0 dated 6 April 2021.

4. Summary of Remediation Requirements

4.1 General

A number of investigations have been undertaken at the site. Each of the environmental investigations, and the properties to which the investigations pertained, are summarised in **Table 4.1**.

Table 4.1: Historical Environmental Investigations

Reference	Properties
Preliminary Site Investigation, Lots 25 to 28 DP 255560 and Lot 33 DP 258949 Aldington Road, Kemps Creek, NSW. JBS&G Australia Pty Ltd reference 56429-122290 Revision 0 dated 13 June 2019. JBS&G (2019).	Edge South Development Site Lot 25 to 28 DP 255560 Lot 33 DP 258949 Ancillary Works Zone Not applicable
Detailed Site Investigation – Aldington Road Estate, 155-167, 169-181, 183-197, 199 and 201-217 Aldington Road, Kemps Creek, NSW. JBS&G Australia Pty Ltd reference 60482-136605 Revision 0 dated 6 April 2021. JBS&G (2021a).	Edge South Development Site Lot 25 to 28 DP 255560 Lot 33 DP 258949 Ancillary Works Zone Not applicable
Preliminary Site Investigation – 231-251 Aldington Road, Kemps Creek. JBS&G Australia Pty Ltd reference 60716/136975 Revision A dated 16 April 2021. JBS&G (2021b).	Edge South Development Site Lot 10 DP 253503 Ancillary Works Zone Not applicable
Due Diligence Environmental Site Assessment Aldington Road Estate, 219-233 Aldington Road, Kemps Creek, NSW. JBS&G Australia Pty Ltd reference 61646/143262 Revision A dated 21 January 2022. JBS&G (2022a).	Edge South Development Site Lot 24 DP 255560 Ancillary Works Zone Not applicable
Detailed Site Investigation, 113-153 Aldington Road, Kemps Creek, NSW. JBS&G Australia Pty Ltd reference 65172/143757 Revision A dated 17 February 2022. JBS&G (2022b)	Edge South Development Site Not applicable Ancillary Works Zone Lot 34 DP 258949
Detailed Site Investigation – Aldington Road Estate 155-167, 169-181, 183-197, 199, 201-217, 219-233 and 235-251 Aldington Road, Kemps Creek, NSW. JBS&G Australia Pty Ltd reference 60482/143618 Revision A dated 16 March 2022. JBS&G (2022c).	Edge South Development Site Lot 10 DP 253503 Lot 24 to 28 DP 255560 Lot 33 DP 258949 Ancillary Works Zone Not applicable
Environmental Review of Boundary Earthworks – 155 Aldington Road, Kemps Creek, NSW. JBS&G Australia Pty Ltd dated 25 November 2022. JBS&G (2022d).	Edge South Development Site Not applicable Ancillary Works Zone Lot 34 DP 258949

The investigation reports above were summarised and reviewed as part of the RAP (JBS&G 2024) to inform the requirements for remediation of the site.

4.2 Areas of Environmental Concern (AEC)

The previous assessments have been completed on the site as detailed in **Section 4.1**, and based on the investigations the following contamination issues requiring remediation have been identified:

- Elevated hydrocarbons above the adopted land use criteria within a distinct silty gravel fill layer at TP398 (approximate volume 15 m^3); and
- ACM identified in surficial soils (<0.1 m bgs) and affixed to stockpiled concrete slabs below the adopted health criteria, but representing an aesthetic issue at AEC 1a, 1b (BH412_0.0- 0.4), 1e and 6c (affixed to stockpiled concrete slabs) and the residential/buildings area of 219-233 and 235-251 Aldington Road.

Although not a contamination issue due to being below applicable site human health criteria, the following aspects were identified to present a potential aesthetic issue requiring management:

- Asbestos identified within site structures at AEC 1a, 1c, 1d and within the south-eastern portion of 219-233 Aldington Road (AEC 1X);
- ACM identified below the adopted health criteria in sub surface soils (> 0.1 m bgs) at AEC 1f/3c (TP460_2.0-2.6 and TP463_0.8-1.8) and
- ASTs across the site were anticipated to be removed in conjunction with site structure removal. Following which visual inspection to confirm no staining or odours was to be undertaken.

Remedial and management extents are shown on the **Figure 3** series.

In summary, the AECs and associated contaminants of concern are listed in **Table 4.2** and presented on the **Figure 3** series.

Table 4.2: Areas of Environmental Concern and Associated Contaminants of Concern

AEC	Impact	Contaminants of Concern
AEC 1a, 1b, 1e, 6c and AEC 1x (Residential Soils at 219-233 and 235-251 Aldington Road)	Asbestos bonded on surface, and affixed to concrete slabs (6C)	Asbestos
TP398	Elevated hydrocarbons and PAH	TRH/BTEX, Heavy Metals, PAH, Phenols
TP460 and TP463	Bonded asbestos identified in test pits.	Asbestos
AEC 1a, 1c, 1d and 1x	Bonded asbestos in site structures.	Asbestos
ASTs	Potential for hydrocarbon impact	TRH/BTEX, lead, phenols

4.3 Remedial Approach

A number of potential remedial options were considered in the RAP (JBS&G 2024). The preferred remedial strategy for the site was identified as:

- Manual picking of surficial ACM (AEC 1a, 1b and 1e) and the residential/buildings area of 219-233 and 235-251 Aldington Road (1X), with the ACM fragments disposed to a landfill/licensed waste facility;
- Offsite disposal of concrete slabs with affixed ACM (AEC 6c); and
- Excavation and offsite disposal of hydrocarbon impacted material at TP398 (≈ 15 m^3) to an appropriately licensed waste facility.

5. Data Quality Objectives

5.1 Overview

Validation data was required to be collected to verify the effectiveness of the remedial works and document the final site condition as being suitable for the proposed future use. As such, data quality objectives (DQOs) were developed for the validation assessment, as discussed in the following sections.

Validation activities were required for the following aspects:

- Collection of appropriate environmental data from excavations formed by the removal of contaminated soils;
- Collection of appropriate environmental data from soils to be treated/remediate on site, for beneficial re-use;
- Collection of appropriate environmental data from soils to be disposed of off-site or imported to the site;
- Tracking the movement of all soil and fill material on site;
- Tracking the movement of waste materials requiring off-site disposal; and
- Validation of any unexpected finds.

Previous investigations have identified fill materials impacted with asbestos that present a potential human health risk. Remediation is required as outlined in **Section 4**, for the site to be made suitable for commercial/industrial land use without ongoing management (encumbered by environmental management plan or similar instrument).

During remediation activities, sufficient validation of site activities is required to demonstrate that the identified health-based risks to site users and aesthetic issues have been adequately managed to render the site suitable for the proposed land use.

5.1.1 Identify the Decision

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

1. Are contaminant concentrations in remedial excavations above the adopted site remediation criteria?
2. Are there any aesthetic issues remaining following remediation works?
3. Are there any outstanding regulatory compliance issues associated with site remediation activities?
4. Is the site considered suitable for the proposed use without the requirement for ongoing management?

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

5.1.2 Identify Inputs to the Decision

The inputs to the decision are:

- Field observations in relation to inspection of all excavation bases, walls, surface material, stockpile footprints upon completion of remedial works for ACM, odours, discolouration, and other indicators of potential contamination;
- Soil validation analysis data collected from excavation bases, walls, surface material, and the exposed ground surface following excavation of stockpiles (where applicable) upon completion of remedial works;

- Waste classification and material characterisation data obtained during assessment of fill material prior to and during remediation works;
- Field observations, sampling and analytical data of any unexpected finds/additional characterisation activities;
- Disposal dockets and relevant documents in relation to appropriate disposal of material to be removed from site as part of the remediation works (landfill dockets, beneficial reuse / recycling dockets, trade waste disposal, etc.);
- Relevant guideline criteria for validation and waste classification; and
- Data quality indicators (DQIs) as assessed by quality assurance / quality control (QA/QC).

5.1.3 Define the Study Boundaries

The overall study boundary of the site as identified **Table 1.1**.

The remediation areas are outlined in **Table 5.1** and are shown on the **Figure 3** series. The remedial areas subject to remediation as part of the remedial works outlined herein are defined in **Section 4.2** .

The lateral and vertical extents of areas subject to remediation are detailed in **Table 5.1** below and are shown on the **Figure 3** series.

Table 5.1: Excavation and Stockpile Remedial Extents

Remediation Area	Quantity Approx.	Description	Contaminant	Waste Classification	Remedial Strategy
AEC 1a, 1b, 1e, 6c, and 1x	7,750 m^2	Bonded ACM in surficial soils	Asbestos	NA	On-site treatment
TP398	30 m^3	Fill with Hydrocarbons and PAHs above the land use criteria	TRH and PAH	GSW	Off-site disposal
TP460 and TP463	125 m^3	Fill with Bonded ACM detected	Asbestos	Special Waste (SW) (asb)/GSW	Off-site disposal
AEC 6C	8 m^3 Concrete / 50 m^3 Grass	Bonded ACM affixed to concrete slabs and entrained within vegetation roots.	Asbestos and aesthetic impacts (Concrete slab portions)	Special Waste (asb)/GSW	Off-site disposal
AEC UF1, 1e, 6c and 1x	50 m^3	Asbestos AF/FA detected during validation sampling	Asbestos	Special Waste (asb)/GSW	Off-site disposal
Asbestos Pipe	25 m length	Asbestos ACM pipe	Asbestos	Special Waste (asb)	Off-site disposal

In practice, the lateral and vertical extents of the remedial excavations were determined via validation activities including observations by the field scientist and soil samples / data that satisfy the adopted validation criteria (**Section 5.3**).

The temporal boundaries of this investigation was limited to the period of field works up to the time that validation samples were collected and analysed.

5.1.4 Decision Rules

The decision rules adopted to answer the decisions identified in **Section 5.1.2** are discussed below.

Table 5.2 Summary of Decision Rules

Decision Required to be Made	Decision Rule
1. Are contaminant concentrations in remedial excavations above the adopted site remediation criteria?	Soil analytical data for chemical COPCs will be compared against the adopted criteria in the RAP. For the validation sample sets, statistical analysis of the data will be undertaken in accordance with relevant guidance documents, as appropriate, to facilitate the decisions. The following statistical criteria will be adopted with respect to soils: Either: the reported concentrations will be below the site criteria; Or, the 95% Upper Confidence Limit (UCL) of the average concentration for each analyte will be below the adopted health-based site criterion, no single analyte concentration will exceed 250% of the adopted health based site criterion, and the standard deviation of the results will be less than 50% of the site health based criterion. Analytical results for asbestos in soils will be directly compared to the site criteria. No statistical assessment for asbestos in soils will be undertaken. If the statistical criteria stated above are satisfied, the answer to the decision will be **No**. If the statistical criteria are not satisfied, the answer to the decision will be **Yes**.
2. Are there any aesthetic issues remaining following remediation works?	If there are any remaining unacceptable odours, soil inclusions or soil discolouration, the answer to the decision will be **Yes**. Otherwise, the answer to the decision will be **No**.
3. Are there any outstanding regulatory compliance issues?	Qualitative assessment of the works in relation to regulatory approvals will be undertaken during and following the completion of remediation activities. If this review identifies non-compliance or outstanding issues the answer to the decision will be **Yes**. Otherwise, the answer to the decision will be **No**.
4. Is the site considered suitable for the proposed use (without ongoing management)?	Was the answer to any of the above decisions Yes? If the answer was Yes, then the answer to the decision questions is **No** and additional works are required to achieve the RAP objective. If there are no outstanding issues or residual contamination, then the answer to the decision questions will be **Yes**.

5.1.5 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), appropriate indicators of data quality (DQIs used to assess quality assurance / quality control) 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 to precision, accuracy, representativeness, comparability, completeness and sensitivity (PARCCS parameters). The acceptable limit on decision error is 95% compliance with DQIs.

The pre-determined DQIs established for the project are discussed below in relation to the PARCCS parameters, and are expanded in **Table 5.3**.

- **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[15]) 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; and 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 site assessment criteria.

15 $$RPD(\%) = \frac{|C_o - C_d|}{C_o + C_d} \times 200$$

Where C0 is the analyte concentration of the original sample
Cd is the analyte concentration of the duplicate sample

Table 5.3 Summary of Data Quality Indicators

Data Quality Indicators	Frequency	Data Quality Criteria
Precision		
Split duplicates (intra laboratory)	1 / 20 samples	<50% RPD[1]
Blind duplicates (inter laboratory)	1 / 20 samples	<50% RPD[1]
Laboratory Duplicates	1 / 20 samples	<50% RPD[1]
Accuracy		
Surrogate spikes	All organic samples	70-130% recovery
Laboratory control samples	1 per lab batch	70-130% recovery
Matrix spikes	1 per lab batch	70-130% recovery
Representativeness		
Sampling appropriate for media and analytes	All samples	-[2]
Samples extracted and analysed within holding times.	All samples	Soil: organics (14 days), inorganics (6 months) Water: organics (7 days to extract and 14 days to analyses). Metals (6 months)
Laboratory Blanks	1 per lab batch	<LOR
Trip spike	1 per lab batch	70-130% recovery
Storage blank	1 per lab batch	<LOR
Rinsate sample	1 per sampling event/media	<LOR
Comparability		
Standard operating procedures for sample collection & handling	All Samples	All Samples
Standard analytical methods used for all analyses	All Samples extracted and analysed within holding times	NATA accreditation
Consistent field conditions, sampling staff and laboratory analysis	All Samples	All samples[2]
Limits of reporting appropriate and consistent	All Samples extracted and analysed within holding times	All samples[2]
Completeness		
Sample description and COCs completed and appropriate	All Samples	All samples[2]
Appropriate documentation	All Samples	All samples[2]
Satisfactory frequency and result for QC samples		95% compliance
Data from critical samples is considered valid	-	Critical samples valid
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) A qualitative assessment of compliance with standard procedures and appropriate sample collection methods will be completed during the DQI compliance assessment.

5.1.6 Optimise the Design for Obtaining Data

The purpose of this step is to identify a resource-effective field validation sampling design that generates data that are expected to satisfy the decision performance criteria, as specified in the preceding steps of the DQO process. The output of this step is the sampling design that will guide development of the field sampling and analysis plan. This step provides a general description of the activities necessary to generate and select data collection designs that satisfy decision performance criteria.

The remediation validation and subsequent laboratory analysis program as outlined in the following sections will need to be implemented during site remediation activities to demonstrate the successful completion of works in compliance with the RAP goals. The validation/characterisation sampling and analytical program for the site is outlined in **Table 5.4** below.

Table 5.4 Characterisation / Remediation and Validation Sampling Program

Item	RAP Sampling Frequency		Analytical Suite
Soil/Fill Requiring Off-site Disposal			
Soils requiring classification in accordance with EPA (2014) *Waste Guidelines*	To be sampled by JBS&G as per the sampling density for stockpiled materials in EPA (2022). Where volumes greater than 200 m^3 require assessment, a minimum of 8 samples will be collected for each distinct material type, and an additional 1 sample per 250 m^3, with statistical criteria applied (i.e. 95 % UCL)		Heavy metals TRH PAH Asbestos (presence/absence: 40 g) ASLP/TCLP heavy metals and PAHs
ACM Remedial/Removal Activities (AEC 1a, 1b, 1e and 6c, and the residential/buildings areas of 219-233 and 235-251 Aldington Road (1X))			
	Excavation Floors	Excavation Walls	
Ground surface following completion of surface picking	JBS&G is required to inspect the surface of the picked areas via walking 1 m north/south and then east/west transects and confirm the material as free of visible ACM (and aesthetic impacts).		Visual Inspection by JBS&G only
Exposed ground surface (following stockpiling, sorting and excavation of ACM impacted stockpiled material)	Visual, and 1 per 100m^2 (10 m grid) or minimum 1x sample per base	NA	Visual Inspection by JBS&G + Asbestos (NEPM protocol: 500 mL)
Hydrocarbon Impacted Fill/Soils (TP398)			
	Excavation Floors	Excavation Walls	
Base of stockpiled area following excavation, characterisation and off-site disposal.	1 sample per 25 m^2, with a minimum of 1 sample per excavation	5 m of excavation wall, with a minimum of 1 sample per wall	Heavy Metals TRH/BTEX PAH Phenols
ACM Identified within Site Structures			
	Excavation Floors	Excavation Walls	
Ground surface following removal of site structures noted to contain ACM	JBS&G is required to inspect the footprint of site structures known to contain ACM via walking 1 m north/south and then east/west transects and confirm the material as free of visible ACM (and aesthetic impacts).		Visual Inspection by JBS&G only

Footprint of all site structures for hazardous building material impacts	1 sample per 100 m^2, with a minimum of 1 sample per footprint	If excavated greater than 0.2 m bgs a sample every 5 m of excavation wall is required, with a minimum of 1 sample per wall	Visual Inspection by JBS&G + Heavy Metals TRH/BTEX PAH Asbestos (where required)
ACM Identified Below Criteria within Sub-Surface Soils			
Area in which sub-surface ACM is identified is required to be visually inspected	JBS&G is required to inspect the area in which ACM is identified to confirm no visible ACM is within surficial soils (< 0.1 m bgs). This will be undertaken via walking 1 m north/south and then east/west transects and confirm the material as free of visible ACM (and aesthetic impacts).		Visual Inspection by JBS&G only
Validation of Petroleum Infrastructure Removal (ASTs)			
	Excavation Floors	Excavation Walls	
ASTs	Visual confirmation that no staining or odours are present. If present: 1 sample per 25m^2, with a minimum of 1 sample per former AST location	If surface scrape required due to presence of staining or odours, then sampling at the following frequency: 5m of excavation wall, with a minimum of 1 sample per wall	TRH/BTEX PAH VOCs Phenols Lead ASLP heavy metals, PAH and TRH
Materials Importation			
Imported VENM	Minimum of 5 samples per source site/material type up to 10,000 m^3 then 1 sample per 1000 m^3 thereafter		TRH/BTEX PAH Heavy Metals OCP/PCBs Asbestos (NEPM protocol: 500 mL)
Quarry VENM materials (e.g. blue metal, sandstone, shale)	Confirmation that the material is quarried rock (VENM) prior to importation, and visual confirmation.		Source site inspection required
Imported ENM	As per the order/exemption		As per the order/exemption + asbestos (500 mL)
Unexpected Finds			

	Excavation Floors	Excavation Walls	
Unexpected Find	1 per 25m^2	1 per 5m lineal	As appropriate, depending on the location and characteristics of the unexpected find

The nominated sampling densities and analytical program have considered sample density guidance provided in EPA made and endorsed guidelines.

5.2 Soil Sampling Methodology

5.2.1 Validation of Emu-picked Surfaces/Soils

Upon completion of remediation activities, JBS&G undertook a validation inspection of emu-picked surfaces. A competent person inspected the picked surfaces by completing two perpendicular transects at 1 m separation, across the extent of the entire picked area.

The surface of the picked area was photographed during the inspection and records kept for inclusion in the validation report.

5.2.2 Validation of Excavation(s)

Samples were collected by an appropriately trained and experienced environmental scientist / Licensed Asbestos Assessor (LAA) using a hand trowel or from the bucket of mechanical excavation equipment, at the required densities to meet the project DQOs presented in **Section 5.1.**

Prior to collection of each sample, hand tools were thoroughly decontaminated using phosphate free detergent and distilled water as per **Section 5.2.6**.

During the collection of soil samples, features such as seepage, discolouration, staining, odours and other indicators of contamination, including the presence of ACM were noted on the field documentation.

5.2.3 Sampling for Asbestos Assessment

Bulk soil samples (minimum 10L) were collected and weighed in the field. Collected bulk sample were sieved in the field (≤7mm passing) and/or spread on contrasting plastic for inspection and separated fragments retained and weighed in the field. The asbestos concentration as ACM in soil was calculated in accordance with NEPC (2013) and WA DOH (2009[16]), as per the following equation, w/w % =

$$\frac{\text{Weight of ACM x 0.15 (assuming 15\% asbestos content}^{17}\text{) x 100}}{\text{Weight of soil (minimum 10L sample)}}$$

JBS&G note for the purposes of the outcomes of the investigation a result of 0% w/w asbestos in soil was adopted (i.e. no visible ACM) to achieve validation.

Following field quantification and a reported 0.0 % w/w achieved, a separate 500mL soil sample (sub-sample) was collected from the same location as a bulk sample, labelled and sent to the laboratory for asbestos analysis (AF/FA) according to NEPC (2013) protocol.

5.2.4 Sample Handling

Collected samples were immediately transferred to sample containers of appropriate composition (glass jars for chemical analysis, plastic bags for asbestos). Sample labels recorded: job number; sample identification number; and date of sampling.

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16 *Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia*, WA Department of Health, 2009 (WA DOH 2009).

17 Assumed asbestos content of 15% as per WA DOH (2009)

Sample containers were transferred to a chilled ice box for sample preservation (where required) prior to and during shipment to the testing laboratory. A chain-of-custody form was completed and forwarded with the samples to the testing laboratory.

5.2.5 Soil Duplicate and Triplicate Sample Preparation and QA/QC Requirements

Field duplicate and triplicate samples for the characterisation/validation assessment were obtained during sampling using the procedures outlined at a frequency outlined in **Table 5.4**. The primary sample was divided laterally into three samples with minimal disturbance to reduce the potential for loss of volatiles and placed in three clean glass jars and / or plastic bags. All jars were filled completely with no headspace to reduce the potential for loss of volatiles and separately labelled as the primary, duplicate and triplicate samples before being placed in the same chilled esky for laboratory transport.

Trip spike, storage blank and rinsate samples were collected (where required) as per **Table 5.3**.

5.2.6 Soil Sampling Equipment Decontamination

The following procedure was used to clean non-disposable equipment, including the trowel, pick, excavated bucket etc., prior to the collection of each sample:

- Scrubbing with a wire brush to remove gross contamination;
- Pressure spray with Decon 90 detergent and potable water mix;
- Pressure spray rinse with potable water; and
- Air drying.

Rinsate samples were obtained (where required i.e. during sampling for chemical constituents) during the field decontamination procedures at regular intervals during characterisation/validation sampling activities. Each rinsate sample was obtained by rinsing the trowel with laboratory grade demineralised water following the decontamination procedure. The water sample was appropriately preserved and stored with the site samples prior to transport to the laboratory for chemical analysis.

5.2.7 Laboratory Analyses

JBS&G contracted Eurofins MGT Pty Ltd as the primary laboratory for the required analyses. The secondary laboratory was Envirolab Services Pty Ltd (Envirolab). Both laboratories were NATA accredited for the required analyses. In addition, the laboratories were required to meet JBS&G's internal quality assurance/quality control (QA/QC) requirements.

5.3 Validation Criteria

The following is a discussion of validation criteria adopted during remediation works within the site, consistent with the RAP (JBS&G 2024).

5.3.1 Soils Validation Criteria and Rationale

The site is proposed to be utilised for commercial and industrial activities, as such criteria for commercial/ industrial land use scenario were adopted for site validation, specifically:

- HIL – Commercial/Industrial (HIL-D);
- HSL – Commercial/Industrial (HSL-D);
- Aesthetic considerations as per NEPC (2013);
- EIL – Commercial/Industrial setting; and
- Ecological Screening Levels (ESL) – Commercial/Industrial setting.

In addition to the above, a criterion of no visible asbestos (absence/presence) was adopted for the validation of all bonded ACM impacted fill material (to meet the objectives of the remediation, i.e. no ongoing management).

It is noted that the HSL for Benzo(a)pyrene TEQ has been adjusted to 70 mg/kg for aged soils in accordance with Risk-based management and remediation guidance for benzo(a)pyrene (CRC Care 2017[18])

5.4 Statistical Analysis of Data

Where sufficient data sets were available, statistical criteria were applied as outlined in Decision Rule 1 of **Table 5.2**, and generally as follows:

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.

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

- Soils shall not emit recognisable odours, be discoloured because of contamination or have any significant additional aesthetic concerns with respect to future site users.

5.4.1 Off-site Disposal Criteria

Contaminated soils requiring disposal off-site were assessed in accordance with EPA (2014) *Waste Classification Guidelines Part 1: Classifying Waste* (NSW EPA 2014).

[18] *Risk-based management and remediation guidance for benzo(a)pyrene, CRC CARE Technical Report no. 39*, CRC for Contamination Assessment and Remediation of the Environment, Newcastle, Australia (CRC CARE 2017)

6. Quality Assurance / Quality Control

Detailed discussion of the QAQC assessment of the dataset is included in **Appendix D**.

The field sampling and handling procedures across the site produced QA/QC results which indicate that soil data collected is of an acceptable quality for the validation objectives.

The NATA certified laboratory reports indicate that the project laboratories were achieving levels of performance within their recommended control limits during the period when the samples from this program were analysed.

On the basis of the results of the field and laboratory QA/QC program, the soil data is of an acceptable quality upon which to draw conclusions regarding the environmental condition of the site.

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7. Summary of Remedial and Validation Works

7.1 Remedial Works

Remediation works, as outlined in **Section 4.3**, were undertaken at the site from 18 March to 10 April 2024 by Ford Civil Contractors Pty Ltd (Ford) under the supervision of JBS&G. Validation sample locations are shown on the **Figure 3** series.

A photographic log documenting the progress of the works at the site is presented in **Appendix B**.

7.2 Remediation of Bonded ACM Impacted Material

The following methodology was employed for the remediation of surficial bonded ACM impacted material:

- Each area was tyned by an excavator with a toothed bucket, ACM fragments were collected by raking, and hand picking of the spread material by Ford/Dash Group. Collected ACM fragments were disposed off-site to an appropriately licensed waste facility;
- Each area was then tyned again at a 90 degree angle to the first pass before raking and hand picking of the spread material to remove ACM a second time;
- In area 6C, concrete segments with affixed ACM, and grass stockpiled with asbestos entrained within roots were removed off-site as GSW (Special waste – Asbestos);
- In area 1X, the former TP09 was excavated to 0.5 m bgs and spread out to investigate potential for soil ACM impacts;
- Each area was validated (visually and via the sampling/screening methodology provided in **Section 5.2.3**) by JBS&G. Where ACM was visually identified, the pad was subjected to an additional rake, walk/pick by the Ford/Dash Group and re-validated by JBS&G until such time as validation was achieved; and
- Following visual validation, a representative sub-sample was collected (from a 10 L bulk sample as per **Section 5.2.3**) by JBS&G and submitted for laboratory analysis in accordance with **Table 5.4**.

A total area of approximately 7,500 m^2 was remediated and validated in areas 1A, 1B, 1E, 6C and 1X. A number of validation samples indicated the presence of friable asbestos after surface picking (UF1_01, 1E_19, 6C_07, 1X_19), these areas were remediated as described in **Section 7.3**. A single location indicated the presence of ACM (1E_20), and this area was re-picked and an additional validation sample was submitted to confirm removal of residual ACM (1E_20A).

7.3 Excavation of Friable Asbestos Hotspots

The following methodology was employed for the remediation of friable asbestos impacted material identified at the site:

- As outlined in **Section 7.2**, four friable asbestos hotspots were identified to require remediation (UF1_01, 1E_19, 6C_07, 1X_19) and were marked out by JBS&G and appropriate barricades/exclusion zones established;
- Removal/excavation of four *in-situ* friable hotspots (UF1_01, 1E_19, 6C_07, 1X_19) were advanced via a 30 tonne excavator and loaded directly to a waiting trucks for off-site disposal;
- Remedial excavations were advanced to the lateral and vertical extents presented in **Table 7.2** and shown on the **Figure 3** series;

- Following the excavation of impacted materials, the materials at the lateral and vertical extent of the resulting remedial excavations/stockpile footprint were assessed by JBS&G for indicators of contamination; and
- Once the lateral and vertical extents of the excavation were observed to be free of indicators of contamination, validation samples were collected by the JBS&G LAA for laboratory analysis in accordance **Table 5.4.**

7.4 Remediation of Unexpected Finds (UF01)

During remediation of surface asbestos impacts, it was identified that asbestos impacts within fill in the western extent of area 1B extended to a depth of approximately 0.3 m (UF01), with the approximate location of which shown on the **Figure 3** series. Photographs of the material are provided in **Appendix B.** The material was excavated and placed adjacent to Area 1B for remediation. The following methodology was employed for the assessment/remediation of impacted material associated with the unexpected find:

- The material was excavated and segregated by the remedial contractor (Ford/Dash), and spread to a depth of 0.1 m adjacent to area 1B;
- The area was tyned by an excavator with a toothed bucket, ACM fragments were collected by raking and hand picking of the spread material by Ford/Dash Group and collected ACM fragments were disposed off-site to an appropriately licensed waste facility;
- The area was then tyned again at a 90 degree angle to the first pass before raking and hand picking of the spread material to remove ACM a second time;
- The area was validated (visually and via the sampling/screening methodology provided in **Section 5.2.3**) by JBS&G.
- Following visual validation, a representative sub-sample was collected (from a 10 L bulk sample as per **Section 5.2.3**) by JBS&G and submitted for laboratory analysis in accordance with **Table 5.4.**
- Subsequently, the material was identified to have failed validation (UF1_01) due to detection of friable asbestos, and was excavated and disposed off-site as specified in **Section 7.10**;

7.5 Remediation of Unexpected Finds (UF02)

As part of remediation works in Area 1A, an asbestos pipe was identified near the surface as shown on the **Figure 3** series.

The following methodology was employed for the assessment/remediation of impacted material associated with the unexpected find:

- The pipe was exposed by the excavator to determine the total length, which was identified to be approximately 24 m;
- The pipe was removed and placed directly into a truck for disposal off-site as asbestos waste, a small breakage was noted in the central section of the pipe. However, generally the pipe was not damaged during removal;
- The excavation was inspected by JBS&G to ensure all asbestos material had been successfully removed; and
- JBS&G collected 11 samples to validate the removal of the asbestos pipe, including a base sample and 10 wall samples, in accordance with the RAP (2024). Samples submitted for asbestos laboratory analysis (**Table A, Appendix A**) did not identify the presence of asbestos, as either ACM or friable asbestos (AF/FA).

7.6 Remediation of Hydrocarbon Impacts (TP398)

As part of remediation works in Area 6C, hydrocarbon impacted soils were removed at TP398 as shown on the **Figure 3** series.

The following methodology was employed for the remediation of impacted material associated with the hydrocarbon impacts:

- The 30 T excavator advanced the excavation to 0.3 m bgs, into natural clay materials, and excavated a 10 x 10 m area around the TP398 location;
- The excavation was inspected by JBS&G for odours, or staining associated with hydrocarbon impacts; and
- JBS&G collected 8 samples to validate the removal of the hydrocarbon impacted material, including two base samples and 6 wall samples, in accordance with the RAP (2024).

7.7 Site Inspection of Former Structures and ASTs

In accordance with the RAP, areas of former asbestos containing structures were inspected for surface asbestos impacts (Area 1C and Area 1D). Site observations included walking the former footprints in 1m transects, with no surficial asbestos was identified. It was noted that structures containing asbestos were still present in Areas 1A and 1X, which will require an asbestos clearance following demolition.

Former AST's were also inspected as part of the remediation works. Minor staining on the concrete slabs were observed where AST's had been present within Lot 27 DP 255560. It was observed that concrete slabs were in good condition, with no sign of cracking or joining within the staining. Therefore, the former AST's were not considered unlikely to have caused a contamination issue, as surfaces were sealed and in good condition.

7.8 Validation Sampling

All laboratory reports and chain of custody documentation for validation and characterisation sampling are provided in **Appendix C**.

Summary analytical results tables for validation and characterisation of soils are provided in **Table A.**

The lateral extents of all remedial areas and associated validation samples are shown on the **Figure 3** series. Samples were collected at the frequencies nominated in the RAP (JBS&G 2024) as presented in **Table 5.4**. Sample locations were recorded using a hand-held GPS with sub-metre accuracy. Samples were collected via the methodology outlined in **Section 5.2** and asbestos quantification (minimum 10 L sample) was conducted at each location. During the collection of samples, features such as ACM (absence/presence), staining and odours were recorded. It should be noted that no odours or staining or ACM were detected during the collection of final validation samples.

7.8.1 Bonded Asbestos Validation Sampling

The materials treated on-site by Ford were validated in accordance with JBS&G (2024). Upon completion of the remediation of bonded ACM impacted fill material, and surface impacts, no ACM material was observed, and final validation samples were free of ACM and AF/FA impacts. Details of validation sampling is presented in **Table 7.1** below.

Table 7.1 Bonded Asbestos Validation

Sample Type	RAP Sampling Frequency	Approximate Area (m^2)/Volume (m^3)	Sampled Frequency	Primary Sample ID	Analytical Suite
Surface Validation (treated material)					
Area 1A					
Bulk	1/100 m^2	1,400 m^3	16 samples	1A_01-1A_16	Asbestos (NEPM: 500 mL)
Area 1B (Including UF1)					
Bulk	1/100 m^2	900 m^3	17 samples	1B_01-1B_10, 1B2_01-1B2_03, UF1_01, UF1_02, UF1_01A and UF1_02A	Asbestos (NEPM: 500 mL)
Area 1E					
Bulk	1/100 m^2	2200 m^3	23 pad samples	1E_01-1E_21, 1E_19A and 1E_20A	Asbestos (NEPM: 500 mL)
Area 6C					
Bulk	1/100 m^2	1150 m^3	17 pad samples	6C_01-6C_16, 6C_07A	Asbestos (NEPM: 500 mL)
Area 1X					
Bulk	1/100 m^2	2100 m^3	22 pad samples	1X_01-1X_21, 1X_19A	Asbestos (NEPM: 500 mL)
***In-Situ* Excavation Validation**					
TP460 (excavation extent)					
Base of Excavation	1/100 m^2	25 m^2	2 base samples	463_08 to 463_09	Asbestos (NEPM: 500 mL)
Excavation Walls	1 sample per 10 m 1 sample per 1 m depth	5 x 5 m^2	7 wall samples	463_01 to 463_08	Asbestos (NEPM: 500 mL)
TP460 (excavation extent)					
Base of Excavation	1/100 m^2	25 m^2	2 base samples	460_13 to 460_14	Asbestos (NEPM: 500 mL)
Excavation Walls	1 sample per 10 m 1 sample per 1 m depth	5 x 5 m^2	12 wall samples	460_01 to 460_12	Asbestos (NEPM: 500 mL)
UF2 – Asbestos Pipe					
Base of Excavation	1/100 m^2	25 m^2	1 base sample	UF2_B01	Asbestos (NEPM: 500 mL)
Excavation Walls	1 sample per 10 m	24 x 1 m^2	10 wall samples	UF2_EW1-UF2_EW5 and	Asbestos (NEPM: 500 mL)

Sample Type	RAP Sampling Frequency	Approximate Area (m^2)/Volume (m^3)	Sampled Frequency	Primary Sample ID	Analytical Suite
	1 sample per 1 m depth			UF2_WW1-UF2_WW5	

7.8.2 Friable Asbestos Hotspot Validation

Excavations formed by the removal of material identified to contain AF/FA were validated in accordance with JBS&G (2024) and as presented in **Table 7.2** below.

Table 7.2 Friable Asbestos Hotspot Validation

Sample Type	RAP Sampling Frequency	Sampled Frequency	Sample ID	Analytical Suite
1E_19 – Dimensions approximately 10 m x 10 m x 0.1 m				
Base of Excavation	1/100 m^2	1 base sample	1E_19A	Asbestos (NEPM: 500 mL)
Walls of Excavation	NA: walls not evident, or less than 0.2 m in height			
1X_19 – Dimensions approximately 10 m x 10 m x 0.1 m				
Base of Excavation	1/100 m^2	1 base sample	1X_19A	Asbestos (NEPM: 500 mL)
Walls of Excavation	NA: walls not evident, or less than 0.2 m in height			
6C_07 – Dimensions approximately 10 m x 10 m x 0.1 m				
Base of Excavation	1/100 m^2	1 base sample	6C_07A	Asbestos (NEPM: 500 mL)
Walls of Excavation	NA: walls not evident, or less than 0.2 m in height			
UF1_01 – Dimensions approximately 10 m x 10 m x 0.1 m				
Base of Excavation	1/100 m^2	1 base sample	UF1_01A, UF1_02A	Asbestos (NEPM: 500 mL)
Walls of Excavation	NA: walls not evident, or less than 0.2 m in height			

During remedial activities anthropogenic materials were noted within the soil located in the remedial zones (1E, 1B and 1X). The anthropogenic material was noted to be minor in nature and consist of brick, plastic, and tile. It is noted that some general rubbish material was located on the site, particularly around undemolished structures. This is expected to be removed with final demolition of structures. Inclusions in soil were not noted to be significant, and based on the proposed land use of commercial/industrial, are not expected to be an unacceptable aesthetic concern.

7.9 Off-Site Disposal

Waste Classification documentation is provided in **Appendix E.** Off-site disposal dockets and material tracking records are provided in **Appendix F.**

Materials assessed to be unsuitable for the proposed land use were excavated and disposed off-site to facilities licensed to accept such wastes. During remedial activities at the site, contaminated excavated and stockpiled material were disposed off-site by Ford/Dash according to waste classification documentation as outline in **Table 7.3** below. Pre-classified wastes were disposed of in accordance with relevant EPA orders/exemptions and/or as defined in EPA (2014).

Table 7.3 Off-site Disposal Material Tracking

Material ID	Source Location	Approx. Volume (m^3)	Receiving Waste Facility	Date of Disposal	Tonnes (t)	Waste Classification
Friable (AF/FA) Excavations						
UF1_01	Friable asbestos hotspot within surface clearance 1E	20	Brandown Waste and Recycling Landfill, 90 Range Road, Cecil Park, NSW 2178	09.04.2020	74.82 t	General Solid Waste (GSW) / Special Waste (asbestos) non-putrescible (JBS&G 2024b[19])
6C_07	Friable asbestos hotspot within surface clearance 6C	10				
1X_19	Friable asbestos hotspot within surface clearance 1X	10				General Solid Waste (GSW) / Special Waste (asbestos) non-putrescible (JBS&G 2024c[20])
1E_19	Friable asbestos hotspot within surface clearance of UF1	10	Bingo Recycling, Honeycomb Drive, Eastern Creek, NSW 2766	28.03.2024	14.22 t	GSW / Special Waste (asbestos) non-putrescible (JBS&G 2024d[21])
TP398 – Hydrocarbon Impacted Hotspot						
TP398	Hydrocarbon impacted material at DSI Test Pit 398	30	Sydney Recycling Park, 16-23 Clifton Road, Kemps Creek, NSW 2178	22.03.2024	26.94 t	GSW non-putrescible (JBS&G 2024e[22])
TP460 and TP463 - Asbestos Impacted Fill						
TP460 and TP463	Fill material with asbestos ACM impacts identified	125	Brandown Waste and Recycling Landfill, 90 Range Road, Cecil Park, NSW 2178	21.03.2024	147.46 t	GSW / Special Waste (asbestos) non-putrescible (JBS&G 2024f[23])
UF2 – Asbestos Pipe - pre-classified in accordance with EPA (2014)						
Asbestos Pipe	Unexpected find 2 located within area 1A	NA	Bingo Recycling, Honeycomb Drive, Eastern Creek, NSW 2766	26.03.2024	4.64 t	Special Waste (asbestos)
6C Asbestos Impacted Materials - pre-classified in accordance with EPA (2014)						

19 *L005 Waste Classification, In-Situ Waste Classification, Asbestos Impacted Material 1B and 6C, Edge South Development, Aldington Road, Kemps Creek (Rev A)*. JBS&G Australia Pty Ltd, ref: 66105/ 158,767 dated 2 April 2024 (JBS&G 2024b)

20 *L006 Waste Classification, In-Situ Waste Classification, Asbestos Impacted Material, Edge South Development, 219 – 235 Aldington Road, Kemps Creek (Rev A)*. JBS&G Australia Pty Ltd, ref: 66105/ 158,760 dated 2 April 2024 (JBS&G 2024c)

21 *L004 Waste Classification, In-Situ Waste Classification, Asbestos Impacted Material 1E-19, Edge South Development, Aldington Road, Kemps Creek (Rev A),* JBS&G Australia Pty Ltd, ref: 66105/ 158,645 dated 26 March 2024 (JBS&G 2020d)

22 *Waste Classification (TP398), Aldington Road Kemps Creek NSW*. JBS&G Australia Pty Ltd, ref: 66105/158466 dated 20 March 2024 (JBS&G 2024e)

23 *L002 In-Situ Waste Classification, Asbestos Impacted Material at TP460 and TP463, Edge South Development, Aldington Road, Kemps Creek (Rev A)*. JBS&G Australia Pty Ltd, ref: 66105/ 158427 dated 19 March 2024 (JBS&G 2024f)

Concrete with affixed ACM	ACM affixed to concrete slabs	NA	Brandown Waste and Recycling Landfill, 90 Range Road, Cecil Park, NSW 2178	21.03.2024	17.4 t	Concrete/ Special Waste (asbestos)
Green Waste	Grass stripped aside by tyning, with asbestos entrained in roots	NA	Bingo Recycling, Honeycomb Drive, Eastern Creek, NSW 2766	03.04.2024	10.32 t	Green Waste/Special Waste Asbestos

Note, a register of waste disposal at the site is provided in **Appendix F**.

7.10 Air Monitoring

All air monitoring was completed during remedial works as per the requirements of JBS&G (2024) in accordance with the *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres* [NOHSC: 3003(2005)], with NATA certification applying to all sample collection, handling and analytical procedures.

All reported results were satisfactory and below the minimum action levels for control monitoring as outlined in:

- Work, Health and Safety (2017) Regulation; and
- SafeWork NSW (2019) *How to Safely Remove Asbestos: Code of Practice* (SWNSW 2019[24]).

[24] *How to safely remove Asbestos – Code of Practice, SafeWork NSW 2019* (SWNSW 2019)

8. Analytical Results

8.1 Remediation and Validation Results

Field Observations – Remedial Areas

Remedial activities at the site were undertaken between the 18 March and 10 April 2024. The remedial extents and key site features are shown on the **Figure 3** series, a photographic log depicting the works conducted at the site is presented in **Appendix B.**

Remediated surface materials were identified assesses during remediation, and described as follows:

- 1A – Black/brown/grey gravelly clay, trace tile and timber;
- 1B – Black/brown gravelly clay with minor inclusions of shale, brick, tile, terracotta, and steel;
- 1E – Brown/black/orange gravelly clay, inclusions of sand, roots and organics, trace concrete, tile, brick, timber/particle board and shale;
- 1X – Black/brown/grey gravelly clay with some vegetation and minor timber, plastic; and
- 6C – black/brown/grey gravelly clay with vegetation and minor shale gravels, tile/terracotta, brick, concrete and organics.

It was noted that some household waste including metal, timber and plastic was associated with the structures present around area 1X. These materials were not within the site surface soils. TP09 was excavated to 0.5 m to investigate the potential for ACM impacts below the surface, no ACM was identified within the spread soils.

Area 1C and Area 1D were investigated for surface ACM impacts, with no ACM identified in these areas after walking 1 m transects. The former ASTs previously identified south of Area 1B were investigated, with minor staining observed on the concrete slabs remaining underneath the AST locations. However, the surface was in good condition with no cracks or joins evident. Therefore, it is considered unlikely that a pathway to site soils exists.

Soil Analytical Results – Remediation

All soil results of validation locations are summarised in **Table A** and laboratory reports and chain of custody documentation are included in **Appendix C**.

The characterisation areas and validation sampling locations are shown on the **Figure 3** series**.**

8.1.1.1 Asbestos

During inspection and validation of treated bonded ACM impacted material, final validation samples (10L asbestos quantification) did not report the presence of visible ACM (0% w/w) as per the criteria outlined in **Section 5.3.1**.

A total of 129 primary samples were submitted for asbestos analysis as part of remedial works. Asbestos was reported below the LOR and validation criteria in all samples submitted for analysis, except for (subsequently removed during remediation):

- 1E_19 – AF/FA of 0.0007 %w/w, which is below the adopted site criteria, but above the limit of reporting;
- 6C_07 – AF/FA of 0.13 %w/w, above the adopted health screening criteria;
- 1X_19 – AF/FA of 0.0099 %w/w, which is below the adopted site criteria, but above the limit of reporting;
- UF1_01 – AF/FA of 0.00007 %w/w, which is below the adopted site criteria, but above the limit of reporting;

- 1E_20 – ACM of 0.22 %w/w, above the adopted health screening criteria.

Following further excavation and removal of AF/FA impacted material from these areas, and re-picking of area 1E_20 (**Figure 3** series), all subsequent validation samples (1E_19A, 1E_20A, 6C_07A, 1X_19A, UF1_01A, UF1_02A) reported AF/FA and ACM below the limit of reporting, except:

8.1.1.2 Heavy Metals

A total of 8 primary samples were submitted for heavy metal analysis as part of remedial works to validate the remediation of TP398. Heavy metals were reported below the validation criteria in all samples submitted for analysis, except for:

- 398_06 – Zinc with a concentration of 190 mg/kg above the ecological criteria of 110 mg/kg.

8.1.1.3 TRH/BTEX

A total of 8 primary samples were submitted for TRH/BTEX analysis as part of remedial works to validate the remediation of TP398. All samples were reported below the validation criteria in samples submitted for analysis.

8.1.1.4 PAH

A total of 8 primary samples were submitted for PAH analysis as part of remedial works to validate the remediation of TP398. All samples were reported below the validation criteria in all samples submitted for analysis, with the exception of:

Benzo(a)pyrene was reported above the site ecological screening level of 1.4 mg/kg at the following locations:

- 398_01 – with a concentration of 15 mg/kg;
- 398_02 – with a concentration of 63 mg/kg;
- 398_03 – with a concentration of 13 mg/kg;
- 398_05 – with a concentration of 5.1 mg/kg; and
- 398_06 – with a concentration of 3.2 mg/kg.

It is noted that the elevated concentrations of benzo(a)pyrene are likely sourced from isolated asphaltic inclusions and therefore bound within a matrix. Furthermore, NEPM Schedule B7 (Appendix A2 the derivation of PAHs and Phenols) guidance provides that plants grown on PAH contaminated soil have only limited ability to take in and incorporate anthropogenic PAHs through their roots and into their biomass. With consideration to the proposed end use of the site, JBS&G do not consider the elevated concentration of benzo(a)pyrene within TP398 excavation to represent an unacceptable risk requiring remediation or management.

Benzo(a)pyrene TEQ was reported above the site specific health investigation level of 70 mg/kg at the following locations:

- 398_02 – with a concentration of 100 mg/kg.

8.1.1.5 Phenols

A total of 8 primary samples were submitted for Phenols analysis as part of remedial works to validate the remediation of TP398. All samples were reported below the validation criteria and LOR in all samples submitted for analysis.

8.1.1.6 Herbicides and Fungicides

A total of 8 primary samples were submitted for Dinoseb analysis as part of remedial works to validate the remediation of TP398. All samples were reported below the validation criteria and LOR in all samples submitted for analysis.

9. Assessment of Decision Rules

As discussed in **Section 8**, the data set for the site is considered suitable to make conclusions on the suitability of the site for its proposed use. Based on the decisions to determine suitability of the site for proposed use are discussed below.

9.1 Are contaminant concentrations in remedial excavations above the adopted site criteria?

No contaminant concentrations in final validation samples were above the adopted site criteria for asbestos.

A number of samples exceeded the ecological screening level for benzo(a)pyrene, however it is noted that the elevated concentrations of benzo(a)pyrene are likely sourced from isolated asphaltic inclusions and therefore bound within a matrix. Waste classification sampling (JBS&G 2024e) included TCLP leachate analysis, which indicated all samples were below the LOR for b(a)p in leachate. Furthermore, NEPM Schedule B7 (Appendix A2 the derivation of PAHs and Phenols) guidance provides that plants grown on PAH contaminated soil have only limited ability to take in and incorporate anthropogenic PAHs through their roots and into their biomass. With consideration to the proposed end use of the site, JBS&G do not consider the elevated concentration of benzo(a)pyrene within TP398 excavation to represent an unacceptable risk requiring remediation or management.

A single exceedance of benzo(a)pyrene TEQ above the adopted site criteria (70 mg/kg) was reported at 398_02 (100 mg/kg). Statistical analysis was undertaken on all of the samples taken from the excavation. The results are attached as **Appendix H**, with the results indicating that the Standard Deviation (33.47 mg/kg) is less than 50% of the criteria, and the 95% UCL of 91.82 mg/kg is below the site criteria.

The answer to the decision is no.

9.2 Are there any aesthetic issues remaining following remediation works?

Based on the absence of identifiable odours or staining, lack of significant deleterious soil inclusions noted in the remedial areas, JBS&G does not consider there are aesthetic issues at the site likely to preclude a commercial/industrial land use scenario.

The answer to the decision is no.

9.3 Are there any regulatory compliance issues associated with site remediation activities?

A qualitative review of relevant approvals, materials importation and disposal has been completed in preparation of this validation assessment. A brief discussion is presented below.

Environment Planning and Assessment Act 1979/SEPP (R&H) (2021)

The remediation works within a portion of the site zoned 'Western Sydney Employment Area 2009' were classified as Category 2 Remediation Works as per the meaning provided in SEPP (Resilience and Hazards) (2021).

Prior to works, notification of remediation was provided to Penrith Council on 5 February 2024, satisfying the minimum 30-day notification requirement.

Environment Planning and Assessment Regulation 2000 – Schedule 3 Designated Development

Remediation works did not trigger application of the regulation.

Protection of the Environment Operations Act 1997

The remediation/validation activities were not required to be licensed under the POEO Act. No individual work stages was found to be greater than 3 ha in area or triggered application of the *Act*, and hence do not trigger licensing requirements.

Protection of the Environment Operations (Waste) Regulation 2014

Waste was stored whilst on site in an environmentally safe manner as per the Principal Contractor's management plans and the RAP (JBS&G 2024).

Waste Classification Guidelines (EPA 2014)

All material was classified in accordance with EPA (2014) and disposed to facilities lawfully able to accept it.

WorkSafe/WorkCover

Prior to works, consent was issued by Worksafe/WorkCover to undertake asbestos removal works.

All air monitoring was completed in accordance with the *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres* [NOHSC: 3003(2005)], with NATA certification applying to all sample collection, handling and analytical procedures.

All reported results were satisfactory and below the minimum action levels for control monitoring as outlined in:

- Work, Health and Safety (2011) Regulation; and
- WorkCover Authority of NSW (2011) *Code of Practice – How to Safely Remove Asbestos*.

Overall Regulatory Compliance

Regulatory requirements associated with the remediation works have been met during this project and as such, it is considered activities have been compliant.

The answer to the decision is **no**.

9.4 Is the site considered suitable for the proposed use without the requirement for ongoing management?

Based on the successful validation of the site in accordance with NEPC (2013), JBS&G considers that the site is suitable for the proposed commercial/ industrial land use (NEPC 2013) without the requirement for ongoing management (i.e. environmental management plan (EMP) or similar instrument) to address identified contamination.

The answer to the decision is **yes**.

10. Conclusions

Based on the results of the remediation and validation of the site described herein, and subject to the limitation described in **Section 11**, JBS&G considers that the site has been remediated and is suitable for the proposed commercial/industrial land use, without the requirement for ongoing management.

It is recommended that the unexpected finds protocol presented in the RAP (2024) is utilised throughout earthworks.

11. 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.

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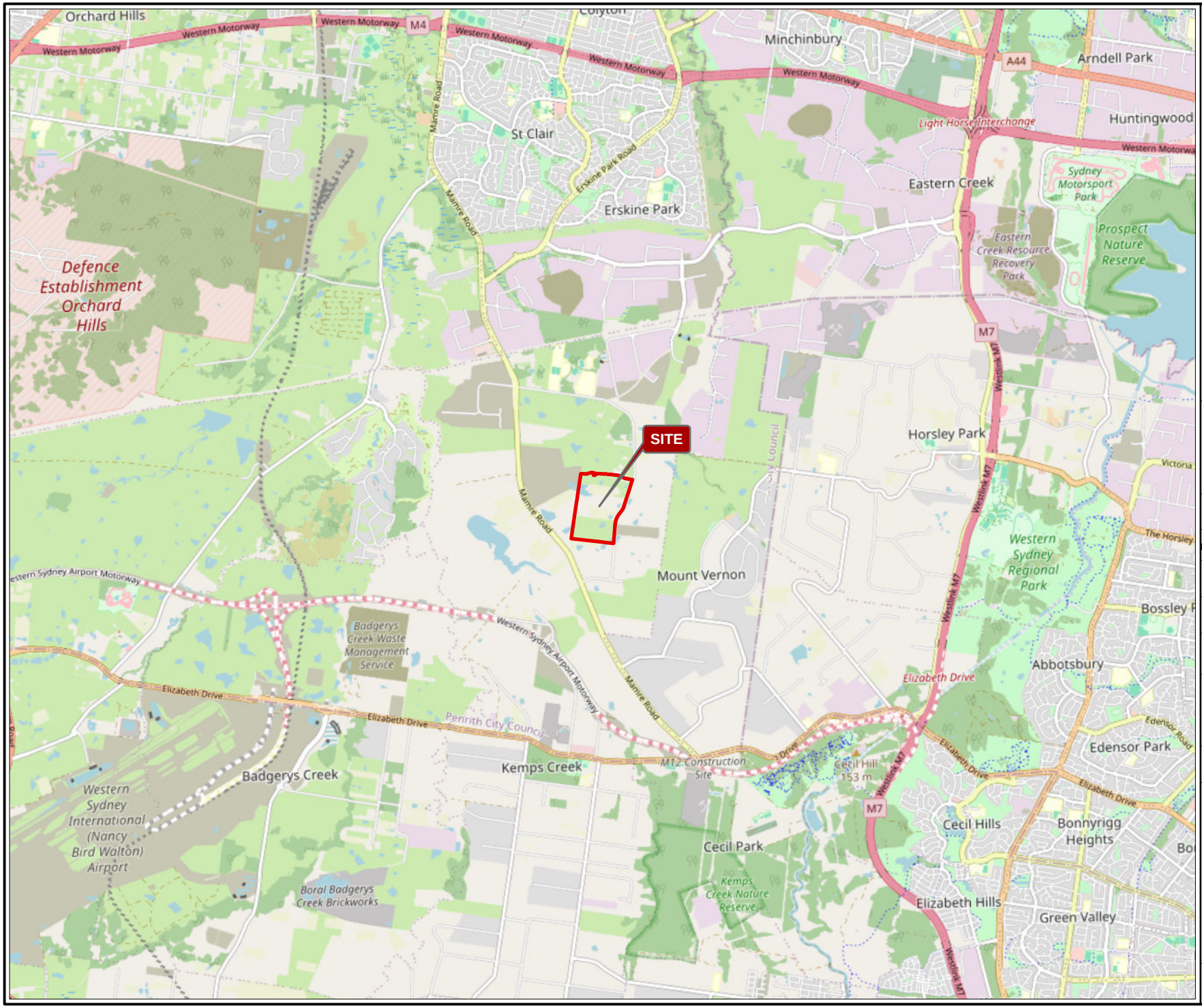


Legend

Approximate Site Boundary

JBS&G

Job No: 66105

Client: Frasers Property Group

Version: R02 Rev A	Date 23/04/2024
Drawn By: MW	Checked By: SK

Scale 1:75,000

0 750 1,500

metres

Coord. Sys. GDA 1994 MGA Zone 56

155-251 Aldington Road,
Kemps Creek, NSW

SITE LOCATION

FIGURE 1

File Name: 66105_KempsCreek_FrasersProperty_R01_Rev0

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

Legend

- Approximate Site Boundary
- NSW Cadastre

Management Areas

- Asbestos identified within site structures (further findings may occur following HBMS)
- AST Location

Remedial Extent

- Elevated hydrocarbons above the adopted land use criteria
- ACM identified in surficial soils (< 0.1 m bgs) and/or affixed to stockpiled concrete slabs

JBS&G

Job No: 66105

Client: Frasers Property Group

Version: R02 Rev A	Date 23/04/2024
Drawn By: MW	Checked By: SK

Scale 1:5,500

0 50 100
metres

Coord. Sys. GDA 1994 MGA Zone 56

155-251 Aldington Road,
Kemps Creek, NSW

SITE LAYOUT

FIGURE 2

File Name: 66105_KempsCreek_FrasersProperty_R01_Rev0
Reference: Nearmap - www.nearmap.com (Capture Date: 20211017)

Legend

- Approximate Site Boundary
- NSW Cadastre (DFSI, 2021)

Remedial Extent

- ACM identified in surficial soils (< 0.1 m bgs) and/or affixed to stockpiled concrete slabs

Site Features

- Asbestos Pipe
- Concrete Slab
- Sample Location

POINT	EASTING	NORTHING
A	296130.9172	6252963.328
B	296157.1695	6252960.033
C	296155.0042	6252942.784
D	296183.5667	6252939.198
E	296181.3785	6252921.768
F	296126.5637	6252928.649

JBS&G

Job No: 66105

Client: Frasers Property Group

Version: R02 Rev A	Date 23/04/2024
Drawn By: MW	Checked By: SK

Scale 1:300

0 3 6

metres

Coord. Sys. GDA 1994 MGA Zone 56

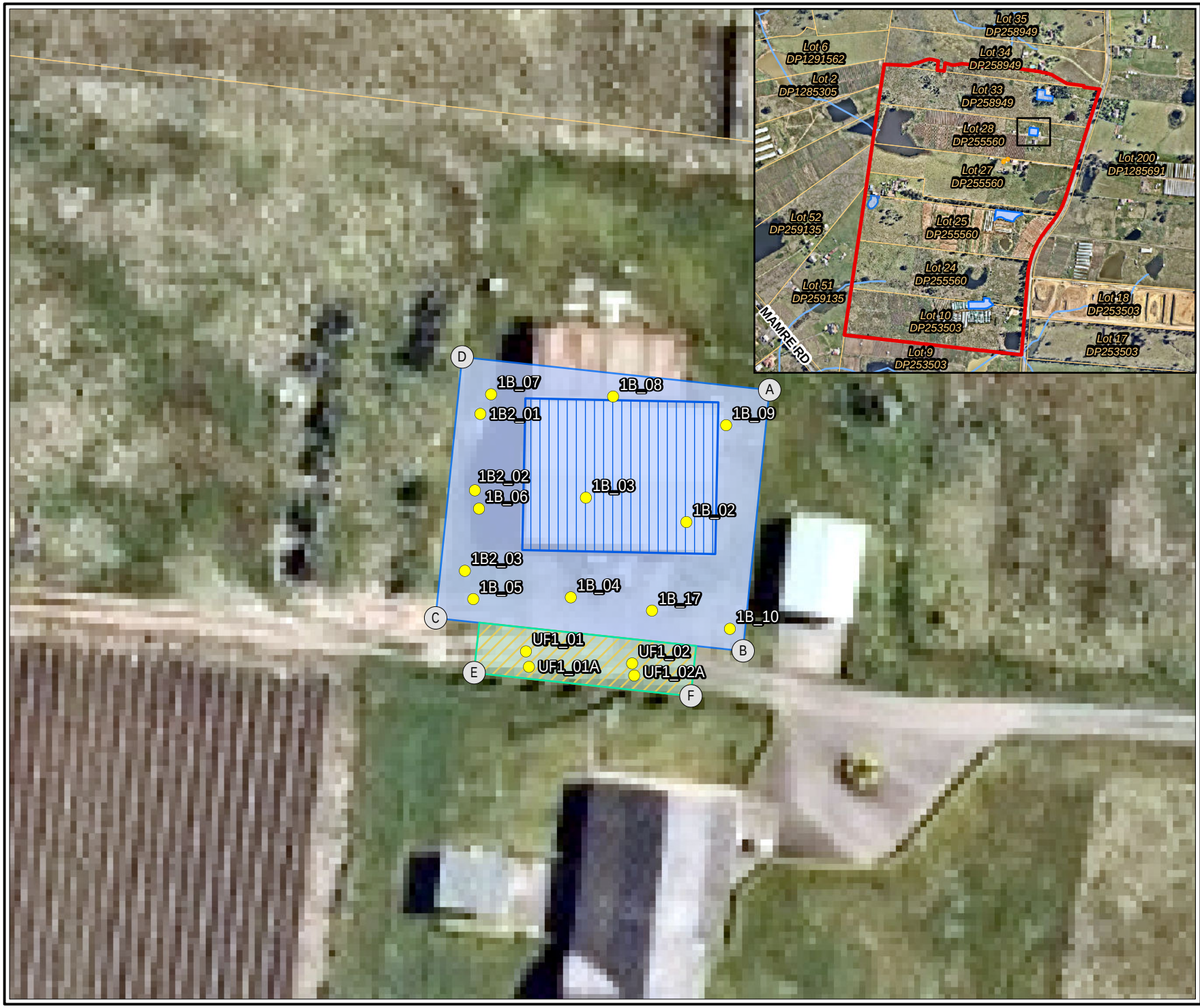
155-251 Aldington Road,
Kemps Creek, NSW

AREA 1A

VALIDATION SAMPLING

FIGURE 3A

File Name: 66105_KempsCreek_FrasersProperty_R01_Rev0
Reference: Nearmap - www.nearmap.com (Capture Date: 20211017)



Legend

- Approximate Site Boundary
- NSW Cadastre (DFSI, 2021)

Remedial Extent

- ACM identified in surficial soils (< 0.1 m bgs) and/or affixed to stockpiled concrete slabs

Site Features

- UF1
- Concrete Slab
- Friable Hotspot
- Sample Location

POINT	EASTING	NORTHING
A	296132.6053	6252826.61
B	296130.0324	6252801.31
C	296100.2115	6252804.5
D	296102.7844	6252829.8
E	296103.9413	6252799.19
F	296124.9713	6252796.94

JBS&G

Job No: 66105

Client: Frasers Property Group

Version: R02 Rev A	Date 29/04/2024
Drawn By: MW	Checked By: SK

Scale 1:500

0 5 10

metres

Coord. Sys. GDA 1994 MGA Zone 56

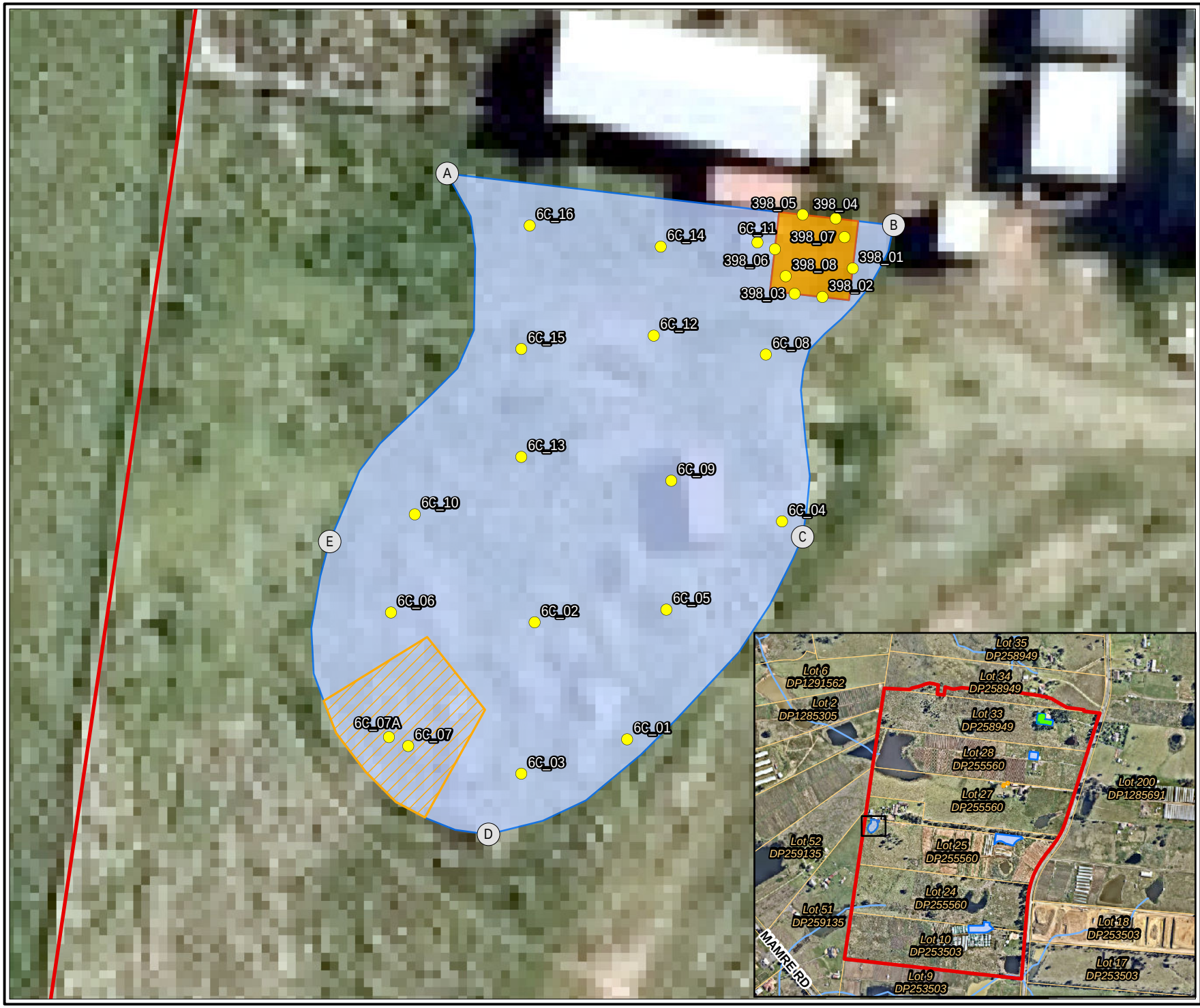
155-251 Aldington Road,
Kemps Creek, NSW

AREA 1B

VALIDATION SAMPLING

FIGURE 3B

File Name: 66105_KempsCreek_FrasersProperty_R002_RevA
Reference: Nearmap - www.nearmap.com (Capture Date: 20211017)



Legend

- Approximate Site Boundary

Remedial Extent

- Elevated hydrocarbons above the adopted land use criteria
- ACM identified in surficial soils (< 0.1 m bgs) and/or affixed to stockpiled concrete slabs
- Friable Hotspot
- Sample Location

POINT	EASTING	NORTHING
A	295547.5	6252593.78
B	295578.7	6252590.18
C	295572.3	6252568.41
D	295550.4	6252547.65
E	295539.3	6252568.09

JBS&G

Job No: 66105

Client: Frasers Property Group

Version: R02 Rev A | Date 23/04/2024

Drawn By: MW | Checked By: SK

Scale 1:360

0 3.5 7

metres

Coord. Sys. GDA 1994 MGA Zone 56

155-251 Aldington Road,
Kemps Creek, NSW

AREA 6C

VALIDATION SAMPLING

FIGURE 3C

File Name: 66105_KempsCreek_FrasersProperty_R01_Rev0
Reference: Nearmap - www.nearmap.com (Capture Date: 20211017)

Legend

Approximate Site Boundary

Remedial Extent

ACM identified in surficial soils (< 0.1 m bgs) and/or affixed to stockpiled concrete slabs

Site Features

Friable Hotspot

Shed Extent - Visually Cleared

Inaccessible Area

Sample Location

POINT	EASTING	NORTHING
A	295963.1832	6252233.14
B	295975.989	6252212.5
C	295947.2856	6252199.2
D	295890.2639	6252198.11
E	295889.2055	6252223.19
F	295942.6515	6252223.19

JBS&G

Job No: 66105

Client: Frasers Property Group

Version: R02 Rev A | Date 29/04/2024

Drawn By: MW | Checked By: SK

Scale 1:400

0 4 8

metres

Coord. Sys. GDA 1994 MGA Zone 56

155-251 Aldington Road,
Kemps Creek, NSW

AREA 1X

VALIDATION SAMPLING

FIGURE 3D

File Name: 66105_KempsCreek_FrasersProperty_R002_RevA
Reference: Nearmap - www.nearmap.com (Capture Date: 20211017)

Legend

- Approximate Site Boundary

Remedial Extent

- ACM identified in surficial soils (< 0.1 m bgs) and/or affixed to stockpiled concrete slabs

Site Features

- Concrete Slab
- Friable Hotspot
- Test Pit
- Sample Location

POINT	EASTING	NORTHING
A	295985.1961	6252543.145
B	296074.2386	6252532.627
C	296078.5749	6252526.991
D	296045.3961	6252502.861
E	295999.5785	6252518.137
F	295979.6211	6252506.878

JBS&G

Job No: 66105

Client: Frasers Property Group

Version: R02 Rev A	Date 29/04/2024
Drawn By: MW	Checked By: SK

Scale 1:500

0 5 10

metres

Coord. Sys. GDA 1994 MGA Zone 56

155-251 Aldington Road,
Kemps Creek, NSW

AREA 1E

VALIDATION SAMPLING

FIGURE 3E

File Name: 66105_KempsCreek_FrasersProperty_R002_RevA
Reference: Nearmap - www.nearmap.com (Capture Date: 20211017)

Appendix A Analytical Summary Tables

Table A1 - Soil Asbestos
Project Number: 66105
Project Name: Aldington Road, Kemps Creek

	Asbestos - Eurofins																			Asbestos - Envirolab			
	Approximate Sample Mass	Asbestos Sample Dimensions	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	ACM - Comment	FA- Comment	AF - Comment	Organic Fibres - Comment	Respirable Fibres - Comment	Synthetic Fibres - Comment	Asbestos Reported Result	Asbestos ID in Soil	Total Asbestos	Asbestos (ACM >7mm) Estimation	Asbestos in soil (<2mm AF/FA) (%w/w)
	g	Comment	g	g	% (w/w)	g	g	g	g	% (w/w)	g	Comment	Comment	Comment	Comment	Comment	Comment	Comment	g/kg	g/kg	% (w/w)	% (w/w)
EQL																				0.1	0.01	0.001
NEPC 2013 EIL, Site Specific																						
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil																						
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay																						
0-1m																						
1-2m																						
2-4m																						
>4m																						
NEPM 2013 Table 1B(1-5) Generic EIL - Comm/Ind																						
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil																						
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil																						
NEPM 2013 Table 7 Comm/Ind D Soil HSL for Asbestos in Soil					**0.05**[#21]					**0.001**[#22]											**0.05**[#21]	**0.001**[#22]

Field_ID	Location_Code	Sampled_Date_Time																					
1A-01		21/03/2024	701	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
1A-02		21/03/2024	667	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
1A-03		21/03/2024	540	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
1A-04		21/03/2024	566	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
1A-05		21/03/2024	900	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
1A-06		21/03/2024	550	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
1A-07		21/03/2024	720	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
1A-08		21/03/2024	620	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
1A-09		21/03/2024	500	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
1A-10		21/03/2024	731	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
1A-11		21/03/2024	500	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	-	1[#16]	1[#10]	-	-	-	-
1A-12		21/03/2024	622	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
1A-13		21/03/2024	726	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
1A-14		21/03/2024	706	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
1A-15		21/03/2024	725	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
1A-16		21/03/2024	501	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
1B-01		21/03/2024	520	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
1B-02		21/03/2024	500	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
1B-03		21/03/2024	501	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
1B-04		21/03/2024	520	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
1B-05		21/03/2024	722	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	-	1[#16]	1[#10]	-	-	-	-
1B-06		21/03/2024	610	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
1B-07		21/03/2024	700	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
1B-08		21/03/2024	780	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
1B-09		21/03/2024	821	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
1B-10		21/03/2024	786	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
1B2 _01		25/03/2024	506	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	0	1[#16]	1[#10]	-	-	-	-
1B2 _02		25/03/2024	577	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
1B2 _03		25/03/2024	549	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
1E - 1		20/03/2024	635	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
1E - 10		20/03/2024	627	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
1E - 11		20/03/2024	477	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
1E - 12		20/03/2024	617	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
1E - 13		20/03/2024	605	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
1E - 14		20/03/2024	874	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
1E - 15		20/03/2024	684	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
1E - 16		20/03/2024	368	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
1E - 17		20/03/2024	534	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
1E - 18		20/03/2024	803	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
1E - 19		20/03/2024	640	-	0	0	0	0	0	0.0451	0.00451	0.0007044674	0.00451	1[#16]	1[#16]	1[#7]	1[#14]	1[#13]	1[#16]	1[#AF:Chrysotile asbestos detected in compressed fibre cement material.Approximate raw weight of AF = 0.045g*Estimated asbestos content in AF = 0.0045g*Total estimated asbestos concentration in AF = 0.0070% w/w*No asbestos detected at the reporting limit of 0.001% w/w.*Organic fibre detected.No trace asbestos detected.	-	-	-	-
1E - 2		20/03/2024	632	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
1E - 20		20/03/2024	399	-	4.3025	0.8605	**0.215880582**	0	0	0	0	0	0	1[#11]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#11Approximate raw weight of ACM = 4.3gTotal estimated asbestos content in ACM = 0.86g*Total estimated asbestos concentration in ACM = 0.22% w/w*Organic fibre detected.No trace asbestos detected.	-	-	-	-
1E - 21		20/03/2024	533	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
1E - 3		20/03/2024	706	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
1E - 4		20/03/2024	638	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
1E - 5		20/03/2024	580	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
1E - 6		20/03/2024	693	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
1E - 7		20/03/2024	627	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
1E - 8		20/03/2024	466	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	-	1[#16]	1[#10]	-	-	-	-
1E - 9		20/03/2024	603	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
1X_19A		9/04/2024	477	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
460_01	460_01	18/03/2024	539	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
460_02	460_02	18/03/2024	527	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
460_03	460_03	18/03/2024	559	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
460_04	460_04	18/03/2024	452	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
460_05	460_05	18/03/2024	481	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
460_06	460_06	18/03/2024	598	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-

Table A1 - Soil Asbestos
Project Number: 66105
Project Name: Aldington Road, Kemps Creek

			Asbestos - Eurofins																					Asbestos - Envirolab			
			Approximate Sample Mass	Asbestos Sample Dimensions	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	ACM - Comment	FA- Comment	AF - Comment	Organic Fibres - Comment	Respirable Fibres - Comment	Synthetic Fibres - Comment	Asbestos Reported Result	Asbestos ID in Soil	Total Asbestos	Asbestos (ACM >7mm) Estimation	Asbestos in soil (<2mm AF/FA) (%w/w)
			g	Comment	g	g	% (w/w)	g	g	g	g	% (w/w)	g	Comment	Comment	Comment	Comment	Comment	Comment	Comment	g/kg	g/kg	% (w/w)	% (w/w)
EQL																						0.1	0.01	0.001
NEPC 2013 EIL, Site Specific																								
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil																								
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay																								
0-1m																								
1-2m																								
2-4m																								
>4m																								
NEPM 2013 Table 1B(1-5) Generic EIL - Comm/Ind																								
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil																								
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil																								
NEPM 2013 Table 7 Comm/Ind D Soil HSL for Asbestos in Soil							**0.05[#21]**					**0.001[#22]**											**0.05[#21]**	**0.001[#22]**
Field_ID	**Location_Code**	**Sampled_Date_Time**																						
460_07	460_07	18/03/2024	538	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
460_08	460_08	18/03/2024	484	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
460_09	460_09	18/03/2024	547	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	-	1[#16]	1[#10]	-	-	-	-
460_10	460_10	18/03/2024	614	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
460_11	460_11	18/03/2024	563	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
460_12	460_12	18/03/2024	445	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
460_13	460_13	18/03/2024	703	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
460_14	460_14	18/03/2024	632	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
463_01	463_01	18/03/2024	598	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
463_02	463_02	18/03/2024	707	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
463_03	463_03	18/03/2024	632	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
463_04	463_04	18/03/2024	693	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	-	1[#16]	1[#10]	-	-	-	-
463_05	463_05	18/03/2024	606	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
463_06	463_06	18/03/2024	720	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
463_07	463_07	18/03/2024	779	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
463_08	463_08	18/03/2024	788	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
463_09	463_09	18/03/2024	660	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
6C_01		22/03/2024	765	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#16]	1[#13]	1[#16]	1[#10]	-	-	-	-
6C_02		22/03/2024	567	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#16]	1[#13]	1[#16]	1[#10]	-	-	-	-
6C_03		22/03/2024	599	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#16]	1[#13]	1[#16]	1[#10]	-	-	-	-
6C_04		22/03/2024	544	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#16]	1[#13]	1[#16]	1[#10]	-	-	-	-
6C_05		22/03/2024	529	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#16]	1[#13]	1[#16]	1[#10]	-	-	-	-
6C_06		22/03/2024	542	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#16]	1[#13]	1[#16]	1[#10]	-	-	-	-
6C_07		22/03/2024	681	-	0	0	0	0	0	0.9432	0.89604	**0.1315770925**	0.89604	1[#16]	1[#16]	1[#12]	1[#14]	1[#13]	1[#16]	1[#5]	-	-	-	-
6C_07A		9/04/2024	471	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
6C_08		22/03/2024	825	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
6C_09		22/03/2024	604	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#16]	1[#13]	1[#16]	1[#10]	-	-	-	-
6C_10		22/03/2024	831	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#16]	1[#13]	1[#16]	1[#10]	-	-	-	-
6C_11		22/03/2024	540	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#16]	1[#13]	1[#16]	1[#10]	-	-	-	-
6C_12		22/03/2024	630	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#16]	1[#13]	1[#16]	1[#10]	-	-	-	-
6C_13		22/03/2024	720	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#16]	1[#13]	1[#16]	1[#10]	-	-	-	-
6C_14		22/03/2024	849	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#16]	1[#13]	1[#16]	1[#10]	-	-	-	-
6C_15		22/03/2024	487	1[#15]	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#16]	1[#13]	1[#16]	1[#10]	-	-	-	-
6C_16		22/03/2024	500	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#16]	1[#13]	1[#16]	1[#10]	-	-	-	-
IE-19A		26/03/2024	491	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
IE-20A		26/03/2024	566	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#16]	1[#13]	1[#16]	1[#10]	-	-	-	-
IX_01		22/03/2024	617	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	0	1[#16]	1[#10]	-	-	-	-
IX_02		22/03/2024	402	1[#15]	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
IX_03		22/03/2024	756	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	0	1[#16]	1[#6]	-	-	-	-
IX_04		22/03/2024	652	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
IX_05		22/03/2024	732	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#16]	1[#13]	1[#16]	1[#10]	-	-	-	-
IX_06		22/03/2024	700	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#16]	1[#13]	1[#16]	1[#10]	-	-	-	-
IX_07		22/03/2024	522	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#16]	1[#13]	1[#16]	1[#10]	-	-	-	-
IX_08		22/03/2024	494	1[#15]	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#16]	1[#13]	1[#16]	1[#10]	-	-	-	-
IX_09		22/03/2024	570	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#16]	1[#13]	1[#16]	1[#10]	-	-	-	-
IX_10		22/03/2024	518	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#16]	1[#13]	1[#16]	1[#10]	-	-	-	-
IX_11		22/03/2024	450	1[#15]	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#16]	1[#13]	1[#16]	1[#10]	-	-	-	-
IX_12		22/03/2024	420	1[#15]	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#16]	1[#13]	1[#16]	1[#10]	-	-	-	-
IX_13		22/03/2024	311	1[#15]	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#16]	1[#13]	1[#16]	1[#10]	-	-	-	-
IX_14		22/03/2024	487	1[#15]	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#16]	1[#13]	1[#16]	1[#10]	-	-	-	-
IX_15		22/03/2024	559	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#16]	1[#13]	1[#16]	1[#10]	-	-	-	-
IX_16		22/03/2024	524	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#16]	1[#13]	1[#16]	1[#10]	-	-	-	-
IX_17		22/03/2024	346	1[#15]	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#16]	1[#13]	1[#16]	1[#10]	-	-	-	-
IX_18		22/03/2024	483	1[#15]	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#16]	1[#13]	1[#16]	1[#10]	-	-	-	-
IX_19		22/03/2024	568	-	0	0	0	0.0188	0.00564	0	0	0.0009929577	0.00564	1[#16]	1[#8]	1[#16]	1[#14]	0	1[#16]	1[#FA:Chrysotile asbestos detected in weathered fibre cement material.Approximate raw weight of FA = 0.019gEstimated asbestos content in FA = 0.0056g*Total estimated asbestos concentration in FA = 0.000,99% w/w*No asbestos detected at the reporting limit of 0.001% w/w.*Organic fibre detected.No trace asbestos detected.]	-	-	-	-
IX_20		22/03/2024	598	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
IX_21		22/03/2024	599	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#16]	1[#13]	1[#16]	1[#10]	-	-	-	-
QA01		21/03/2024	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	<0.1	<0.01	<0.001 - 0[#17]

Table A1 - Soil Asbestos
Project Number: 66105
Project Name: Aldington Road, Kemps Creek

	Asbestos - Eurofins																			Asbestos - Envirolab			
	Approximate Sample Mass	Asbestos Sample Dimensions	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	ACM - Comment	FA- Comment	AF - Comment	Organic Fibres - Comment	Respirable Fibres - Comment	Synthetic Fibres - Comment	Asbestos Reported Result	Asbestos ID in Soil	Total Asbestos	Asbestos (ACM >7mm) Estimation	Asbestos in soil (<2mm AF/FA) (%w/w)
	g	Comment	g	g	% (w/w)	g	g	g	g	% (w/w)	g	Comment	Comment	Comment	Comment	Comment	Comment	Comment	g/kg	g/kg	% (w/w)	% (w/w)
EQL																				0.1	0.01	0.001
NEPC 2013 EIL, Site Specific																						
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil																						
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay																						
0-1m																						
1-2m																						
2-4m																						
>4m																						
NEPM 2013 Table 1B(1-5) Generic EIL - Comm/Ind																						
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil																						
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil																						
NEPM 2013 Table 7 Comm/Ind D Soil HSL for Asbestos in Soil					**0.05[#21]**					**0.001[#22]**											**0.05[#21]**	**0.001[#22]**

Field_ID	Location_Code	Sampled_Date_Time																					
QA02		21/03/2024	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	<0.1	<0.01	<0.001 - 0[#17]
QA03		22/03/2024	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	<0.1	<0.01	<0.001 - 0[#17]
QA04		22/03/2024	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	<0.1	<0.01	<0.001 - 0[#17]
QA240409		9/04/2024	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	<0.1	<0.01	<0.001 - 0[#17]
QA260324		26/03/2024	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	<0.1	<0.01	<0.001 - 0[#17]
QC01		21/03/2024	752	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
QC02		21/03/2024	987	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
QC03		22/03/2024	592	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#16]	1[#13]	1[#16]	1[#10]	-	-	-	-
QC04		22/03/2024	843	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#16]	1[#13]	1[#16]	1[#10]	-	-	-	-
QC240409		9/04/2024	394	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
QC260324		26/03/2024	647	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#16]	1[#13]	1[#16]	1[#10]	-	-	-	-
UF1_01A		9/04/2024	575	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
UF1_02A		9/04/2024	520	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
UF1-01		26/03/2024	726	-	0	0	0	0	0	0.0048	0.00048	0.0000661613	0.00048	1[#16]	1[#16]	1[#9]	1[#14]	1[#16]	1[#16]	1[#AF:Chrysotile asbestos detected in fibre cement fragments.Approximate raw weight of AF = 0.0048g*Estimated asbestos content in AF = 0.00048g*Total estimated asbestos concentration in AF = 0.000066% w/w*No asbestos detected at the reporting limit of 0.001% w/w.*Organic fibre detected.]	-	-	-	-
UF1-02		26/03/2024	520	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
UF2_B01		26/03/2024	544	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
UF2_EW1		26/03/2024	526	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#16]	1[#13]	1[#16]	1[#10]	-	-	-	-
UF2_EW2		26/03/2024	437	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
UF2_EW3		26/03/2024	507	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#16]	1[#13]	1[#16]	1[#10]	-	-	-	-
UF2_WW1		26/03/2024	525	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#16]	1[#13]	1[#16]	1[#10]	-	-	-	-
UF2_WW2		26/03/2024	478	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#16]	1[#13]	1[#16]	1[#10]	-	-	-	-
UF2_WW3		26/03/2024	553	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#16]	1[#13]	1[#16]	1[#10]	-	-	-	-
UF2-EW4		26/03/2024	657	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#14]	1[#13]	1[#16]	1[#10]	-	-	-	-
UF2-EW5		26/03/2024	576	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#16]	1[#13]	1[#16]	1[#10]	-	-	-	-
UF2-WW4		26/03/2024	573	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#16]	1[#13]	1[#16]	1[#10]	-	-	-	-
UF2-WW5		26/03/2024	525	-	0	0	0	0	0	0	0	0	0	1[#16]	1[#16]	1[#16]	1[#16]	1[#13]	1[#16]	1[#10]	-	-	-	-

Env Stds Comments
#21:Commercial/industrial D includes premises such as shops, offices, factories and industrial sites.
#22: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.

Data Comments
#1 AF:Chrysotile asbestos detected in compressed fibre cement material.Approximate raw weight of AF = 0.045g*Estimated asbestos content in AF = 0.0045g*Total estimated asbestos concentration in AF = 0.00070% w/w*No asbestos detected at the reporting limit of 0.001% w/w.*Organic fibre detected.No trace asbestos detected.
#2 FA:Chrysotile asbestos detected in weathered fibre cement material.Approximate raw weight of FA = 0.019gEstimated asbestos content in FA = 0.0056g*Total estimated asbestos concentration in FA = 0.00099% w/w*No asbestos detected at the reporting limit of 0.001% w/w.*Organic fibre detected.No trace asbestos detected.
#3 AF:Chrysotile asbestos detected in fibre cement fragments.Approximate raw weight of AF = 0.0048g*Estimated asbestos content in AF = 0.00048g*Total estimated asbestos concentration in AF = 0.000066% w/w*No asbestos detected at the reporting limit of 0.001% w/w.*Organic fibre detected.
#4 ACM:Chrysotile and amosite asbestos detected in compressed fibre cement material.Approximate raw weight of ACM = 4.3gTotal estimated asbestos content in ACM = 0.86g*Total estimated asbestos concentration in ACM = 0.22% w/w*Organic fibre detected.No trace asbestos detected.
#5 AF:Chrysotile asbestos detected in the form of loose fibre bundles.Approximate raw weight of AF = 0.94g*Estimated asbestos content in AF = 0.90g*Total estimated asbestos concentration in AF = 0.13% w/w*Organic fibre detected.No trace asbestos detected.
#6 No asbestos detected at the reporting limit of 0.001% w/w.*Synthetic mineral fibre detected.Organic fibre detected.No trace asbestos detected.
#7 AF:Chrysotile asbestos detected in compressed fibre cement material.No asbestos detected at the reporting limit of 0.001% w/w.*
#8 FA:Chrysotile asbestos detected in weathered fibre cement material.No asbestos detected at the reporting limit of 0.001% w/w.*
#9 AF:Chrysotile asbestos detected in fibre cement fragments.No asbestos detected at the reporting limit of 0.001% w/w.*
#10 No asbestos detected at the reporting limit of 0.001% w/w.*Organic fibre detected.No trace asbestos detected.
#11 ACM:Chrysotile and amosite asbestos detected in compressed fibre cement material.
#12 AF:Chrysotile asbestos detected in the form of loose fibre bundles.
#13 No trace asbestos detected.
#14 Organic fibres detected.
#15 >500ml
#16 Nil
#17 –

Table A2 - Soil Chemical
Project Number: 66105
Project Name: Aldington Road, Kemps Creek

	Metals & Metalloids								TPHs (NEPC 1999)					TRHs (NEPC 2013)							BTEXN						
	Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc	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/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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	5	5	5	0.1	5	5	20	20	50	50	50	20	50	100	100	100	20	50	0.1	0.1	0.1	0.1	0.2	0.3	0.5
NEPC 2013 EIL, Site Specific																											**170**
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil	**3000**[#1]	**900**	**3600**[#2]	**240000**	**1500**[#3]	**730**[#4]	**6000**	**400000**																			
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay																											
0-1m																			**310**[#7]	**NL**[#8]	**4**[#9]	**NL**[#9]	**NL**[#9]			**NL**[#9]	**NL**[#9]
1-2m																			**480**[#7]	**NL**[#8]	**6**[#9]	**NL**[#9]	**NL**[#9]			**NL**[#9]	**NL**[#9]
2-4m																			**NL**[#7]	**NL**[#8]	**9**[#9]	**NL**[#9]	**NL**[#9]			**NL**[#9]	**NL**[#9]
>4m																			**NL**[#7]	**NL**[#8]	**20**[#9]	**NL**[#9]	**NL**[#9]			**NL**[#9]	**NL**[#9]
NEPM 2013 Table 1B(1-5) Generic EIL - Comm/Ind	**160**[#10]		**310**[#11]	**85**[#12]	**1800**[#13]		**55**[#14]	**110**[#15]																			**370**
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil																**2500**[#16]	**6600**[#16]		**215**[#17]	**170**[#18]	**95**[#16]	**135**[#16]	**185**[#16]			**95**[#16]	
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil														**800**[#20]	**1000**[#20]	**5000**	**10000**										
NEPM 2013 Table 7 Comm/Ind D Soil HSL for Asbestos in Soil																											

Field_ID	Location_Code	Sampled_Date_Time																									
398_01	398_01	18/03/2024	8.8	<0.4	20	32	23	<0.1	17	54	<20	<20	550	300	850	<20	<50	760	280	1040	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
398_02	398_02	18/03/2024	7.1	<0.4	19	43	37	<0.1	24	69	<20	<20	1100	690	1790	<20	<50	1500	580	2080	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
398_03	398_03	18/03/2024	5.7	<0.4	32	37	21	<0.1	38	57	<20	<20	430	330	760	<20	<50	670	290	960	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
398_04	398_04	18/03/2024	8.3	<0.4	17	32	25	<0.1	24	62	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
398_05	398_05	18/03/2024	6.7	<0.4	19	48	190	0.1	54	110	<20	<20	280	330	610	<20	<50	510	370	880	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
398_06	398_06	18/03/2024	17	0.6	33	56	44	<0.1	32	**190**	<20	<20	170	150	320	<20	<50	270	190	460	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
398_07	398_07	18/03/2024	13	<0.4	27	42	25	<0.1	13	58	<20	<20	52	140	192	<20	<50	130	230	360	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
398_08	398_08	18/03/2024	17	<0.4	33	43	30	<0.1	14	64	<20	<20	83	78	161	<20	<50	130	130	260	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5

Env Stds 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:Derived soil HSL exceeds soil saturation concentraiton. To obtain F1 subtract the sum of BTEX concentrations from the C6 - C10 fraction.
#8:Derived soil HSL exceeds soil saturation concentraiton. To obtain F2 subtract naphthalene from the >C10-C16 fraction
#9:Derived soil HSL exceeds soil saturation concentraiton
#10:Aged values apply to arsenic contamination present in soil > 2 years. Refer Schedule B5c for < 2 years.
#11:Trigger Value taken for Chromium (III), Clay Content of 1%
#12:Trigger Value taken for pH 4.5
#13:Aged values apply to lead contamination present in soil > 2 years. Refer Schedule B5c for < 2 years.
#14:Trigger Value taken for CEC 5
#15:Trigger Value taken for pH 4 and CEC 5
#16:ESLs are of low reliability.
#17:Moderate reliability. To obtain F1 subtract the sum of BTEX concentrations from the C6 - C10 fraction.
#18:Moderate reliability. To obtain F2 subtract napthalene from the >C10 - C16 fraction.
#19:ESLs are of low reliability. Revised as per NEPC errata 6 Feb 2014
#20:Separate management limits for BTEX & naphthalene are not available hence should not be subtracted from the relevant fractions to obtain F1 & F2
#21:Commercial/industrial D includes premises such as shops, offices, factories and industrial sites.
#22: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 A2 - Soil Chemical
Project Number: 66105
Project Name: Aldington Road, Kemps Creek

			PAH																	Organochlorine Pesticides
			Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(a)pyrene TEQ (LOR)	Benzo(b+j)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)	Pentachlorophenol
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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			0.5	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	0.5	1
NEPC 2013 EIL, Site Specific																					
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil								**70**[#5]												**4000**[#6]	**660**
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapo																					
0-1m																	**NL**[#9]				
1-2m																	**NL**[#9]				
2-4m																	**NL**[#9]				
>4m																	**NL**[#9]				
NEPM 2013 Table 1B(1-5) Generic EIL - Comm/Ind																	**370**				
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil							**1.4**[#19]														
NEPM 2013 Table 1B(7) Management Limits Comm / Ir																					
NEPM 2013 Table 7 Comm/Ind D Soil HSL for Asbestos																					
Field_ID	**Location_Code**	**Sampled_Date_Time**																			
398_01	398_01	18/03/2024	1.6	<0.5	5.9	15	**15**	25	17	12	17	17	3.8	53	0.8	12	<0.5	23	44	240	<1
398_02	398_02	18/03/2024	8.6	<0.5	29	70	**63**	**100**	59	56	58	71	16	170	5.2	50	0.6	110	150	920	<1
398_03	398_03	18/03/2024	0.7	<0.5	5.8	12	**13**	21	13	14	14	13	2	30	<0.5	14	<0.5	13	25	170	<1
398_04	398_04	18/03/2024	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	<0.5	<0.5	<0.5	<0.5	0.6	1.1	<1
398_05	398_05	18/03/2024	0.5	<0.5	3.5	5.4	**5.1**	7.9	6.2	5.2	4.9	6	<0.5	16	<0.5	5.2	<0.5	8.4	13	79	<1
398_06	398_06	18/03/2024	<0.5	<0.5	1.3	3.5	**3.2**	5.2	3.4	2.7	3.6	3.5	0.6	15	<0.5	2.4	<0.5	6.5	9.7	55	<1
398_07	398_07	18/03/2024	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	0.7	<0.5	<0.5	<0.5	<0.5	0.6	1.3	<1
398_08	398_08	18/03/2024	<0.5	<0.5	<0.5	0.8	0.6	1.4	0.6	0.8	0.8	0.9	<0.5	3.5	<0.5	<0.5	<0.5	1.1	2.4	12	<1

Env Stds 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:Derived soil HSL exceeds soil saturation concentraiton. To obtain F1 subtract the sum of BTEX concentrations from the C6 - C10 fraction.
#8:Derived soil HSL exceeds soil saturation concentraiton. To obtain F2 subtract naphthalene from the >C10-C16 fraction
#9:Derived soil HSL exceeds soil saturation concentraiton
#10:Aged values apply to arsenic contamination present in soil > 2 years. Refer Schedule B5c for < 2 years.
#11:Trigger Value taken for Chromium (III), Clay Content of 1%
#12:Trigger Value taken for pH 4.5
#13:Aged values apply to lead contamination present in soil > 2 years. Refer Schedule B5c for < 2 years.
#14:Trigger Value taken for CEC 5
#15:Trigger Value taken for pH 4 and CEC 5
#16:ESLs are of low reliability.
#17:Moderate reliability. To obtain F1 subtract the sum of BTEX concentrations from the C6 - C10 fraction.
#18:Moderate reliability. To obtain F2 subtract napthalene from the >C10 - C16 fraction.
#19:ESLs are of low reliability. Revised as per NEPC errata 6 Feb 2014
#20:Separate management limits for BTEX & naphthalene are not available hence should not be subtracted from the relevant fractions to obtain F1 & F2
#21:Commercial/industrial D includes premises such as shops, offices, factories and industrial sites.
#22: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 A2 - Soil Chemical
Project Number: 66105
Project Name: Aldington Road, Kemps Creek

	Phenols																				Herbicides & Fungicides	Other
	2,4,5-trichlorophenol	2,4,6-trichlorophenol	2,4-dichlorophenol	2,4-dimethylphenol	2,4-dinitrophenol	2,6-dichlorophenol	2-chlorophenol	2-Methylphenol	2-nitrophenol	3&4-Methylphenol (m&p-cresol)	4,6-Dinitro-2-methylphenol	4,6-Dinitro-o-cyclohexyl phenol	4-Chloro-3-Methylphenol	4-nitrophenol	Cresol Total	Phenol	Tetrachlorophenols	Phenols (Total Halogenated)	Phenols (Total Non Halogenated)	Dinoseb	Moisture Content (dried @ 103°C)
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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	1	1	0.5	0.5	5	0.5	0.5	0.2	1	0.4	5	20	1	5	0.5	0.5	10	1	20	20	1
NEPC 2013 EIL, Site Specific																					
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil															**25000**	**240000**					
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapo																					
0-1m																					
1-2m																					
2-4m																					
>4m																					
NEPM 2013 Table 1B(1-5) Generic EIL - Comm/Ind																					
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil																					
NEPM 2013 Table 1B(7) Management Limits Comm / Ir																					
NEPM 2013 Table 7 Comm/Ind D Soil HSL for Asbestos																					
Field_ID	**Location_Code**	**Sampled_Date_Time**																				
398_01	398_01	18/03/2024	<1	<1	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<1	<1	<5	<20	<1	<5	<1	1.1	<10	<1	<20	<20	12
398_02	398_02	18/03/2024	<1	<1	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<1	<1	<5	<20	<1	<5	<1	1.1	<10	<1	<20	<20	9.6
398_03	398_03	18/03/2024	<1	<1	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<1	<1	<5	<20	<1	<5	<1	1.1	<10	<1	<20	<20	11
398_04	398_04	18/03/2024	<1	<1	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<1	<1	<5	<20	<1	<5	<1	1.4	<10	<1	<20	<20	12
398_05	398_05	18/03/2024	<1	<1	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<1	<1	<5	<20	<1	<5	<1	<0.5	<10	<1	<20	<20	14
398_06	398_06	18/03/2024	<1	<1	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<1	<1	<5	<20	<1	<5	<1	<0.5	<10	<1	<20	<20	14
398_07	398_07	18/03/2024	<1	<1	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<1	<1	<5	<20	<1	<5	<1	<0.5	<10	<1	<20	<20	13
398_08	398_08	18/03/2024	<1	<1	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<1	<1	<5	<20	<1	<5	<1	<0.5	<10	<1	<20	<20	15

Env Stds 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:Derived soil HSL exceeds soil saturation concentraiton. To obtain F1 subtract the sum of BTEX concentrations from the C6 - C10 fraction.
#8:Derived soil HSL exceeds soil saturation concentraiton. To obtain F2 subtract naphthalene from the >C10-C16 fraction
#9:Derived soil HSL exceeds soil saturation concentraiton
#10:Aged values apply to arsenic contamination present in soil > 2 years. Refer Schedule B5c for < 2 years.
#11:Trigger Value taken for Chromium (III), Clay Content of 1%
#12:Trigger Value taken for pH 4.5
#13:Aged values apply to lead contamination present in soil > 2 years. Refer Schedule B5c for < 2 years.
#14:Trigger Value taken for CEC 5
#15:Trigger Value taken for pH 4 and CEC 5
#16:ESLs are of low reliability.
#17:Moderate reliability. To obtain F1 subtract the sum of BTEX concentrations from the C6 - C10 fraction.
#18:Moderate reliability. To obtain F2 subtract napthalene from the >C10 - C16 fraction.
#19:ESLs are of low reliability. Revised as per NEPC errata 6 Feb 2014
#20:Separate management limits for BTEX & naphthalene are not available hence should not be subtracted from the relevant fractions to obtain F1 & F2
#21:Commercial/industrial D includes premises such as shops, offices, factories and industrial sites.
#22: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.

Appendix B Photographic Log

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PHOTO 1: AREA 1A – SURFACE REMEDIATION

PHOTO 2: AREA 1A – SURFACE REMEDIATION INCLUDING SHEDS

PHOTO 3: AREA 1A – SOUTH-WEST SURFACE REMEDIATION

PHOTO 4: AREA 1A – SOUTH-WEST EXTENT

JBS&G

Job No: 66105	
Client: Frasers Property Industrial Pty Ltd	
Version: R02 Rev A	Date: 23/04/2024
Drawn By: SK	Checked By: SM
Not to Scale	
Coord. Sys n/a	

Aldington Road, Kemps Creek, NSW

APPENDIX B

PHOTO 5: AREA 1A – SURFACE REMEDIATION OUTBUILDING

PHOTO 6: AREA 1A – NORTH-EAST EXTENT AND FORMER BUILDING FOOTPRINT

PHOTO 7: AREA 1A – NORTH-WEST EXTENT

PHOTO 8: AREA 1A – WESTERN EXTENT

JBS&G

Job No: 66105	
Client: Frasers Property Industrial Pty Ltd	
Version: R02 Rev A	Date: 23/04/2024
Drawn By: SK	Checked By: SM
Not to Scale	
Coord. Sys n/a	

Aldington Road, Kemps Creek, NSW

APPENDIX B

PHOTO 9: AREA 1B – EASTERN EXTENT

PHOTO 10: AREA 1B – WESTERN EXTENT

PHOTO 11: AREA 1B – GRASS SPREAD OVER SLAB FOR RAKING, PICKING AND TYNING

PHOTO 12: AREA 1C – FORMER ASBESTOS CONTAINING STRUCTURE

JBS&G

Job No: 66105	
Client: Frasers Property Industrial Pty Ltd	
Version: R02 Rev A	Date: 23/04/2024
Drawn By: SK	Checked By: SM
Not to Scale	
Coord. Sys n/a	

Aldington Road, Kemps Creek, NSW

APPENDIX B

PHOTO 13: AREA 1D – FORMER ASBESTOS CONTAINING STRUCTURE

PHOTO 14: AREA 1D – FORMER ASBESTOS CONTAINING STRUCTURE

PHOTO 15: CONCRETE SLAB IN AREA OF FORMER AST

PHOTO 16: ASBESTOS PIPE IN AREA 1A

JBS&G

Job No: 566105	
Client: Frasers Property Industrial Pty Ltd	
Version: R02 Rev A	Date: 23/04/2024
Drawn By: SK	Checked By: SM
Not to Scale	
Coord. Sys n/a	

Aldington Road, Kemps Creek, NSW

APPENDIX B

PHOTO 17: AREA 1E WESTERN EXTENT

PHOTO 18: AREA 1E CENTRAL EXTENT

PHOTO 19: AREA 1E EASTERN EXTENT

PHOTO 20: AREA 1X AND ASBESTOS CONTAINING OUTHOUSE

JBS&G

Job No: 66105	
Client: Frasers Property Industrial Pty Ltd	
Version: R02 Rev A	Date: 23/04/2024
Drawn By: SK	Checked By: SM
Not to Scale	
Coord. Sys n/a	

Aldington Road, Kemps Creek, NSW

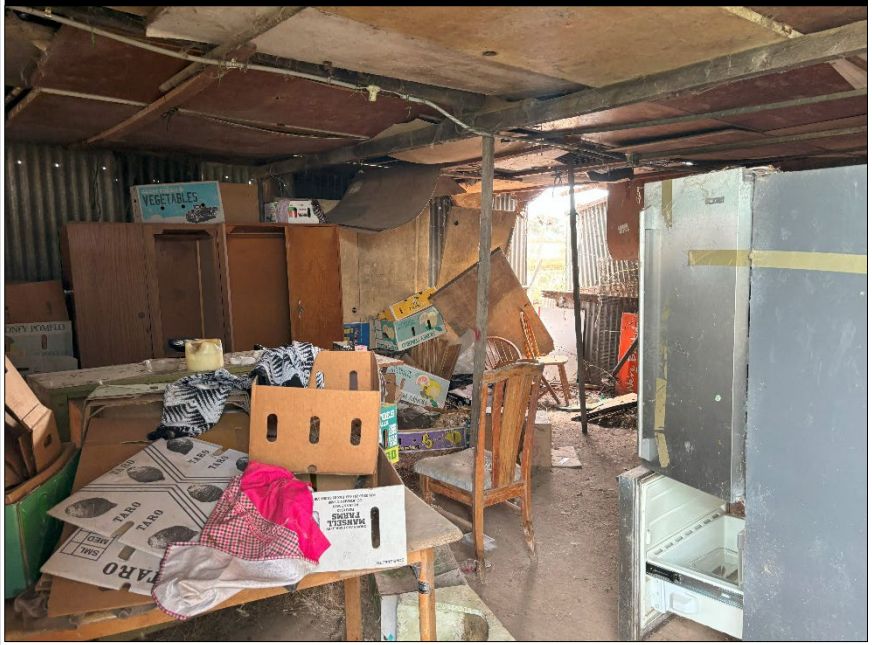
APPENDIX B

PHOTO 21: AREA 1X – COLLAPSED ENTRANCE TO SHED

PHOTO 22: AREA 1X CENTRAL EXTENT

PHOTO 23: AREA 1X INSIDE CENTRAL SHED

PHOTO 24: INSIDE EASTERN SHED AREA 1X



JBS&G

Job No: 66105	
Client: Frasers Property Industrial Pty Ltd	
Version: R02 Rev A	Date: 23/04/2024
Drawn By: SK	Checked By: SM
Not to Scale	
Coord. Sys n/a	

Aldington Road, Kemps Creek, NSW

APPENDIX B

PHOTO 25: UF1 MATERIAL AREA 1B

PHOTO 26: ASBESTOS CONTAINING STRUCTURE AREA 1X

PHOTO 27: FLOOR SURFACE OF LARGE SHED AREA 1X

PHOTO 28: EXCAVATION FOOTPRINT 1X_19

JBS&G

Job No: 66105	
Client: Frasers Property Industrial Pty Ltd	
Version: R02 Rev A	Date: 23/04/2024
Drawn By: SK	Checked By: SM
Not to Scale	
Coord. Sys n/a	

Aldington Road, Kemps Creek, NSW

APPENDIX B

PHOTO 29: AREA 6C

PHOTO 30: SOUTHERN 6C AND 6C_07 EXCAVATION

PHOTO 31: TP398 EXCAVATION

PHOTO 32: TP460 EXCAVATION

JBS&G

Job No: 66105	
Client: Frasers Property Industrial Pty Ltd	
Version: R02 Rev A	Date: 23/04/2024
Drawn By: SK	Checked By: SM
Not to Scale	
Coord. Sys n/a	

Aldington Road, Kemps Creek,, NSW

APPENDIX B

Appendix C Laboratory Chain Documentation

©JBS&G Australia Pty Ltd

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 347244

Client Details

Client	JBS & G (NSW & WA) Pty Ltd
Attention	M Chapman, S Knott
Address	Level 1, 50 Margaret St, Sydney, NSW, 2000

Sample Details

Your Reference	**66105 - Aldington_03**
Number of Samples	2 Soil
Date samples received	22/03/2024
Date completed instructions received	22/03/2024

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	26/03/2024
Date of Issue	25/03/2024

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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		347244-1	347244-2
Your Reference	UNITS	QA01	QA02
Date Sampled		21/03/2024	21/03/2024
Type of sample		Soil	Soil
Date analysed	-	25/03/2024	25/03/2024
Sample mass tested	g	810.19	919.83
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 relative to the sample mass tested) 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.

1 of 1

ENVIRO.

Chain of Custody

JBS&G

PROJECT NO.: 66105	LABORATORY BATCH NO.:
PROJECT NAME: ALDINGTON – 03	SAMPLERS: MASSIMO CAMPANELLA
DATE NEEDED BY: 2DAY TAT.	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) .....@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:
1	QA01	Soil	21/3/24		BAG		X		X	
2	QA02	↓	↓		↓		X		X	

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

Job No: 347249
Date Received: 22/3/24
Time Received: 1620
Received By: KW
Temp: Cool/Ambient
Cooling: Ice/Icepack 20°C
Security: Intact/Broken/None

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: MASSIMO CAMPANELLA DATE: 21/3/24. OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: Katy Wang DATE: 22/3/24 1630 OF: ELS SYD	COOLER SEAL – Yes / No ..... Intact / Broken ..... COOLER TEMP 20 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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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 347529

Client Details

Client	JBS & G (NSW & WA) Pty Ltd
Attention	M Chapman, S Knott
Address	Level 1, 50 Margaret St, Sydney, NSW, 2000

Sample Details

Your Reference	**66105 Aldington_04**
Number of Samples	2 Soil
Date samples received	27/03/2024
Date completed instructions received	27/03/2024

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	28/03/2024
Date of Issue	28/03/2024

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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		347529-1	347529-2
Your Reference	UNITS	QA03	QA04
Date Sampled		22/03/2024	22/03/2024
Type of sample		Soil	Soil
Date analysed	-	28/03/2024	28/03/2024
Sample mass tested	g	769.61	542.15
Sample Description	-	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
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 relative to the sample mass tested) 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.

1 of 1

Chain of Custody

JBS&G

PROJECT NO.: 66105	LABORATORY BATCH NO.:
PROJECT NAME: ADDINGTON_04	SAMPLERS: MASSIMO CHAPMAN
DATE NEEDED BY: [redacted] (24 HRS)	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) mchapman@jbsg.com.au; (3) swatt@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:
1	QA03	SOIL	22/3		BAG		X		X	
2	04	↓	↓		↓		X		X	

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

ENVIROLAB

Job No: 347529

Date Received: 27/3/24
Time Received: 16:45
Received By: ST
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: MASSIMO CHAPMAN DATE: 26/3/24	CONSIGNMENT NOTE NO.	NAME: Shaun Tolo	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 27/3/24	COOLER TEMP 3 ..... 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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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 347732

Client Details

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

Sample Details

Your Reference	**66105 Aldington-283**
Number of Samples	1 Soil
Date samples received	28/03/2024
Date completed instructions received	28/03/2024

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	02/04/2024
Date of Issue	02/04/2024

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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		347732-1
Your Reference	UNITS	QA260324
Date Sampled		26/03/2024
Type of sample		Soil
Date analysed	-	02/04/2024
Sample mass tested	g	554.81
Sample Description	-	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
Trace Analysis	-	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected
ACM >7mm Estimation*	g	–
FA and AF Estimation*	g	–
ACM >7mm Estimation*	%(w/w)	<0.01
FA and AF Estimation*#2	%(w/w)	<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 relative to the sample mass tested) 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.

Chain of Custody

JBS&G

PROJECT NO.: 66105	LABORATORY BATCH NO.:
PROJECT NAME: ALDINGTON – 283	SAMPLERS: SK
DATE NEEDED BY: Overnight TAT	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) ....Sknott.....@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

FAST TAT

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
1	QA260324	Soil	26.3		Asbestos Bag		X		X	

ENVIROLAB

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

Job No: 347732
Date Received: 28/3/24
Time Received: 1520
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: Sam Knott DATE: 28.3.24	CONSIGNMENT NOTE NO.	NAME: DATE: 28/3/24 1520	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

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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

CERTIFICATE OF ANALYSIS 348513

Client Details

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

Sample Details

Your Reference	**66105 Aldington-94**
Number of Samples	1 Soil
Date samples received	10/04/2024
Date completed instructions received	10/04/2024

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	11/04/2024
Date of Issue	11/04/2024

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Asbestos Approved By
Analysed by Asbestos Approved Analyst: Nyovan Moonean
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		348513-1
Your Reference	UNITS	QA240409
Date Sampled		09/04/2024
Type of sample		Soil
Date analysed	-	11/04/2024
Sample mass tested	g	262.21
Sample Description	-	Brown coarse-grained soil,rocks & debris
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected
ACM >7mm Estimation*	g	–
FA and AF Estimation*	g	–
ACM >7mm Estimation*	%(w/w)	<0.01
FA and AF Estimation*#2	%(w/w)	<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 relative to the sample mass tested) 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.

Chain of Custody

JBS&G

PROJECT NO.: 66105	LABORATORY BATCH NO.:
PROJECT NAME: ALDINGTON – 94	SAMPLERS: SK
DATE NEEDED BY: 24 HR TAT	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) ...Sknott.....@jbsg.com.au; (3) ...ckavitmun.....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

Please forward to enviridab (24HR TAT)

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
QA240409	Soil	9.4.24		As Bag				X	

ENVIROLAB

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

Job No: 348513
Date Received: 10/4/24
Time Received: 1510
Received By: JL
Temp: Cool/Ambient
Cooling: Icepack
Security: Intact/Broken/None

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Sam Knott DATE: 9.4.24	CONSIGNMENT NOTE NO.	NAME: Pitham Al Smayel DATE:	COOLER SEAL – Yes..... No..... Intact..... Broken.....
OF: JBS&G	TRANSPORT CO.	OF: 4:46 pm	COOLER TEMP 18.2 deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: Duthyan DATE: 10/4/24	COOLER SEAL – Yes..... No..... Intact..... Broken.....
OF:	TRANSPORT CO	OF: ELS 1810	COOLER TEMP 10 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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1 of 3

Chain of Custody

JBS&G

ANTP.

PROJECT NO.: ALDINGTON_01	LABORATORY BATCH NO.:
PROJECT NAME: 66105	SAMPLERS: MASSIMO CHAPMAN.
DATE NEEDED BY:	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) mchapman@jbsg.com.au; (3) sknott@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

398_01 run for JB1

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	JB2A.	Heavy metal	TPH/BTEX	PAHs	OCP/PUS	Asbestos.	Phenols	JB1	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
398_01	Soil	18/3/24		1xJAR + BAG + ICE.			X	X	X			X	X			
02													X			
03													X			
04													X			
05													X			
06													X			
07													X			
08													X			
398A_01																
02																
03																
398B_01																
02																
03																
463A_01				1xJ+B+I												
02																
03																
463B_01																
02																

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Massimo Chapman DATE: 19.3.24	CONSIGNMENT NOTE NO.	NAME: DATE: 19/3/24 9:40	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	OF:	COOLER TEMP 8.3 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

1079912

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283

Chain of Custody

JBS&G

PROJECT NO.: 66105	LABORATORY BATCH NO.:
PROJECT NAME: ALDINGTON_01	SAMPLERS: MASSIMO CHAPMAN.
DATE NEEDED BY:	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) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	JB24 Asbestos	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
463B_03	SOIL	18/3/24		1 x JAR TBAG + ICE					
460A_01									
02									
03									
460B 01									
02									
03									
463_01				1 x BAG				X	
02								X	
03								X	
04								X	
05								X	
06								X	
07								X	
08								X	
09								X	
460_01								X	
02								X	
03								X	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Massimo C. DATE: 19-3-24	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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2 of 3

Chain of Custody

JBS&G

PROJECT NO.: 66105	LABORATORY BATCH NO.:
PROJECT NAME: ALDINGTON - 01	SAMPLERS: MASSIMO LUPPINO
DATE NEEDED BY:	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) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	J02A	TPH/BTEX	Asbestos	BTEX	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
460 - 04	Soil	18/3/24		1x Brown							X	
05											X	
06											X	
07											X	
08											X	
09											X	
10											X	
11											X	
12											X	
13											X	
14											X	
TS/TB.	WATER			2x VIALS TICE.				X				
QC20240318	Soil	18.3.24		Jar + Bag		X					X	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: M.C. DATE: 19.3.24	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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www.eurofins.com.au EnviroSales@eurofins.com

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+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

Eurofins ARL Pty Ltd

ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
NATA# 2377
Site# 2370

Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

Auckland	Auckland (Asb)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,
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+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Massimo Chapman
Project name:	ALDINGTON_01
Project ID:	66105
Turnaround time:	5 Day
Date/Time received	Mar 19, 2024 4:40 PM
Eurofins reference	1079912

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 : 8.3 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.
✗	Split sample sent to requested external lab.
✗	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Please confirm TAT. Asbestos bag for sample "463A_03" was mislabeled as "468A_03", logged as per coc.

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 Massimo Chapman - mchapman@jbsg.com.au.

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

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ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: ALDINGTON_01
Project ID: 66105

Order No.:
Report #: 1079912
Phone: 02 8245 0300
Fax:

Received: Mar 19, 2024 4:40 PM
Due: Mar 26, 2024
Priority: 5 Day
Contact Name: Massimo Chapman

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	HOLD	BTEX	Moisture Set	JBS&G Suite 1	BTEX
Melbourne Laboratory - NATA # 1261 Site # 1254										X	
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X
External Laboratory											
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**						
1	398_01	Mar 18, 2024		Soil	S24-Ma0047765				X	X	
2	398_02	Mar 18, 2024		Soil	S24-Ma0047766				X	X	
3	398_03	Mar 18, 2024		Soil	S24-Ma0047767				X	X	
4	398_04	Mar 18, 2024		Soil	S24-Ma0047768				X	X	
5	398_05	Mar 18, 2024		Soil	S24-Ma0047769				X	X	
6	398_06	Mar 18, 2024		Soil	S24-Ma0047770				X	X	
7	398_07	Mar 18, 2024		Soil	S24-Ma0047771				X	X	
8	398_08	Mar 18, 2024		Soil	S24-Ma0047772				X	X	
9	463_01	Mar 18, 2024		Soil	S24-Ma0047773	X					
10	463_02	Mar 18, 2024		Soil	S24-Ma0047774	X					
11	463_03	Mar 18, 2024		Soil	S24-Ma0047775	X					
12	463_04	Mar 18, 2024		Soil	S24-Ma0047776	X					

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Project ID: 66105

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Sample Detail						Asbestos - WA guidelines	HOLD	BTEX	Moisture Set	JBS&G Suite 1	BTEX
Melbourne Laboratory - NATA # 1261 Site # 1254										X	
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X
13	463_05	Mar 18, 2024		Soil	S24-Ma0047777	X					
14	463_06	Mar 18, 2024		Soil	S24-Ma0047778	X					
15	463_07	Mar 18, 2024		Soil	S24-Ma0047779	X					
16	463_08	Mar 18, 2024		Soil	S24-Ma0047780	X					
17	463_09	Mar 18, 2024		Soil	S24-Ma0047781	X					
18	460_01	Mar 18, 2024		Soil	S24-Ma0047782	X					
19	460_02	Mar 18, 2024		Soil	S24-Ma0047783	X					
20	460_03	Mar 18, 2024		Soil	S24-Ma0047784	X					
21	460_04	Mar 18, 2024		Soil	S24-Ma0047785	X					
22	460_05	Mar 18, 2024		Soil	S24-Ma0047786	X					
23	460_06	Mar 18, 2024		Soil	S24-Ma0047787	X					
24	460_07	Mar 18, 2024		Soil	S24-Ma0047788	X					
25	460_08	Mar 18, 2024		Soil	S24-Ma0047789	X					
26	460_09	Mar 18, 2024		Soil	S24-Ma0047790	X					
27	460_10	Mar 18, 2024		Soil	S24-Ma0047791	X					

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Melbourne Laboratory - NATA # 1261 Site # 1254										X	
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X
28	460_11	Mar 18, 2024		Soil	S24-Ma0047792	X					
29	460_12	Mar 18, 2024		Soil	S24-Ma0047793	X					
30	460_13	Mar 18, 2024		Soil	S24-Ma0047794	X					
31	460_14	Mar 18, 2024		Soil	S24-Ma0047795	X					
32	TS	Mar 18, 2024		Water	S24-Ma0047796						X
33	TB	Mar 18, 2024		Water	S24-Ma0047797			X			
34	398A_01	Mar 18, 2024		Soil	S24-Ma0047798		X				
35	398A_02	Mar 18, 2024		Soil	S24-Ma0047799		X				
36	398A_03	Mar 18, 2024		Soil	S24-Ma0047800		X				
37	398B_01	Mar 18, 2024		Soil	S24-Ma0047801		X				
38	398B_02	Mar 18, 2024		Soil	S24-Ma0047802		X				
39	398B_03	Mar 18, 2024		Soil	S24-Ma0047803		X				
40	463A_01	Mar 18, 2024		Soil	S24-Ma0047804		X				
41	463A_02	Mar 18, 2024		Soil	S24-Ma0047805		X				
42	463A_03	Mar 18, 2024		Soil	S24-Ma0047806		X				

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

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Project Name: ALDINGTON_01
Project ID: 66105

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Report #: 1079912
Phone: 02 8245 0300
Fax:

Received: Mar 19, 2024 4:40 PM
Due: Mar 26, 2024
Priority: 5 Day
Contact Name: Massimo Chapman

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	HOLD	BTEX	Moisture Set	JBS&G Suite 1	BTEX
Melbourne Laboratory - NATA # 1261 Site # 1254										X	
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X
43	463B_01	Mar 18, 2024		Soil	S24-Ma0047807		X				
44	463B_02	Mar 18, 2024		Soil	S24-Ma0047808		X				
45	463B_03	Mar 18, 2024		Soil	S24-Ma0047809		X				
46	460A_01	Mar 18, 2024		Soil	S24-Ma0047810		X				
47	460A_02	Mar 18, 2024		Soil	S24-Ma0047811		X				
48	460A_03	Mar 18, 2024		Soil	S24-Ma0047812		X				
49	460B_01	Mar 18, 2024		Soil	S24-Ma0047813		X				
50	460B_02	Mar 18, 2024		Soil	S24-Ma0047814		X				
51	460B_03	Mar 18, 2024		Soil	S24-Ma0047815		X				
52	QC20240318	Mar 18, 2024		Soil	S24-Ma0047816		X				
Test Counts						23	19	1	8	8	1

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:	Massimo Chapman
Report	1079912-AID
Project Name	ALDINGTON_01
Project ID	66105
Received Date	Mar 19, 2024
Date Reported	Mar 26, 2024

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 ALDINGTON_01
Project ID 66105
Date Sampled Mar 18, 2024
Report 1079912-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
463_01	24-Ma0047773	Mar 18, 2024	Approximate Sample 598g 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.
463_02	24-Ma0047774	Mar 18, 2024	Approximate Sample 707g 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.
463_03	24-Ma0047775	Mar 18, 2024	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.
463_04	24-Ma0047776	Mar 18, 2024	Approximate Sample 693g 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.
463_05	24-Ma0047777	Mar 18, 2024	Approximate Sample 606g 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.
463_06	24-Ma0047778	Mar 18, 2024	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.
463_07	24-Ma0047779	Mar 18, 2024	Approximate Sample 779g 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.
463_08	24-Ma0047780	Mar 18, 2024	Approximate Sample 788g 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
463_09	24-Ma0047781	Mar 18, 2024	Approximate Sample 660g 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.
460_01	24-Ma0047782	Mar 18, 2024	Approximate Sample 539g 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.
460_02	24-Ma0047783	Mar 18, 2024	Approximate Sample 527g 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.
460_03	24-Ma0047784	Mar 18, 2024	Approximate Sample 559g 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.
460_04	24-Ma0047785	Mar 18, 2024	Approximate Sample 452g 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.
460_05	24-Ma0047786	Mar 18, 2024	Approximate Sample 481g 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.
460_06	24-Ma0047787	Mar 18, 2024	Approximate Sample 598g 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.
460_07	24-Ma0047788	Mar 18, 2024	Approximate Sample 538g 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.
460_08	24-Ma0047789	Mar 18, 2024	Approximate Sample 484g 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.
460_09	24-Ma0047790	Mar 18, 2024	Approximate Sample 547g 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.
460_10	24-Ma0047791	Mar 18, 2024	Approximate Sample 614g 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.
460_11	24-Ma0047792	Mar 18, 2024	Approximate Sample 563g 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.
460_12	24-Ma0047793	Mar 18, 2024	Approximate Sample 445g 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
460_13	24-Ma0047794	Mar 18, 2024	Approximate Sample 703g 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.
460_14	24-Ma0047795	Mar 18, 2024	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.

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, 2024	Indefinite

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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
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
NATA# 2377
Site# 2370

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland	Auckland (Asb)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,
Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
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+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: ALDINGTON_01
Project ID: 66105

Order No.:
Report #: 1079912
Phone: 02 8245 0300
Fax:

Received: Mar 19, 2024 4:40 PM
Due: Mar 26, 2024
Priority: 5 Day
Contact Name: Massimo Chapman

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	HOLD	Phenols (Speciated)	BTEX	Moisture Set	JBS&G Suite 1	BTEX
Melbourne Laboratory - NATA # 1261 Site # 1254											X	
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X
External Laboratory												
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**							
1	398_01	Mar 18, 2024		Soil	S24-Ma0047765			X		X	X	
2	398_02	Mar 18, 2024		Soil	S24-Ma0047766			X		X	X	
3	398_03	Mar 18, 2024		Soil	S24-Ma0047767			X		X	X	
4	398_04	Mar 18, 2024		Soil	S24-Ma0047768			X		X	X	
5	398_05	Mar 18, 2024		Soil	S24-Ma0047769			X		X	X	
6	398_06	Mar 18, 2024		Soil	S24-Ma0047770			X		X	X	
7	398_07	Mar 18, 2024		Soil	S24-Ma0047771			X		X	X	
8	398_08	Mar 18, 2024		Soil	S24-Ma0047772			X		X	X	
9	463_01	Mar 18, 2024		Soil	S24-Ma0047773	X						
10	463_02	Mar 18, 2024		Soil	S24-Ma0047774	X						
11	463_03	Mar 18, 2024		Soil	S24-Ma0047775	X						
12	463_04	Mar 18, 2024		Soil	S24-Ma0047776	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
13	463_05	Mar 18, 2024		Soil	S24-Ma0047777	X						
14	463_06	Mar 18, 2024		Soil	S24-Ma0047778	X						
15	463_07	Mar 18, 2024		Soil	S24-Ma0047779	X						
16	463_08	Mar 18, 2024		Soil	S24-Ma0047780	X						
17	463_09	Mar 18, 2024		Soil	S24-Ma0047781	X						
18	460_01	Mar 18, 2024		Soil	S24-Ma0047782	X						
19	460_02	Mar 18, 2024		Soil	S24-Ma0047783	X						
20	460_03	Mar 18, 2024		Soil	S24-Ma0047784	X						
21	460_04	Mar 18, 2024		Soil	S24-Ma0047785	X						
22	460_05	Mar 18, 2024		Soil	S24-Ma0047786	X						
23	460_06	Mar 18, 2024		Soil	S24-Ma0047787	X						
24	460_07	Mar 18, 2024		Soil	S24-Ma0047788	X						
25	460_08	Mar 18, 2024		Soil	S24-Ma0047789	X						
26	460_09	Mar 18, 2024		Soil	S24-Ma0047790	X						
27	460_10	Mar 18, 2024		Soil	S24-Ma0047791	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
28	460_11	Mar 18, 2024		Soil	S24-Ma0047792	X						
29	460_12	Mar 18, 2024		Soil	S24-Ma0047793	X						
30	460_13	Mar 18, 2024		Soil	S24-Ma0047794	X						
31	460_14	Mar 18, 2024		Soil	S24-Ma0047795	X						
32	TS	Mar 18, 2024		Water	S24-Ma0047796							X
33	TB	Mar 18, 2024		Water	S24-Ma0047797				X			
34	398A_01	Mar 18, 2024		Soil	S24-Ma0047798		X					
35	398A_02	Mar 18, 2024		Soil	S24-Ma0047799		X					
36	398A_03	Mar 18, 2024		Soil	S24-Ma0047800		X					
37	398B_01	Mar 18, 2024		Soil	S24-Ma0047801		X					
38	398B_02	Mar 18, 2024		Soil	S24-Ma0047802		X					
39	398B_03	Mar 18, 2024		Soil	S24-Ma0047803		X					
40	463A_01	Mar 18, 2024		Soil	S24-Ma0047804		X					
41	463A_02	Mar 18, 2024		Soil	S24-Ma0047805		X					
42	463A_03	Mar 18, 2024		Soil	S24-Ma0047806		X					

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web: www.eurofins.com.au
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Received: Mar 19, 2024 4:40 PM
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Contact Name: Massimo Chapman

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	HOLD	Phenols (Speciated)	BTEX	Moisture Set	JBS&G Suite 1	BTEX
Melbourne Laboratory - NATA # 1261 Site # 1254											X	
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X
43	463B_01	Mar 18, 2024		Soil	S24-Ma0047807		X					
44	463B_02	Mar 18, 2024		Soil	S24-Ma0047808		X					
45	463B_03	Mar 18, 2024		Soil	S24-Ma0047809		X					
46	460A_01	Mar 18, 2024		Soil	S24-Ma0047810		X					
47	460A_02	Mar 18, 2024		Soil	S24-Ma0047811		X					
48	460A_03	Mar 18, 2024		Soil	S24-Ma0047812		X					
49	460B_01	Mar 18, 2024		Soil	S24-Ma0047813		X					
50	460B_02	Mar 18, 2024		Soil	S24-Ma0047814		X					
51	460B_03	Mar 18, 2024		Soil	S24-Ma0047815		X					
52	QC20240318	Mar 18, 2024		Soil	S24-Ma0047816		X					
Test Counts						23	19	8	1	8	8	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**). This estimate is not NATA-accredited.
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

24-Ma0047785, 24-Ma0047786, 24-Ma0047789, 24-Ma0047793: 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	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:

Chamath JHM Annakkage	Senior Analyst-Asbestos

Authorised by:

Laxman Dias	Senior Analyst-Asbestos

Glenn Jackson
Managing Director

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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JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

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: **Massimo Chapman**

Report **1079912-S**
Project name ALDINGTON_01
Project ID 66105
Received Date Mar 19, 2024

Client Sample ID			**398_01**	**398_02**	**398_03**	**398_04**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**S24-Ma0047765**	**S24-Ma0047766**	**S24-Ma0047767**	**S24-Ma0047768**
Date Sampled			**Mar 18, 2024**	**Mar 18, 2024**	**Mar 18, 2024**	**Mar 18, 2024**
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	550	1100	430	< 50
TRH C29-C36	50	mg/kg	300	690	330	< 50
TRH C10-C36 (Total)	50	mg/kg	850	1790	760	< 50
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	760	1500	670	< 100
TRH >C34-C40	100	mg/kg	280	580	290	< 100
TRH >C10-C40 (total)*	100	mg/kg	1040	2080	960	< 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	%	94	64	94	77
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	25	100	21	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	25	100	21	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	25	100	21	1.2
Acenaphthene	0.5	mg/kg	1.6	8.6	0.7	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	5.9	29	5.8	< 0.5
Benz(a)anthracene	0.5	mg/kg	15	70	12	< 0.5
Benzo(a)pyrene	0.5	mg/kg	15	63	13	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	17	59	13	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	12	56	14	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	17	58	14	< 0.5
Chrysene	0.5	mg/kg	17	71	13	< 0.5

Client Sample ID			398_01	398_02	398_03	398_04
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S24-Ma0047765	S24-Ma0047766	S24-Ma0047767	S24-Ma0047768
Date Sampled			Mar 18, 2024	Mar 18, 2024	Mar 18, 2024	Mar 18, 2024
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Dibenz(a.h)anthracene	0.5	mg/kg	3.8	16	2.0	< 0.5
Fluoranthene	0.5	mg/kg	53	170	30	0.5
Fluorene	0.5	mg/kg	0.8	5.2	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	12	50	14	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	0.6	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	23	110	13	< 0.5
Pyrene	0.5	mg/kg	44	150	25	0.6
Total PAH*	0.5	mg/kg	240	920	170	1.1
2-Fluorobiphenyl (surr.)	1	%	111	99	72	65
p-Terphenyl-d14 (surr.)	1	%	98	72	80	75
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4.5-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
2.4.6-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
2.6-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Chloro-3-methylphenol	1	mg/kg	< 1	< 1	< 1	< 1
Pentachlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
Tetrachlorophenols - Total	10	mg/kg	< 10	< 10	< 10	< 10
Total Halogenated Phenol*	1	mg/kg	< 1	< 1	< 1	< 1
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	< 20	< 20	< 20	< 20
2-Methyl-4.6-dinitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
2-Nitrophenol	1	mg/kg	< 1	< 1	< 1	< 1
2.4-Dimethylphenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4-Dinitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 1	< 1	< 1	< 1
Total cresols*	0.5	mg/kg	< 1	< 1	< 1	< 1
4-Nitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
Dinoseb	20	mg/kg	< 20	< 20	< 20	< 20
Phenol	0.5	mg/kg	1.1	1.1	1.1	1.4
Phenol-d6 (surr.)	1	%	103	102	86	78
Total Non-Halogenated Phenol*	20	mg/kg	< 20	< 20	< 20	< 20
Heavy Metals						
Arsenic	2	mg/kg	8.8	7.1	5.7	8.3
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	20	19	32	17
Copper	5	mg/kg	32	43	37	32
Lead	5	mg/kg	23	37	21	25
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	17	24	38	24
Zinc	5	mg/kg	54	69	57	62
Sample Properties						
% Moisture	1	%	12	9.6	11	12

Client Sample ID			398_05	398_06	398_07	398_08
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S24-Ma0047769	S24-Ma0047770	S24-Ma0047771	S24-Ma0047772
Date Sampled			Mar 18, 2024	Mar 18, 2024	Mar 18, 2024	Mar 18, 2024
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	280	170	52	83
TRH C29-C36	50	mg/kg	330	150	140	78
TRH C10-C36 (Total)	50	mg/kg	610	320	192	161
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	510	270	130	130
TRH >C34-C40	100	mg/kg	370	190	230	130
TRH >C10-C40 (total)*	100	mg/kg	880	460	360	260
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	%	117	101	68	92
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	7.4	5.2	< 0.5	0.8
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	7.6	5.2	0.6	1.1
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	7.9	5.2	1.2	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	3.5	1.3	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	5.4	3.5	< 0.5	0.8
Benzo(a)pyrene	0.5	mg/kg	5.1	3.2	< 0.5	0.6
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	6.2	3.4	< 0.5	0.6
Benzo(g.h.i)perylene	0.5	mg/kg	5.2	2.7	< 0.5	0.8
Benzo(k)fluoranthene	0.5	mg/kg	4.9	3.6	< 0.5	0.8
Chrysene	0.5	mg/kg	6.0	3.5	< 0.5	0.9
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	0.6	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	16	15	0.7	3.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	5.2	2.4	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	8.4	6.5	< 0.5	1.1
Pyrene	0.5	mg/kg	13	9.7	0.6	2.4
Total PAH*	0.5	mg/kg	79	55	1.3	12
2-Fluorobiphenyl (surr.)	1	%	73	86	88	86
p-Terphenyl-d14 (surr.)	1	%	77	83	85	84

Client Sample ID			398_05	398_06	398_07	398_08
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S24-Ma0047769	S24-Ma0047770	S24-Ma0047771	S24-Ma0047772
Date Sampled			Mar 18, 2024	Mar 18, 2024	Mar 18, 2024	Mar 18, 2024
Test/Reference	LOR	Unit				
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4.5-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
2.4.6-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
2.6-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
4-Chloro-3-methylphenol	1	mg/kg	< 1	< 1	< 1	< 1
Pentachlorophenol	1	mg/kg	< 1	< 1	< 1	< 1
Tetrachlorophenols - Total	10	mg/kg	< 10	< 10	< 10	< 10
Total Halogenated Phenol*	1	mg/kg	< 1	< 1	< 1	< 1
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	< 20	< 20	< 20	< 20
2-Methyl-4.6-dinitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
2-Nitrophenol	1	mg/kg	< 1	< 1	< 1	< 1
2.4-Dimethylphenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2.4-Dinitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 1	< 1	< 1	< 1
Total cresols*	0.5	mg/kg	< 1	< 1	< 1	< 1
4-Nitrophenol	5	mg/kg	< 5	< 5	< 5	< 5
Dinoseb	20	mg/kg	< 20	< 20	< 20	< 20
Phenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenol-d6 (surr.)	1	%	85	103	120	96
Total Non-Halogenated Phenol*	20	mg/kg	< 20	< 20	< 20	< 20
Heavy Metals						
Arsenic	2	mg/kg	6.7	17	13	17
Cadmium	0.4	mg/kg	< 0.4	0.6	< 0.4	< 0.4
Chromium	5	mg/kg	19	33	27	33
Copper	5	mg/kg	48	56	42	43
Lead	5	mg/kg	190	44	25	30
Mercury	0.1	mg/kg	0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	54	32	13	14
Zinc	5	mg/kg	110	190	58	64
Sample Properties						
% Moisture	1	%	14	14	13	15

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	Mar 23, 2024	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Mar 23, 2024	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Mar 23, 2024	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Mar 23, 2024	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			
Polycyclic Aromatic Hydrocarbons	Sydney	Mar 21, 2024	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Metals M8	Sydney	Mar 23, 2024	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Phenols (Halogenated)	Sydney	Mar 26, 2024	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Phenols (non-Halogenated)	Sydney	Mar 26, 2024	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
% Moisture	Sydney	Mar 22, 2024	14 Days
- Method: LTM-GEN-7080 Moisture			

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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
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
NATA# 2377
Site# 2370

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland	Auckland (Asb)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,
Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: ALDINGTON_01
Project ID: 66105

Order No.:
Report #: 1079912
Phone: 02 8245 0300
Fax:

Received: Mar 19, 2024 4:40 PM
Due: Mar 26, 2024
Priority: 5 Day
Contact Name: Massimo Chapman

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	HOLD	BTEX	Moisture Set	JBS&G Suite 1	BTEX
Melbourne Laboratory - NATA # 1261 Site # 1254										X	
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X
External Laboratory											
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**						
1	398_01	Mar 18, 2024		Soil	S24-Ma0047765				X	X	
2	398_02	Mar 18, 2024		Soil	S24-Ma0047766				X	X	
3	398_03	Mar 18, 2024		Soil	S24-Ma0047767				X	X	
4	398_04	Mar 18, 2024		Soil	S24-Ma0047768				X	X	
5	398_05	Mar 18, 2024		Soil	S24-Ma0047769				X	X	
6	398_06	Mar 18, 2024		Soil	S24-Ma0047770				X	X	
7	398_07	Mar 18, 2024		Soil	S24-Ma0047771				X	X	
8	398_08	Mar 18, 2024		Soil	S24-Ma0047772				X	X	
9	463_01	Mar 18, 2024		Soil	S24-Ma0047773	X					
10	463_02	Mar 18, 2024		Soil	S24-Ma0047774	X					
11	463_03	Mar 18, 2024		Soil	S24-Ma0047775	X					
12	463_04	Mar 18, 2024		Soil	S24-Ma0047776	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	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
NATA# 2377
Site# 2370

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland	Auckland (Asb)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,
Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: ALDINGTON_01
Project ID: 66105

Order No.:
Report #: 1079912
Phone: 02 8245 0300
Fax:

Received: Mar 19, 2024 4:40 PM
Due: Mar 26, 2024
Priority: 5 Day
Contact Name: Massimo Chapman

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	HOLD	BTEX	Moisture Set	JBS&G Suite 1	BTEX
Melbourne Laboratory - NATA # 1261 Site # 1254										X	
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X
13	463_05	Mar 18, 2024		Soil	S24-Ma0047777	X					
14	463_06	Mar 18, 2024		Soil	S24-Ma0047778	X					
15	463_07	Mar 18, 2024		Soil	S24-Ma0047779	X					
16	463_08	Mar 18, 2024		Soil	S24-Ma0047780	X					
17	463_09	Mar 18, 2024		Soil	S24-Ma0047781	X					
18	460_01	Mar 18, 2024		Soil	S24-Ma0047782	X					
19	460_02	Mar 18, 2024		Soil	S24-Ma0047783	X					
20	460_03	Mar 18, 2024		Soil	S24-Ma0047784	X					
21	460_04	Mar 18, 2024		Soil	S24-Ma0047785	X					
22	460_05	Mar 18, 2024		Soil	S24-Ma0047786	X					
23	460_06	Mar 18, 2024		Soil	S24-Ma0047787	X					
24	460_07	Mar 18, 2024		Soil	S24-Ma0047788	X					
25	460_08	Mar 18, 2024		Soil	S24-Ma0047789	X					
26	460_09	Mar 18, 2024		Soil	S24-Ma0047790	X					
27	460_10	Mar 18, 2024		Soil	S24-Ma0047791	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	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
NATA# 2377
Site# 2370

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland	Auckland (Asb)	Christchurch	Tauranga
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Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: ALDINGTON_01
Project ID: 66105

Order No.:
Report #: 1079912
Phone: 02 8245 0300
Fax:

Received: Mar 19, 2024 4:40 PM
Due: Mar 26, 2024
Priority: 5 Day
Contact Name: Massimo Chapman

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	HOLD	BTEX	Moisture Set	JBS&G Suite 1	BTEX
Melbourne Laboratory - NATA # 1261 Site # 1254										X	
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X
28	460_11	Mar 18, 2024		Soil	S24-Ma0047792	X					
29	460_12	Mar 18, 2024		Soil	S24-Ma0047793	X					
30	460_13	Mar 18, 2024		Soil	S24-Ma0047794	X					
31	460_14	Mar 18, 2024		Soil	S24-Ma0047795	X					
32	TS	Mar 18, 2024		Water	S24-Ma0047796						X
33	TB	Mar 18, 2024		Water	S24-Ma0047797			X			
34	398A_01	Mar 18, 2024		Soil	S24-Ma0047798		X				
35	398A_02	Mar 18, 2024		Soil	S24-Ma0047799		X				
36	398A_03	Mar 18, 2024		Soil	S24-Ma0047800		X				
37	398B_01	Mar 18, 2024		Soil	S24-Ma0047801		X				
38	398B_02	Mar 18, 2024		Soil	S24-Ma0047802		X				
39	398B_03	Mar 18, 2024		Soil	S24-Ma0047803		X				
40	463A_01	Mar 18, 2024		Soil	S24-Ma0047804		X				
41	463A_02	Mar 18, 2024		Soil	S24-Ma0047805		X				
42	463A_03	Mar 18, 2024		Soil	S24-Ma0047806		X				

eurofins

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
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
NATA# 2377
Site# 2370

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland	Auckland (Asb)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,
Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: ALDINGTON_01
Project ID: 66105

Order No.:
Report #: 1079912
Phone: 02 8245 0300
Fax:

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Priority: 5 Day
Contact Name: Massimo Chapman

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	HOLD	BTEX	Moisture Set	JBS&G Suite 1	BTEX
Melbourne Laboratory - NATA # 1261 Site # 1254										X	
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X
43	463B_01	Mar 18, 2024		Soil	S24-Ma0047807		X				
44	463B_02	Mar 18, 2024		Soil	S24-Ma0047808		X				
45	463B_03	Mar 18, 2024		Soil	S24-Ma0047809		X				
46	460A_01	Mar 18, 2024		Soil	S24-Ma0047810		X				
47	460A_02	Mar 18, 2024		Soil	S24-Ma0047811		X				
48	460A_03	Mar 18, 2024		Soil	S24-Ma0047812		X				
49	460B_01	Mar 18, 2024		Soil	S24-Ma0047813		X				
50	460B_02	Mar 18, 2024		Soil	S24-Ma0047814		X				
51	460B_03	Mar 18, 2024		Soil	S24-Ma0047815		X				
52	QC20240318	Mar 18, 2024		Soil	S24-Ma0047816		X				
Test Counts						23	19	1	8	8	1

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follow guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013. They are included in this QC report where applicable. Additional QC data may be available on request.
2. Unless otherwise stated, all soil/sediment/solid results are reported on a dry weight basis.
3. Unless otherwise stated, all biota/food results are reported on a wet weight basis on the edible portion.
4. For CEC results where the sample's origin is unknown or environmentally contaminated, the results should be used advisedly.
5. Actual LORs are matrix dependent. Quoted LORs may be raised where sample extracts are diluted due to interferences.
6. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds where annotated.
7. SVOC analysis on waters is performed on homogenised, unfiltered samples unless noted otherwise.
8. Samples were analysed on an 'as received' basis.
9. Information identified in this report with **blue** colour indicates data provided by customers that may have an impact on the results.
10. This report replaces any interim results previously issued.

Holding Times

Please refer to the '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 before sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and despite any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the sampling date; therefore, compliance with these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether, the holding time is seven days; however, for all other VOCs, such as BTEX or C6-10 TRH, the holding time is 14 days.

Units

mg/kg: milligrams per kilogram	**mg/L:** milligrams per litre	**ppm:** parts per million
µg/L: micrograms per litre	**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
CFU: Colony Forming Unit	**Colour:** Pt-Co Units (CU)	

Terms

APHA	American Public Health Association
CEC	Cation Exchange Capacity
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 moisture has been determined on a solid sample, the result is expressed on a dry weight 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 represents 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 similar compound to the analyte target is reported as percentage recovery. See below for acceptance criteria.
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 6.0
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 only be used as a guide 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. SVOCs recoveries 20 – 150%, VOC recoveries 50 – 150%

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 6.0, where no positive PFAS results have been reported or reviewed, and no data was affected.

QC Data General Comments

1. Where a result is reported as 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 are 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	
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							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	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							
Phenols (Halogenated)							
2-Chlorophenol	mg/kg	< 0.5			0.5	Pass	
2.4-Dichlorophenol	mg/kg	< 0.5			0.5	Pass	
2.4.5-Trichlorophenol	mg/kg	< 1			1	Pass	
2.4.6-Trichlorophenol	mg/kg	< 1			1	Pass	
2.6-Dichlorophenol	mg/kg	< 0.5			0.5	Pass	
4-Chloro-3-methylphenol	mg/kg	< 1			1	Pass	
Pentachlorophenol	mg/kg	< 1			1	Pass	
Tetrachlorophenols - Total	mg/kg	< 10			10	Pass	
Method Blank							
Phenols (non-Halogenated)							
2-Cyclohexyl-4.6-dinitrophenol	mg/kg	< 20			20	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
2-Methyl-4.6-dinitrophenol	mg/kg	< 5			5	Pass	
2-Nitrophenol	mg/kg	< 1			1	Pass	
2.4-Dimethylphenol	mg/kg	< 0.5			0.5	Pass	
2.4-Dinitrophenol	mg/kg	< 5			5	Pass	
2-Methylphenol (o-Cresol)	mg/kg	< 0.2			0.2	Pass	
3&4-Methylphenol (m&p-Cresol)	mg/kg	< 0.4			0.4	Pass	
4-Nitrophenol	mg/kg	< 5			5	Pass	
Dinoseb	mg/kg	< 20			20	Pass	
Phenol	mg/kg	< 0.5			0.5	Pass	
Total Non-Halogenated Phenol*	mg/kg	-			20	N/A	
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	%	102			70-130	Pass	
TRH C10-C14	%	80			70-130	Pass	
TRH C6-C10	%	97			70-130	Pass	
TRH >C10-C16	%	80			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	99			70-130	Pass	
Toluene	%	93			70-130	Pass	
Ethylbenzene	%	102			70-130	Pass	
m&p-Xylenes	%	103			70-130	Pass	
o-Xylene	%	104			70-130	Pass	
Xylenes - Total*	%	103			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	104			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	101			70-130	Pass	
Acenaphthylene	%	104			70-130	Pass	
Anthracene	%	103			70-130	Pass	
Benz(a)anthracene	%	104			70-130	Pass	
Benzo(a)pyrene	%	108			70-130	Pass	
Benzo(b&j)fluoranthene	%	100			70-130	Pass	
Benzo(g.h.i)perylene	%	93			70-130	Pass	
Benzo(k)fluoranthene	%	121			70-130	Pass	
Chrysene	%	103			70-130	Pass	
Dibenz(a.h)anthracene	%	107			70-130	Pass	
Fluoranthene	%	121			70-130	Pass	
Fluorene	%	110			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	103			70-130	Pass	
Naphthalene	%	103			70-130	Pass	
Phenanthrene	%	104			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Pyrene	%	121			70-130	Pass	
LCS - % Recovery							
Phenols (Halogenated)							
2-Chlorophenol	%	91			25-140	Pass	
2.4-Dichlorophenol	%	87			25-140	Pass	
2.4.5-Trichlorophenol	%	84			25-140	Pass	
2.4.6-Trichlorophenol	%	90			25-140	Pass	
2.6-Dichlorophenol	%	87			25-140	Pass	
4-Chloro-3-methylphenol	%	85			25-140	Pass	
Pentachlorophenol	%	71			25-140	Pass	
Tetrachlorophenols - Total	%	76			25-140	Pass	
LCS - % Recovery							
Phenols (non-Halogenated)							
2-Cyclohexyl-4.6-dinitrophenol	%	80			25-140	Pass	
2-Methyl-4.6-dinitrophenol	%	79			25-140	Pass	
2-Nitrophenol	%	83			25-140	Pass	
2.4-Dimethylphenol	%	88			25-140	Pass	
2.4-Dinitrophenol	%	74			25-140	Pass	
2-Methylphenol (o-Cresol)	%	91			25-140	Pass	
3&4-Methylphenol (m&p-Cresol)	%	89			25-140	Pass	
4-Nitrophenol	%	97			25-140	Pass	
Dinoseb	%	78			25-140	Pass	
Phenol	%	89			25-140	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	105			80-120	Pass	
Cadmium	%	105			80-120	Pass	
Chromium	%	106			80-120	Pass	
Copper	%	108			80-120	Pass	
Lead	%	107			80-120	Pass	
Mercury	%	106			80-120	Pass	
Nickel	%	107			80-120	Pass	
Zinc	%	104			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 C10-C14	S24-Ma0056500	NCP	%	93			70-130	Pass	
TRH >C10-C16	S24-Ma0056500	NCP	%	90			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S24-Ma0041209	NCP	%	82			70-130	Pass	
Toluene	S24-Ma0041209	NCP	%	86			70-130	Pass	
Ethylbenzene	S24-Ma0041209	NCP	%	95			70-130	Pass	
m&p-Xylenes	S24-Ma0041209	NCP	%	108			70-130	Pass	
o-Xylene	S24-Ma0041209	NCP	%	110			70-130	Pass	
Xylenes - Total*	S24-Ma0041209	NCP	%	109			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S24-Ma0041209	NCP	%	85			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S24-Ma0055934	NCP	%	103			70-130	Pass	
Acenaphthylene	S24-Ma0055934	NCP	%	114			70-130	Pass	
Anthracene	S24-Ma0055934	NCP	%	114			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Benz(a)anthracene	S24-Ma0055934	NCP	%	97			70-130	Pass	
Benzo(a)pyrene	S24-Ma0055934	NCP	%	104			70-130	Pass	
Benzo(b&j)fluoranthene	S24-Ma0055934	NCP	%	106			70-130	Pass	
Benzo(g.h.i)perylene	S24-Ma0055934	NCP	%	97			70-130	Pass	
Benzo(k)fluoranthene	S24-Ma0055934	NCP	%	109			70-130	Pass	
Chrysene	S24-Ma0055934	NCP	%	109			70-130	Pass	
Dibenz(a.h)anthracene	S24-Ma0055934	NCP	%	98			70-130	Pass	
Fluoranthene	S24-Ma0055934	NCP	%	98			70-130	Pass	
Fluorene	S24-Ma0055934	NCP	%	100			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S24-Ma0055934	NCP	%	96			70-130	Pass	
Naphthalene	S24-Ma0055934	NCP	%	117			70-130	Pass	
Phenanthrene	S24-Ma0055934	NCP	%	95			70-130	Pass	
Pyrene	S24-Ma0055934	NCP	%	101			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S24-Ma0056017	NCP	%	102			75-125	Pass	
Cadmium	S24-Ma0056017	NCP	%	107			75-125	Pass	
Chromium	S24-Ma0056017	NCP	%	93			75-125	Pass	
Copper	S24-Ma0058491	NCP	%	93			75-125	Pass	
Lead	S24-Ma0056017	NCP	%	95			75-125	Pass	
Mercury	S24-Ma0056017	NCP	%	98			75-125	Pass	
Nickel	S24-Ma0056017	NCP	%	104			75-125	Pass	
Zinc	S24-Ma0056017	NCP	%	91			75-125	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	S24-Ma0056511	NCP	%	77			70-130	Pass	
TRH C6-C10	S24-Ma0056511	NCP	%	73			70-130	Pass	
Spike - % Recovery									
Phenols (Halogenated)				Result 1					
2-Chlorophenol	S24-Ma0055934	NCP	%	100			30-130	Pass	
2.4-Dichlorophenol	S24-Ma0055934	NCP	%	78			30-130	Pass	
2.4.6-Trichlorophenol	S24-Ma0055934	NCP	%	79			30-130	Pass	
2.6-Dichlorophenol	S24-Ma0055934	NCP	%	81			30-130	Pass	
4-Chloro-3-methylphenol	S24-Ma0055934	NCP	%	73			30-130	Pass	
Pentachlorophenol	S24-Ma0055934	NCP	%	84			30-130	Pass	
Tetrachlorophenols - Total	S24-Ma0055934	NCP	%	90			30-130	Pass	
Spike - % Recovery									
Phenols (non-Halogenated)				Result 1					
2-Cyclohexyl-4.6-dinitrophenol	S24-Ma0055934	NCP	%	120			30-130	Pass	
2-Methyl-4.6-dinitrophenol	S24-Ma0055934	NCP	%	109			30-130	Pass	
2-Nitrophenol	S24-Ma0055934	NCP	%	84			30-130	Pass	
2.4-Dimethylphenol	S24-Ma0055934	NCP	%	78			30-130	Pass	
2-Methylphenol (o-Cresol)	S24-Ma0055934	NCP	%	74			30-130	Pass	
3&4-Methylphenol (m&p-Cresol)	S24-Ma0055934	NCP	%	84			30-130	Pass	
4-Nitrophenol	S24-Ma0055934	NCP	%	75			30-130	Pass	
Dinoseb	S24-Ma0055934	NCP	%	105			30-130	Pass	
Phenol	S24-Ma0055934	NCP	%	103			30-130	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	S24-Ma0060671	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S24-Ma0050426	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S24-Ma0050426	NCP	mg/kg	< 50	54	13	30%	Pass	
TRH C29-C36	S24-Ma0050426	NCP	mg/kg	140	150	7.4	30%	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-C10	S24-Ma0060671	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S24-Ma0050426	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S24-Ma0050426	NCP	mg/kg	130	140	8.7	30%	Pass	
TRH >C34-C40	S24-Ma0050426	NCP	mg/kg	220	250	9.5	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S24-Ma0055379	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S24-Ma0055379	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S24-Ma0055379	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S24-Ma0055379	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S24-Ma0055379	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S24-Ma0055379	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S24-Ma0055379	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	N24-Ma0043412	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	N24-Ma0043412	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	N24-Ma0043412	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	N24-Ma0043412	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	N24-Ma0043412	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	N24-Ma0043412	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	N24-Ma0043412	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	N24-Ma0043412	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	N24-Ma0043412	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	N24-Ma0043412	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	N24-Ma0043412	NCP	mg/kg	0.8	0.9	13	30%	Pass	
Fluorene	N24-Ma0043412	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	N24-Ma0043412	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	N24-Ma0043412	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	N24-Ma0043412	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	N24-Ma0043412	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S24-Ma0056015	NCP	mg/kg	13	15	18	30%	Pass	
Cadmium	S24-Ma0056015	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S24-Ma0056015	NCP	mg/kg	35	42	19	30%	Pass	
Copper	S24-Ma0056015	NCP	mg/kg	29	25	13	30%	Pass	
Lead	S24-Ma0056015	NCP	mg/kg	42	49	15	30%	Pass	
Mercury	S24-Ma0056015	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S24-Ma0056015	NCP	mg/kg	14	12	19	30%	Pass	
Zinc	S24-Ma0056015	NCP	mg/kg	37	36	3.6	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	N24-Ma0035827	NCP	%	9.8	10	5.7	30%	Pass	
Duplicate									
Phenols (Halogenated)				Result 1	Result 2	RPD			
2-Chlorophenol	S24-Ma0053211	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4-Dichlorophenol	S24-Ma0053211	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4.5-Trichlorophenol	S24-Ma0053211	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
2.4.6-Trichlorophenol	S24-Ma0053211	NCP	mg/kg	< 1	< 1	<1	30%	Pass	

Duplicate									
Phenols (Halogenated)				Result 1	Result 2	RPD			
2.6-Dichlorophenol	S24-Ma0053211	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chloro-3-methylphenol	S24-Ma0053211	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
Pentachlorophenol	S24-Ma0053211	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
Tetrachlorophenols - Total	S24-Ma0053211	NCP	mg/kg	< 10	< 10	<1	30%	Pass	
Duplicate									
Phenols (non-Halogenated)				Result 1	Result 2	RPD			
2-Cyclohexyl-4.6-dinitrophenol	S24-Ma0053211	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
2-Methyl-4.6-dinitrophenol	S24-Ma0053211	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
2-Nitrophenol	S24-Ma0053211	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
2.4-Dimethylphenol	S24-Ma0053211	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4-Dinitrophenol	S24-Ma0053211	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
2-Methylphenol (o-Cresol)	S24-Ma0053211	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
3&4-Methylphenol (m&p-Cresol)	S24-Ma0053211	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
4-Nitrophenol	S24-Ma0053211	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
Dinoseb	S24-Ma0053211	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
Phenol	S24-Ma0053211	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
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

Authorised by:

Andrew Black	Analytical Services Manager
Laxman Dias	Senior Analyst-Asbestos
Mickael Ros	Senior Analyst-Metal
Raymond Siu	Senior Analyst-Volatile
Roopesh Rangarajan	Senior Analyst-Organic
Roopesh Rangarajan	Senior Analyst-Volatile

Glenn Jackson
Managing Director

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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JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

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: **Massimo Chapman**

Report **1079912-W**
Project name ALDINGTON_01
Project ID 66105
Received Date Mar 19, 2024

Client Sample ID			**TS**	**TB**
Sample Matrix			**Water**	**Water**
Eurofins Sample No.			**S24-Ma0047796**	**S24-Ma0047797**
Date Sampled			**Mar 18, 2024**	**Mar 18, 2024**
Test/Reference	LOR	Unit		
BTEX				
Benzene	1	%	75	-
Ethylbenzene	1	%	88	-
m&p-Xylenes	1	%	88	-
o-Xylene	1	%	82	-
Toluene	1	%	88	-
Xylenes - Total	1	%	84	-
4-Bromofluorobenzene (surr.)	1	%	112	-
BTEX				
Benzene	0.001	mg/L	-	< 0.001
Toluene	0.001	mg/L	-	< 0.001
Ethylbenzene	0.001	mg/L	-	< 0.001
m&p-Xylenes	0.002	mg/L	-	< 0.002
o-Xylene	0.001	mg/L	-	< 0.001
Xylenes - Total*	0.003	mg/L	-	< 0.003
4-Bromofluorobenzene (surr.)	1	%	-	107

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
BTEX	Sydney	Mar 20, 2024	14 Days

- Method: LTM-ORG-2010 BTEX and Volatile TRH

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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
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
NATA# 2377
Site# 2370

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland	Auckland (Asb)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,
Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: ALDINGTON_01
Project ID: 66105

Order No.:
Report #: 1079912
Phone: 02 8245 0300
Fax:

Received: Mar 19, 2024 4:40 PM
Due: Mar 26, 2024
Priority: 5 Day
Contact Name: Massimo Chapman

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	HOLD	BTEX	Moisture Set	JBS&G Suite 1	BTEX
Melbourne Laboratory - NATA # 1261 Site # 1254										X	
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X
External Laboratory											
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**						
1	398_01	Mar 18, 2024		Soil	S24-Ma0047765				X	X	
2	398_02	Mar 18, 2024		Soil	S24-Ma0047766				X	X	
3	398_03	Mar 18, 2024		Soil	S24-Ma0047767				X	X	
4	398_04	Mar 18, 2024		Soil	S24-Ma0047768				X	X	
5	398_05	Mar 18, 2024		Soil	S24-Ma0047769				X	X	
6	398_06	Mar 18, 2024		Soil	S24-Ma0047770				X	X	
7	398_07	Mar 18, 2024		Soil	S24-Ma0047771				X	X	
8	398_08	Mar 18, 2024		Soil	S24-Ma0047772				X	X	
9	463_01	Mar 18, 2024		Soil	S24-Ma0047773	X					
10	463_02	Mar 18, 2024		Soil	S24-Ma0047774	X					
11	463_03	Mar 18, 2024		Soil	S24-Ma0047775	X					
12	463_04	Mar 18, 2024		Soil	S24-Ma0047776	X					

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

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Perth
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
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Site# 2370

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NSW 2000

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Project ID: 66105

Order No.:
Report #: 1079912
Phone: 02 8245 0300
Fax:

Received: Mar 19, 2024 4:40 PM
Due: Mar 26, 2024
Priority: 5 Day
Contact Name: Massimo Chapman

Eurofins Analytical Services Manager : Andrew Black

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Melbourne Laboratory - NATA # 1261 Site # 1254										X	
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X
13	463_05	Mar 18, 2024		Soil	S24-Ma0047777	X					
14	463_06	Mar 18, 2024		Soil	S24-Ma0047778	X					
15	463_07	Mar 18, 2024		Soil	S24-Ma0047779	X					
16	463_08	Mar 18, 2024		Soil	S24-Ma0047780	X					
17	463_09	Mar 18, 2024		Soil	S24-Ma0047781	X					
18	460_01	Mar 18, 2024		Soil	S24-Ma0047782	X					
19	460_02	Mar 18, 2024		Soil	S24-Ma0047783	X					
20	460_03	Mar 18, 2024		Soil	S24-Ma0047784	X					
21	460_04	Mar 18, 2024		Soil	S24-Ma0047785	X					
22	460_05	Mar 18, 2024		Soil	S24-Ma0047786	X					
23	460_06	Mar 18, 2024		Soil	S24-Ma0047787	X					
24	460_07	Mar 18, 2024		Soil	S24-Ma0047788	X					
25	460_08	Mar 18, 2024		Soil	S24-Ma0047789	X					
26	460_09	Mar 18, 2024		Soil	S24-Ma0047790	X					
27	460_10	Mar 18, 2024		Soil	S24-Ma0047791	X					

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Melbourne Laboratory - NATA # 1261 Site # 1254										X	
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X
28	460_11	Mar 18, 2024		Soil	S24-Ma0047792	X					
29	460_12	Mar 18, 2024		Soil	S24-Ma0047793	X					
30	460_13	Mar 18, 2024		Soil	S24-Ma0047794	X					
31	460_14	Mar 18, 2024		Soil	S24-Ma0047795	X					
32	TS	Mar 18, 2024		Water	S24-Ma0047796						X
33	TB	Mar 18, 2024		Water	S24-Ma0047797			X			
34	398A_01	Mar 18, 2024		Soil	S24-Ma0047798		X				
35	398A_02	Mar 18, 2024		Soil	S24-Ma0047799		X				
36	398A_03	Mar 18, 2024		Soil	S24-Ma0047800		X				
37	398B_01	Mar 18, 2024		Soil	S24-Ma0047801		X				
38	398B_02	Mar 18, 2024		Soil	S24-Ma0047802		X				
39	398B_03	Mar 18, 2024		Soil	S24-Ma0047803		X				
40	463A_01	Mar 18, 2024		Soil	S24-Ma0047804		X				
41	463A_02	Mar 18, 2024		Soil	S24-Ma0047805		X				
42	463A_03	Mar 18, 2024		Soil	S24-Ma0047806		X				

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

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ABN: 50 005 085 521

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Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	HOLD	BTEX	Moisture Set	JBS&G Suite 1	BTEX
Melbourne Laboratory - NATA # 1261 Site # 1254										X	
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X
43	463B_01	Mar 18, 2024		Soil	S24-Ma0047807		X				
44	463B_02	Mar 18, 2024		Soil	S24-Ma0047808		X				
45	463B_03	Mar 18, 2024		Soil	S24-Ma0047809		X				
46	460A_01	Mar 18, 2024		Soil	S24-Ma0047810		X				
47	460A_02	Mar 18, 2024		Soil	S24-Ma0047811		X				
48	460A_03	Mar 18, 2024		Soil	S24-Ma0047812		X				
49	460B_01	Mar 18, 2024		Soil	S24-Ma0047813		X				
50	460B_02	Mar 18, 2024		Soil	S24-Ma0047814		X				
51	460B_03	Mar 18, 2024		Soil	S24-Ma0047815		X				
52	QC20240318	Mar 18, 2024		Soil	S24-Ma0047816		X				
Test Counts						23	19	1	8	8	1

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follow guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013. They are included in this QC report where applicable. Additional QC data may be available on request.
2. Unless otherwise stated, all soil/sediment/solid results are reported on a dry weight basis.
3. Unless otherwise stated, all biota/food results are reported on a wet weight basis on the edible portion.
4. For CEC results where the sample's origin is unknown or environmentally contaminated, the results should be used advisedly.
5. Actual LORs are matrix dependent. Quoted LORs may be raised where sample extracts are diluted due to interferences.
6. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds where annotated.
7. SVOC analysis on waters is performed on homogenised, unfiltered samples unless noted otherwise.
8. Samples were analysed on an 'as received' basis.
9. Information identified in this report with **blue** colour indicates data provided by customers that may have an impact on the results.
10. This report replaces any interim results previously issued.

Holding Times

Please refer to the '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 before sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and despite any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the sampling date; therefore, compliance with these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether, the holding time is seven days; however, for all other VOCs, such as BTEX or C6-10 TRH, the holding time is 14 days.

Units

mg/kg: milligrams per kilogram	**mg/L:** milligrams per litre	**ppm:** parts per million
µg/L: micrograms per litre	**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
CFU: Colony Forming Unit	**Colour:** Pt-Co Units (CU)	

Terms

APHA	American Public Health Association
CEC	Cation Exchange Capacity
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 moisture has been determined on a solid sample, the result is expressed on a dry weight 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 represents 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 similar compound to the analyte target is reported as percentage recovery. See below for acceptance criteria.
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 6.0
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 only be used as a guide 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. SVOCs recoveries 20 – 150%, VOC recoveries 50 – 150%

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 6.0, where no positive PFAS results have been reported or reviewed, and no data was affected.

QC Data General Comments

1. Where a result is reported as 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 are 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	Lab Sample ID	QA Source	Units	Result 1	Result 2	RPD	Acceptance Limits	Pass Limits	Qualifying Code
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	
LCS - % Recovery									
BTEX									
Benzene			%	93			70-130	Pass	
Toluene			%	96			70-130	Pass	
Ethylbenzene			%	112			70-130	Pass	
m&p-Xylenes			%	116			70-130	Pass	
o-Xylene			%	110			70-130	Pass	
Xylenes - Total*			%	114			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Spike - % Recovery									
BTEX				Result 1					
Benzene	N24-Ma0043224	NCP	%	93			70-130	Pass	
Toluene	N24-Ma0043224	NCP	%	81			70-130	Pass	
Ethylbenzene	N24-Ma0043224	NCP	%	107			70-130	Pass	
m&p-Xylenes	N24-Ma0043224	NCP	%	89			70-130	Pass	
o-Xylene	N24-Ma0043224	NCP	%	104			70-130	Pass	
Xylenes - Total*	N24-Ma0043224	NCP	%	94			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	S24-Ma0044763	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Toluene	S24-Ma0044763	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Ethylbenzene	S24-Ma0044763	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
m&p-Xylenes	S24-Ma0044763	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
o-Xylene	S24-Ma0044763	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Xylenes - Total*	S24-Ma0044763	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	

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

Authorised by:

Andrew Black	Analytical Services Manager
Roopesh Rangarajan	Senior Analyst-Volatile

Glenn Jackson
Managing Director

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.: 66105	LABORATORY BATCH NO.:
PROJECT NAME: ALDINGTON - 02	SAMPLERS: MASSIMO CHAPMAN
DATE NEEDED BY: 3 Day TAT	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) .....SKnott.....@jbsg.com.au; (3) ...mchapman.....@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:
1e - 01	SOIL	20/3/24		BAG.		X		X	
02						X			
03						X			
04						X			
05						X			
06						X			
07						X			
08						X			
09						X			
10						X			
11						X			
12						X			
13						X			
14						X			
15						X			
16						X			
17						X			
18						X			
19						X			

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: MASSIMO CHAPMAN DATE: 20/3/24	CONSIGNMENT NOTE NO.	NAME: Matt Knott	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 20/3 6:30pm	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

1080081

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2 of 2

Chain of Custody

JBS&G

PROJECT NO.: 66105	LABORATORY BATCH NO.:
PROJECT NAME: ALDINGTON - 02	SAMPLERS: MASSIMO CHAPMAN
DATE NEEDED BY:	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) .....skraatt.....@jbsg.com.au; (3) .....mchapman.....@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:
1e - 20	SOIL	20/3/24		Bottle		X		X	
↓ 21	↓	↓		↓		X		X	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: MASSIMO CHAPMAN DATE: 20/3/24	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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www.eurofins.com.au EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

Eurofins ARL Pty Ltd

ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
NATA# 2377
Site# 2370

Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

Auckland	Auckland (Asb)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,
Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Samuel Knott
Project name:	ALDINGTON-02
Project ID:	66105
Turnaround time:	3 Day
Date/Time received	Mar 20, 2024 6:38 PM
Eurofins reference	1080081

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 Samuel Knott - sknott@jbsg.com.au.

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

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Perth
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: ALDINGTON-02
Project ID: 66105

Order No.:
Report #: 1080081
Phone: 02 8245 0300
Fax:

Received: Mar 20, 2024 6:38 PM
Due: Mar 25, 2024
Priority: 3 Day
Contact Name: Samuel Knott

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	1E - 1	Mar 20, 2024		Building Materials	S24-Ma0049133	X
2	1E - 2	Mar 20, 2024		Building Materials	S24-Ma0049134	X
3	1E - 3	Mar 20, 2024		Building Materials	S24-Ma0049135	X
4	1E - 4	Mar 20, 2024		Building Materials	S24-Ma0049136	X
5	1E - 5	Mar 20, 2024		Building Materials	S24-Ma0049137	X
6	1E - 6	Mar 20, 2024		Soil	S24-Ma0049138	X
7	1E - 7	Mar 20, 2024		Soil	S24-Ma0049139	X
8	1E - 8	Mar 20, 2024		Soil	S24-Ma0049140	X
9	1E - 9	Mar 20, 2024		Soil	S24-Ma0049141	X
10	1E - 10	Mar 20, 2024		Soil	S24-Ma0049142	X

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

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ABN: 50 005 085 521

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Perth
46-48 Banksia Road
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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: ALDINGTON-02
Project ID: 66105

Order No.:
Report #: 1080081
Phone: 02 8245 0300
Fax:

Received: Mar 20, 2024 6:38 PM
Due: Mar 25, 2024
Priority: 3 Day
Contact Name: Samuel Knott

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
11	1E - 11	Mar 20, 2024		Soil	S24-Ma0049143	X
12	1E - 12	Mar 20, 2024		Soil	S24-Ma0049144	X
13	1E - 13	Mar 20, 2024		Soil	S24-Ma0049145	X
14	1E - 14	Mar 20, 2024		Soil	S24-Ma0049146	X
15	1E - 15	Mar 20, 2024		Soil	S24-Ma0049147	X
16	1E - 16	Mar 20, 2024		Soil	S24-Ma0049148	X
17	1E - 17	Mar 20, 2024		Soil	S24-Ma0049149	X
18	1E - 18	Mar 20, 2024		Soil	S24-Ma0049150	X
19	1E - 19	Mar 20, 2024		Soil	S24-Ma0049151	X
20	1E - 20	Mar 20, 2024		Soil	S24-Ma0049152	X
21	1E - 21	Mar 20, 2024		Soil	S24-Ma0049153	X
Test Counts						21

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:	Samuel Knott
Report	1080081-AID
Project Name	ALDINGTON-02
Project ID	66105
Received Date	Mar 20, 2024
Date Reported	Mar 25, 2024

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 ALDINGTON-02
Project ID 66105
Date Sampled Mar 20, 2024
Report 1080081-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
1E - 1	24-Ma0049133	Mar 20, 2024	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.
1E - 2	24-Ma0049134	Mar 20, 2024	Approximate Sample 632g 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.
1E - 3	24-Ma0049135	Mar 20, 2024	Approximate Sample 706g 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.
1E - 4	24-Ma0049136	Mar 20, 2024	Approximate Sample 638g 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.
1E - 5	24-Ma0049137	Mar 20, 2024	Approximate Sample 580g 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.
1E - 6	24-Ma0049138	Mar 20, 2024	Approximate Sample 693g Sample consisted of: Brown coarse-grained clayey sandy soil, cement, bitumen like material, organic debris and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
1E - 7	24-Ma0049139	Mar 20, 2024	Approximate Sample 627g Sample consisted of: Brown coarse-grained clayey sandy soil, cement, bitumen like material, organic debris and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
1E - 8	24-Ma0049140	Mar 20, 2024	Approximate Sample 466g 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.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
1E - 9	24-Ma0049141	Mar 20, 2024	Approximate Sample 603g 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.
1E - 10	24-Ma0049142	Mar 20, 2024	Approximate Sample 627g 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.
1E - 11	24-Ma0049143	Mar 20, 2024	Approximate Sample 477g Sample consisted of: Brown fine-grained clayey sandy soil, charcoal, organic debris, and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
1E - 12	24-Ma0049144	Mar 20, 2024	Approximate Sample 617g Sample consisted of: Red-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.
1E - 13	24-Ma0049145	Mar 20, 2024	Approximate Sample 605g Sample consisted of: Red-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.
1E - 14	24-Ma0049146	Mar 20, 2024	Approximate Sample 874g Sample consisted of: Brown fine-grained sandy soil, charcoal, corroded metal, bitumen like material, organic debris and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
1E - 15	24-Ma0049147	Mar 20, 2024	Approximate Sample 684g Sample consisted of: Brown fine-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.
1E - 16	24-Ma0049148	Mar 20, 2024	Approximate Sample 368g 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.
1E - 17	24-Ma0049149	Mar 20, 2024	Approximate Sample 534g 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.
1E - 18	24-Ma0049150	Mar 20, 2024	Approximate Sample 803g 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.
1E - 19	24-Ma0049151	Mar 20, 2024	Approximate Sample 640g Sample consisted of: Brown coarse-grained clayey sandy soil, organic debris and rocks	AF: Chrysotile asbestos detected in compressed fibre cement material. Approximate raw weight of AF = 0.045g* Estimated asbestos content in AF = 0.0045g* Total estimated asbestos concentration in AF = 0.00070% 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
1E - 20	24-Ma0049152	Mar 20, 2024	Approximate Sample 399g Sample consisted of: Brown fine-grained clayey sandy soil, organic debris and rocks	ACM: Chrysotile and amosite asbestos detected in compressed fibre cement material. Approximate raw weight of ACM = 4.3g Total estimated asbestos content in ACM = 0.86g* Total estimated asbestos concentration in ACM = 0.22% w/w* Organic fibre detected. No trace asbestos detected.
1E - 21	24-Ma0049153	Mar 20, 2024	Approximate Sample 533g 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.

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, 2024	Indefinite

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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
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
NATA# 2377
Site# 2370

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland	Auckland (Asb)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,
Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: ALDINGTON-02
Project ID: 66105

Order No.:
Report #: 1080081
Phone: 02 8245 0300
Fax:

Received: Mar 20, 2024 6:38 PM
Due: Mar 25, 2024
Priority: 3 Day
Contact Name: Samuel Knott

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	1E - 1	Mar 20, 2024		Building Materials	S24-Ma0049133	X
2	1E - 2	Mar 20, 2024		Building Materials	S24-Ma0049134	X
3	1E - 3	Mar 20, 2024		Building Materials	S24-Ma0049135	X
4	1E - 4	Mar 20, 2024		Building Materials	S24-Ma0049136	X
5	1E - 5	Mar 20, 2024		Building Materials	S24-Ma0049137	X
6	1E - 6	Mar 20, 2024		Soil	S24-Ma0049138	X
7	1E - 7	Mar 20, 2024		Soil	S24-Ma0049139	X
8	1E - 8	Mar 20, 2024		Soil	S24-Ma0049140	X
9	1E - 9	Mar 20, 2024		Soil	S24-Ma0049141	X
10	1E - 10	Mar 20, 2024		Soil	S24-Ma0049142	X

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
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Phone: 02 8245 0300
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Received: Mar 20, 2024 6:38 PM
Due: Mar 25, 2024
Priority: 3 Day
Contact Name: Samuel Knott

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
11	1E - 11	Mar 20, 2024		Soil	S24-Ma0049143	X
12	1E - 12	Mar 20, 2024		Soil	S24-Ma0049144	X
13	1E - 13	Mar 20, 2024		Soil	S24-Ma0049145	X
14	1E - 14	Mar 20, 2024		Soil	S24-Ma0049146	X
15	1E - 15	Mar 20, 2024		Soil	S24-Ma0049147	X
16	1E - 16	Mar 20, 2024		Soil	S24-Ma0049148	X
17	1E - 17	Mar 20, 2024		Soil	S24-Ma0049149	X
18	1E - 18	Mar 20, 2024		Soil	S24-Ma0049150	X
19	1E - 19	Mar 20, 2024		Soil	S24-Ma0049151	X
20	1E - 20	Mar 20, 2024		Soil	S24-Ma0049152	X
21	1E - 21	Mar 20, 2024		Soil	S24-Ma0049153	X
Test Counts						21

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**). This estimate is not NATA-accredited.
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

24-Ma0049140, 24-Ma0049143, 24-Ma0049148, 24-Ma0049152: 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:

Sayeed Abu	Senior Analyst-Asbestos

Authorised by:

Chamath JHM Annakkage	Senior Analyst-Asbestos

Glenn Jackson
Managing Director

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.

1 of 2.

Chain of Custody

JBS&G

PROJECT NO.: 66105
PROJECT NAME: ALDINGTON-03
DATE NEEDED BY: 2 DAY TAT

LABORATORY BATCH NO.:
SAMPLERS: MASSIMO CHADWICK
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) .....Sknott.....@jbsg.com.au; (3) .....mdrapmen.....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos S.	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
1a_01	Soil	21/3/24		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	
15						X		X	
16						X		X	
1b_01						X		X	
02						X		X	
03						X		X	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: MASSIMO CHADWICK DATE: 21/3/24 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: DATE: 22/3/24 (1:50) OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP 22.7 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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2 of 2.

Chain of Custody

JBS&G

PROJECT NO.: 66105	LABORATORY BATCH NO.:
PROJECT NAME: ALDINGTON - 03	SAMPLERS: MASSIMO CHAPMAN
DATE NEEDED BY: 2 DAY TAT	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) .....S.Smith.....@jbsg.com.au; (3) .....mchapman.....@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:
16-04	Soil	21/3/24		BAG		X		X	
05						X		X	
06						X		X	
07						X		X	
08						X		X	
09						X		X	
10						X		X	
QC01						X		X	
QC02						X		X	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: MASSIMO CHAPMAN DATE: 21/3/24.	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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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Samuel Knott
Project name:	ALDINGTON-03
Project ID:	66105
Turnaround time:	2 Day
Date/Time received	Mar 22, 2024 11:50 AM
Eurofins reference	1080742

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 : 23.3 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.
✗	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 Samuel Knott - sknott@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

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

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ABN: 91 05 0159 898

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Welshpool
WA 6106
+61 8 6253 4444
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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: ALDINGTON-03
Project ID: 66105

Order No.:
Report #: 1080742
Phone: 02 8245 0300
Fax:

Received: Mar 22, 2024 11:50 AM
Due: Mar 26, 2024
Priority: 2 Day
Contact Name: Samuel Knott

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	1A-01	Mar 21, 2024		Soil	S24-Ma0054727	X
2	1A-02	Mar 21, 2024		Soil	S24-Ma0054728	X
3	1A-03	Mar 21, 2024		Soil	S24-Ma0054729	X
4	1A-04	Mar 21, 2024		Soil	S24-Ma0054730	X
5	1A-05	Mar 21, 2024		Soil	S24-Ma0054731	X
6	1A-06	Mar 21, 2024		Soil	S24-Ma0054732	X
7	1A-07	Mar 21, 2024		Soil	S24-Ma0054733	X
8	1A-08	Mar 21, 2024		Soil	S24-Ma0054734	X
9	1A-09	Mar 21, 2024		Soil	S24-Ma0054735	X
10	1A-10	Mar 21, 2024		Soil	S24-Ma0054736	X
11	1A-11	Mar 21, 2024		Soil	S24-Ma0054737	X
12	1A-12	Mar 21, 2024		Soil	S24-Ma0054738	X
13	1A-13	Mar 21, 2024		Soil	S24-Ma0054739	X

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
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Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
14	1A-14	Mar 21, 2024		Soil	S24-Ma0054740	X
15	1A-15	Mar 21, 2024		Soil	S24-Ma0054741	X
16	1A-16	Mar 21, 2024		Soil	S24-Ma0054742	X
17	1B-01	Mar 21, 2024		Soil	S24-Ma0054743	X
18	1B-02	Mar 21, 2024		Soil	S24-Ma0054744	X
19	1B-03	Mar 21, 2024		Soil	S24-Ma0054745	X
20	1B-04	Mar 21, 2024		Soil	S24-Ma0054746	X
21	1B-05	Mar 21, 2024		Soil	S24-Ma0054747	X
22	1B-06	Mar 21, 2024		Soil	S24-Ma0054748	X
23	1B-07	Mar 21, 2024		Soil	S24-Ma0054749	X
24	1B-08	Mar 21, 2024		Soil	S24-Ma0054750	X
25	1B-09	Mar 21, 2024		Soil	S24-Ma0054751	X
26	1B-10	Mar 21, 2024		Soil	S24-Ma0054752	X
27	QC01	Mar 21, 2024		Soil	S24-Ma0054753	X
28	QC02	Mar 21, 2024		Soil	S24-Ma0054754	X
Test Counts						28

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
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NSW 2000

Attention:	Samuel Knott
Report	1080742-AID
Project Name	ALDINGTON-03
Project ID	66105
Received Date	Mar 22, 2024
Date Reported	Mar 26, 2024

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 ALDINGTON-03
Project ID 66105
Date Sampled Mar 21, 2024
Report 1080742-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
1A-01	24-Ma0054727	Mar 21, 2024	Approximate Sample 701g Sample consisted of: Brown coarse-grained soil, organic debris and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
1A-02	24-Ma0054728	Mar 21, 2024	Approximate Sample 667g Sample consisted of: Brown fine-grained clayey soil, cement, organic debris and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
1A-03	24-Ma0054729	Mar 21, 2024	Approximate Sample 540g Sample consisted of: Brown fine-grained clayey soil, cement, organic debris and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
1A-04	24-Ma0054730	Mar 21, 2024	Approximate Sample 566g Sample consisted of: Brown coarse-grained soil, organic debris, cement, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
1A-05	24-Ma0054731	Mar 21, 2024	Approximate Sample 900g 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.
1A-06	24-Ma0054732	Mar 21, 2024	Approximate Sample 550g Sample consisted of: Brown fine-grained clayey soil, cement, organic debris and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
1A-07	24-Ma0054733	Mar 21, 2024	Approximate Sample 720g Sample consisted of: Brown fine-grained clayey soil, cement, brick, organic debris and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
1A-08	24-Ma0054734	Mar 21, 2024	Approximate Sample 620g 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
1A-09	24-Ma0054735	Mar 21, 2024	Approximate Sample 500g Sample consisted of: Brown fine-grained clayey soil, organic debris and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
1A-10	24-Ma0054736	Mar 21, 2024	Approximate Sample 731g 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.
1A-11	24-Ma0054737	Mar 21, 2024	Approximate Sample 500g 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.
1A-12	24-Ma0054738	Mar 21, 2024	Approximate Sample 622g 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.
1A-13	24-Ma0054739	Mar 21, 2024	Approximate Sample 726g 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.
1A-14	24-Ma0054740	Mar 21, 2024	Approximate Sample 706g Sample consisted of: Brown fine-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.
1A-15	24-Ma0054741	Mar 21, 2024	Approximate Sample 725g 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.
1A-16	24-Ma0054742	Mar 21, 2024	Approximate Sample 501g 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.
1B-01	24-Ma0054743	Mar 21, 2024	Approximate Sample 520g 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.
1B-02	24-Ma0054744	Mar 21, 2024	Approximate Sample 500g 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.
1B-03	24-Ma0054745	Mar 21, 2024	Approximate Sample 501g Sample consisted of: Brown fine-grained clayey soil, plant residue, organic debris and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
1B-04	24-Ma0054746	Mar 21, 2024	Approximate Sample 520g Sample consisted of: Brown coarse grained sandy clayey soil, plaster and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
1B-05	24-Ma0054747	Mar 21, 2024	Approximate Sample 722g 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
1B-06	24-Ma0054748	Mar 21, 2024	Approximate Sample 610g 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.
1B-07	24-Ma0054749	Mar 21, 2024	Approximate Sample 700g Sample consisted of: Brown coarse-grained soil, coal, debris and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
1B-08	24-Ma0054750	Mar 21, 2024	Approximate Sample 780g Sample consisted of: Brown coarse-grained soil, plaster, coal, corroded metal and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
1B-09	24-Ma0054751	Mar 21, 2024	Approximate Sample 821g Sample consisted of: Brown coarse-grained soil, coal, plaster, brick, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
1B-10	24-Ma0054752	Mar 21, 2024	Approximate Sample 786g Sample consisted of: Brown coarse-grained soil, plaster, bitumen, coal and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
QC01	24-Ma0054753	Mar 21, 2024	Approximate Sample 752g Sample consisted of: Brown coarse-grained soil, glass, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
QC02	24-Ma0054754	Mar 21, 2024	Approximate Sample 987g Sample consisted of: Brown coarse-grained 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.

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, 2024	Indefinite

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Sydney Laboratory - NATA # 1261 Site # 18217						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
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2	1A-02	Mar 21, 2024		Soil	S24-Ma0054728	X
3	1A-03	Mar 21, 2024		Soil	S24-Ma0054729	X
4	1A-04	Mar 21, 2024		Soil	S24-Ma0054730	X
5	1A-05	Mar 21, 2024		Soil	S24-Ma0054731	X
6	1A-06	Mar 21, 2024		Soil	S24-Ma0054732	X
7	1A-07	Mar 21, 2024		Soil	S24-Ma0054733	X
8	1A-08	Mar 21, 2024		Soil	S24-Ma0054734	X
9	1A-09	Mar 21, 2024		Soil	S24-Ma0054735	X
10	1A-10	Mar 21, 2024		Soil	S24-Ma0054736	X
11	1A-11	Mar 21, 2024		Soil	S24-Ma0054737	X
12	1A-12	Mar 21, 2024		Soil	S24-Ma0054738	X
13	1A-13	Mar 21, 2024		Soil	S24-Ma0054739	X

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Sydney Laboratory - NATA # 1261 Site # 18217						X
14	1A-14	Mar 21, 2024		Soil	S24-Ma0054740	X
15	1A-15	Mar 21, 2024		Soil	S24-Ma0054741	X
16	1A-16	Mar 21, 2024		Soil	S24-Ma0054742	X
17	1B-01	Mar 21, 2024		Soil	S24-Ma0054743	X
18	1B-02	Mar 21, 2024		Soil	S24-Ma0054744	X
19	1B-03	Mar 21, 2024		Soil	S24-Ma0054745	X
20	1B-04	Mar 21, 2024		Soil	S24-Ma0054746	X
21	1B-05	Mar 21, 2024		Soil	S24-Ma0054747	X
22	1B-06	Mar 21, 2024		Soil	S24-Ma0054748	X
23	1B-07	Mar 21, 2024		Soil	S24-Ma0054749	X
24	1B-08	Mar 21, 2024		Soil	S24-Ma0054750	X
25	1B-09	Mar 21, 2024		Soil	S24-Ma0054751	X
26	1B-10	Mar 21, 2024		Soil	S24-Ma0054752	X
27	QC01	Mar 21, 2024		Soil	S24-Ma0054753	X
28	QC02	Mar 21, 2024		Soil	S24-Ma0054754	X
Test Counts						28

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**). This estimate is not NATA-accredited.
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	No
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
Managing Director

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

1081006

JBS&G

PROJECT NO.: ALDINGTON 04	LABORATORY BATCH NO.:
PROJECT NAME: 66105	SAMPLERS: MASSIMO CHARMAN
DATE NEEDED BY: 48 HR.	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) .....@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:
1x - 01	SOIL	22/3/24		3502		X		X	
02									
03									
04									
05									
06									
07									
08									
09									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: MASSIMO CHARMAN DATE: 22/3/24	CONSIGNMENT NOTE NO.	NAME: Blakeout	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 6:30 pm	COOLER TEMP ..... deg C N/A
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME:	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

22/3/24

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Chain of Custody

JBS&G

PROJECT NO.: ADDINGTON – 04
PROJECT NAME: 66105
DATE NEEDED BY: 48 HR

LABORATORY BATCH NO.:
SAMPLERS: MASSIMO CHAPMAN.
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) melbourne.....@jbsg.com.au; (3) .....Sknott.....@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:
~~TX~~ – 20	SOIL	22/3/24		BAG.		X		X	
21									
TP07 – E									
S									
W									
N									
B									
BC – 01									
02									
03									
04									
05									
06									
07									
08									
09									
10									
11									
12									

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: MASSIMO CHAPMAN DATE: 22/3/24 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

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PROJECT NO.:	LABORATORY BATCH NO.:
PROJECT NAME:	SAMPLERS:
DATE NEEDED BY:	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

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COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	AS bedtops	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
BC - 13	SOIL	22/3/24		PAE		X		X	
↓ 14	↓	↓		↓		↓		↓	
↓ 15									
↓ 16									
QC03									
QC04									

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: MASSIMO DATE: 22/3/24	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G CHASTOMER	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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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

Eurofins ARL Pty Ltd

ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
NATA# 2377
Site# 2370

Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Massimo Chapman
Project name:	ALDINGTON_04
Project ID:	66105
Turnaround time:	2 Day
Date/Time received	Mar 22, 2024 6:30 PM
Eurofins reference	1081006

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

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 Massimo Chapman - mchapman@jbsg.com.au.

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
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WA 6106
+61 8 6253 4444
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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Order No.:
Report #: 1081006
Phone: 02 8245 0300
Fax:

Received: Mar 22, 2024 6:30 PM
Due: Mar 26, 2024
Priority: 2 Day
Contact Name: Massimo Chapman

Project Name: ALDINGTON_04
Project ID: 66105

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	IX_01	Mar 22, 2024		Soil	S24-Ma0056361	X
2	IX_02	Mar 22, 2024		Soil	S24-Ma0056362	X
3	IX_03	Mar 22, 2024		Soil	S24-Ma0056363	X
4	IX_04	Mar 22, 2024		Soil	S24-Ma0056364	X
5	IX_05	Mar 22, 2024		Soil	S24-Ma0056365	X
6	IX_06	Mar 22, 2024		Soil	S24-Ma0056366	X
7	IX_07	Mar 22, 2024		Soil	S24-Ma0056367	X
8	IX_08	Mar 22, 2024		Soil	S24-Ma0056368	X
9	IX_09	Mar 22, 2024		Soil	S24-Ma0056369	X
10	IX_10	Mar 22, 2024		Soil	S24-Ma0056370	X
11	IX_11	Mar 22, 2024		Soil	S24-Ma0056371	X
12	IX_12	Mar 22, 2024		Soil	S24-Ma0056372	X
13	IX_13	Mar 22, 2024		Soil	S24-Ma0056373	X

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

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Site# 2370

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+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: ALDINGTON_04
Project ID: 66105

Order No.:
Report #: 1081006
Phone: 02 8245 0300
Fax:

Received: Mar 22, 2024 6:30 PM
Due: Mar 26, 2024
Priority: 2 Day
Contact Name: Massimo Chapman

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
14	IX_14	Mar 22, 2024		Soil	S24-Ma0056374	X
15	IX_15	Mar 22, 2024		Soil	S24-Ma0056375	X
16	IX_16	Mar 22, 2024		Soil	S24-Ma0056376	X
17	IX_17	Mar 22, 2024		Soil	S24-Ma0056377	X
18	IX_18	Mar 22, 2024		Soil	S24-Ma0056378	X
19	IX_19	Mar 22, 2024		Soil	S24-Ma0056379	X
20	IX_20	Mar 22, 2024		Soil	S24-Ma0056380	X
21	IX_21	Mar 22, 2024		Soil	S24-Ma0056381	X
22	TP09-E	Mar 22, 2024		Soil	S24-Ma0056382	X
23	TP09-S	Mar 22, 2024		Soil	S24-Ma0056383	X
24	TP09-W	Mar 22, 2024		Soil	S24-Ma0056384	X
25	TP09-N	Mar 22, 2024		Soil	S24-Ma0056385	X
26	TP09-B	Mar 22, 2024		Soil	S24-Ma0056386	X
27	6C_01	Mar 22, 2024		Soil	S24-Ma0056387	X
28	6C_02	Mar 22, 2024		Soil	S24-Ma0056388	X
29	6C_03	Mar 22, 2024		Soil	S24-Ma0056389	X

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email: EnviroSales@eurofins.com

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

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+61 8 6253 4444
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+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: ALDINGTON_04
Project ID: 66105

Order No.:
Report #: 1081006
Phone: 02 8245 0300
Fax:

Received: Mar 22, 2024 6:30 PM
Due: Mar 26, 2024
Priority: 2 Day
Contact Name: Massimo Chapman

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
30	6C_04	Mar 22, 2024		Soil	S24-Ma0056390	X
31	6C_05	Mar 22, 2024		Soil	S24-Ma0056391	X
32	6C_06	Mar 22, 2024		Soil	S24-Ma0056392	X
33	6C_07	Mar 22, 2024		Soil	S24-Ma0056393	X
34	6C_08	Mar 22, 2024		Soil	S24-Ma0056394	X
35	6C_09	Mar 22, 2024		Soil	S24-Ma0056395	X
36	6C_10	Mar 22, 2024		Soil	S24-Ma0056396	X
37	6C_11	Mar 22, 2024		Soil	S24-Ma0056397	X
38	6C_12	Mar 22, 2024		Soil	S24-Ma0056398	X
39	6C_13	Mar 22, 2024		Soil	S24-Ma0056399	X
40	6C_14	Mar 22, 2024		Soil	S24-Ma0056400	X
41	6C_15	Mar 22, 2024		Soil	S24-Ma0056401	X
42	6C_16	Mar 22, 2024		Soil	S24-Ma0056402	X
43	QC03	Mar 22, 2024		Soil	S24-Ma0056403	X
44	QC04	Mar 22, 2024		Soil	S24-Ma0056404	X
Test Counts						44

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention:	Massimo Chapman
Report	1081006-AID
Project Name	ALDINGTON_04
Project ID	66105
Received Date	Mar 22, 2024
Date Reported	Mar 27, 2024

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 ALDINGTON_04
Project ID 66105
Date Sampled Mar 22, 2024
Report 1081006-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
IX_01	24-Ma0056361	Mar 22, 2024	Approximate Sample 617g Sample consisted of: Brown fine-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.
IX_02	24-Ma0056362	Mar 22, 2024	Approximate Sample 402g / >500ml Sample consisted of: Brown fine-grained clayey sandy soil, plant matter and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
IX_03	24-Ma0056363	Mar 22, 2024	Approximate Sample 756g Sample consisted of: Brown fine-grained clayey sandy soil, plant matter and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Synthetic mineral fibre detected. Organic fibre detected. No trace asbestos detected.
IX_04	24-Ma0056364	Mar 22, 2024	Approximate Sample 652g Sample consisted of: Brown fine-grained clayey sandy soil, plant matter and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
IX_05	24-Ma0056365	Mar 22, 2024	Approximate Sample 732g Sample consisted of: Brown fine-grained clayey sandy soil, plant matter and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
IX_06	24-Ma0056366	Mar 22, 2024	Approximate Sample 700g Sample consisted of: Brown fine-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.
IX_07	24-Ma0056367	Mar 22, 2024	Approximate Sample 522g Sample consisted of: Brown fine-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.
IX_08	24-Ma0056368	Mar 22, 2024	Approximate Sample 494g / >500ml Sample consisted of: Brown fine-grained clayey sandy soil, plant matter 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
IX_09	24-Ma0056369	Mar 22, 2024	Approximate Sample 570g Sample consisted of: Brown fine-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.
IX_10	24-Ma0056370	Mar 22, 2024	Approximate Sample 518g 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.
IX_11	24-Ma0056371	Mar 22, 2024	Approximate Sample 450g / >500ml 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.
IX_12	24-Ma0056372	Mar 22, 2024	Approximate Sample 420g / >500ml Sample consisted of: Brown fine-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.
IX_13	24-Ma0056373	Mar 22, 2024	Approximate Sample 311g / >500ml Sample consisted of: Brown fine-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.
IX_14	24-Ma0056374	Mar 22, 2024	Approximate Sample 487g / >500ml Sample consisted of: Brown fine-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.
IX_15	24-Ma0056375	Mar 22, 2024	Approximate Sample 559g 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.
IX_16	24-Ma0056376	Mar 22, 2024	Approximate Sample 524g Sample consisted of: Brown fine-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.
IX_17	24-Ma0056377	Mar 22, 2024	Approximate Sample 346g / >500ml Sample consisted of: Brown fine-grained clayey sandy soil, plant matter and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
IX_18	24-Ma0056378	Mar 22, 2024	Approximate Sample 483g / >500ml 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.
IX_19	24-Ma0056379	Mar 22, 2024	Approximate Sample 568g Sample consisted of: Brown fine-grained clayey sandy soil, plant matter and rocks	FA: Chrysotile asbestos detected in weathered fibre cement material. Approximate raw weight of FA = 0.019g Estimated asbestos content in FA = 0.0056g* Total estimated asbestos concentration in FA = 0.00099% 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
IX_20	24-Ma0056380	Mar 22, 2024	Approximate Sample 598g 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.
IX_21	24-Ma0056381	Mar 22, 2024	Approximate Sample 599g 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.
TP09-E	24-Ma0056382	Mar 22, 2024	Approximate Sample 760g Sample consisted of: Brown fine-grained clayey sandy soil, sand stone, bitumen like material and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP09-S	24-Ma0056383	Mar 22, 2024	Approximate Sample 501g 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.
TP09-W	24-Ma0056384	Mar 22, 2024	Approximate Sample 621g 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.
TP09-N	24-Ma0056385	Mar 22, 2024	Approximate Sample 595g 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.
TP09-B	24-Ma0056386	Mar 22, 2024	Approximate Sample 618g 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.
6C_01	24-Ma0056387	Mar 22, 2024	Approximate Sample 765g Sample consisted of: Black fine-grained clayey sandy soil, bitumen like material and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
6C_02	24-Ma0056388	Mar 22, 2024	Approximate Sample 567g Sample consisted of: Black fine-grained clayey sandy soil, organic debris, bitumen like material and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
6C_03	24-Ma0056389	Mar 22, 2024	Approximate Sample 599g 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.
6C_04	24-Ma0056390	Mar 22, 2024	Approximate Sample 544g 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.
6C_05	24-Ma0056391	Mar 22, 2024	Approximate Sample 529g Sample consisted of: Grey coarse-grained clayey sandy soil, sand stone, organic debris and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
6C_06	24-Ma0056392	Mar 22, 2024	Approximate Sample 542g Sample consisted of: Brown fine-grained clayey sandy soil, plant matter 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
6C_07	24-Ma0056393	Mar 22, 2024	Approximate Sample 681g Sample consisted of: Red-Brown coarse-grained clayey soil and rocks	AF: Chrysotile asbestos detected in the form of loose fibre bundles. Approximate raw weight of AF = 0.94g* Estimated asbestos content in AF = 0.90g* Total estimated asbestos concentration in AF = 0.13% w/w* Organic fibre detected. No trace asbestos detected.
6C_08	24-Ma0056394	Mar 22, 2024	Approximate Sample 825g Sample consisted of: Brown fine-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.
6C_09	24-Ma0056395	Mar 22, 2024	Approximate Sample 604g Sample consisted of: Brown fine-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.
6C_10	24-Ma0056396	Mar 22, 2024	Approximate Sample 831g Sample consisted of: Black fine-grained clayey sandy soil, bitumen like material and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
6C_11	24-Ma0056397	Mar 22, 2024	Approximate Sample 540g Sample consisted of: Brown fine-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.
6C_12	24-Ma0056398	Mar 22, 2024	Approximate Sample 630g 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.
6C_13	24-Ma0056399	Mar 22, 2024	Approximate Sample 720g Sample consisted of: Brown fine-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.
6C_14	24-Ma0056400	Mar 22, 2024	Approximate Sample 849g Sample consisted of: Brown fine-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.
6C_15	24-Ma0056401	Mar 22, 2024	Approximate Sample 487g / >500ml 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.
6C_16	24-Ma0056402	Mar 22, 2024	Approximate Sample 500g Sample consisted of: Brown fine-grained 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.
QC03	24-Ma0056403	Mar 22, 2024	Approximate Sample 592g 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.
QC04	24-Ma0056404	Mar 22, 2024	Approximate Sample 843g Sample consisted of: Black fine-grained clayey sandy soil, bitumen like material 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, 2024	Indefinite

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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
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
NATA# 2377
Site# 2370

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland	Auckland (Asb)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,
Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: ALDINGTON_04
Project ID: 66105

Order No.:
Report #: 1081006
Phone: 02 8245 0300
Fax:

Received: Mar 22, 2024 6:30 PM
Due: Mar 26, 2024
Priority: 2 Day
Contact Name: Massimo Chapman

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	IX_01	Mar 22, 2024		Soil	S24-Ma0056361	X
2	IX_02	Mar 22, 2024		Soil	S24-Ma0056362	X
3	IX_03	Mar 22, 2024		Soil	S24-Ma0056363	X
4	IX_04	Mar 22, 2024		Soil	S24-Ma0056364	X
5	IX_05	Mar 22, 2024		Soil	S24-Ma0056365	X
6	IX_06	Mar 22, 2024		Soil	S24-Ma0056366	X
7	IX_07	Mar 22, 2024		Soil	S24-Ma0056367	X
8	IX_08	Mar 22, 2024		Soil	S24-Ma0056368	X
9	IX_09	Mar 22, 2024		Soil	S24-Ma0056369	X
10	IX_10	Mar 22, 2024		Soil	S24-Ma0056370	X
11	IX_11	Mar 22, 2024		Soil	S24-Ma0056371	X
12	IX_12	Mar 22, 2024		Soil	S24-Ma0056372	X
13	IX_13	Mar 22, 2024		Soil	S24-Ma0056373	X

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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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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

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ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
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Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland	Auckland (Asb)	Christchurch	Tauranga
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Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
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Sydney
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Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
14	IX_14	Mar 22, 2024		Soil	S24-Ma0056374	X
15	IX_15	Mar 22, 2024		Soil	S24-Ma0056375	X
16	IX_16	Mar 22, 2024		Soil	S24-Ma0056376	X
17	IX_17	Mar 22, 2024		Soil	S24-Ma0056377	X
18	IX_18	Mar 22, 2024		Soil	S24-Ma0056378	X
19	IX_19	Mar 22, 2024		Soil	S24-Ma0056379	X
20	IX_20	Mar 22, 2024		Soil	S24-Ma0056380	X
21	IX_21	Mar 22, 2024		Soil	S24-Ma0056381	X
22	TP09-E	Mar 22, 2024		Soil	S24-Ma0056382	X
23	TP09-S	Mar 22, 2024		Soil	S24-Ma0056383	X
24	TP09-W	Mar 22, 2024		Soil	S24-Ma0056384	X
25	TP09-N	Mar 22, 2024		Soil	S24-Ma0056385	X
26	TP09-B	Mar 22, 2024		Soil	S24-Ma0056386	X
27	6C_01	Mar 22, 2024		Soil	S24-Ma0056387	X
28	6C_02	Mar 22, 2024		Soil	S24-Ma0056388	X
29	6C_03	Mar 22, 2024		Soil	S24-Ma0056389	X

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

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Perth
46-48 Banksia Road
Welshpool
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+61 8 6253 4444
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Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
30	6C_04	Mar 22, 2024		Soil	S24-Ma0056390	X
31	6C_05	Mar 22, 2024		Soil	S24-Ma0056391	X
32	6C_06	Mar 22, 2024		Soil	S24-Ma0056392	X
33	6C_07	Mar 22, 2024		Soil	S24-Ma0056393	X
34	6C_08	Mar 22, 2024		Soil	S24-Ma0056394	X
35	6C_09	Mar 22, 2024		Soil	S24-Ma0056395	X
36	6C_10	Mar 22, 2024		Soil	S24-Ma0056396	X
37	6C_11	Mar 22, 2024		Soil	S24-Ma0056397	X
38	6C_12	Mar 22, 2024		Soil	S24-Ma0056398	X
39	6C_13	Mar 22, 2024		Soil	S24-Ma0056399	X
40	6C_14	Mar 22, 2024		Soil	S24-Ma0056400	X
41	6C_15	Mar 22, 2024		Soil	S24-Ma0056401	X
42	6C_16	Mar 22, 2024		Soil	S24-Ma0056402	X
43	QC03	Mar 22, 2024		Soil	S24-Ma0056403	X
44	QC04	Mar 22, 2024		Soil	S24-Ma0056404	X
Test Counts						44

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**). This estimate is not NATA-accredited.
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	N/A
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Asbestos Counter/Identifier:

Sayeed Abu	Senior Analyst-Asbestos

Authorised by:

Laxman Dias	Senior Analyst-Asbestos

Glenn Jackson
Managing Director

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.: 66105	LABORATORY BATCH NO.:
PROJECT NAME: ALDINGTON ROAD	SAMPLERS: SK
DATE NEEDED BY: SAME DAY TAT	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) ....Stenott.....@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

Same Day TAT

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
TB2_01	Soil	25.3.24		ALL BAGS		X		X	
TB2_02	↓	↓				X		X	
TB2_03						X		X	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Sean Knott DATE: 25.3.24 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: DATE: 25/3/24 4:05 OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP 1.5 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

Controlled Copy (June 2015)

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1081385

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www.eurofins.com.au EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

Eurofins ARL Pty Ltd

ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
NATA# 2377
Site# 2370

Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

Auckland	Auckland (Asb)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,
Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Samuel Knott
Project name:	ALDINGTON ROAD
Project ID:	66105
Turnaround time:	Overnight
Date/Time received	Mar 25, 2024 4:05 PM
Eurofins reference	1081385

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 : 25.3 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:

Andrew Black on phone : (+61) 2 9900 8490 or by email: AndrewBlack@eurofins.com

Results will be delivered electronically via email to Samuel Knott - sknott@jbsg.com.au.

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
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Perth
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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: ALDINGTON ROAD
Project ID: 66105

Order No.:
Report #: 1081385
Phone: 02 8245 0300
Fax:

Received: Mar 25, 2024 4:05 PM
Due: Mar 26, 2024
Priority: Overnight
Contact Name: Samuel Knott

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	1B2 _01	Mar 25, 2024		Soil	S24-Ma0060222	X
2	1B2 _02	Mar 25, 2024		Soil	S24-Ma0060223	X
3	1B2 _03	Mar 25, 2024		Soil	S24-Ma0060224	X
Test Counts						3

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:	Samuel Knott
Report	1081385-AID
Project Name	ALDINGTON ROAD
Project ID	66105
Received Date	Mar 25, 2024
Date Reported	Mar 26, 2024

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 ALDINGTON ROAD
Project ID 66105
Date Sampled Mar 25, 2024
Report 1081385-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
1B2 _01	24-Ma0060222	Mar 25, 2024	Approximate Sample 506g Sample consisted of: Red-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.
1B2 _02	24-Ma0060223	Mar 25, 2024	Approximate Sample 577g Sample consisted of: Red-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.
1B2 _03	24-Ma0060224	Mar 25, 2024	Approximate Sample 549g Sample consisted of: Red-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.

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 25, 2024	Indefinite

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

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ABN: 91 05 0159 898

Perth
46-48 Banksia Road
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Site# 2370

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NZBN: 9429046024954

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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: ALDINGTON ROAD
Project ID: 66105

Order No.:
Report #: 1081385
Phone: 02 8245 0300
Fax:

Received: Mar 25, 2024 4:05 PM
Due: Mar 26, 2024
Priority: Overnight
Contact Name: Samuel Knott

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	1B2 _01	Mar 25, 2024		Soil	S24-Ma0060222	X
2	1B2 _02	Mar 25, 2024		Soil	S24-Ma0060223	X
3	1B2 _03	Mar 25, 2024		Soil	S24-Ma0060224	X
Test Counts						3

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**). This estimate is not NATA-accredited.
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

Authorised by:

Laxman Dias	Senior Analyst-Asbestos

Glenn Jackson
Managing Director

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.: 86105	LABORATORY BATCH NO.:
PROJECT NAME: ALDINGTON – UF2	SAMPLERS: SK
DATE NEEDED BY: Same day	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) ....Sknott.....@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

Same day ASAP

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
UF2_B01	Soil	26/3		Bag				X	
UF2_EW1	↓	↓		↓				X	
UF2_EW2								X	
UF2_EW3								X	
UF2_WW1								X	
UF2_WW2								X	
UF2_WW3								X	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Sam Knott DATE: 26·3·24	CONSIGNMENT NOTE NO.	NAME: Elizabeth Brotherton	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: OF: 26/3 11:34am	N/A
NAME: DATE:	CONSIGNMENT NOTE NO.	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

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1681697

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www.eurofins.com.au EnviroSales@eurofins.com

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ABN: 50 005 085 521

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Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

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ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
NATA# 2377
Site# 2370

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NZBN: 9429046024954

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Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Samuel Knott
Project name:	ALDINGTON_UF2
Project ID:	66105
Turnaround time:	Same day
Date/Time received	Mar 26, 2024 11:34 AM
Eurofins reference	1081697

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.
✓	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 Samuel Knott - sknott@jbsg.com.au.

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: ALDINGTON_UF2
Project ID: 66105

Order No.:
Report #: 1081697
Phone: 02 8245 0300
Fax:

Received: Mar 26, 2024 11:34 AM
Due: Mar 26, 2024
Priority: Same day
Contact Name: Samuel Knott

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	UF2_B01	Mar 26, 2024		Soil	S24-Ma0062347	X
2	UF2_EW1	Mar 26, 2024		Soil	S24-Ma0062348	X
3	UF2_EW2	Mar 26, 2024		Soil	S24-Ma0062349	X
4	UF2_EW3	Mar 26, 2024		Soil	S24-Ma0062350	X
5	UF2_WW1	Mar 26, 2024		Soil	S24-Ma0062351	X
6	UF2_WW2	Mar 26, 2024		Soil	S24-Ma0062352	X
7	UF2_WW3	Mar 26, 2024		Soil	S24-Ma0062353	X
Test Counts						7

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:	Samuel Knott
Report	1081697-AID
Project Name	ALDINGTON_UF2
Project ID	66105
Received Date	Mar 26, 2024
Date Reported	Mar 28, 2024

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 ALDINGTON_UF2
Project ID 66105
Date Sampled Mar 26, 2024
Report 1081697-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
UF2_B01	24-Ma0062347	Mar 26, 2024	Approximate Sample 544g Sample consisted of: Red- brown coarse-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
UF2_EW1	24-Ma0062348	Mar 26, 2024	Approximate Sample 526g Sample consisted of: Red- brown coarse-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
UF2_EW2	24-Ma0062349	Mar 26, 2024	Approximate Sample 437g Sample consisted of: Red- brown coarse-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
UF2_EW3	24-Ma0062350	Mar 26, 2024	Approximate Sample 507g Sample consisted of: Red- brown coarse-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
UF2_WW1	24-Ma0062351	Mar 26, 2024	Approximate Sample 525g Sample consisted of: Red- brown coarse-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
UF2_WW2	24-Ma0062352	Mar 26, 2024	Approximate Sample 478g Sample consisted of: Red- brown coarse-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
UF2_WW3	24-Ma0062353	Mar 26, 2024	Approximate Sample 553g Sample consisted of: Red- brown coarse-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 26, 2024	Indefinite

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: ALDINGTON_UF2
Project ID: 66105

Order No.:
Report #: 1081697
Phone: 02 8245 0300
Fax:

Received: Mar 26, 2024 11:34 AM
Due: Mar 27, 2024
Priority: 1 Day
Contact Name: Samuel Knott

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	UF2_B01	Mar 26, 2024		Soil	S24-Ma0062347	X
2	UF2_EW1	Mar 26, 2024		Soil	S24-Ma0062348	X
3	UF2_EW2	Mar 26, 2024		Soil	S24-Ma0062349	X
4	UF2_EW3	Mar 26, 2024		Soil	S24-Ma0062350	X
5	UF2_WW1	Mar 26, 2024		Soil	S24-Ma0062351	X
6	UF2_WW2	Mar 26, 2024		Soil	S24-Ma0062352	X
7	UF2_WW3	Mar 26, 2024		Soil	S24-Ma0062353	X
Test Counts						7

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**). This estimate is not NATA-accredited.
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

24-Ma0062349 and 24-Ma0062352: 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	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

Authorised by:

Chamath JHM Annakkage	Senior Analyst-Asbestos

Glenn Jackson
Managing Director

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.: 66105	LABORATORY BATCH NO.:
PROJECT NAME: Aldington Dr - 263	SAMPLERS: SK
DATE NEEDED BY: Overnight	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) .....SRnott.....@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

Overnight TAT

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
UF2-EW4	Soil	26.3		A. Bag		1		X	
UF2-EW5						2		X	
UF2-WW4						X		X	
UF2-WW5						7		X	
IE-20A						X		X	
IE-2019A						X		X	
QC260324						7		X	
UF1-01						X		X	
UF1-02						X		X	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Sam Knott DATE: 26.3.24	CONSIGNMENT NOTE NO.	NAME: [illegible]	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 26/3/24 5:30	COOLER TEMP 10.4 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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+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Samuel Knott
Project name:	ALDINGTON-263
Project ID:	66105
Turnaround time:	Overnight
Date/Time received	Mar 26, 2024 5:30 PM
Eurofins reference	1081847

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 Samuel Knott - sknott@jbsg.com.au.

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Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

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+61 8 6253 4444
NATA# 2377
Site# 2370

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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: ALDINGTON-263
Project ID: 66105

Order No.:
Report #: 1081847
Phone: 02 8245 0300
Fax:

Received: Mar 26, 2024 5:30 PM
Due: Mar 27, 2024
Priority: Overnight
Contact Name: Samuel Knott

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	UF2-EW4	Mar 26, 2024		Soil	S24-Ma0063222	X
2	UF2-EW5	Mar 26, 2024		Soil	S24-Ma0063223	X
3	UF2-WW4	Mar 26, 2024		Soil	S24-Ma0063224	X
4	UF2-WW5	Mar 26, 2024		Soil	S24-Ma0063225	X
5	IE-20A	Mar 26, 2024		Soil	S24-Ma0063226	X
6	IE-19A	Mar 26, 2024		Soil	S24-Ma0063227	X
7	QC260324	Mar 26, 2024		Soil	S24-Ma0063228	X
8	UF1-01	Mar 26, 2024		Soil	S24-Ma0063229	X
9	UF1-02	Mar 26, 2024		Soil	S24-Ma0063230	X
Test Counts						9

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:	Samuel Knott
Report	1081847-AID
Project Name	ALDINGTON-263
Project ID	66105
Received Date	Mar 26, 2024
Date Reported	Mar 27, 2024

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 ALDINGTON-263
Project ID 66105
Date Sampled Mar 26, 2024
Report 1081847-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
UF2-EW4	24-Ma0063222	Mar 26, 2024	Approximate Sample 657g 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.
UF2-EW5	24-Ma0063223	Mar 26, 2024	Approximate Sample 576g 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.
UF2-WW4	24-Ma0063224	Mar 26, 2024	Approximate Sample 573g 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.
UF2-WW5	24-Ma0063225	Mar 26, 2024	Approximate Sample 525g 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.
IE-20A	24-Ma0063226	Mar 26, 2024	Approximate Sample 566g 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.
IE-19A	24-Ma0063227	Mar 26, 2024	Approximate Sample 491g 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.
QC260324	24-Ma0063228	Mar 26, 2024	Approximate Sample 647g 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
UF1-01	24-Ma0063229	Mar 26, 2024	Approximate Sample 725.5g Sample consisted of: Brown fine-grained clayey soil, cement and rocks	AF: Chrysotile asbestos detected in fibre cement fragments. Approximate raw weight of AF = 0.0048g* Estimated asbestos content in AF = 0.00048g* Total estimated asbestos concentration in AF = 0.000066% w/w* No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected.
UF1-02	24-Ma0063230	Mar 26, 2024	Approximate Sample 520g Sample consisted of: Brown fine-grained clayey soil, plaster material 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 26, 2024	Indefinite

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	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: ALDINGTON-263
Project ID: 66105

Order No.:
Report #: 1081847
Phone: 02 8245 0300
Fax:

Received: Mar 26, 2024 5:30 PM
Due: Mar 27, 2024
Priority: Overnight
Contact Name: Samuel Knott

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	UF2-EW4	Mar 26, 2024		Soil	S24-Ma0063222	X
2	UF2-EW5	Mar 26, 2024		Soil	S24-Ma0063223	X
3	UF2-WW4	Mar 26, 2024		Soil	S24-Ma0063224	X
4	UF2-WW5	Mar 26, 2024		Soil	S24-Ma0063225	X
5	IE-20A	Mar 26, 2024		Soil	S24-Ma0063226	X
6	IE-19A	Mar 26, 2024		Soil	S24-Ma0063227	X
7	QC260324	Mar 26, 2024		Soil	S24-Ma0063228	X
8	UF1-01	Mar 26, 2024		Soil	S24-Ma0063229	X
9	UF1-02	Mar 26, 2024		Soil	S24-Ma0063230	X
Test Counts						9

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**). This estimate is not NATA-accredited.
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

24-Ma0063227, 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	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
Managing Director

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.: 66105	LABORATORY BATCH NO.:
PROJECT NAME: ALDINGTON – 94	SAMPLERS: SK
DATE NEEDED BY: 24 HR	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) Skmott@jbsg.com.au; (3) C.Kauffman@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

24HR TAT

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
VF1-01A	Soil	9.4.24		As Bag				X	
VF1_02A	↓	↓		↓				X	
FC_07A								X	
QC240409								X	
IX_19A								X	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Sam Knott DATE: 9.4.24	CONSIGNMENT NOTE NO.	NAME: Riham Al Smaydi DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	OF:	N/A COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE: 9/4	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF: 4:40 pm	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

1085660

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ABN: 50 005 085 521

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

Eurofins ARL Pty Ltd

ABN: 91 05 0159 898

Perth
46-48 Banksia Road
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Site# 2370

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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Samuel Knott
Project name:	ALDINGTON-94
Project ID:	66105
Turnaround time:	1 Day
Date/Time received	Apr 9, 2024 4:40 PM
Eurofins reference	1085660

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 Samuel Knott - sknott@jbsg.com.au.

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
NATA# 2377
Site# 2370

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland	Auckland (Asb)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,
Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: ALDINGTON-94
Project ID: 66105

Order No.:
Report #: 1085660
Phone: 02 8245 0300
Fax:

Received: Apr 9, 2024 4:40 PM
Due: Apr 10, 2024
Priority: 1 Day
Contact Name: Samuel Knott

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	UF1_01A	Apr 09, 2024		Soil	S24-Ap0020329	X
2	UF1_02A	Apr 09, 2024		Soil	S24-Ap0020330	X
3	6C_07A	Apr 09, 2024		Soil	S24-Ap0020331	X
4	QC240409	Apr 09, 2024		Soil	S24-Ap0020332	X
5	1X_19A	Apr 09, 2024		Soil	S24-Ap0020333	X
Test Counts						5

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention:	Samuel Knott
Report	1085660-AID
Project Name	ALDINGTON-94
Project ID	66105
Received Date	Apr 09, 2024
Date Reported	Apr 10, 2024

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 ALDINGTON-94
Project ID 66105
Date Sampled Apr 09, 2024
Report 1085660-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
UF1_01A	24-Ap0020329	Apr 09, 2024	Approximate Sample 575g Sample consisted of: Brown fine-grained clayey soil, organic debris and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
UF1_02A	24-Ap0020330	Apr 09, 2024	Approximate Sample 520g Sample consisted of: Brown fine-grained clayey soil, organic debris and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
6C_07A	24-Ap0020331	Apr 09, 2024	Approximate Sample 471g Sample consisted of: Brown fine-grained clayey soil, organic debris and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
QC240409	24-Ap0020332	Apr 09, 2024	Approximate Sample 394g Sample consisted of: Brown fine-grained clayey soil, organic debris and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
1X_19A	24-Ap0020333	Apr 09, 2024	Approximate Sample 477g Sample consisted of: Brown fine-grained clayey soil, organic debris 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	Apr 09, 2024	Indefinite

eurofins

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
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
NATA# 2377
Site# 2370

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland	Auckland (Asb)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,
Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

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Order No.:
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Received: Apr 9, 2024 4:40 PM
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Contact Name: Samuel Knott

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	UF1_01A	Apr 09, 2024		Soil	S24-Ap0020329	X
2	UF1_02A	Apr 09, 2024		Soil	S24-Ap0020330	X
3	6C_07A	Apr 09, 2024		Soil	S24-Ap0020331	X
4	QC240409	Apr 09, 2024		Soil	S24-Ap0020332	X
5	1X_19A	Apr 09, 2024		Soil	S24-Ap0020333	X
Test Counts						5

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**). This estimate is not NATA-accredited.
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

24-Ap0020331 to 24-Ap0020333: 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:

Bennel Jiri	Senior Analyst-Asbestos

Authorised by:

Laxman Dias	Senior Analyst-Asbestos

Glenn Jackson
Managing Director

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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Appendix D QA/QC Assessment

QA/QC Results

The QA/QC result for soil samples collected are summarised in **Table D.1** and discussed below. Detailed QA/QC results are included following the discussion of DQI exceedances below.

Table D.1: QA/QC Results Summary

Data Quality Indicator	Results	DQO met?
Precision		
Blind duplicates (intra laboratory)	0-50% RPDs Intra laboratory samples were analysed at a rate just below the target 1 in 20 samples.	Partial [1]
Blind duplicates (inter laboratory)	0-50% RPDs Inter laboratory were analysed at a rate just below the target 1 in 20 samples.	Partial [1]
Laboratory duplicates	2-18% RPD Laboratory samples were analysed at a rate greater than 1 in 20 samples.	Yes
Accuracy		
Laboratory control samples (LCS)	70-130% recovery Laboratory control samples were completed at a suitable density with respect to laboratory batch size and sample analyses.	Yes
Surrogate spikes	64-68% Surrogate spikes were completed for all organic sample analyses	Partial [1]
Matrix spikes	70-130% recovery Matrix spikes were completed at a suitable density with respect to laboratory batch size and sample analyses.	Yes
Representativeness		
Samples extracted and analysed within holding times	All primary and duplicate samples were extracted within appropriate holding times.	Yes
Sampling appropriate for media and analytes	Samples were collected using appropriate methodology with regard to the sample media (soil) and analytes (volatile, semi-volatile and low volatility organics and inorganics)	Yes
Trip spike	70-130% One completed per sampling event and associated laboratory batch	Yes
Trip blank	<LOR One completed per sampling event and associated laboratory batch	Yes
Rinsate blank	Not required where no re-usable equipment was used	Yes
Laboratory Blank	<LOR One completed per sampling event and associated laboratory batch	Yes

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Data Quality Indicator	Results	DQO met?
Standard operating procedures used for sample collection and handling	Standard operating procedures used as listed in JBS&G (2024) employed for all sampling events and samples collected	Yes
Comparability		
Standard analytical methods used for all analyses	Standard analytical methods used as shown in **Appendix C**	Yes
Consistent field conditions, field staff and laboratories	Sampling was conducted by the same field staff member. Standard operating procedures were implemented throughout the works. Field conditions remained the same throughout the works.	Yes
Limits of reporting appropriate and consistent	Limits of reporting were consistent and appropriate	Yes
Completeness		
Soil description and COCs completed and appropriate	All field documentation and COCs were completed appropriately.	Yes
Appropriate documentation	All field documentation was appropriately completed.	Yes
Satisfactory frequency and result for QC samples	The QC results are considered adequate for the purposes of the investigation	Yes
Data from critical samples	Samples were analysed at locations designed to address the requirements of the RAP such that a suitable validation data set could be established. All critical samples were analysed for appropriate contaminants of concern and the QA/QC assessment confirmed the reliability of this data.	Yes
Sensitivity		
Analytical methods and limits of recovery appropriate for media and adopted site assessment criteria	Analytical methods and limits of recovery were considered appropriate for media and adopted site validation criteria for all soil analytes.	Yes

Notes: 1. See discussion below for notes

Precision

Soil Blind Duplicates (intra laboratory)

The rate of blind duplicate sampling and analysis for asbestos was 6 blind duplicate samples per 129 primary samples, which equates to approximately 1 blind duplicate per 21 primary samples, marginally outside the 1/20 requirement. A slightly reduced frequency for asbestos analysis is considered not to affect the precision of the data set, noting the large sample size given that all analytical data RPDs for all asbestos samples were 0% with no reported asbestos at or below the laboratory LOR in any blind duplicate sample.

The rate of blind duplicate sampling and analysis for TRH, PAH, OCP, PCB and heavy metals was below the nominated frequency. However, chemical analytical data RPDs were all within the DQI for laboratory duplicates.

Soil Split Duplicates (inter laboratory)

The rate of split duplicate sampling and analysis for asbestos was 6 split duplicate samples per 129 primary samples, which equates to approximately 1 blind duplicate per 21 primary samples, marginally outside the 1/20 requirement. A slightly reduced frequency for asbestos analysis is considered not to affect the precision of the data set, noting the large sample size given that all analytical data RPDs for all asbestos samples were 0% with no reported asbestos at or below the laboratory LOR in any split duplicate sample.

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The rate of split duplicate sampling and analysis for TRH, PAH, OCP, PCB and heavy metals was below the nominated frequency. However, chemical analytical data RPDs were all within the DQI for laboratory duplicates.

Laboratory Duplicates

The laboratory completed a total of 1 soil laboratory duplicate sample, within the JBS&G acceptance criteria of 1 in 20 samples. Laboratory duplicates analysed reported RPDs within the JBS&G DQI acceptance range of 0%-50%.

Accuracy

Laboratory Control Samples

A total of 7 soil and 1 water laboratory control samples (LCS) were tested, meeting the DQIs. All LCS were reported as having recoveries within the JBS&G acceptable range of 70-130%.

Surrogate Spikes

Surrogate spikes were conducted in conjunction with organic contaminant analysis of all samples. All surrogate spikes reported recoveries within the JBS&G acceptable range of 70%-130% with the exception of the following:

Lab Report Number	Sample Code	Field ID	Compound	Recovery %
Soil				
1079912	S24-Ma0047766	398_02	4-Bromofluorobenzene (surr.)	64
1079912	S24-Ma0047768	398_04	2-Fluorobiphenyl (surr.)	65
1079912	S24-Ma0047771	398_07	4-Bromofluorobenzene (surr.)	68

The surrogate spike recoveries outside of the target range are not considered to affect the overall reliability of the data set as concentrations in characterisation samples were close to or below the laboratory's LOR and/or within the laboratories NATA accredited limits (50%-150%).

Matrix Spikes

All matrix spikes reported recoveries within the JBS&G acceptable range of 70% – 130%.

Sampling appropriate for media and analytes

All sampling works completed during the investigation were conducted in accordance with JBS&G standard operating procedures as outlined in the Sampling, Analysis, and Quality Plan prepared for the assessment. Sample locations were undertaken for the purposes of visual inspection and/or olfactory assessment of fill/soil conditions and the collection of samples was considered appropriate for identified COPC.

All samples were collected wearing a new pair of disposable nitrile gloves.

Holding Times

Copies of Sample Receipt Notes (SRNs) are included in relevant sections of the report (**Appendix C**) and sample extraction/analysis dates were reported in each laboratory report. All soil analyses were undertaken within appropriate holding times for the respective analytes.

Trip Spike

A trip spike was submitted with characterisation samples which were submitted for chemical constituents collected during the assessment. All trip spike recoveries were generally within the JBS&G acceptable limit of 70%-130%.

Storage Blank

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A storage blank sample was carried during characterisation soil sampling events for chemical constituents and was submitted with the lab batch, meeting the overall nominated frequency thresholds. There were no reported concentrations of BTEX compounds above the laboratory LOR, achieving the nominated DQIs.

Rinsate Blank

A rinsate sample was not required as the sampling events for chemical constituents did not involve the use of re-usable equipment.

Laboratory Blank

One Laboratory blank was completed per sampling event (for chemical constituents) and analytes were all below the laboratory limit of reporting LOR.

Experienced JBS&G personnel undertook all sampling in accordance with standard JBS&G sampling methods.

The laboratory LORs are consistent and are considered appropriate.

Comparability

Eurofins, the primary laboratory, and Envirolab, the secondary laboratory were NATA accredited for all analytical methods used. The laboratories used similar analytical methods and the analytical data was considered to be comparable between the laboratories as indicated by the results of inter-laboratory duplicate analyses. Where different LORs were adopted by the laboratories, the primary laboratory typically had a lower LOR than the secondary laboratory, and as such, consideration of the data set was not impacted.

Furthermore, the samples collected for assessment purposes are considered comparable as all samples were collected by experienced JBS&G personnel in accordance with standard JBS&G sampling methods.

Completeness

Documentation

All laboratory and field documentation is complete and correct. Chain of custody documentation is provided with laboratory reports in **Appendix C.**

Frequency for QC Samples

QC sample frequency DQOs was just below the target for asbestos analyses, and laboratory duplicates were achieved for chemical analysis and therefore the data set is complete and reliable.

Assessment of QA/QC

The field sampling and handling procedures produced QA/QC results which indicate that the collected soil analytical data are of an acceptable quality and suitable for use which respect to characterisation of the assessment area.

The NATA certified laboratory results sheets indicate that the project laboratory was generally achieving levels of performance within its recommended control limits during the period when the samples for this project were analysed.

On the basis of the results of the field and laboratory QA/QC program, the soil data is of an acceptable quality in order to achieve the objectives of the validation assessment.

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Table D.1 - Field Duplicates
Project Number: 66105
Project Name: Aldington Road, Kemps Creek

Field Duplicates (SOIL)
Filter: SDG in('1085660',

SDG	1085660	1085660		1080742	1080742		1080742	1080742		1081006	1081006		1081006	1081006	
Field ID	1X_19A	QC240409	**RPD**	1A-01	QC01	**RPD**	1B-10	QC02	**RPD**	IX_01	QC03	**RPD**	6C_01	QC04	**RPD**
Sampled Date/Time	9/04/2024	9/04/2024		21/03/2024	21/03/2024		21/03/2024	21/03/2024		22/03/2024	22/03/2024		22/03/2024	22/03/2024	
Chem_Grou	**ChemName**	**Units**	**EQL**														
Asbestos - E	Approximat	g		477	394	19	701	752	7	786	987	23	617	592	4	765	843	10
	Mass ACM	g		0.0E0	0.0E0	0	0.0E0	0.0E0	0	0.0E0	0.0E0	0	0.0E0	0.0E0	0	0.0E0	0.0E0	0
	Mass Asbes	g		0.0E0	0.0E0	0	0.0E0	0.0E0	0	0.0E0	0.0E0	0	0.0E0	0.0E0	0	0.0E0	0.0E0	0
	Asbestos fr	% (w/w)		0.0E0	0.0E0	0	0.0E0	0.0E0	0	0.0E0	0.0E0	0	0.0E0	0.0E0	0	0.0E0	0.0E0	0
	Mass FA	g		0.0E0	0.0E0	0	0.0E0	0.0E0	0	0.0E0	0.0E0	0	0.0E0	0.0E0	0	0.0E0	0.0E0	0
	Mass Asbes	g		0.0E0	0.0E0	0	0.0E0	0.0E0	0	0.0E0	0.0E0	0	0.0E0	0.0E0	0	0.0E0	0.0E0	0
	Mass AF	g		0.0E0	0.0E0	0	0.0E0	0.0E0	0	0.0E0	0.0E0	0	0.0E0	0.0E0	0	0.0E0	0.0E0	0
	Mass asbest	g		0.0E0	0.0E0	0	0.0E0	0.0E0	0	0.0E0	0.0E0	0	0.0E0	0.0E0	0	0.0E0	0.0E0	0
	Asbestos fr	% (w/w)		0.0E0	0.0E0	0	0.0E0	0.0E0	0	0.0E0	0.0E0	0	0.0E0	0.0E0	0	0.0E0	0.0E0	0
	Mass Asbes	g		0.0E0	0.0E0	0	0.0E0	0.0E0	0	0.0E0	0.0E0	0	0.0E0	0.0E0	0	0.0E0	0.0E0	0
	ACM - Com	Comment		1	1	0	1	1	0	1	1	0	1	1	0	1	1	0
	FA- Comme	Comment		1	1	0	1	1	0	1	1	0	1	1	0	1	1	0
	AF - Comme	Comment		1	1	0	1	1	0	1	1	0	1	1	0	1	1	0
	Organic Fib	Comment		1	1	0	1	1	0	1	1	0	1	1	0	1	1	0
	Respirable F	Comment		1	1	0	1	1	0	1	1	0	0.0E0	1	200	1	1	0
	Synthetic Fi	Comment		1	1	0	1	1	0	1	1	0	1	1	0	1	1	0
	Asbestos Re	Comment		1	1	0	1	1	0	1	1	0	1	1	0	1	1	0

*RPDs have only been considered where a concentration is greater than 1 times the EQL.
**High RPDs are in bold (Acceptable RPDs for each EQL multiplier range are: 30 (1-10 x EQL); 30 (10-30 x EQL); 30 (> 30 x EQL))
***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those used in the primary laboratory

Table D.1 - Field Duplicates
Project Number: 66105
Project Name: Aldington Road, Kemps Creek

Field Duplicates (SOIL)
Filter: SDG in('1085660',

SDG	1081847	1081847		1080742	ENVIROLAB 2024-03-22T00:00:00		1080742	ENVIROLAB 2024-03-22T00:00:00	
Field ID	UF2-WW4	QC260324	**RPD**	1A-01	QA01	**RPD**	1B-10	QA02	**RPD**
Sampled Date/Time	26/03/2024	26/03/2024		21/03/2024	21/03/2024		21/03/2024	21/03/2024	

Chem_Grou	ChemName	Units	EQL									
Asbestos - E	Approximat	g		573	647	12	701			786		
	Mass ACM	g		0.0E0	0.0E0	0	0.0E0			0.0E0		
	Mass Asbes	g		0.0E0	0.0E0	0	0.0E0			0.0E0		
	Asbestos fr	% (w/w)		0.0E0	0.0E0	0	0.0E0			0.0E0		
	Mass FA	g		0.0E0	0.0E0	0	0.0E0			0.0E0		
	Mass Asbes	g		0.0E0	0.0E0	0	0.0E0			0.0E0		
	Mass AF	g		0.0E0	0.0E0	0	0.0E0			0.0E0		
	Mass asbest	g		0.0E0	0.0E0	0	0.0E0			0.0E0		
	Asbestos fr	% (w/w)		0.0E0	0.0E0	0	0.0E0			0.0E0		
	Mass Asbes	g		0.0E0	0.0E0	0	0.0E0			0.0E0		
	ACM - Com	Comment		1	1	0	1			1		
	FA- Comme	Comment		1	1	0	1			1		
	AF - Comme	Comment		1	1	0	1			1		
	Organic Fibr	Comment		1	1	0	1			1		
	Respirable F	Comment		1	1	0	1			1		
	Synthetic Fi	Comment		1	1	0	1			1		
	Asbestos Re	Comment		1	1	0	1			1		

*RPDs have only been considered where a concentration is great
**High RPDs are in bold (Acceptable RPDs for each EQL multiplie
***Interlab Duplicates are matched on a per compound basis as

Table D.1 - Field Duplicates
Project Number: 66105
Project Name: Aldington Road, Kemps Creek

Field Duplicates (SOIL)
Filter: SDG in('1085660',

SDG	1081006	ENVIROLAB 2024-03-27T00:00:00		1081006	ENVIROLAB 2024-03-27T00:00:00		1081847	ENVIROLAB 2024-03-28T00:00:00		1085660	ENVIROLAB 2024-04-10T00:00:00	
Field ID	IX_01	QA03	**RPD**	6C_01	QA04	**RPD**	UF2-WW4	QA260324	**RPD**	1X_19A	QA240409	**RPD**
Sampled Date/Time	22/03/2024	22/03/2024		22/03/2024	22/03/2024		26/03/2024	26/03/2024		9/04/2024	9/04/2024	

Chem_Grou	ChemName	Units	EQL											
Asbestos - E	Approximat	g		617			765			573			477		
	Mass ACM	g		0.0E0			0.0E0			0.0E0			0.0E0		
	Mass Asbes	g		0.0E0			0.0E0			0.0E0			0.0E0		
	Asbestos fr	% (w/w)		0.0E0			0.0E0			0.0E0			0.0E0		
	Mass FA	g		0.0E0			0.0E0			0.0E0			0.0E0		
	Mass Asbes	g		0.0E0			0.0E0			0.0E0			0.0E0		
	Mass AF	g		0.0E0			0.0E0			0.0E0			0.0E0		
	Mass asbest	g		0.0E0			0.0E0			0.0E0			0.0E0		
	Asbestos fr	% (w/w)		0.0E0			0.0E0			0.0E0			0.0E0		
	Mass Asbes	g		0.0E0			0.0E0			0.0E0			0.0E0		
	ACM - Com	Comment		1			1			1			1		
	FA- Comme	Comment		1			1			1			1		
	AF - Comme	Comment		1			1			1			1		
	Organic Fib	Comment		1			1			1			1		
	Respirable F	Comment		0.0E0			1			1			1		
	Synthetic Fi	Comment		1			1			1			1		
	Asbestos Re	Comment		1			1			1			1		

*RPDs have only been considered where a concentration is great
**High RPDs are in bold (Acceptable RPDs for each EQL multiplie
***Interlab Duplicates are matched on a per compound basis as

Appendix E Waste Classification Documentation

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JBS&G 66105/ 158427
L003 - In-Situ Waste Classification, Asbestos Impacted Material TP460, TP463 Rev A.

19 March 2024

Monica Ngo
Frasers Property Industrial Pty Ltd

In-Situ Waste Classification, Asbestos Impacted Material at TP460 and TP463, Edge South Development, Aldington Road, Kemps Creek (Rev A)

Dear Monica,

JBS&G Australia Pty Ltd (JBS&G) was engaged by Frasers Property Industrial Pty Ltd (FPI, the client) to provide a waste classification for off-site disposal of material associated with the excavation and removal of ACM impacted fill material within a portion of Lot 25 designated as area 1f/3c, within the eastern section of the Edge South Development, 199 Aldington Road, Kemps Creek, NSW (the site). Asbestos in the form of ACM was detected in two test pits (TP460 and TP463). The location of the site and material (to which this waste classification pertains) are shown on **Figures 1** and **2** respectively (**Attachment 2**).

Details of the site, material encountered, and waste classification are provided below. The limitations included in **Attachment 1** apply to the advice provided herein.

1. Site and Assessment Area Legal Identifiers and Owner

Site Lot/DP and Address	Lot 33/ DP 258949 155 to 167 Aldington Road, Kemps Creek, NSW, 2178 Lot 28/ DP 255560 169 to 181 Aldington Road, Kemps Creek, NSW, 2178 Lot 27/ DP 255560 183 to 197 Aldington Road, Kemps Creek, NSW, 2178 Lot 26/ DP 255560 199 Aldington Road, Kemps Creek, NSW, 2178 Lot 25/ DP 255560 201 to 217 Aldington Road, Kemps Creek, NSW, 2178 Lot 24/DP 255560 219 to 233 Aldington Road, Kemps Creek, NSW 2178 Lot 10/DP 253503 235 to 251 Aldington Road, Kemps Creek, NSW 2178
Site (waste) Occupant	Frasers Property Industrial Pty Ltd
Local Government Authority	Penrith City Council
Site Area (total)	63.6
Investigation Area	Eastern section of the site as shown in **Figure 2**, being approximately 3,300 m^2 in area.

2. Consultant Preparing Waste Classification

Name	JBS&G Australia Pty Ltd
Australian Business Number (ABN)	62 100 220 479
Address	Level 1, 50 Margaret Street, Sydney, NSW 2000.
Person(s) Providing Waste Classification	Samuel Knott

3. Desktop Review

Site Setting	The portion of the site in which the materials are located was observed to comprise agricultural uses of grazing and horticulture, as well as being

	previously occupied by high voltage transmission lines which are no longer present. The site and surrounding areas largely comprise a mixture of agricultural and rural residential properties, as well as a construction site opposite 219-233 Aldington Road.
Production History of Materials	Materials the subject of this waste classification comprise in-situ fill (of unknown origin) which is proposed to be excavated to remove identified asbestos, as shown on **Figure 2** (**Attachment 2**). This advice specifically relates to material identified in TP460 and TP463, within the area marked in green and purple stripes (1f/3c) on **Figure 2**, where asbestos containing material (ACM) was identified during site investigation activities as discussed herein.
Acid Sulfate Soil (ASS)	Review of data using the SEED[1] tool, indicates the area occupied by the site is within an area not assessed for the presence of Acid Sulfate Soils (ASS). Such sites are identified by default, as areas where land management activities are not likely to be affected by ASS materials.
Potential Contaminating Activities?	Potentially contaminating activities identified during the site assessment include the previous importation and placement of fill materials across the site to establish current site levels, (poor) demolition of previous structures on site, potential impacts associated with former agricultural land uses (i.e. residences, sheds and roading), and stockpiling of wastes associated with residences and agricultural practices.

4. Material Characterisation and Sampling Rationale

Area/GPS Coordinates	See **Figure 1** and **2** (**Attachment 2**) for approximate location of the Assessment Area and sampling locations.
Estimated volume (m3)	Approximately 150 m^3 within the 1f/3c area, as shown in **Figure 2**.
Sampling Method	A total of 16 sample locations (TP449 to TP464 and BH43) were completed across the Assessment Area 1f/3c as part of assessment works undertaken during April 2021, as documented in JBS&G (2021[2]). Test pits were advanced utilising an excavator and/or backhoe and soil samples were collected directly from the bucket at regular intervals from the surface soils (<0.1 m), then at a minimum of every metre interval to maximum depth of 4.7 m bgs. At one location, a borehole was manually advanced via the use of hand tools (hand auger/shovel) and samples were collected at regular intervals from the surface soils (<0.1 m) to a maximum depth of 1.2 m bgs. Representative samples were collected via a gloved hand using a fresh pair of disposable nitrile gloves at each sample location and placed into laboratory supplied jars and bags. During sample collection material was inspected for any potential indicators of contamination including staining, odours or asbestos containing material (ACM). All samples were immediately placed into a chilled esky prior to delivery to the laboratory under appropriate chain of custody (COC) procedures.
Material Identification	Review of JBS&G field observations and the borehole logs has identified the in-situ fill material within the Assessment Area was generally characterised as a heterogenous brown – dark grey, silty sandy clay or clayey silt with inclusions of concrete, building & demolition waste, potential ACM fragments, trace igneous gravels and rootlets. No odours or discolouration/staining were observed throughout the fill material, including odours or features (i.e. jarosite, sulfidic ores, shell material, and/or staining) which may indicate the presence of ASS.

1 https://www.seed.nsw.gov.au/ accessed 12 April 2021

2 *Frasers Property Industrial Constructions Pty Ltd Detailed Site Investigation, Aldington Road Estate 155-167, 169-181, 183-197, 199 and 201-217, Aldington Road, Kemps Creek, NSW,* dated 11 August 2021, reference: 60482/137852 (Rev 2), JBS&G Australia Pty Ltd (JBS&G 2021)

Visible Signs of Contamination?	No
Visible ACM?	Yes
Visible Putrescible Material?	No
Number of Samples and Sample IDs	The JBS&G sampling activities included a total of 8 primary soil samples from 16 sampling locations submitted for laboratory analysis for chemical contaminants of potential concern (COPC). All 16 locations were assessed for asbestos. The analytical summary tables are presented as **Tables A**, and **B** (**Attachment 4**), with laboratory reports provided in **Attachment 5.**
Rational for Sampling Design	JBS&G undertook sampling in general accordance with the guidance for systematic grid-based sampling provided in EPA (2022[3]) *Sampling design part 1 – application, Contaminated Land Guidelines*, whereby a minimum of 11 approximately evenly spaced sampling locations are required to characterise an area of up to 0.4 ha. Samples were selected for analysis based on the anticipated depth of material potentially requiring off-site disposal, and where distinct lithologies were encountered. A total of 8 samples were analysed from the Assessment Area, and all locations (16) were quantified for asbestos. This is considered appropriate to characterise the fill material consistent with the requirements of EPA (2022), and provides a basis for assessment of materials in relation to EPA (2014[4]). On this basis, the samples collected herein are considered to have appropriately characterised the material such that decisions may be made regarding a waste classification as per requirements.
QA/QC Assessment	A trip spike and blank were sent with the samples to ensure there was no loss of volatile organic compounds (VOCs) during transport, where analysis for VOCs was undertaken. The field sampling and handling procedures produced quality assurance (QA) and quality control (QC) results which indicate that the collected soil analytical data are of an acceptable quality and suitable for use as part of the waste classification assessment. The NATA certified laboratory results sheets indicate that the project laboratory was generally achieving levels of performance within its recommended control limits during the period when the samples for this project were analysed. On the basis of the results of the field and laboratory QA/QC program, the soil data is of an acceptable quality in order to achieve the objectives of the current assessment.
Toxicity Characteristic Leaching Procedure (TCLP) Samples	No
Sampling Date	JBS&G sampling event(s): 8 April 2021, 9 April 2021

5. Laboratory Analysis

Laboratory	Primary Laboratory: Eurofins
All laboratory methods NATA certified?	Yes

[3] *Contaminated Land Guidelines, Sampling design part 1 – application*, NSW Environment Protection Authority, August 2022 (EPA 2022)

[4] *Waste Classification Guidelines Part 1: Classifying Waste,* NSW EPA (2014).

Contaminants of Concern	Total recoverable hydrocarbons (TRH), Total petroleum hydrocarbons (TPH), benzene, toluene, ethylbenzene and xylenes (BTEX), benzo(a)pyrene, polycyclic aromatic hydrocarbons (PAH), Herbicides & Fungicides, heavy metals (As, Cd, Cr, Pb, Hg, Ni), Asbestos and phenols.
Laboratory Report Attached?	Yes (**Attachment 5**)
Additional Data Sources?	No
Is the material covered by a General Immobilisation Approval?	No
Discussion of Results	A review of the laboratory analysis results has identified that contaminant concentrations in the Assessment Area were reported as consistently low, and below the contaminant threshold (CT1) for general solid waste (GSW) in the *NSW EPA (2014) Waste Classification Guidelines – Part 1: Classifying Waste*. However, asbestos in the form of ACM was observed at two location (TP460 2.0-3.0 and TP463 0.8-1.8), with laboratory analysis confirming Chrysotile in TP463 0.8-1.8. Detailed laboratory results are provided in **Attachment 5**.

6. Waste Classification

Waste Classification	**Special Waste (Asbestos) mixed with General Solid Waste (GSW) non-putrescible** This waste classification only applies to the materials at sample location TP460 and TP463.
Does 'Special Waste' apply?	Yes – Asbestos Waste The waste classification described herein only applies asbestos impacted materials observed at TP460 and TP463.
Is the Material Classified as 'Hazardous Waste'?	No
Classification Comments	Should the material requiring off-site disposal be inconsistent with those described herein, additional assessment may be required, and JBS&G should be contacted to reassess the material prior to disposal. Additionally, it is recommended that JBS&G be present onsite during removal and disposal of asbestos contaminated fill materials described herein to ensure appropriate removal of impacted materials.
Disposal Comments	Waste must be transported by an appropriately licensed transporter and disposed to a facility that is licensed to receive that class of waste. Waste must be managed in accordance with relevant guidelines and regulations during loading, transport, unloading and disposal.

Notes

1. The estimated volume of waste is an indicative estimate only based on either client-supplied data or field observations including estimated elevation, extent and/or depths. For material characterised in-situ, a bulking factor may be applied.
2. Material observations including those relating to visible ACM and putrescible materials were made prior to material leaving the source site.
3. Wastes that are generally classified as putrescible include: green waste, agricultural, forestry and crop materials, and natural fibrous organic and vegetative materials, as per EPA (2014) *Waste Classification Guidelines, Part 1: Classifying Waste*.
4. Materials have been classified in accordance with EPA (2014) *Waste Classification Guidelines, Part 1: Classifying Waste*.
5. The disposal Facility or Facilities must be appropriately licensed under Schedule 1, Section 39; "Waste Disposal (Application to Land)", of the *Protection of the Environment Operations (POEO) Act 1997*. Disposal of 'Asbestos Waste', as defined under the Act and associated Waste Guidelines, is required to be managed in accordance with the *Protection of the Environment Operations (Waste) Regulation 2014* in terms of loading, transport, unloading and disposal. The *POEO Act 1997* states that if waste is transported to a facility not lawfully authorised as a waste facility for that waste, the owner, transporter and receiver of the waste are each guilty of an offence. The owner of waste includes, in relation to waste that has been transported, the person who was the owner of the waste immediately before it was transported. There are special considerations for transport and management including disposal of asbestos waste under the POEO (Waste) Regulation, including tracking and reporting of asbestos waste using NSW EPA Integrated Waste Tracking Solution (IWTS).

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

Your Sincerely:

Sam Knott
Environmental Consultant
JBS&G Australia Pty Ltd

Reviewed/Approved by:

Seth Molinari
Senior Principal
JBS&G Australia Pty Ltd

Attachments:

(1) Limitations
(2) Figures
(3) Tables
(4) Laboratory Analysis Report and COCs
(5) JBS&G Logs

Attachment 1 – 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 2 – Figures

Legend

Approximate Site Boundary

JBS&G

Job No: 66105	
Client: Frasers Property Australia	
Version: R01 Rev B	Date 15/08/2023
Drawn By: IA	Checked By: RH

Scale 1:20,000

0 190 380

metres

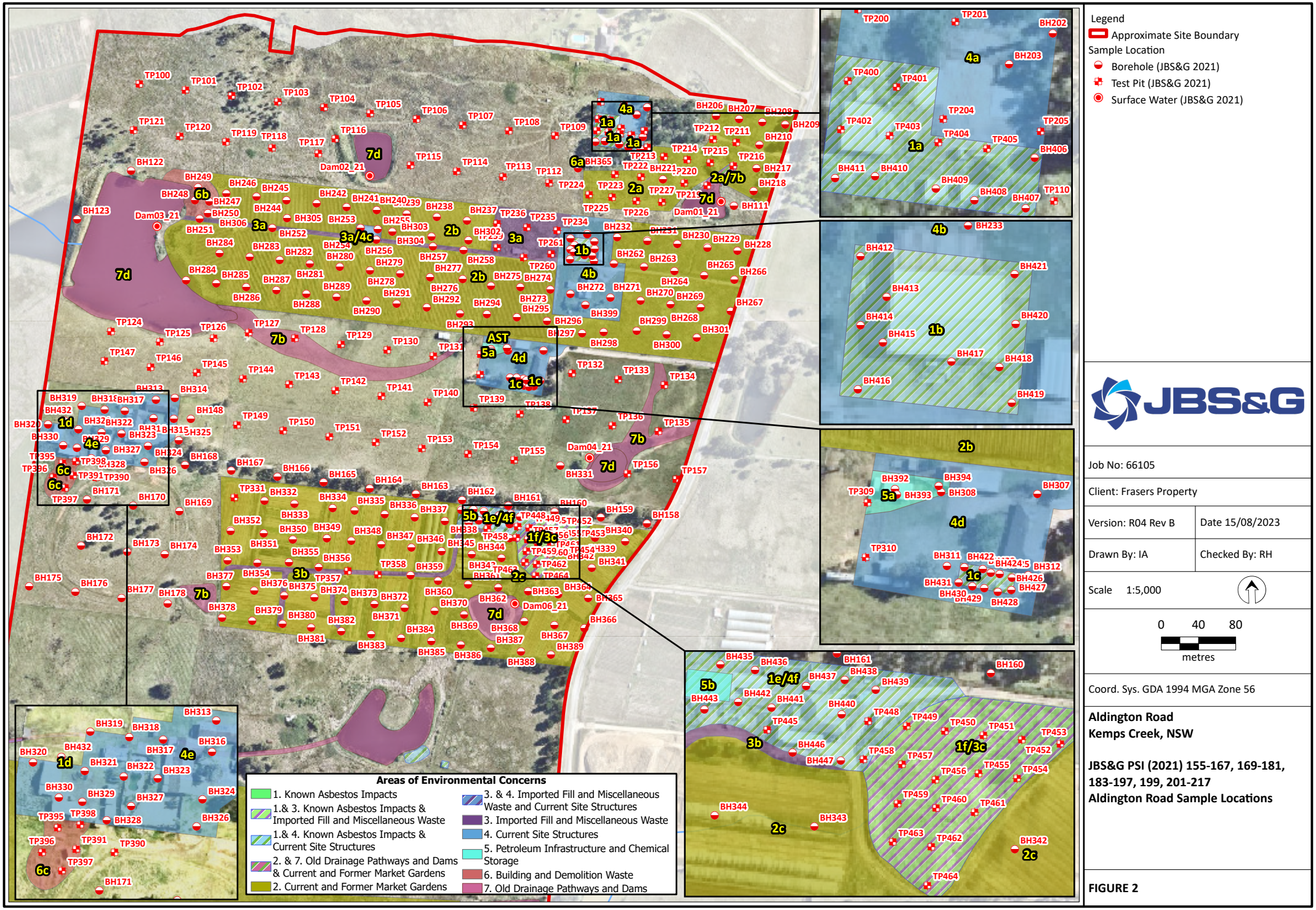
Coord. Sys. GDA 1994 MGA Zone 56

Aldington Road
Kemps Creek, NSW

SITE LOCATION

FIGURE 1

File Name: 65376_KempsCreek_FrasersProperty_R04
Reference: © OpenStreetMap (and) contributors, CC-BY-SA



Legend

Approximate Site Boundary

Sample Location

- Borehole (JBS&G 2021)
- Test Pit (JBS&G 2021)
- Surface Water (JBS&G 2021)

JBS&G

Job No: 66105

Client: Frasers Property

Version: R04 Rev B	Date 15/08/2023
Drawn By: IA	Checked By: RH

Scale 1:5,000

0 40 80

metres

Coord. Sys. GDA 1994 MGA Zone 56

Aldington Road
Kemps Creek, NSW

JBS&G PSI (2021) 155-167, 169-181, 183-197, 199, 201-217
Aldington Road Sample Locations

FIGURE 2

File Name: 65376_KempsCreek_FrasersProperty_R04
Reference: Nearmap - www.nearmap.com (Capture Date: 2021/10/17)

Attachment 3 - Tables

Table A - Soil
Project Number: 66105
Project Name: Aldington Road

	Metals & Metalloids								TPHs (NEPC 1999)					TRHs (NEPC 2013)								BTEXN						
	Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc	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 - MAH
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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	5	5	5	0.1	5	5	20	20	50	50	50	20	50	100	100	100	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	4	40		650				10000								10	288	600			1000	
TP449 0.3-0.9	8/04/2021	786610	1f/3c	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP449 1.2-1.3	8/04/2021	786610	1f/3c	Clay	12	<0.4	21	23	28	<0.1	7.2	30	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
TP450 2-2.5	8/04/2021	786610	1f/3c	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP451 1-2	8/04/2021	786610	1f/3c	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP452 1.1-1.2	8/04/2021	786610	1f/3c	Fill	11	<0.4	21	24	29	<0.1	9.7	33	<100	<20	<50	<50	<50	<100	<50	<100	<100	<100	<100	<50	<0.5	<0.5	<0.5	<0.5	<1	<1.5	<2.5
TP452 1-2	8/04/2021	786610	1f/3c	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP452 2.4-2.5	8/04/2021	786610	1f/3c	Clay	9.5	<0.4	20	18	23	<0.1	7.1	23	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
TP453 0-0.9	9/04/2021	786604	1f/3c	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP454 0.7-1.2	8/04/2021	786610	1f/3c	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP454 1.4-1.5	8/04/2021	786610	1f/3c	Clay	8.5	<0.4	15	23	12	<0.1	11	41	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
TP456 0-0.1	8/04/2021	786610	1f/3c	Fill	13	<0.4	24	35	25	<0.1	16	58	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
TP456 2.8-3	8/04/2021	786610	1f/3c	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP457 2.5-2.6	8/04/2021	786610	1f/3c	Clay	5.9	<0.4	11	35	17	<0.1	11	63	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP457 2-2.5	8/04/2021	786610	1f/3c	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP459 1.4-2.4	8/04/2021	786610	1f/3c	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP460 2-2.6	8/04/2021	786610	1f/3c	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP461 1-2	8/04/2021	786610	1f/3c	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP461 2.4-2.5	8/04/2021	786610	1f/3c	Clay	8.7	<0.4	19	27	15	<0.1	15	45	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
TP462 2-3	9/04/2021	786604	1f/3c	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP463 0.8-1.8	9/04/2021	786604	1f/3c	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP463 1.8-2.8	9/04/2021	790320	1f/3c	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP463 2.8-3.8	9/04/2021	786604	1f/3c	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP463 4.3-4.4	9/04/2021	786604	1f/3c	Clay	14	<0.4	23	59	23	<0.1	29	110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP464 1.6-2.3	9/04/2021	786604	1f/3c	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Data Comments
#1 No asbestos detected at the reporting limit of 0.001% w/w.*Organic fibre detected.No trace asbestos detected.
#2 No respirable fibres detected.
#3 Chrysotile asbestos detected.
#4 Organic fibres detected.
#5 60x40x5
#6 Nil

Table A - Soil
Project Number: 66105
Project Name: Aldington Road

	PAH																					Phenols	Herbicides & Fungicides									
	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(a)pyrene TEQ (LOR)	Benzo(a)pyrene TEQ calc (Half)	Benzo(a)pyrene TEQ calc (Zero)	Benzo(b+j)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene - PAH	Phenanthrene	Pyrene	PAHs (Sum of total)	4,6-Dinitro-2-methylphenol	2,4,5-TP (Silvex)	2,4,5-Trichlorophenoxy Acetic Acid	2,4-Dichlorprop	2-Methyl-4-Chlorophenoxy Butanoic Acid	2-Methyl-4-chlorophenoxyacetic acid	4-(2,4-Dichlorophenoxy)butyric Acid (2,4-DB)	Dicamba	Dinoseb	Hedonal	Mecoprop
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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	0.5	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	0.5	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
NSW 2014 General Solid Waste CT1 (No Leaching)					0.8																										200	

Field_ID	Sampled_Date_Time	Lab_Report_Number	Monitoring_Zone	Matrix_Description																														
TP449 0.3-0.9	8/04/2021	786610	1f/3c	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP449 1.2-1.3	8/04/2021	786610	1f/3c	Clay	<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	-	-	-	-	-	-	-	-	-	-	-
TP450 2-2.5	8/04/2021	786610	1f/3c	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP451 1-2	8/04/2021	786610	1f/3c	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP452 1.1-1.2	8/04/2021	786610	1f/3c	Fill	<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	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP452 1-2	8/04/2021	786610	1f/3c	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP452 2.4-2.5	8/04/2021	786610	1f/3c	Clay	<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	-	-	-	-	-	-	-	-	-	-	-
TP453 0-0.9	9/04/2021	786604	1f/3c	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP454 0.7-1.2	8/04/2021	786610	1f/3c	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP454 1.4-1.5	8/04/2021	786610	1f/3c	Clay	<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	-	-	-	-	-	-	-	-	-	-	-
TP456 0-0.1	8/04/2021	786610	1f/3c	Fill	<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	-	-	-	-	-	-	-	-	-	-	-
TP456 2.8-3	8/04/2021	786610	1f/3c	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP457 2.5-2.6	8/04/2021	786610	1f/3c	Clay	<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	-	-	-	-	-	-	-	-	-	-	-
TP457 2-2.5	8/04/2021	786610	1f/3c	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP459 1.4-2.4	8/04/2021	786610	1f/3c	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP460 2-2.6	8/04/2021	786610	1f/3c	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP461 1-2	8/04/2021	786610	1f/3c	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP461 2.4-2.5	8/04/2021	786610	1f/3c	Clay	<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	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP462 2-3	9/04/2021	786604	1f/3c	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP463 0.8-1.8	9/04/2021	786604	1f/3c	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP463 1.8-2.8	9/04/2021	790320	1f/3c	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP463 2.8-3.8	9/04/2021	786604	1f/3c	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP463 4.3-4.4	9/04/2021	786604	1f/3c	Clay	<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	-	-	-	-	-	-	-	-	-	-	-
TP464 1.6-2.3	9/04/2021	786604	1f/3c	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Data Comments
#1 No asbestos detected at the reporting limit of 0.001% w/w.*Organic fibre detected.No trace asbestos detecte
#2 No respirable fibres detected.
#3 Chrysotile asbestos detected.
#4 Organic fibres detected.
#5 60x40x5
#6 Nil

Table A - Soil
Project Number: 66105
Project Name: Aldington Road

	Borehole Logging	Asbestos - Eurofins																			Other	
	PID	Approximate Sample Mass	Asbestos Sample Dimensions	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	ACM - Comment	FA- Comment	AF - Comment	Organic Fibres - Comment	Respirable Fibres - Comment	Synthetic Fibres - Comment	Asbestos Reported Result	Moisture Content (dried @ 103°C)	Actril (loxynil)
	ppm	g	Comment	g	g	% (w/w)	g	g	g	g	% (w/w)	g	Comment	Comment	Comment	Comment	Comment	Comment	Comment	%	mg/kg
EQL																				1	0.5
NSW 2014 General Solid Waste CT1 (No Leaching)																					

Field_ID	Sampled_Date_Time	Lab_Report_Number	Monitoring_Zone	Matrix_Description																				
TP449 0.3-0.9	8/04/2021	786610	1f/3c	Fill	-	478	-	0	0	0	0	0	0	0	0	0	1[#6]	1[#6]	1[#6]	1[#4]	1[#2]	1[#6]	1[#1]	-	-
TP449 1.2-1.3	8/04/2021	786610	1f/3c	Clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24	-
TP450 2-2.5	8/04/2021	786610	1f/3c	Fill	-	404	-	0	0	0	0	0	0	0	0	0	1[#6]	1[#6]	1[#6]	1[#4]	1[#2]	1[#6]	1[#1]	-	-
TP451 1-2	8/04/2021	786610	1f/3c	Fill	-	522	-	0	0	0	0	0	0	0	0	0	1[#6]	1[#6]	1[#6]	1[#4]	1[#2]	1[#6]	1[#1]	-	-
TP452 1.1-1.2	8/04/2021	786610	1f/3c	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27	<0.5
TP452 1-2	8/04/2021	786610	1f/3c	Fill	-	435	-	0	0	0	0	0	0	0	0	0	1[#6]	1[#6]	1[#6]	1[#4]	1[#2]	1[#6]	1[#1]	-	-
TP452 2.4-2.5	8/04/2021	786610	1f/3c	Clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31	-
TP453 0-0.9	9/04/2021	786604	1f/3c	Fill	-	319	-	0	0	0	0	0	0	0	0	0	1[#6]	1[#6]	1[#6]	1[#4]	1[#2]	1[#6]	1[#1]	-	-
TP454 0.7-1.2	8/04/2021	786610	1f/3c	Fill	-	442	-	0	0	0	0	0	0	0	0	0	1[#6]	1[#6]	1[#6]	1[#4]	1[#2]	1[#6]	1[#1]	-	-
TP454 1.4-1.5	8/04/2021	786610	1f/3c	Clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20	-
TP456 0-0.1	8/04/2021	786610	1f/3c	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	-
TP456 2.8-3	8/04/2021	786610	1f/3c	Fill	-	418	-	0	0	0	0	0	0	0	0	0	1[#6]	1[#6]	1[#6]	1[#4]	1[#2]	1[#6]	1[#1]	-	-
TP457 2.5-2.6	8/04/2021	786610	1f/3c	Clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	-
TP457 2-2.5	8/04/2021	786610	1f/3c	Fill	-	405	-	0	0	0	0	0	0	0	0	0	1[#6]	1[#6]	1[#6]	1[#4]	1[#2]	1[#6]	1[#1]	-	-
TP459 1.4-2.4	8/04/2021	786610	1f/3c	Fill	-	522	-	0	0	0	0	0	0	0	0	0	1[#6]	1[#6]	1[#6]	1[#6]	1[#2]	1[#6]	1[#1]	-	-
TP460 2-2.6	8/04/2021	786610	1f/3c	Fill	-	525	-	0	0	0	0	0	0	0	0	0	1[#6]	1[#6]	1[#6]	1[#4]	1[#2]	1[#6]	1[#1]	-	-
TP461 1-2	8/04/2021	786610	1f/3c	Fill	-	470	-	0	0	0	0	0	0	0	0	0	1[#6]	1[#6]	1[#6]	1[#4]	1[#2]	1[#6]	1[#1]	-	-
TP461 2.4-2.5	8/04/2021	786610	1f/3c	Clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	<0.5
TP462 2-3	9/04/2021	786604	1f/3c	Fill	-	487	-	0	0	0	0	0	0	0	0	0	1[#6]	1[#6]	1[#6]	1[#4]	1[#2]	1[#6]	1[#1]	-	-
TP463 0.8-1.8	9/04/2021	786604	1f/3c	Fill	-	48	1[#5]	0	0	0	0	0	0	0	0	0	1[#6]	1[#6]	1[#6]	1[#6]	1[#6]	1[#6]	1[#3]	-	-
TP463 1.8-2.8	9/04/2021	790320	1f/3c	Fill	-	650	-	0	0	0	0	0	0	0	0	0	1[#6]	1[#6]	1[#6]	1[#4]	1[#2]	1[#6]	1[#1]	-	-
TP463 2.8-3.8	9/04/2021	786604	1f/3c	Fill	-	488	-	0	0	0	0	0	0	0	0	0	1[#6]	1[#6]	1[#6]	1[#4]	1[#2]	1[#6]	1[#1]	-	-
TP463 4.3-4.4	9/04/2021	786604	1f/3c	Clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20	-
TP464 1.6-2.3	9/04/2021	786604	1f/3c	Fill	-	464	-	0	0	0	0	0	0	0	0	0	1[#6]	1[#6]	1[#6]	1[#4]	1[#2]	1[#6]	1[#1]	-	-

Data Comments
#1 No asbestos detected at the reporting limit of 0.001% w/w.*Organic fibre detected.No trace asbestos detecte
#2 No respirable fibres detected.
#3 Chrysotile asbestos detected.
#4 Organic fibres detected.
#5 60x40x5
#6 Nil

Table B: Asbestos Quantification Data
Project Number: 60482
Project Name: Aldington Road Estate DSI

											Laboratory ACM Identification					Laboratory Asbestos Trace Analysis (NEPM)			
											Approx. Size	Approx. Sample Mass	Asbestos Reported Result	Sample ID	Lab Report Number	Approx. Sample Mass	Asbestos from FA & AF in Soil	Asbestos ID in Soil	Asbestos Reported Result
Asbestos Quantification Results																			
Location ID	Sample ID	Asbestos Identified in AQ	ACM ID	g	ACM g	%	% w/w	NEPC HSL-D (% w/w)	Result	Action	mm	g	Comment			g	%w/w 0.001	Comment	Comment
TP400	TP400_0.0-0.3	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	TP400 0-0.3	786604	498	0	-	No asbestos detected at the reporting limit of 0.001% w/w
TP401	TP401_0.0-0.3	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	TP401 0-0.3	786604	429	0	-	No asbestos detected at the reporting limit of 0.001% w/w
TP402	TP402_0.0-0.3	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	TP402 0-0.3	786604	344	0	-	No asbestos detected at the reporting limit of 0.001% w/w
TP403	TP403_0.0-0.3	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	TP403 0-0.3	786604	422	0	-	No asbestos detected at the reporting limit of 0.001% w/w
TP404	TP404_0.0-0.4	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	TP404 0-0.4	786604	542	0	-	No asbestos detected at the reporting limit of 0.001% w/w
TP405	TP405_0.0-0.4	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	TP405 0-0.4	786604	623	0	-	No asbestos detected at the reporting limit of 0.001% w/w
BH406	BH406_0.1-0.3	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	BH406 0.15-0.3	788078	493	0	-	No asbestos detected at the reporting limit of 0.001% w/w
BH406	BH406_0.0-0.2	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	-	-	-	-	-	-
BH407	BH407_0.1-0.5	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	-	-	-	-	-	-
BH407	BH407_0.0-0.1	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	BH407 0-0.1	788078	532	0	-	No asbestos detected at the reporting limit of 0.001% w/w
BH408	BH408_0.1-0.4	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	-	-	-	-	-	-
BH408	BH408_0.0-0.1	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	BH408 0-0.1	788078	483	0	-	No asbestos detected at the reporting limit of 0.001% w/w
BH409	BH409_0.1-0.4	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	BH409 0.1-0.4	788078	452	0	-	No asbestos detected at the reporting limit of 0.001% w/w
BH409	BH409_0.0-0.2	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	-	-	-	-	-	-
BH410	BH410_0.2-0.5	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	-	-	-	-	-	-
BH410	BH410_0.0-0.2	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	BH410 0-0.2	788078	466	0	-	No asbestos detected at the reporting limit of 0.001% w/w
BH411	BH411_0.0-0.2	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	BH411 0-0.2	788078	629	0	-	No asbestos detected at the reporting limit of 0.001% w/w
BH412	BH412_0.0-0.4	YES	BH412_0.0-0.4	18600	4	0.6	0.003	0.05	Below HSL	No Action Required	45 mm x 35 mm	-	-	BH412 0-0.4	788078	503	0	-	No asbestos detected at the reporting limit of 0.001% w/w
BH413	BH413_0.0-1.0	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	BH413 0-1	788078	601	0	-	No asbestos detected at the reporting limit of 0.001% w/w
BH414	BH414_0.0-0.2	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	BH414 0-0.2	788078	550	0	-	No asbestos detected at the reporting limit of 0.001% w/w
BH415	BH415_0.0-0.2	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	BH415 0-0.2	788078	773	0	-	No asbestos detected at the reporting limit of 0.001% w/w
BH416	BH416_0.0-0.2	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	BH416 0-0.2	788078	608	0	-	No asbestos detected at the reporting limit of 0.001% w/w
BH417	BH417_0.0-0.2	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	BH417 0-0.2	788078	560	0	-	No asbestos detected at the reporting limit of 0.001% w/w
BH418	BH418_0.0-0.3	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	BH418 0-0.3	788078	568	0	-	No asbestos detected at the reporting limit of 0.001% w/w
BH419	BH419_0.0-0.2	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	BH419 0-0.15	788078	457	0	-	No asbestos detected at the reporting limit of 0.001% w/w
BH420	BH420_0.2-0.3	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	-	-	-	-	-	-
BH420	BH420_0.0-0.1	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	BH420 0-0.1	788078	437	0	-	No asbestos detected at the reporting limit of 0.001% w/w
BH421	BH421_0.1-0.2	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	-	-	-	-	-	-
BH421	BH421_0.0-0.1	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	BH421 0-0.1	788078	433	0	-	No asbestos detected at the reporting limit of 0.001% w/w
BH422	BH422_0.0-0.1	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	BH422-0-0.1	786622	474	0	-	No asbestos detected at the reporting limit of 0.001% w/w
BH423	BH423_0.0-0.1	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	BH423-0-0.1	786622	629	0	-	No asbestos detected at the reporting limit of 0.001% w/w
BH424	BH424_0.0-0.1	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	BH424-0-0.1	786622	509	0	-	No asbestos detected at the reporting limit of 0.001% w/w
BH425	BH425_0.0-0.2	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	BH425-0-0.2	786622	557	0	-	No asbestos detected at the reporting limit of 0.001% w/w
BH426	BH426_0.0-0.1	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	BH426-0-0.1	786622	572	0	-	No asbestos detected at the reporting limit of 0.001% w/w
BH427	BH427_0.0-0.2	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	BH427-0-0.2	786622	453	0	-	No asbestos detected at the reporting limit of 0.001% w/w
BH428	BH428_0.0-0.2	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	BH428-0-0.15	786622	538	0	-	No asbestos detected at the reporting limit of 0.001% w/w
BH429	BH429_0.0-0.2	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	BH429-0-0.2	786622	542	0	-	No asbestos detected at the reporting limit of 0.001% w/w
BH430	BH430_0.0-0.2	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	BH430 0-0.2	786622	540	0	-	No asbestos detected at the reporting limit of 0.001% w/w
BH431	BH431_0.0-0.2	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	BH431 0-0.2	786622	650	0	-	No asbestos detected at the reporting limit of 0.001% w/w
BH432	BH432_0.0-0.3	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	BH432 0-0.3	788078	486	0	-	No asbestos detected at the reporting limit of 0.001% w/w
BH434	BH434_0.0-0.2	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	BH434_0.0-0.15	786604	436	0	-	No asbestos detected at the reporting limit of 0.001% w/w
BH435	BH435_0.0-0.1	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	BH435_0.0-0.1	786604	451	0	-	No asbestos detected at the reporting limit of 0.001% w/w
BH436	BH436_0.0-0.2	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	BH436_0.0-0.15	786604	362	0	-	No asbestos detected at the reporting limit of 0.001% w/w
BH437	BH437_0.0-0.2	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	BH437_0.0-0.2	786604	531	0	-	No asbestos detected at the reporting limit of 0.001% w/w
BH438	BH438_0.0-0.2	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	BH438_0.0-0.2	786604	385	0	-	No asbestos detected at the reporting limit of 0.001% w/w
BH439	BH439_0.0-0.2	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	BH439_0.0-0.15	786604	353	0	-	No asbestos detected at the reporting limit of 0.001% w/w

Table D: Asbestos Quantification Data
Project Number: 60482
Project Name: Aldington ROad Estate DSI

											Laboratory ACM Identification					Laboratory Asbestos Trace Analysis (NEPM)			
Asbestos Quantification Results											Approx. Size	Approx. Sample Mass	Asbestos Reported Result	Sample ID	Lab Report Number	Approx. Sample Mass	Asbestos from FA & AF in Soil	Asbestos ID in Soil	Asbestos Reported Result
Location ID	Sample ID	Asbestos Identified in AQ	ACM ID	g	ACM g	%	% w/w	NEPC HSL-D (% w/w)	Result	Action	mm	g	Comment			g	%w/w 0.001	Comment	Comment
BH440	BH440_0.0-0.2	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	BH440_0.0-0.2	786604	373	0	-	No asbestos detected at the reporting limit of 0.001% w/w
BH441	BH441_0.0-0.2	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	BH441_0.0-0.2	786604	564	0	-	No asbestos detected at the reporting limit of 0.001% w/w
BH442	BH442_0.0-0.1	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	BH442_0.0-0.1	786604	361	0	-	No asbestos detected at the reporting limit of 0.001% w/w
BH443	BH443_0.0-0.3	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	BH443_0.0-0.3	786604	453	0	-	No asbestos detected at the reporting limit of 0.001% w/w
BH444	BH444_0.0-0.3	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	BH444_0.0-0.3	786604	429	0	-	No asbestos detected at the reporting limit of 0.001% w/w
TP444	TP444_0.0-0.3	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	-	-	-	-	-	-
BH445	BH445_0.0-0.2	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	TP445 0.0-0.2	786610	513	0	-	No asbestos detected at the reporting limit of 0.001% w/w
BH446	BH446_0.0-0.2	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	BH446_0.0-0.2	786604	395	0	-	No asbestos detected at the reporting limit of 0.001% w/w
BH447	BH447_0.0-0.2	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	BH447_0.0-0.15	786604	361	0	-	No asbestos detected at the reporting limit of 0.001% w/w
TP448	TP448_0.0-0.3	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	TP448 0-0.3	786604	378	0	-	No asbestos detected at the reporting limit of 0.001% w/w
TP449	TP449_0.3-0.9	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	TP449 0.3-0.9	786610	478	0	-	No asbestos detected at the reporting limit of 0.001% w/w
TP450	TP450_0.0-1.0	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	-	-	-	-	-	-
TP450	TP450_1.0-2.0	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	-	-	-	-	-	-
TP450	TP450_2.0-2.5	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	TP450 2-2.5	786610	404	0	-	No asbestos detected at the reporting limit of 0.001% w/w
TP451	TP451_0.0-0.1	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	-	-	-	-	-	-
TP451	TP451_0.0-1.0	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	-	-	-	-	-	-
TP451	TP451_1.0-2.0	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	TP451 1-2	786610	522	0	-	No asbestos detected at the reporting limit of 0.001% w/w
TP451	TP451_2.8-3.8	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	-	-	-	-	-	-
TP451	TP451_2.0-2.8	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	-	-	-	-	-	-
TP452	TP452_0.0-1.0	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	-	-	-	-	-	-
TP452	TP452_1.0-2.0	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	TP452 1-2	786610	435	0	-	No asbestos detected at the reporting limit of 0.001% w/w
TP453	TP453_0.0-0.9	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	TP453 0-0.9	786604	319	0	-	No asbestos detected at the reporting limit of 0.001% w/w
TP454	TP454_0.7-1.2	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	TP454 0.7-1.2	786610	442	0	-	No asbestos detected at the reporting limit of 0.001% w/w
TP454	TP454_0.0-0.7	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	-	-	-	-	-	-
TP455	TP455_0.0-1.0	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	-	-	-	-	-	-
TP455	TP455_1.0-1.8	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	-	-	-	-	-	-
TP455	TP455_1.8-2.5	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	-	-	-	-	-	-
TP455	TP455_2.5-3.5	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	-	-	-	-	-	-
TP456	TP456_0.0-1.0	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	-	-	-	-	-	-
TP456	TP456_1.0-2.0	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	TP456 1.0-2.0	786610	418	0	-	No asbestos detected at the reporting limit of 0.001% w/w
TP457	TP457_0.0-1.0	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	-	-	-	-	-	-
TP457	TP457_1.0-2.0	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	-	-	-	-	-	-
TP457	TP457_2.0-2.5	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	TP457 2-2.5	786610	405	0	-	No asbestos detected at the reporting limit of 0.001% w/w
TP458	TP458_0.0-0.9	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	TP458_0-0.9	789056	403	0	-	No asbestos detected at the reporting limit of 0.001% w/w
TP459	TP459_0.4-1.4	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	-	-	-	-	-	-
TP459	TP459_0.0-0.4	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	-	-	-	-	-	-
TP459	TP459_1.4-2.4	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	TP459 1.4-2.4	786610	522	0	-	No asbestos detected at the reporting limit of 0.001% w/w
TP460	TP460_0.0-1.0	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	-	-	-	-	-	-
TP460	TP460_1.0-2.0	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	-	-	-	-	-	-
TP460	TP460_2.0-2.6	YES	TP460_2.0-3.0	18600	10	1.5	0.008	0.05	Below HSL	No Action Required	(25 mm x 20 mm) x 2	-	-	TP460 2-2.6	786610	525	0	-	No asbestos detected at the reporting limit of 0.001% w/w
TP461	TP461_0.1-1.0	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	-	-	-	-	-	-
TP461	TP461_1.0-2.0	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	TP461 1-2	786610	470	0	-	No asbestos detected at the reporting limit of 0.001% w/w
TP462	TP462_0.0-1.0	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	-	-	-	-	-	-
TP462	TP462_1.0-2.0	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	-	-	-	-	-	-
TP462	TP462_2.0-3.0	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	TP462 2-3	786604	487	0	-	No asbestos detected at the reporting limit of 0.001% w/w
TP462	TP462_3.0-3.8	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	-	-	-	-	-	-
TP463	TP463_0.0-0.8	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	TP463 0.8-1.8	786604	648	0	-	No asbestos detected at the reporting limit of 0.001% w/w
TP463	TP463_0.8-1.8	YES	TP463_0.8-1.8	18600	48	7.2	0.039	0.05	Below HSL	No Action Required	(60 mm x 40 mm x 5 mm)	48	Chrysotile Asbestos Detected	TP463 0.0-0.8	786604	563	0	-	No asbestos detected at the reporting limit of 0.001% w/w
TP463	TP463_1.8-2.8	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	-	-	-	-	-	-
TP463	TP463_3.8-4.2	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	-	-	-	-	-	-
TP463	TP463_2.8-3.8	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	TP463 2.8-3.8	786604	488	0	-	No asbestos detected at the reporting limit of 0.001% w/w
TP464	TP464_1.6-2.3	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	-	-	-	-	-	-
TP464	TP464_1.0-1.6	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	TP464 1.6-2.3	786604	464	0	-	No asbestos detected at the reporting limit of 0.001% w/w
TP464	TP464_0.0-1.0	No	-	18600	0	0	0.000	0.05	Below HSL	No Action Required	-	-	-	-	-	-	-	-	-

Conversion Key	
	1860*1000
1 tonne	1860000
1000L	1860
10L	18600

Attachment 4 - Laboratory Analysis Report and COCs

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 60482	LABORATORY BATCH NO.:
PROJECT NAME: Kemps Creek DSI	SAMPLERS:
DATE NEEDED BY: Standard TAT	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) .....rili@jbsg.com.au; (3) .....cdagger@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs	Asbestos	OCPs/PCBs	Phenols	Herbicides	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
	Soil	8/4/21														
BH354 -0.0-0.2				J+B		x		x								
BH354 - 0.4-0.5				J+B												
BH354 - 0.7-1.0				J			x					x				
BH355 - 0.0-0.2				J+B												
BH355 - 0.4-0.5				J		x		x								
BH 351 - 0.0-0.2				J+B						x						
BH 351 - 0.4-0.5				J												
BH355 - 0.0-0.2				J+B		x		x								
BH355 - 0.4-0.5				J												
BH354 - 0.0-0.2				J+B		x		x								
BH354 - 0.4-0.5				J												
BH354 - 0.0-0.2				J+B			x					x				
BH354 - 0.4-0.5				J												
BH349 - 0.0-0.2				J+B		x		x								
BH349 - 0.4-0.5				J												
BH350 - 0.0-0.2				J+B			x									
BH350 - 0.4-0.5				J		x										
FC1	V	V		B												

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 8/4/21 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: NC DATE: 8/4 9:02AM 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

1.1°C 786610

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 60482	LABORATORY BATCH NO.:
PROJECT NAME: Kemps Creek DSI	SAMPLERS:
DATE NEEDED BY: Standard TAT	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) .....rlill@jbsg.com.au; (3) .....cdagger@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs	Asbestos	OCPs/PCBs	Phenols	Herbicides	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
BH339_0.0-0.1	Soil	7/4/21		J+B			x	x								
" _0.4-0.5	"			J												
BH340-0.0-0.2	"			J+B								x				
" -0.2-0.5	"			J												
BH341-0.0-0.2	"			J+B		x		x								
" -0.2-0.5	"			J												
BH365-0.0-0.2	"			J+B			x					x				
" -0.2-0.6	"			J												
BH366-0.0-0.2	"			J+B												
" -0.2-0.6	"			J		x		x								
BH369-0.0-0.5	"			J+B			x					x				
" -0.5-1.1	"			J			x									
BH343-0.0-0.2	"			J+B												
" -0.2-0.5	"			J												
BH344-0.0-0.2	"			J+B			x	x								
" -0.2-0.6	"			J												
BH345_0.0-0.1	"			J		x		x								
" 0.3-0.4	"			J												
BH347-0.1-0.2	"			J+B		x		x								
" 0.3-0.4	"			J												

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Kyan Lill DATE: 8/4/21	CONSIGNMENT NOTE NO.	NAME: NC DATE: 12/4 9:02AM	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

IMSO Forms013 – Chain of Custody - Generic

1.1°C 786610

CHAIN OF CUSTODY

PROJECT NO.: 60482	LABORATORY BATCH NO.:
PROJECT NAME: Kemps Creek DSI	SAMPLERS:
DATE NEEDED BY: Standard TAT	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) .....rlill@jbsg.com.au; (3) .....cdagger@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs	Asbestos	OCPs/PCBs	Phenols	Herbicides	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
[illegible] 0-0.2	Soil	8/4/21		J, ice		✓		✓								
[illegible] 0.0-0.2				J, ice												
[illegible] 0.0-0.2				J, ice												
[illegible] 0.4-0.5						✓		✓								
[illegible] 0.4-0.5																
[illegible] 0.4-0.5																
[illegible] 0.4-0.5						✓						✓				
[illegible] 0.0-0.2				J, ice												
[illegible] 0.0-0.0				J, ice						✓						
0.5-0.6				J												
[illegible]				J, ice		✓						✓				
[illegible] C3-0.4				J												
[illegible] 0.0-0.1				J, ice			✓	✓								
0.3-0.4				J												
[illegible]				J, ice		✓				✓						
0.3-0.4				J												
[illegible] 0.0-0.1				J, ice												
0.5-0.6				J		✓		✓								
[illegible] 0.0-0.1				J, ice												
0.4-0.5	V	V		J												

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: [illegible] DATE: 8/4/21	CONSIGNMENT NOTE NO.	NAME: NC DATE: 12/4 9:02AM	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

IMSO Forms013 – Chain of Custody - Generic

1.1°C 786610

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 60482	LABORATORY BATCH NO.:
PROJECT NAME: Kemps Creek DSI	SAMPLERS:
DATE NEEDED BY: Standard TAT	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) .....rlill@jbsg.com.au; (3) .....cdagger@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs	Asbestos	OCPs/PCBs	Phenols	Herbicides	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
BH172 0.4-0.5	Soil	5/4/21		J		x	x	x								
BH 173 0-0.1	"	"		JB												
BH173 0.4-0.5				J												
BH 177 0-0.1				JB												
" " 0.4-0.5				J		x		x					x			
BH178 0-0.1				JB												
" " 0.3-0.5				J												
BH345 0.0-0.2				JB		x		x		x			x			
BH 332 0-0.1				JB												
BH 332 0.5-0.6				JB												
BH348 0.4-0.5				J		x	x	x								
BH 335 0.0-0.2				JB												
BH 335 0.4-0.5				J			x			x						
BH 334 0.0-0.2				JB												
BH 334 0.4-0.5				J		x	x	x		x						
BH 349 0.0-0.2				JB												
BH 349 0.4-0.5				J												
BH350 0.0-0.2				JB			x			x						
BH 350 0.4-0.5				J												
BH 351 0.0-0.2				JB												

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Kiran Lill DATE: 8/4/21	CONSIGNMENT NOTE NO.	NAME: NC DATE: 12/4 9:02AM	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

IMSO Forms013 – Chain of Custody - Generic

1.1°C 786610

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 60482	LABORATORY BATCH NO.:
PROJECT NAME: Kemps Creek DSI	SAMPLERS:
DATE NEEDED BY: Standard TAT	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) .....rlill@jbsg.com.au; (3) .....cdagger@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs	Asbestos	OCPs/PCBs	Phenols	Herbicides	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
BH1352 0.3-0.4	Soil	5/7/21		J			X	X								
BH356 0-0.1		"		JB												
" 0.3-0.4				J												
BH372 0-0.1				JB								X				
" " 0.3-0.4				J												
BH358 0-0.1				JB												
" " 0.3-0.4				J												
BH379 0-0.1				JB		X		X								
" " 0.3-0.4				J												
BH373 0-0.1				JB												
" " 0.3-0.4				J		X	X	X								
BH383 0-0.1				JB												
" " 0.3-0.4				J												
BH377 0-0.1				JB			X	X				X				
" " 0.3-0.4				J												
BH356 0-0.1				JB												
" " 0.3-0.4				J												
BH171 0-0.1				JB		X		X								
" 0.4-0.5				J												
BH1172 0-0.1	V	V		JB		X	X	X								

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Kyan Lill DATE: 8/4/21	CONSIGNMENT NOTE NO.	NAME: NC	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 12/4 9.02AM	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	OF: NAME: DATE:	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 Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Generic

1.1°C 786616

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 60482	LABORATORY BATCH NO.:
PROJECT NAME: Kemps Creek DSI	SAMPLERS:
DATE NEEDED BY: Standard TAT	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) .....rlill@jbsg.com.au; (3) .....cdagger@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs/~~Low level~~	EC, pH, alkalinity, ~~Hardness~~	~~Ammonia~~	~~Nitrite/Nitrate~~	pH/EC	PAHs	Asbestos	OCPs/PCBs	Herbicides	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
BH175 0-0.1	Soil			JB		x		/					x						
" " 0.4-0.5	Soil			J															
BH176 0-0.1				JB															
" " 0.4-0.5				J															
BH174 0-0.1				JB															
" " 0.4-0.5				J															
BH169 ~~0-0.1~~ 0-0.1				JB			x									x			
" " 0.4-0.5				J															
BH170 ~~0-0.1~~ 0-0.1				JB		x		~~x~~					x						
" " 0.4-0.5				J															
BH331 0-0.1				JB		x							x			x			
" " 0.3-0.4	↓			J															
" " Frag	Fragment			J															
BH375 0-0.1	Soil			JB		x	x												
" " 0.3-0.4				~~B~~J															
BH378 0-0.1				JB															
" " 0.3-0.4				~~B~~J															
BH353 0-0.1				JB		x	x												
" " 0.3-0.4				~~B~~J															
BH352 0-0.1				JB															

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Ryan Lill DATE: 8/4/21	CONSIGNMENT NOTE NO.	NAME: NC	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 12/4 9:00AM	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 - Generic

1.1°C 786610

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 60482	LABORATORY BATCH NO.:
PROJECT NAME: Kemps Creek DSI	SAMPLERS:
DATE NEEDED BY: Standard TAT	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) .....rlill@jbsg.com.au; (3) .....cdagger@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	~~PAHs (low level)~~	~~EC, pH, alkalinity, Hardness~~	~~Ammonia~~	~~Nitrite/Nitrate~~	~~pH/EC~~	PAHs	Asbestos	OCPs/PCBs	Herbicides	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
BH 354 0.0-0.1	Soil	07/4/21		J+B		✓		✓					✓						
BH 371 0.0-0.1				J+B			✓						✓						
BH 360 0-0.1				J+B		✓		✓					✓						
BH 358 0-0.1				J+B			✓						✓						
BH 364 0-0.1				J+B											✓				
BH 367 0-0.1				J+B		✓	✓												
BH 372 0-0.1				J+B															
BH 364 0-0.1				J+B		✓	✓												
BH 355 0-0.1				J+B			✓	✓					✓						
BH 370 0-0.1				J+B															
BH 374 0.3-0.4				B															
BH 371 0.3-0.4				B															
BH 360 0.3-0.4				B															
BH 388 0.3-0.4				B															
BH 384 0.3-0.4				B															
BH 377 0.3-0.4				B															
BH 342 0.3-0.4				B															
BH 364 0.3-0.4				B															
BH 366 0.3-0.4				B															
BH 370 0.3-0.4				B															

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Ryan Lill DATE: 7/4/21	CONSIGNMENT NOTE NO.	NAME: NC	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 7/4 9:02 AM	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 - Generic

1.1°C 786610

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 60482	LABORATORY BATCH NO.:
PROJECT NAME: Kemps Creek DSI	SAMPLERS:
DATE NEEDED BY: Standard TAT	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) .....rlill@jbsg.com.au; (3) .....cdagger@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs	Asbestos	OCPs/PCBs	Phenols	Herbicides	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
TP450_0.0-1.0	Soil	8/4/21		S												
TP450_2.0-2.5									X							
TP450_1.0-2.0																
TP459_0.0-0.4																
TP454_0.0-0.7																
TP444_0.0-0.8																
TP452_0.0-1.0																
TP452_0.0-0.1																
TP451_1.0-2.0									X							
TP451_2.0-2.8																
TP457_2.0-2.5									X							
TP457_1.0-2.0																
TP460_1.0-2.0																
TP451_2.8-3.8																
TP452_1.0-2.0									X							
TP457_0.0-1.0																
TP456_1.0-2.0																
TP461_0.0-1.0																
TP461_2.0-2.6									X							
TP460_2.6-2.8	↓			↓												

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: [signature] DATE: 8/4/21	CONSIGNMENT NOTE NO.	NAME: NC	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 9/4/21 9:02 AM	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	OF: 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 - Generic

1.1°C 786610

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 60482	LABORATORY BATCH NO.:
PROJECT NAME: Kemps Creek DSI	SAMPLERS:
DATE NEEDED BY: Standard TAT	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) .....rlill@jbsg.com.au; (3) .....cdagger@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs	Asbestos	OCPs/PCBs	Phenols	Herbicides	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
TP449-0.3-0.9	Soil	5/4/21		J					X							
TP461-1.0-2.0									X							
TP454-0.7-1.2									X							
TP451-0.0-1.0																
TP456-0.0-1.0																
TP460-0.0-1.0																
TP452-3.0-3.5																
TP456-2.8-3.0									X							
TP455-0.0-0.1				J												
TP455-2.4-2.5						X	X	X								
TP460-0.0-0.1																
TP456-0.0-0.1						X	X	X								
TP460-2.6-2.8																
TP451-2.8-3.0																
TP452-1.1-1.2						X	X	X			X					
TP449-1.0-1.1																
TP454-1.4-1.5						X	X	X								
TP457-0.0-0.1																
TP461-2.4-2.5						X	X	X			X					
TP451-0.0-0.1	V	V		V												

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Lupin Lill DATE: 8/4/21	CONSIGNMENT NOTE NO.	NAME: VC	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 12/4 9:02AM	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	OF: 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 - Generic

1.1°C 786610

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 60482	LABORATORY BATCH NO.:
PROJECT NAME: Kemps Creek DSI	SAMPLERS:
DATE NEEDED BY: Standard TAT	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) .....rill@jbsg.com.au; (3) .....cdagger@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs	Asbestos	OCPs/PCBs	Phenols	Herbicides	PFAS	ETEX	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
TP457_2.5-2.	Soil	8/4/21		J		x		x									
TP450_2.5-2.				↓													
TP459_1.2-1.3	↓			↓		x	x	x									
TP357_0.0-0.1				K													
TP358_0.0-0.1				B													
TP455 1.0-1.0																	
TP455 1.8-1.8									x								
TP455 2.0-2.05																	
TP455 2.5-3.5	↓	↓		↓													
BH351 0.4-0.5				J													
BH355 0.0-0.2				J B		x		x									
BH355 0.4-0.5				J													
TS	Water	8/4/21		V										X			
TB	↓			V										X			
TP459 0.4-1.4	Soil			B													
TP459 1.4-2.4									x								
TP459 0.0-0.4	↓	↓		↓													

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Ryan Cull DATE: 8/4/21	CONSIGNMENT NOTE NO.	NAME: DC	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 12/4 9:00AM	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

DGC 1.1°C 786610

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ABN: 50 005 085 521 www.eurofins.com.au EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
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1/21 Smallwood Place
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4/52 Industrial Drive
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Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Ryan Lill
Project name:	KEMPS CREEK DSI
Project ID:	60482
Turnaround time:	5 Day
Date/Time received	Apr 12, 2021 9:02 AM
Eurofins reference	786610

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 Sample Receipt : 1.1 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

Samples BH369 0.5-0.6 not received, switched from hold to cancelled. Samples TP495 0.0-0.4, BH351 0.1-0.2, BH335 0.0-0.2, BH348 0.0-0.2, BH350 0.0-0.2, BH335 0.0-0.2, BH386 0.0-0.1, BH344 0.0 - 0.2, BH348 0.4-0.5, BH334 0.4-0.5, BH335 0.4-0.5, BH349 0.4-0.5, BH350 0.4-0.5, BH351 0.4-0.5 and BH355 0.4-0.5 appeared multiple times on the COC, samples logged with all analysis. PFAS analysis cancelled due to incorrect containers. Samples BHX (jar), BH380 0.0-0.1 (bag), BH362 (bag) and a blank bag received not on COC, logged on hold.

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 Ryan Lill - rlill@jbsg.com.au.

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Address: Level 1, 50 Margaret St
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Project Name: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786610
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 9:02 AM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	BTEX	Suite B13: OCP/PCB	Moisture Set	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B4	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**													
1	BH354 0-0.2	Apr 08, 2021		Soil	S21-Ap17340				X		X			X				
2	BH354 0.9-1	Apr 08, 2021		Soil	S21-Ap17341					X				X		X		
3	BH355 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17342				X		X			X				
4	BH351 0-0.2	Apr 08, 2021		Soil	S21-Ap17343								X	X				
5	BH335 0-0.2	Apr 08, 2021		Soil	S21-Ap17344				X		X			X				
6	BH334 0-0.2	Apr 08, 2021		Soil	S21-Ap17345				X		X			X				
7	BH348 0-0.2	Apr 08, 2021		Soil	S21-Ap17346					X				X	X			
8	BH349 0-0.2	Apr 08, 2021		Soil	S21-Ap17347				X		X			X				
9	BH350 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17349						X			X				

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Australia

Melbourne
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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
10	BH339 0-0.1	Apr 07, 2021		Soil	S21-Ap17350									X			X	
11	BH340 0-0.2	Apr 07, 2021		Soil	S21-Ap17351					X				X				
12	BH341 0-0.2	Apr 07, 2021		Soil	S21-Ap17352				X		X			X				
13	BH365 0-0.2	Apr 07, 2021		Soil	S21-Ap17353					X				X		X		
14	BH366 0.2-0.6	Apr 07, 2021		Soil	S21-Ap17354				X		X			X				
15	BH369 0-0.5	Apr 07, 2021		Soil	S21-Ap17355					X				X		X		
16	BH344 0-0.2	Apr 07, 2021		Soil	S21-Ap17356									X			X	
17	BH363 0-0.1	Apr 07, 2021		Soil	S21-Ap17357				X		X			X				
18	BH387 0-0.1	Apr 07, 2021		Soil	S21-Ap17358				X		X			X				
19	BH347 0-0.2	Apr 08, 2021		Soil	S21-Ap17359				X		X			X				
20	BH346 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17360				X		X			X				

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Australia

Melbourne
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4/52 Industrial Drive
Mayfield East NSW 2304
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New Zealand

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35 O'Rorke Road
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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
21	BH336 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17361					X	X			X				
22	BH369 0-0.1	Apr 08, 2021		Soil	S21-Ap17362								X	X				
23	BH345 0-0.1	Apr 08, 2021		Soil	S21-Ap17363					X	X			X				
24	BH338 0-0.1	Apr 08, 2021		Soil	S21-Ap17364									X			X	
25	BH361 0-0.1	Apr 08, 2021		Soil	S21-Ap17365					X	X			X				
26	BH386 0.5-0.6	Apr 08, 2021		Soil	S21-Ap17366				X		X			X				
27	BH172 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17367									X	X			
28	BH177 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17368				X		X			X				
29	BH348 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17370									X	X			
30	BH335 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17371								X	X		X		
31	BH334 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17372									X	X			

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Australia

Melbourne
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Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
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1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
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Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
35 O'Rorke Road
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Phone : +64 9 526 45 51
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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
32	BH350 0-0.2	Apr 08, 2021		Soil	S21-Ap17373								X	X		X		
33	BH352 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17374									X			X	
34	BH372 0-0.1	Apr 08, 2021		Soil	S21-Ap17375					X				X				
35	BH379 0-0.1	Apr 08, 2021		Soil	S21-Ap17376				X		X			X				
36	BH373 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17377									X	X			
37	BH377 0-0.1	Apr 08, 2021		Soil	S21-Ap17378					X				X			X	
38	BH171 0-0.1	Apr 08, 2021		Soil	S21-Ap17379				X		X			X				
39	BH172 0-0.1	Apr 08, 2021		Soil	S21-Ap17380									X	X			
40	BH175 0-0.1	Apr 08, 2021		Soil	S21-Ap17381				X		X			X				
41	BH169 0-0.1	Apr 08, 2021		Soil	S21-Ap17382					X				X		X		
42	BH170 0-0.1	Apr 08, 2021		Soil	S21-Ap17383				X		X			X				

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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
43	BH331 0-0.1	Apr 08, 2021		Soil	S21-Ap17384				X	X	X			X				
44	BH375 0-0.1	Apr 08, 2021		Soil	S21-Ap17385									X			X	
45	BH353 0-0.1	Apr 08, 2021		Soil	S21-Ap17386									X			X	
46	BH384 0-0.1	Apr 07, 2021		Soil	S21-Ap17387				X		X			X				
47	BH371 0-0.1	Apr 07, 2021		Soil	S21-Ap17388									X			X	
48	BH360 0-0.1	Apr 07, 2021		Soil	S21-Ap17389				X		X			X				
49	BH388 0-0.1	Apr 07, 2021		Soil	S21-Ap17390									X			X	
50	BH389 0-0.1	Apr 07, 2021		Soil	S21-Ap17391								X	X				
51	BH367 0-0.1	Apr 07, 2021		Soil	S21-Ap17392						X			X		X		
52	BH364 0-0.1	Apr 07, 2021		Soil	S21-Ap17393						X			X		X		
53	BH385 0-0.1	Apr 07, 2021		Soil	S21-Ap17394									X			X	

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Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
54	TP450 2-2.5	Apr 08, 2021		Soil	S21-Ap17395	X												
55	TP451 1-2	Apr 08, 2021		Soil	S21-Ap17396	X												
56	TP457 2-2.5	Apr 08, 2021		Soil	S21-Ap17397	X												
57	TP452 1-2	Apr 08, 2021		Soil	S21-Ap17398	X												
58	TP460 2-2.6	Apr 08, 2021		Soil	S21-Ap17399	X												
59	TP449 0.3-0.9	Apr 08, 2021		Soil	S21-Ap17400	X												
60	TP461 1-2	Apr 08, 2021		Soil	S21-Ap17401	X												
61	TP454 0.7-1.2	Apr 08, 2021		Soil	S21-Ap17402	X												
62	TP456 2.8-3	Apr 08, 2021		Soil	S21-Ap17403	X												
63	TP452 2.4-2.5	Apr 08, 2021		Soil	S21-Ap17404									X	X			
64	TP456 0-0.1	Apr 08, 2021		Soil	S21-Ap17405									X	X			

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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
65	TP452 1.1-1.2	Apr 08, 2021		Soil	S21-Ap17406					X				X	X			
66	TP454 1.4-1.5	Apr 08, 2021		Soil	S21-Ap17407									X	X			
67	TP461 2.4-2.5	Apr 08, 2021		Soil	S21-Ap17408					X				X	X			
68	TP457 2.5-2.6	Apr 08, 2021		Soil	S21-Ap17409				X		X			X				
69	TP449 1.2-1.3	Apr 08, 2021		Soil	S21-Ap17410									X	X			
70	TP445 1-1.8	Apr 08, 2021		Soil	S21-Ap17411	X												
71	BH355 0-0.2	Apr 08, 2021		Soil	S21-Ap17412				X		X			X				
72	TS	Apr 08, 2021		Water	S21-Ap17413													X
73	TB	Apr 08, 2021		Water	S21-Ap17414							X						
74	TP459 1.4-2.4	Apr 08, 2021		Soil	S21-Ap17415	X												
75	BH354 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17416			X										

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Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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
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Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
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IANZ # 1327

Christchurch
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Rolleston, Christchurch 7675
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IANZ # 1290

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Sydney
NSW 2000

Project Name: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786610
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 9:02 AM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
76	BH351 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17418			X										
77	BH349 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17422			X										
78	FC1	Apr 08, 2021		Building Materials	S21-Ap17423			X										
79	BH339 0.4-0.5	Apr 07, 2021		Soil	S21-Ap17424			X										
80	BH340 0.2-0.5	Apr 07, 2021		Soil	S21-Ap17425			X										
81	BH341 0.2-0.5	Apr 07, 2021		Soil	S21-Ap17426			X										
82	BH365 0.2-0.6	Apr 07, 2021		Soil	S21-Ap17427			X										
83	BH366 0-0.2	Apr 07, 2021		Soil	S21-Ap17428			X										
84	BH369 0.6-1.1	Apr 07, 2021		Soil	S21-Ap17429			X										
85	BH343 0-0.2	Apr 07, 2021		Soil	S21-Ap17430			X										

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Australia

Melbourne
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Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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
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Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
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IANZ # 1327

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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
86	BH343 0.2-0.5	Apr 07, 2021		Soil	S21-Ap17431			X										
87	BH344 0.2-0.6	Apr 07, 2021		Soil	S21-Ap17432			X										
88	BH363 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17433			X										
89	BH387 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17434			X										
90	BH337 0-0.2	Apr 08, 2021		Soil	S21-Ap17435			X										
91	BH346 0-0.2	Apr 08, 2021		Soil	S21-Ap17436			X										
92	BH347 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17437			X										
93	BH337 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17438			X										
94	BH336 0-0.2	Apr 08, 2021		Soil	S21-Ap17439			X										
95	BH369 0.5-0.6	Apr 08, 2021		Soil	S21-Ap17440		X											
96	BH345 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17441			X										

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Australia

Melbourne
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Sydney
Unit F3, Building F
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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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Perth
46-48 Banksia Road
Welshpool WA 6106
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NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
97	BH338 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17442			X										
98	BH361 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17443			X										
99	BH386 0-0.1	Apr 08, 2021		Soil	S21-Ap17444			X										
100	BH362 0-0.1	Apr 08, 2021		Soil	S21-Ap17445			X										
101	BH362 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17446			X										
102	BH173 0-0.1	Apr 08, 2021		Soil	S21-Ap17447			X										
103	BH173 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17448			X										
104	BH177 0-0.1	Apr 08, 2021		Soil	S21-Ap17449			X										
105	BH178 0-0.1	Apr 08, 2021		Soil	S21-Ap17450			X										
106	BH178 0.3-..5	Apr 08, 2021		Soil	S21-Ap17451			X										
107	BH332 0-0.1	Apr 08, 2021		Soil	S21-Ap17452			X										

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Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
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NATA # 1261
Site # 1254 & 14271

Sydney
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
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Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
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Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
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External Laboratory																		
108	BH332 0.5-0.6	Apr 08, 2021		Soil	S21-Ap17453			X										
109	BH349 0-0.2	Apr 08, 2021		Soil	S21-Ap17456			X										
110	BH356 0-0.1	Apr 08, 2021		Soil	S21-Ap17460			X										
111	BH356 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17461			X										
112	BH372 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17462			X										
113	BH382 0-0.1	Apr 08, 2021		Soil	S21-Ap17463			X										
114	BH382 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17464			X										
115	BH379 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17465			X										
116	BH373 0-0.1	Apr 08, 2021		Soil	S21-Ap17466			X										
117	BH383 0-0.1	Apr 08, 2021		Soil	S21-Ap17467			X										
118	BH383 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17468			X										

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Sydney
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
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Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
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IANZ # 1327

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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
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Mayfield Laboratory																		
External Laboratory																		
119	BH377 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17469			X										
120	BH386 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17471			X										
121	BH171 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17472			X										
122	BH175 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17473			X										
123	BH176 0-0.1	Apr 08, 2021		Soil	S21-Ap17474			X										
124	BH176 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17475			X										
125	BH174 0-0.1	Apr 08, 2021		Soil	S21-Ap17476			X										
126	BH174 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17477			X										
127	BH169 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17478			X										
128	BH170 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17479			X										
129	BH331 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17480			X										

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Australia

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Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
130	BH331 FRAG	Apr 08, 2021		Building Materials	S21-Ap17481			X										
131	BH375 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17482			X										
132	BH378 0-0.1	Apr 08, 2021		Soil	S21-Ap17483			X										
133	BH378 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17484			X										
134	BH353 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17485			X										
135	BH352 0-0.1	Apr 08, 2021		Soil	S21-Ap17486			X										
136	BH342 0-0.1	Apr 07, 2021		Soil	S21-Ap17487			X										
137	BH370 0-0.1	Apr 07, 2021		Soil	S21-Ap17488			X										
138	BH384 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17489			X										
139	BH371 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17490			X										

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Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
140	BH360 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17491			X										
141	BH388 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17492			X										
142	BH389 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17493			X										
143	BH367 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17494			X										
144	BH342 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17495			X										
145	BH364 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17496			X										
146	BH386 0.5-0.7	Apr 07, 2021		Soil	S21-Ap17497			X										
147	BH370 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17498			X										
148	TP450 0-1	Apr 08, 2021		Soil	S21-Ap17499			X										
149	TP450 1-2	Apr 08, 2021		Soil	S21-Ap17500			X										
150	TP459 0-0.4	Apr 08, 2021		Soil	S21-Ap17501			X										

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Sample Detail						Asbestos - WA guidelines	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	BTEX	Suite B13: OCP/PCB	Moisture Set	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B4	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
151	TP454 0-0.7	Apr 08, 2021		Soil	S21-Ap17502			X										
152	TP444 0-0.3	Apr 08, 2021		Soil	S21-Ap17503			X										
153	TP452 0-1	Apr 08, 2021		Soil	S21-Ap17504			X										
154	TP452 0-0.1	Apr 08, 2021		Soil	S21-Ap17505			X										
155	TP451 2-2.8	Apr 08, 2021		Soil	S21-Ap17506			X										
156	TP457 1-2	Apr 08, 2021		Soil	S21-Ap17507			X										
157	TP460 1-2	Apr 08, 2021		Soil	S21-Ap17508			X										
158	TP451 2.8-3.8	Apr 08, 2021		Soil	S21-Ap17509			X										
159	TP457 0-1	Apr 08, 2021		Soil	S21-Ap17510			X										
160	TP456 1-2	Apr 08, 2021		Soil	S21-Ap17511			X										
161	TP461 0-1	Apr 08, 2021		Soil	S21-Ap17512			X										

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
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PO Box 60 Wickham 2293
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35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
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Rolleston, Christchurch 7675
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IANZ # 1290

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
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NSW 2000

Project Name: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786610
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 9:02 AM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

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Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
162	TP460 2.6-2.8	Apr 08, 2021		Soil	S21-Ap17513			X										
163	TP451 0-1	Apr 08, 2021		Soil	S21-Ap17514			X										
164	TP456 0-1	Apr 08, 2021		Soil	S21-Ap17515			X										
165	TP460 0-1	Apr 08, 2021		Soil	S21-Ap17516			X										
166	TP456 0.3-3.5	Apr 08, 2021		Soil	S21-Ap17517			X										
167	TP452 0-0.1	Apr 08, 2021		Soil	S21-Ap17518			X										
168	TP460 0-0.1	Apr 08, 2021		Soil	S21-Ap17519			X										
169	TP460 2.6-2.8	Apr 08, 2021		Soil	S21-Ap17520			X										
170	TP451 2.8-3	Apr 08, 2021		Soil	S21-Ap17521			X										
171	TP449 1-1.1	Apr 08, 2021		Soil	S21-Ap17522			X										
172	TP457 0-0.1	Apr 08, 2021		Soil	S21-Ap17523			X										

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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
173	TP451 0-0.1	Apr 08, 2021		Soil	S21-Ap17524			X										
174	TP450 2.5-2.6	Apr 08, 2021		Soil	S21-Ap17525			X										
175	TP357 0-0.1	Apr 08, 2021		Soil	S21-Ap17526			X										
176	TP358 0-0.1	Apr 08, 2021		Soil	S21-Ap17527			X										
177	TP445 0-1	Apr 08, 2021		Soil	S21-Ap17528			X										
178	TP445 1.8-2.5	Apr 08, 2021		Soil	S21-Ap17529			X										
179	TP445 2.5-3.5	Apr 08, 2021		Soil	S21-Ap17530			X										
180	TP459 0.4-1.4	Apr 08, 2021		Soil	S21-Ap17533			X										
181	BHX	Apr 08, 2021		Soil	S21-Ap19659			X										
182	BH380 0.0-0.1	Apr 08, 2021		Soil	S21-Ap19660			X										
183	BH362	Apr 08, 2021		Soil	S21-Ap19661			X										

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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
184	BLANK	Apr 08, 2021		Soil	S21-Ap19662			X										
Test Counts						11	1	109	22	14	28	1	5	61	12	8	10	1

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025–Testing
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JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention:	Ryan Lill
Report	786610-AID
Project Name	KEMPS CREEK DSI
Project ID	60482
Received Date	Apr 12, 2021
Date Reported	Apr 20, 2021

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.*

Accredited for compliance with ISO/IEC 17025–Testing
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Project Name KEMPS CREEK DSI
Project ID 60482
Date Sampled Apr 08, 2021
Report 786610-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
TP450 2-2.5	21-Ap17395	Apr 08, 2021	Approximate Sample 404g 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.
TP451 1-2	21-Ap17396	Apr 08, 2021	Approximate Sample 522g 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.
TP457 2-2.5	21-Ap17397	Apr 08, 2021	Approximate Sample 405g 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.
TP452 1-2	21-Ap17398	Apr 08, 2021	Approximate Sample 435g 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.
TP460 2-2.6	21-Ap17399	Apr 08, 2021	Approximate Sample 525g 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.
TP449 0.3-0.9	21-Ap17400	Apr 08, 2021	Approximate Sample 478g 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.
TP461 1-2	21-Ap17401	Apr 08, 2021	Approximate Sample 470g Sample consisted of: Brown coarse-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP454 0.7-1.2	21-Ap17402	Apr 08, 2021	Approximate Sample 442g Sample consisted of: Brown coarse-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
TP456 2.8-3	21-Ap17403	Apr 08, 2021	Approximate Sample 418g 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.
TP445 1-1.8	21-Ap17411	Apr 08, 2021	Approximate Sample 513g Sample consisted of: Brown coarse-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP459 1.4-2.4	21-Ap17415	Apr 08, 2021	Approximate Sample 522g 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.

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	Apr 13, 2021	Indefinite

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**													
1	BH354 0-0.2	Apr 08, 2021		Soil	S21-Ap17340				X		X			X				
2	BH354 0.9-1	Apr 08, 2021		Soil	S21-Ap17341					X				X		X		
3	BH355 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17342				X		X			X				
4	BH351 0-0.2	Apr 08, 2021		Soil	S21-Ap17343								X	X				
5	BH335 0-0.2	Apr 08, 2021		Soil	S21-Ap17344				X		X			X				
6	BH334 0-0.2	Apr 08, 2021		Soil	S21-Ap17345				X		X			X				
7	BH348 0-0.2	Apr 08, 2021		Soil	S21-Ap17346					X				X	X			
8	BH349 0-0.2	Apr 08, 2021		Soil	S21-Ap17347				X		X			X				
9	BH350 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17349						X			X				

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Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
10	BH339 0-0.1	Apr 07, 2021		Soil	S21-Ap17350									X			X	
11	BH340 0-0.2	Apr 07, 2021		Soil	S21-Ap17351					X				X				
12	BH341 0-0.2	Apr 07, 2021		Soil	S21-Ap17352				X		X			X				
13	BH365 0-0.2	Apr 07, 2021		Soil	S21-Ap17353					X				X		X		
14	BH366 0.2-0.6	Apr 07, 2021		Soil	S21-Ap17354				X		X			X				
15	BH369 0-0.5	Apr 07, 2021		Soil	S21-Ap17355					X				X		X		
16	BH344 0-0.2	Apr 07, 2021		Soil	S21-Ap17356									X			X	
17	BH363 0-0.1	Apr 07, 2021		Soil	S21-Ap17357				X		X			X				
18	BH387 0-0.1	Apr 07, 2021		Soil	S21-Ap17358				X		X			X				
19	BH347 0-0.2	Apr 08, 2021		Soil	S21-Ap17359				X		X			X				
20	BH346 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17360				X		X			X				

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Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
21	BH336 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17361					X	X			X				
22	BH369 0-0.1	Apr 08, 2021		Soil	S21-Ap17362								X	X				
23	BH345 0-0.1	Apr 08, 2021		Soil	S21-Ap17363					X	X			X				
24	BH338 0-0.1	Apr 08, 2021		Soil	S21-Ap17364									X			X	
25	BH361 0-0.1	Apr 08, 2021		Soil	S21-Ap17365					X	X			X				
26	BH386 0.5-0.6	Apr 08, 2021		Soil	S21-Ap17366				X		X			X				
27	BH172 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17367									X	X			
28	BH177 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17368				X		X			X				
29	BH348 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17370									X	X			
30	BH335 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17371								X	X		X		
31	BH334 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17372									X	X			

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Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
35 O'Rorke Road
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IANZ # 1290

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Project ID: 60482

Order No.:
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Fax:

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Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	BTEX	Suite B13: OCP/PCB	Moisture Set	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B4	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
32	BH350 0-0.2	Apr 08, 2021		Soil	S21-Ap17373								X	X		X		
33	BH352 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17374									X			X	
34	BH372 0-0.1	Apr 08, 2021		Soil	S21-Ap17375					X				X				
35	BH379 0-0.1	Apr 08, 2021		Soil	S21-Ap17376				X		X			X				
36	BH373 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17377									X	X			
37	BH377 0-0.1	Apr 08, 2021		Soil	S21-Ap17378					X				X			X	
38	BH171 0-0.1	Apr 08, 2021		Soil	S21-Ap17379				X		X			X				
39	BH172 0-0.1	Apr 08, 2021		Soil	S21-Ap17380									X	X			
40	BH175 0-0.1	Apr 08, 2021		Soil	S21-Ap17381				X		X			X				
41	BH169 0-0.1	Apr 08, 2021		Soil	S21-Ap17382					X				X		X		
42	BH170 0-0.1	Apr 08, 2021		Soil	S21-Ap17383				X		X			X				

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Melbourne
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Unit F3, Building F
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Perth
46-48 Banksia Road
Welshpool WA 6106
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NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
35 O'Rorke Road
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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
43	BH331 0-0.1	Apr 08, 2021		Soil	S21-Ap17384				X	X	X			X				
44	BH375 0-0.1	Apr 08, 2021		Soil	S21-Ap17385									X			X	
45	BH353 0-0.1	Apr 08, 2021		Soil	S21-Ap17386									X			X	
46	BH384 0-0.1	Apr 07, 2021		Soil	S21-Ap17387				X		X			X				
47	BH371 0-0.1	Apr 07, 2021		Soil	S21-Ap17388									X			X	
48	BH360 0-0.1	Apr 07, 2021		Soil	S21-Ap17389				X		X			X				
49	BH388 0-0.1	Apr 07, 2021		Soil	S21-Ap17390									X			X	
50	BH389 0-0.1	Apr 07, 2021		Soil	S21-Ap17391								X	X				
51	BH367 0-0.1	Apr 07, 2021		Soil	S21-Ap17392						X			X		X		
52	BH364 0-0.1	Apr 07, 2021		Soil	S21-Ap17393						X			X		X		
53	BH385 0-0.1	Apr 07, 2021		Soil	S21-Ap17394									X			X	

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Australia

Melbourne
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Unit F3, Building F
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Perth
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Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
54	TP450 2-2.5	Apr 08, 2021		Soil	S21-Ap17395	X												
55	TP451 1-2	Apr 08, 2021		Soil	S21-Ap17396	X												
56	TP457 2-2.5	Apr 08, 2021		Soil	S21-Ap17397	X												
57	TP452 1-2	Apr 08, 2021		Soil	S21-Ap17398	X												
58	TP460 2-2.6	Apr 08, 2021		Soil	S21-Ap17399	X												
59	TP449 0.3-0.9	Apr 08, 2021		Soil	S21-Ap17400	X												
60	TP461 1-2	Apr 08, 2021		Soil	S21-Ap17401	X												
61	TP454 0.7-1.2	Apr 08, 2021		Soil	S21-Ap17402	X												
62	TP456 2.8-3	Apr 08, 2021		Soil	S21-Ap17403	X												
63	TP452 2.4-2.5	Apr 08, 2021		Soil	S21-Ap17404									X	X			
64	TP456 0-0.1	Apr 08, 2021		Soil	S21-Ap17405									X	X			

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Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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
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Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
35 O'Rorke Road
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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
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Mayfield Laboratory																		
External Laboratory																		
65	TP452 1.1-1.2	Apr 08, 2021		Soil	S21-Ap17406					X				X	X			
66	TP454 1.4-1.5	Apr 08, 2021		Soil	S21-Ap17407									X	X			
67	TP461 2.4-2.5	Apr 08, 2021		Soil	S21-Ap17408					X				X	X			
68	TP457 2.5-2.6	Apr 08, 2021		Soil	S21-Ap17409				X		X			X				
69	TP449 1.2-1.3	Apr 08, 2021		Soil	S21-Ap17410									X	X			
70	TP445 1-1.8	Apr 08, 2021		Soil	S21-Ap17411	X												
71	BH355 0-0.2	Apr 08, 2021		Soil	S21-Ap17412				X		X			X				
72	TS	Apr 08, 2021		Water	S21-Ap17413													X
73	TB	Apr 08, 2021		Water	S21-Ap17414							X						
74	TP459 1.4-2.4	Apr 08, 2021		Soil	S21-Ap17415	X												
75	BH354 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17416			X										

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Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
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Rolleston, Christchurch 7675
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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
76	BH351 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17418			X										
77	BH349 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17422			X										
78	FC1	Apr 08, 2021		Building Materials	S21-Ap17423			X										
79	BH339 0.4-0.5	Apr 07, 2021		Soil	S21-Ap17424			X										
80	BH340 0.2-0.5	Apr 07, 2021		Soil	S21-Ap17425			X										
81	BH341 0.2-0.5	Apr 07, 2021		Soil	S21-Ap17426			X										
82	BH365 0.2-0.6	Apr 07, 2021		Soil	S21-Ap17427			X										
83	BH366 0-0.2	Apr 07, 2021		Soil	S21-Ap17428			X										
84	BH369 0.6-1.1	Apr 07, 2021		Soil	S21-Ap17429			X										
85	BH343 0-0.2	Apr 07, 2021		Soil	S21-Ap17430			X										

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Australia

Melbourne
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Site # 1254 & 14271

Sydney
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16 Mars Road
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Brisbane
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Perth
46-48 Banksia Road
Welshpool WA 6106
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Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
86	BH343 0.2-0.5	Apr 07, 2021		Soil	S21-Ap17431			X										
87	BH344 0.2-0.6	Apr 07, 2021		Soil	S21-Ap17432			X										
88	BH363 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17433			X										
89	BH387 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17434			X										
90	BH337 0-0.2	Apr 08, 2021		Soil	S21-Ap17435			X										
91	BH346 0-0.2	Apr 08, 2021		Soil	S21-Ap17436			X										
92	BH347 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17437			X										
93	BH337 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17438			X										
94	BH336 0-0.2	Apr 08, 2021		Soil	S21-Ap17439			X										
95	BH369 0.5-0.6	Apr 08, 2021		Soil	S21-Ap17440		X											
96	BH345 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17441			X										

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Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
97	BH338 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17442			X										
98	BH361 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17443			X										
99	BH386 0-0.1	Apr 08, 2021		Soil	S21-Ap17444			X										
100	BH362 0-0.1	Apr 08, 2021		Soil	S21-Ap17445			X										
101	BH362 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17446			X										
102	BH173 0-0.1	Apr 08, 2021		Soil	S21-Ap17447			X										
103	BH173 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17448			X										
104	BH177 0-0.1	Apr 08, 2021		Soil	S21-Ap17449			X										
105	BH178 0-0.1	Apr 08, 2021		Soil	S21-Ap17450			X										
106	BH178 0.3-..5	Apr 08, 2021		Soil	S21-Ap17451			X										
107	BH332 0-0.1	Apr 08, 2021		Soil	S21-Ap17452			X										

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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
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Mayfield Laboratory																		
External Laboratory																		
108	BH332 0.5-0.6	Apr 08, 2021		Soil	S21-Ap17453			X										
109	BH349 0-0.2	Apr 08, 2021		Soil	S21-Ap17456			X										
110	BH356 0-0.1	Apr 08, 2021		Soil	S21-Ap17460			X										
111	BH356 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17461			X										
112	BH372 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17462			X										
113	BH382 0-0.1	Apr 08, 2021		Soil	S21-Ap17463			X										
114	BH382 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17464			X										
115	BH379 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17465			X										
116	BH373 0-0.1	Apr 08, 2021		Soil	S21-Ap17466			X										
117	BH383 0-0.1	Apr 08, 2021		Soil	S21-Ap17467			X										
118	BH383 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17468			X										

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Australia

Melbourne
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Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
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Brisbane
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Perth
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4/52 Industrial Drive
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Project ID: 60482

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Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 9:02 AM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
119	BH377 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17469			X										
120	BH386 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17471			X										
121	BH171 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17472			X										
122	BH175 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17473			X										
123	BH176 0-0.1	Apr 08, 2021		Soil	S21-Ap17474			X										
124	BH176 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17475			X										
125	BH174 0-0.1	Apr 08, 2021		Soil	S21-Ap17476			X										
126	BH174 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17477			X										
127	BH169 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17478			X										
128	BH170 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17479			X										
129	BH331 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17480			X										

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Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
130	BH331 FRAG	Apr 08, 2021		Building Materials	S21-Ap17481			X										
131	BH375 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17482			X										
132	BH378 0-0.1	Apr 08, 2021		Soil	S21-Ap17483			X										
133	BH378 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17484			X										
134	BH353 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17485			X										
135	BH352 0-0.1	Apr 08, 2021		Soil	S21-Ap17486			X										
136	BH342 0-0.1	Apr 07, 2021		Soil	S21-Ap17487			X										
137	BH370 0-0.1	Apr 07, 2021		Soil	S21-Ap17488			X										
138	BH384 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17489			X										
139	BH371 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17490			X										

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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
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Mayfield Laboratory																		
External Laboratory																		
140	BH360 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17491			X										
141	BH388 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17492			X										
142	BH389 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17493			X										
143	BH367 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17494			X										
144	BH342 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17495			X										
145	BH364 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17496			X										
146	BH386 0.5-0.7	Apr 07, 2021		Soil	S21-Ap17497			X										
147	BH370 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17498			X										
148	TP450 0-1	Apr 08, 2021		Soil	S21-Ap17499			X										
149	TP450 1-2	Apr 08, 2021		Soil	S21-Ap17500			X										
150	TP459 0-0.4	Apr 08, 2021		Soil	S21-Ap17501			X										

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Australia

Melbourne
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Unit F3, Building F
16 Mars Road
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Perth
46-48 Banksia Road
Welshpool WA 6106
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Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
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New Zealand

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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
151	TP454 0-0.7	Apr 08, 2021		Soil	S21-Ap17502			X										
152	TP444 0-0.3	Apr 08, 2021		Soil	S21-Ap17503			X										
153	TP452 0-1	Apr 08, 2021		Soil	S21-Ap17504			X										
154	TP452 0-0.1	Apr 08, 2021		Soil	S21-Ap17505			X										
155	TP451 2-2.8	Apr 08, 2021		Soil	S21-Ap17506			X										
156	TP457 1-2	Apr 08, 2021		Soil	S21-Ap17507			X										
157	TP460 1-2	Apr 08, 2021		Soil	S21-Ap17508			X										
158	TP451 2.8-3.8	Apr 08, 2021		Soil	S21-Ap17509			X										
159	TP457 0-1	Apr 08, 2021		Soil	S21-Ap17510			X										
160	TP456 1-2	Apr 08, 2021		Soil	S21-Ap17511			X										
161	TP461 0-1	Apr 08, 2021		Soil	S21-Ap17512			X										

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Melbourne
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Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
162	TP460 2.6-2.8	Apr 08, 2021		Soil	S21-Ap17513			X										
163	TP451 0-1	Apr 08, 2021		Soil	S21-Ap17514			X										
164	TP456 0-1	Apr 08, 2021		Soil	S21-Ap17515			X										
165	TP460 0-1	Apr 08, 2021		Soil	S21-Ap17516			X										
166	TP456 0.3-3.5	Apr 08, 2021		Soil	S21-Ap17517			X										
167	TP452 0-0.1	Apr 08, 2021		Soil	S21-Ap17518			X										
168	TP460 0-0.1	Apr 08, 2021		Soil	S21-Ap17519			X										
169	TP460 2.6-2.8	Apr 08, 2021		Soil	S21-Ap17520			X										
170	TP451 2.8-3	Apr 08, 2021		Soil	S21-Ap17521			X										
171	TP449 1-1.1	Apr 08, 2021		Soil	S21-Ap17522			X										
172	TP457 0-0.1	Apr 08, 2021		Soil	S21-Ap17523			X										

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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
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Mayfield Laboratory																		
External Laboratory																		
173	TP451 0-0.1	Apr 08, 2021		Soil	S21-Ap17524			X										
174	TP450 2.5-2.6	Apr 08, 2021		Soil	S21-Ap17525			X										
175	TP357 0-0.1	Apr 08, 2021		Soil	S21-Ap17526			X										
176	TP358 0-0.1	Apr 08, 2021		Soil	S21-Ap17527			X										
177	TP445 0-1	Apr 08, 2021		Soil	S21-Ap17528			X										
178	TP445 1.8-2.5	Apr 08, 2021		Soil	S21-Ap17529			X										
179	TP445 2.5-3.5	Apr 08, 2021		Soil	S21-Ap17530			X										
180	TP459 0.4-1.4	Apr 08, 2021		Soil	S21-Ap17533			X										
181	BHX	Apr 08, 2021		Soil	S21-Ap19659			X										
182	BH380 0.0-0.1	Apr 08, 2021		Soil	S21-Ap19660			X										
183	BH362	Apr 08, 2021		Soil	S21-Ap19661			X										

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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
184	BLANK	Apr 08, 2021		Soil	S21-Ap19662			X										
Test Counts						11	1	109	22	14	28	1	5	61	12	8	10	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 blue colour, 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 '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 Advice.

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: weight for weight basis	grams per kilogram
Filter loading:	fibres/100 graticule areas
Reported Concentration:	fibres/mL
Flowrate:	L/min

Terms

Dry	Sample is dried by heating prior to analysis
LOR	Limit of Reporting
COC	Chain of Custody
SRA	Sample Receipt Advice
ISO	International Standards Organisation
AS	Australian Standards
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 (2009), including supporting document Recommended Procedures for Laboratory Analysis of Asbestos in Soil (2011)
NEPM	National Environment Protection (Assessment of Site Contamination) Measure, 2013 (as amended)
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded and/or sound condition. For the purposes of the NEPM, ACM is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
AF	Asbestos Fines. Asbestos containing materials, including friable, weathered and bonded materials, able to pass a 7mm x 7mm sieve. Considered under the NEPM as equivalent to “non-bonded / friable”.
FA	Fibrous Asbestos. Asbestos containing materials in a friable and/or severely weathered condition. For the purposes of the NEPM, FA is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
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.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres in the matrix.

Comments

Ap17395, Ap17397, Ap17398, Ap17400 to Ap17403: 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	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
N/A	Not applicable

Asbestos Counter/Identifier:

Sayeed Abu	Senior Analyst-Asbestos (NSW)

Authorised by:

Chamath JHM Annakkage	Senior Analyst-Asbestos (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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JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

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Attention: **Ryan Lill**

Report **786610-S**
Project name KEMPS CREEK DSI
Project ID 60482
Received Date Apr 12, 2021

Client Sample ID			**BH354 0-0.2**	**BH354 0.9-1**	**BH355 0.4-0.5**	**BH351 0-0.2**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**S21-Ap17340**	**S21-Ap17341**	**S21-Ap17342**	**S21-Ap17343**
Date Sampled			**Apr 08, 2021**	**Apr 08, 2021**	**Apr 08, 2021**	**Apr 08, 2021**
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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	-
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	-
2-Fluorobiphenyl (surr.)	1	%	94	-	87	-
p-Terphenyl-d14 (surr.)	1	%	119	-	113	-
Heavy Metals						
Arsenic	2	mg/kg	13	-	15	-
Cadmium	0.4	mg/kg	< 0.4	-	< 0.4	-
Chromium	5	mg/kg	18	-	24	-
Copper	5	mg/kg	42	-	25	-
Lead	5	mg/kg	19	-	15	-
Mercury	0.1	mg/kg	< 0.1	-	< 0.1	-
Nickel	5	mg/kg	9.7	-	8.8	-
Zinc	5	mg/kg	72	-	46	-
% Moisture	1	%	22	18	21	21

Client Sample ID			BH354 0-0.2	BH354 0.9-1	BH355 0.4-0.5	BH351 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17340	S21-Ap17341	S21-Ap17342	S21-Ap17343
Date Sampled			Apr 08, 2021	Apr 08, 2021	Apr 08, 2021	Apr 08, 2021
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	-	< 50	-	-
TRH C29-C36	50	mg/kg	-	< 50	-	-
TRH C10-C36 (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	%	-	90	-	-
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	-	-
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	-	-
Acid Herbicides						
2.4-D	0.5	mg/kg	-	< 0.5	-	-
2.4-DB	0.5	mg/kg	-	< 0.5	-	-
2.4.5-T	0.5	mg/kg	-	< 0.5	-	-
2.4.5-TP	0.5	mg/kg	-	< 0.5	-	-
Actril (loxynil)	0.5	mg/kg	-	< 0.5	-	-
Dicamba	0.5	mg/kg	-	< 0.5	-	-
Dichlorprop	0.5	mg/kg	-	< 0.5	-	-
Dinitro-o-cresol	0.5	mg/kg	-	< 0.5	-	-
Dinoseb	0.5	mg/kg	-	< 0.5	-	-
MCPA	0.5	mg/kg	-	< 0.5	-	-
MCPB	0.5	mg/kg	-	< 0.5	-	-
Mecoprop	0.5	mg/kg	-	< 0.5	-	-
Warfarin (surr.)	1	%	-	61	-	-
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

Client Sample ID			BH354 0-0.2	BH354 0.9-1	BH355 0.4-0.5	BH351 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17340	S21-Ap17341	S21-Ap17342	S21-Ap17343
Date Sampled			Apr 08, 2021	Apr 08, 2021	Apr 08, 2021	Apr 08, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
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	0.1	mg/kg	-	-	-	< 0.1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	-	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	-	< 0.2
Dibutylchlorendate (surr.)	1	%	-	-	-	132
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	114
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1221	0.1	mg/kg	-	-	-	< 0.1
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	%	-	-	-	132
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	114

Client Sample ID			BH335 0-0.2	BH334 0-0.2	BH348 0-0.2	BH349 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17344	S21-Ap17345	S21-Ap17346	S21-Ap17347
Date Sampled			Apr 08, 2021	Apr 08, 2021	Apr 08, 2021	Apr 08, 2021
Test/Reference	LOR	Unit				
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

Client Sample ID			BH335 0-0.2	BH334 0-0.2	BH348 0-0.2	BH349 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17344	S21-Ap17345	S21-Ap17346	S21-Ap17347
Date Sampled			Apr 08, 2021	Apr 08, 2021	Apr 08, 2021	Apr 08, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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	%	79	89	74	82
p-Terphenyl-d14 (surr.)	1	%	92	99	84	93
Heavy Metals						
Arsenic	2	mg/kg	9.6	13	9.8	11
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	15	23	20	22
Copper	5	mg/kg	62	57	50	51
Lead	5	mg/kg	18	21	18	22
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	9.7	13	11	13
Zinc	5	mg/kg	54	100	86	88
% Moisture	1	%	19	21	19	18
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	-	< 20	-
TRH C10-C14	20	mg/kg	-	-	160	-
TRH C15-C28	50	mg/kg	-	-	670	-
TRH C29-C36	50	mg/kg	-	-	< 50	-
TRH C10-C36 (Total)	50	mg/kg	-	-	830	-
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	%	-	-	91	-
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	-	-	320	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	-	320	-
TRH >C16-C34	100	mg/kg	-	-	480	-
TRH >C34-C40	100	mg/kg	-	-	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	-	-	800	-
Acid Herbicides						
2.4-D	0.5	mg/kg	-	-	< 0.5	-
2.4-DB	0.5	mg/kg	-	-	< 0.5	-
2.4.5-T	0.5	mg/kg	-	-	< 0.5	-
2.4.5-TP	0.5	mg/kg	-	-	< 0.5	-
Actril (loxynil)	0.5	mg/kg	-	-	< 0.5	-
Dicamba	0.5	mg/kg	-	-	< 0.5	-
Dichlorprop	0.5	mg/kg	-	-	< 0.5	-

Client Sample ID			BH335 0-0.2	BH334 0-0.2	BH348 0-0.2	BH349 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17344	S21-Ap17345	S21-Ap17346	S21-Ap17347
Date Sampled			Apr 08, 2021	Apr 08, 2021	Apr 08, 2021	Apr 08, 2021
Test/Reference	LOR	Unit				
Acid Herbicides						
Dinitro-o-cresol	0.5	mg/kg	-	-	< 0.5	-
Dinoseb	0.5	mg/kg	-	-	< 0.5	-
MCPA	0.5	mg/kg	-	-	< 0.5	-
MCPB	0.5	mg/kg	-	-	< 0.5	-
Mecoprop	0.5	mg/kg	-	-	< 0.5	-
Warfarin (surr.)	1	%	-	-	57	-

Client Sample ID			BH350 0.4-0.5	BH339 0-0.1	BH340 0-0.2	BH341 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17349	S21-Ap17350	S21-Ap17351	S21-Ap17352
Date Sampled			Apr 08, 2021	Apr 07, 2021	Apr 07, 2021	Apr 07, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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
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
2-Fluorobiphenyl (surr.)	1	%	-	82	-	85
p-Terphenyl-d14 (surr.)	1	%	-	91	-	94
Heavy Metals						
Arsenic	2	mg/kg	33	-	-	21
Cadmium	0.4	mg/kg	< 0.4	-	-	< 0.4
Chromium	5	mg/kg	35	-	-	23
Copper	5	mg/kg	33	-	-	71
Lead	5	mg/kg	17	-	-	28
Mercury	0.1	mg/kg	< 0.1	-	-	< 0.1
Nickel	5	mg/kg	18	-	-	13
Zinc	5	mg/kg	85	-	-	100
% Moisture	1	%	28	18	18	15

Client Sample ID			BH350 0.4-0.5	BH339 0-0.1	BH340 0-0.2	BH341 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17349	S21-Ap17350	S21-Ap17351	S21-Ap17352
Date Sampled			Apr 08, 2021	Apr 07, 2021	Apr 07, 2021	Apr 07, 2021
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	-	< 50	-	-
TRH C29-C36	50	mg/kg	-	< 50	-	-
TRH C10-C36 (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	%	-	52	-	-
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	-	-
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	-	-
Acid Herbicides						
2.4-D	0.5	mg/kg	-	-	< 0.5	-
2.4-DB	0.5	mg/kg	-	-	< 0.5	-
2.4.5-T	0.5	mg/kg	-	-	< 0.5	-
2.4.5-TP	0.5	mg/kg	-	-	< 0.5	-
Actril (loxynil)	0.5	mg/kg	-	-	< 0.5	-
Dicamba	0.5	mg/kg	-	-	< 0.5	-
Dichlorprop	0.5	mg/kg	-	-	< 0.5	-
Dinitro-o-cresol	0.5	mg/kg	-	-	< 0.5	-
Dinoseb	0.5	mg/kg	-	-	< 0.5	-
MCPA	0.5	mg/kg	-	-	< 0.5	-
MCPB	0.5	mg/kg	-	-	< 0.5	-
Mecoprop	0.5	mg/kg	-	-	< 0.5	-
Warfarin (surr.)	1	%	-	-	64	-

Client Sample ID			BH365 0-0.2	BH366 0.2-0.6	BH369 0-0.5	BH344 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17353	S21-Ap17354	S21-Ap17355	S21-Ap17356
Date Sampled			Apr 07, 2021	Apr 07, 2021	Apr 07, 2021	Apr 07, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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
Acenaphthene	0.5	mg/kg	-	< 0.5	-	< 0.5
Acenaphthylene	0.5	mg/kg	-	< 0.5	-	< 0.5

Client Sample ID			BH365 0-0.2	BH366 0.2-0.6	BH369 0-0.5	BH344 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17353	S21-Ap17354	S21-Ap17355	S21-Ap17356
Date Sampled			Apr 07, 2021	Apr 07, 2021	Apr 07, 2021	Apr 07, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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
2-Fluorobiphenyl (surr.)	1	%	-	77	-	73
p-Terphenyl-d14 (surr.)	1	%	-	94	-	89
Heavy Metals						
Arsenic	2	mg/kg	-	29	-	-
Cadmium	0.4	mg/kg	-	< 0.4	-	-
Chromium	5	mg/kg	-	25	-	-
Copper	5	mg/kg	-	54	-	-
Lead	5	mg/kg	-	21	-	-
Mercury	0.1	mg/kg	-	< 0.1	-	-
Nickel	5	mg/kg	-	23	-	-
Zinc	5	mg/kg	-	110	-	-
% Moisture	1	%	18	18	22	23
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-C36 (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	%	114	-	83	96
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

Client Sample ID			BH365 0-0.2	BH366 0.2-0.6	BH369 0-0.5	BH344 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17353	S21-Ap17354	S21-Ap17355	S21-Ap17356
Date Sampled			Apr 07, 2021	Apr 07, 2021	Apr 07, 2021	Apr 07, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C34-C40	100	mg/kg	< 100	-	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	< 100	< 100
Acid Herbicides						
2.4-D	0.5	mg/kg	< 0.5	-	< 0.5	-
2.4-DB	0.5	mg/kg	< 0.5	-	< 0.5	-
2.4.5-T	0.5	mg/kg	< 0.5	-	< 0.5	-
2.4.5-TP	0.5	mg/kg	< 0.5	-	< 0.5	-
Actril (loxynil)	0.5	mg/kg	< 0.5	-	< 0.5	-
Dicamba	0.5	mg/kg	< 0.5	-	< 0.5	-
Dichlorprop	0.5	mg/kg	< 0.5	-	< 0.5	-
Dinitro-o-cresol	0.5	mg/kg	< 0.5	-	< 0.5	-
Dinoseb	0.5	mg/kg	< 0.5	-	< 0.5	-
MCPA	0.5	mg/kg	< 0.5	-	< 0.5	-
MCPB	0.5	mg/kg	< 0.5	-	< 0.5	-
Mecoprop	0.5	mg/kg	< 0.5	-	< 0.5	-
Warfarin (surr.)	1	%	68	-	67	-

Client Sample ID			BH363 0-0.1	BH387 0-0.1	BH347 0-0.2	BH346 0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17357	S21-Ap17358	S21-Ap17359	S21-Ap17360
Date Sampled			Apr 07, 2021	Apr 07, 2021	Apr 08, 2021	Apr 08, 2021
Test/Reference	LOR	Unit				
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	%	76	85	82	74
p-Terphenyl-d14 (surr.)	1	%	94	87	92	84

Client Sample ID			BH363 0-0.1	BH387 0-0.1	BH347 0-0.2	BH346 0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17357	S21-Ap17358	S21-Ap17359	S21-Ap17360
Date Sampled			Apr 07, 2021	Apr 07, 2021	Apr 08, 2021	Apr 08, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	11	17	8.8	11
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	23	30	19	24
Copper	5	mg/kg	68	65	53	42
Lead	5	mg/kg	25	29	17	19
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	12	14	11	15
Zinc	5	mg/kg	140	140	87	68
% Moisture	1	%	14	15	21	17

Client Sample ID			BH336 0.4-0.5	BH369 0-0.1	BH345 0-0.1	BH338 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17361	S21-Ap17362	S21-Ap17363	S21-Ap17364
Date Sampled			Apr 08, 2021	Apr 08, 2021	Apr 08, 2021	Apr 08, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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
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
2-Fluorobiphenyl (surr.)	1	%	-	-	-	76
p-Terphenyl-d14 (surr.)	1	%	-	-	-	86
Heavy Metals						
Arsenic	2	mg/kg	14	-	9.6	-
Cadmium	0.4	mg/kg	< 0.4	-	< 0.4	-
Chromium	5	mg/kg	19	-	20	-
Copper	5	mg/kg	45	-	67	-
Lead	5	mg/kg	21	-	22	-
Mercury	0.1	mg/kg	< 0.1	-	< 0.1	-
Nickel	5	mg/kg	14	-	12	-
Zinc	5	mg/kg	54	-	130	-

Client Sample ID			BH336 0.4-0.5	BH369 0-0.1	BH345 0-0.1	BH338 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17361	S21-Ap17362	S21-Ap17363	S21-Ap17364
Date Sampled			Apr 08, 2021	Apr 08, 2021	Apr 08, 2021	Apr 08, 2021
Test/Reference	LOR	Unit				
% Moisture	1	%	20	10	8.4	14
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-C36 (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	%	-	-	-	95
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
TRH >C10-C40 (total)*	100	mg/kg	-	-	-	< 100
Acid Herbicides						
2.4-D	0.5	mg/kg	< 0.5	-	< 0.5	-
2.4-DB	0.5	mg/kg	< 0.5	-	< 0.5	-
2.4.5-T	0.5	mg/kg	< 0.5	-	< 0.5	-
2.4.5-TP	0.5	mg/kg	< 0.5	-	< 0.5	-
Actril (loxynil)	0.5	mg/kg	< 0.5	-	< 0.5	-
Dicamba	0.5	mg/kg	< 0.5	-	< 0.5	-
Dichlorprop	0.5	mg/kg	< 0.5	-	< 0.5	-
Dinitro-o-cresol	0.5	mg/kg	< 0.5	-	< 0.5	-
Dinoseb	0.5	mg/kg	< 0.5	-	< 0.5	-
MCPA	0.5	mg/kg	< 0.5	-	< 0.5	-
MCPB	0.5	mg/kg	< 0.5	-	< 0.5	-
Mecoprop	0.5	mg/kg	< 0.5	-	< 0.5	-
Warfarin (surr.)	1	%	68	-	69	-
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			BH336 0.4-0.5	BH369 0-0.1	BH345 0-0.1	BH338 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17361	S21-Ap17362	S21-Ap17363	S21-Ap17364
Date Sampled			Apr 08, 2021	Apr 08, 2021	Apr 08, 2021	Apr 08, 2021
Test/Reference	LOR	Unit				
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	0.1	mg/kg	-	< 0.1	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.2	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.2	-	-
Dibutylchlorendate (surr.)	1	%	-	92	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	107	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	< 0.5	-	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	-
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	%	-	92	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	107	-	-

Client Sample ID			BH361 0-0.1	BH386 0.5-0.6	BH172 0.4-0.5	BH177 0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17365	S21-Ap17366	S21-Ap17367	S21-Ap17368
Date Sampled			Apr 08, 2021	Apr 08, 2021	Apr 08, 2021	Apr 08, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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
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

Client Sample ID			BH361 0-0.1	BH386 0.5-0.6	BH172 0.4-0.5	BH177 0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17365	S21-Ap17366	S21-Ap17367	S21-Ap17368
Date Sampled			Apr 08, 2021	Apr 08, 2021	Apr 08, 2021	Apr 08, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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
2-Fluorobiphenyl (surr.)	1	%	-	79	81	80
p-Terphenyl-d14 (surr.)	1	%	-	86	93	91
Heavy Metals						
Arsenic	2	mg/kg	11	10	20	12
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	23	20	19	26
Copper	5	mg/kg	72	64	19	33
Lead	5	mg/kg	24	22	15	14
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	12	11	12	18
Zinc	5	mg/kg	140	140	54	70
% Moisture	1	%	13	13	16	19
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-C36 (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	%	-	-	99	-
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	-
TRH >C10-C40 (total)*	100	mg/kg	-	-	< 100	-
Acid Herbicides						
2.4-D	0.5	mg/kg	< 0.5	-	-	-
2.4-DB	0.5	mg/kg	< 0.5	-	-	-
2.4.5-T	0.5	mg/kg	< 0.5	-	-	-
2.4.5-TP	0.5	mg/kg	< 0.5	-	-	-
Actril (loxynil)	0.5	mg/kg	< 0.5	-	-	-

Client Sample ID			BH361 0-0.1	BH386 0.5-0.6	BH172 0.4-0.5	BH177 0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17365	S21-Ap17366	S21-Ap17367	S21-Ap17368
Date Sampled			Apr 08, 2021	Apr 08, 2021	Apr 08, 2021	Apr 08, 2021
Test/Reference	LOR	Unit				
Acid Herbicides						
Dicamba	0.5	mg/kg	< 0.5	-	-	-
Dichlorprop	0.5	mg/kg	< 0.5	-	-	-
Dinitro-o-cresol	0.5	mg/kg	< 0.5	-	-	-
Dinoseb	0.5	mg/kg	< 0.5	-	-	-
MCPA	0.5	mg/kg	< 0.5	-	-	-
MCPB	0.5	mg/kg	< 0.5	-	-	-
Mecoprop	0.5	mg/kg	< 0.5	-	-	-
Warfarin (surr.)	1	%	62	-	-	-

Client Sample ID			BH348 0.4-0.5	BH335 0.4-0.5	BH334 0.4-0.5	BH350 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17370	S21-Ap17371	S21-Ap17372	S21-Ap17373
Date Sampled			Apr 08, 2021	Apr 08, 2021	Apr 08, 2021	Apr 08, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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	-
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	-
2-Fluorobiphenyl (surr.)	1	%	85	-	82	-
p-Terphenyl-d14 (surr.)	1	%	94	-	93	-
Heavy Metals						
Arsenic	2	mg/kg	9.5	-	9.4	-
Cadmium	0.4	mg/kg	< 0.4	-	< 0.4	-
Chromium	5	mg/kg	22	-	25	-
Copper	5	mg/kg	35	-	37	-
Lead	5	mg/kg	16	-	15	-
Mercury	0.1	mg/kg	< 0.1	-	< 0.1	-
Nickel	5	mg/kg	12	-	16	-
Zinc	5	mg/kg	51	-	71	-
% Moisture	1	%	18	21	22	20

Client Sample ID			BH348 0.4-0.5	BH335 0.4-0.5	BH334 0.4-0.5	BH350 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17370	S21-Ap17371	S21-Ap17372	S21-Ap17373
Date Sampled			Apr 08, 2021	Apr 08, 2021	Apr 08, 2021	Apr 08, 2021
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	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (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	%	96	72	95	62
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
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
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	0.1	mg/kg	-	< 0.1	-	< 0.1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.2	-	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.2	-	< 0.2
Dibutylchlorendate (surr.)	1	%	-	101	-	92
Tetrachloro-m-xylene (surr.)	1	%	-	92	-	89

Client Sample ID			BH348 0.4-0.5	BH335 0.4-0.5	BH334 0.4-0.5	BH350 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17370	S21-Ap17371	S21-Ap17372	S21-Ap17373
Date Sampled			Apr 08, 2021	Apr 08, 2021	Apr 08, 2021	Apr 08, 2021
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	< 0.5	-	< 0.5
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	< 0.1
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	%	-	101	-	92
Tetrachloro-m-xylene (surr.)	1	%	-	92	-	89

Client Sample ID			BH352 0.3-0.4	BH372 0-0.1	BH379 0-0.1	BH373 0.3-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17374	S21-Ap17375	S21-Ap17376	S21-Ap17377
Date Sampled			Apr 08, 2021	Apr 08, 2021	Apr 08, 2021	Apr 08, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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
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
2-Fluorobiphenyl (surr.)	1	%	83	-	85	84
p-Terphenyl-d14 (surr.)	1	%	97	-	95	95
Heavy Metals						
Arsenic	2	mg/kg	-	-	18	7.0
Cadmium	0.4	mg/kg	-	-	< 0.4	< 0.4
Chromium	5	mg/kg	-	-	25	21
Copper	5	mg/kg	-	-	43	28
Lead	5	mg/kg	-	-	28	13
Mercury	0.1	mg/kg	-	-	< 0.1	< 0.1
Nickel	5	mg/kg	-	-	15	6.3
Zinc	5	mg/kg	-	-	77	33

Client Sample ID			BH352 0.3-0.4	BH372 0-0.1	BH379 0-0.1	BH373 0.3-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17374	S21-Ap17375	S21-Ap17376	S21-Ap17377
Date Sampled			Apr 08, 2021	Apr 08, 2021	Apr 08, 2021	Apr 08, 2021
Test/Reference	LOR	Unit				
% Moisture	1	%	23	18	21	21
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-C36 (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	%	70	-	-	85
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
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	-	< 100
Acid Herbicides						
2.4-D	0.5	mg/kg	-	< 0.5	-	-
2.4-DB	0.5	mg/kg	-	< 0.5	-	-
2.4.5-T	0.5	mg/kg	-	< 0.5	-	-
2.4.5-TP	0.5	mg/kg	-	< 0.5	-	-
Actril (loxynil)	0.5	mg/kg	-	< 0.5	-	-
Dicamba	0.5	mg/kg	-	< 0.5	-	-
Dichlorprop	0.5	mg/kg	-	< 0.5	-	-
Dinitro-o-cresol	0.5	mg/kg	-	< 0.5	-	-
Dinoseb	0.5	mg/kg	-	< 0.5	-	-
MCPA	0.5	mg/kg	-	< 0.5	-	-
MCPB	0.5	mg/kg	-	< 0.5	-	-
Mecoprop	0.5	mg/kg	-	< 0.5	-	-
Warfarin (surr.)	1	%	-	99	-	-

Client Sample ID			BH377 0-0.1	BH171 0-0.1	BH172 0-0.1	BH175 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17378	S21-Ap17379	S21-Ap17380	S21-Ap17381
Date Sampled			Apr 08, 2021	Apr 08, 2021	Apr 08, 2021	Apr 08, 2021
Test/Reference	LOR	Unit				
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	%	92	96	81	106
p-Terphenyl-d14 (surr.)	1	%	96	106	95	92
Heavy Metals						
Arsenic	2	mg/kg	-	9.3	21	17
Cadmium	0.4	mg/kg	-	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	-	19	15	24
Copper	5	mg/kg	-	23	14	17
Lead	5	mg/kg	-	19	22	25
Mercury	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	-	13	18	9.1
Zinc	5	mg/kg	-	67	80	40
% Moisture	1	%	21	23	16	21
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-C36 (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	%	INT	-	84	-

Client Sample ID			BH377 0-0.1	BH171 0-0.1	BH172 0-0.1	BH175 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17378	S21-Ap17379	S21-Ap17380	S21-Ap17381
Date Sampled			Apr 08, 2021	Apr 08, 2021	Apr 08, 2021	Apr 08, 2021
Test/Reference	LOR	Unit				
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	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	< 100	-
Acid Herbicides						
2.4-D	0.5	mg/kg	< 0.5	-	-	-
2.4-DB	0.5	mg/kg	< 0.5	-	-	-
2.4.5-T	0.5	mg/kg	< 0.5	-	-	-
2.4.5-TP	0.5	mg/kg	< 0.5	-	-	-
Actril (loxynil)	0.5	mg/kg	< 0.5	-	-	-
Dicamba	0.5	mg/kg	< 0.5	-	-	-
Dichlorprop	0.5	mg/kg	< 0.5	-	-	-
Dinitro-o-cresol	0.5	mg/kg	< 0.5	-	-	-
Dinoseb	0.5	mg/kg	< 0.5	-	-	-
MCPA	0.5	mg/kg	< 0.5	-	-	-
MCPB	0.5	mg/kg	< 0.5	-	-	-
Mecoprop	0.5	mg/kg	< 0.5	-	-	-
Warfarin (surr.)	1	%	60	-	-	-

Client Sample ID			BH169 0-0.1	BH170 0-0.1	BH331 0-0.1	BH375 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17382	S21-Ap17383	S21-Ap17384	S21-Ap17385
Date Sampled			Apr 08, 2021	Apr 08, 2021	Apr 08, 2021	Apr 08, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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
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

Client Sample ID			BH169 0-0.1	BH170 0-0.1	BH331 0-0.1	BH375 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17382	S21-Ap17383	S21-Ap17384	S21-Ap17385
Date Sampled			Apr 08, 2021	Apr 08, 2021	Apr 08, 2021	Apr 08, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Total PAH*	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	87	89	86
p-Terphenyl-d14 (surr.)	1	%	-	103	99	91
Heavy Metals						
Arsenic	2	mg/kg	-	22	11	-
Cadmium	0.4	mg/kg	-	< 0.4	< 0.4	-
Chromium	5	mg/kg	-	19	24	-
Copper	5	mg/kg	-	22	48	-
Lead	5	mg/kg	-	21	20	-
Mercury	0.1	mg/kg	-	< 0.1	< 0.1	-
Nickel	5	mg/kg	-	15	12	-
Zinc	5	mg/kg	-	51	66	-
% Moisture	1	%	19	20	18	17
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-C36 (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	%	95	-	-	96
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
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	-	< 100
Acid Herbicides						
2.4-D	0.5	mg/kg	< 0.5	-	< 0.5	-
2.4-DB	0.5	mg/kg	< 0.5	-	< 0.5	-
2.4.5-T	0.5	mg/kg	< 0.5	-	< 0.5	-
2.4.5-TP	0.5	mg/kg	< 0.5	-	< 0.5	-
Actril (loxynil)	0.5	mg/kg	< 0.5	-	< 0.5	-
Dicamba	0.5	mg/kg	< 0.5	-	< 0.5	-
Dichlorprop	0.5	mg/kg	< 0.5	-	< 0.5	-
Dinitro-o-cresol	0.5	mg/kg	< 0.5	-	< 0.5	-
Dinoseb	0.5	mg/kg	< 0.5	-	< 0.5	-
MCPA	0.5	mg/kg	< 0.5	-	< 0.5	-
MCPB	0.5	mg/kg	< 0.5	-	< 0.5	-

Client Sample ID			BH169 0-0.1	BH170 0-0.1	BH331 0-0.1	BH375 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17382	S21-Ap17383	S21-Ap17384	S21-Ap17385
Date Sampled			Apr 08, 2021	Apr 08, 2021	Apr 08, 2021	Apr 08, 2021
Test/Reference	LOR	Unit				
Acid Herbicides						
Mecoprop	0.5	mg/kg	< 0.5	-	< 0.5	-
Warfarin (surr.)	1	%	62	-	66	-

Client Sample ID			BH353 0-0.1	BH384 0-0.1	BH371 0-0.1	BH360 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17386	S21-Ap17387	S21-Ap17388	S21-Ap17389
Date Sampled			Apr 08, 2021	Apr 07, 2021	Apr 07, 2021	Apr 07, 2021
Test/Reference	LOR	Unit				
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	%	81	83	82	85
p-Terphenyl-d14 (surr.)	1	%	93	92	96	95
Heavy Metals						
Arsenic	2	mg/kg	-	17	-	12
Cadmium	0.4	mg/kg	-	< 0.4	-	< 0.4
Chromium	5	mg/kg	-	26	-	21
Copper	5	mg/kg	-	83	-	71
Lead	5	mg/kg	-	25	-	20
Mercury	0.1	mg/kg	-	< 0.1	-	< 0.1
Nickel	5	mg/kg	-	14	-	14
Zinc	5	mg/kg	-	110	-	100
% Moisture	1	%	16	15	12	8.8
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-C36 (Total)	50	mg/kg	< 50	-	< 50	-

Client Sample ID			BH353 0-0.1	BH384 0-0.1	BH371 0-0.1	BH360 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17386	S21-Ap17387	S21-Ap17388	S21-Ap17389
Date Sampled			Apr 08, 2021	Apr 07, 2021	Apr 07, 2021	Apr 07, 2021
Test/Reference	LOR	Unit				
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	%	87	-	74	-
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	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	< 100	-

Client Sample ID			BH388 0-0.1	BH389 0-0.1	BH367 0-0.1	BH364 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17390	S21-Ap17391	S21-Ap17392	S21-Ap17393
Date Sampled			Apr 07, 2021	Apr 07, 2021	Apr 07, 2021	Apr 07, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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	-	-	-
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	-	-	-
2-Fluorobiphenyl (surr.)	1	%	74	-	-	-
p-Terphenyl-d14 (surr.)	1	%	83	-	-	-

Client Sample ID			BH388 0-0.1	BH389 0-0.1	BH367 0-0.1	BH364 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17390	S21-Ap17391	S21-Ap17392	S21-Ap17393
Date Sampled			Apr 07, 2021	Apr 07, 2021	Apr 07, 2021	Apr 07, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	-	-	16	13
Cadmium	0.4	mg/kg	-	-	< 0.4	< 0.4
Chromium	5	mg/kg	-	-	22	19
Copper	5	mg/kg	-	-	58	23
Lead	5	mg/kg	-	-	23	23
Mercury	0.1	mg/kg	-	-	< 0.1	< 0.1
Nickel	5	mg/kg	-	-	14	10
Zinc	5	mg/kg	-	-	100	36
% Moisture	1	%	17	14	14	20
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-C36 (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	%	91	-	100	60
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
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	< 100	< 100
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	-	-

Client Sample ID			BH388 0-0.1	BH389 0-0.1	BH367 0-0.1	BH364 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17390	S21-Ap17391	S21-Ap17392	S21-Ap17393
Date Sampled			Apr 07, 2021	Apr 07, 2021	Apr 07, 2021	Apr 07, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
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	0.1	mg/kg	-	< 0.1	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.2	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.2	-	-
Dibutylchlorendate (surr.)	1	%	-	123	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	103	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	< 0.5	-	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	-
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	%	-	123	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	103	-	-

Client Sample ID			BH385 0-0.1	TP452 2.4-2.5	TP456 0-0.1	[G01]TP452 1.1-1.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17394	S21-Ap17404	S21-Ap17405	S21-Ap17406
Date Sampled			Apr 07, 2021	Apr 08, 2021	Apr 08, 2021	Apr 08, 2021
Test/Reference	LOR	Unit				
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

Client Sample ID			BH385 0-0.1	TP452 2.4-2.5	TP456 0-0.1	G01 TP452 1.1-1.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17394	S21-Ap17404	S21-Ap17405	S21-Ap17406
Date Sampled			Apr 07, 2021	Apr 08, 2021	Apr 08, 2021	Apr 08, 2021
Test/Reference	LOR	Unit				
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	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	77	76	77	88
p-Terphenyl-d14 (surr.)	1	%	96	83	89	96
Heavy Metals						
Arsenic	2	mg/kg	-	9.5	13	11
Cadmium	0.4	mg/kg	-	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	-	20	24	21
Copper	5	mg/kg	-	18	35	24
Lead	5	mg/kg	-	23	25	29
Mercury	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	-	7.1	16	9.7
Zinc	5	mg/kg	-	23	58	33
% Moisture	1	%	16	31	17	27
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 100
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
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.5
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.5
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.5
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 1
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.5
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 1.5
4-Bromofluorobenzene (surr.)	1	%	67	136	67	65
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene N02	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 2.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 100
TRH C6-C10 less BTEX (F1) N04	20	mg/kg	< 20	< 20	< 20	< 100
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
Acid Herbicides						
2.4-D	0.5	mg/kg	-	-	-	< 0.5
2.4-DB	0.5	mg/kg	-	-	-	< 0.5
2.4.5-T	0.5	mg/kg	-	-	-	< 0.5
2.4.5-TP	0.5	mg/kg	-	-	-	< 0.5
Actril (loxynil)	0.5	mg/kg	-	-	-	< 0.5
Dicamba	0.5	mg/kg	-	-	-	< 0.5
Dichlorprop	0.5	mg/kg	-	-	-	< 0.5
Dinitro-o-cresol	0.5	mg/kg	-	-	-	< 0.5

Client Sample ID			BH385 0-0.1	TP452 2.4-2.5	TP456 0-0.1	G01 TP452 1.1-1.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17394	S21-Ap17404	S21-Ap17405	S21-Ap17406
Date Sampled			Apr 07, 2021	Apr 08, 2021	Apr 08, 2021	Apr 08, 2021
Test/Reference	LOR	Unit				
Acid Herbicides						
Dinoseb	0.5	mg/kg	-	-	-	< 0.5
MCPA	0.5	mg/kg	-	-	-	< 0.5
MCPB	0.5	mg/kg	-	-	-	< 0.5
Mecoprop	0.5	mg/kg	-	-	-	< 0.5
Warfarin (surr.)	1	%	-	-	-	63

Client Sample ID			TP454 1.4-1.5	TP461 2.4-2.5	TP457 2.5-2.6	TP449 1.2-1.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17407	S21-Ap17408	S21-Ap17409	S21-Ap17410
Date Sampled			Apr 08, 2021	Apr 08, 2021	Apr 08, 2021	Apr 08, 2021
Test/Reference	LOR	Unit				
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	%	80	84	80	78
p-Terphenyl-d14 (surr.)	1	%	95	100	95	87
Heavy Metals						
Arsenic	2	mg/kg	8.5	8.7	5.9	12
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	15	19	11	21
Copper	5	mg/kg	23	27	35	23
Lead	5	mg/kg	12	15	17	28
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	11	15	11	7.2
Zinc	5	mg/kg	41	45	63	30
% Moisture	1	%	20	17	12	24

Client Sample ID			TP454 1.4-1.5	TP461 2.4-2.5	TP457 2.5-2.6	TP449 1.2-1.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17407	S21-Ap17408	S21-Ap17409	S21-Ap17410
Date Sampled			Apr 08, 2021	Apr 08, 2021	Apr 08, 2021	Apr 08, 2021
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	< 50	-	< 50
TRH C10-C36 (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	%	81	95	-	67
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
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	-	< 100
Acid Herbicides						
2.4-D	0.5	mg/kg	-	< 0.5	-	-
2.4-DB	0.5	mg/kg	-	< 0.5	-	-
2.4.5-T	0.5	mg/kg	-	< 0.5	-	-
2.4.5-TP	0.5	mg/kg	-	< 0.5	-	-
Actril (loxynil)	0.5	mg/kg	-	< 0.5	-	-
Dicamba	0.5	mg/kg	-	< 0.5	-	-
Dichlorprop	0.5	mg/kg	-	< 0.5	-	-
Dinitro-o-cresol	0.5	mg/kg	-	< 0.5	-	-
Dinoseb	0.5	mg/kg	-	< 0.5	-	-
MCPA	0.5	mg/kg	-	< 0.5	-	-
MCPB	0.5	mg/kg	-	< 0.5	-	-
Mecoprop	0.5	mg/kg	-	< 0.5	-	-
Warfarin (surr.)	1	%	-	62	-	-

Client Sample ID			BH355 0-0.2
Sample Matrix			Soil
Eurofins Sample No.			S21-Ap17412
Date Sampled			Apr 08, 2021
Test/Reference	LOR	Unit	
Polycyclic Aromatic Hydrocarbons			
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
Acenaphthene	0.5	mg/kg	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5

Client Sample ID			BH355 0-0.2
Sample Matrix			**Soil**
Eurofins Sample No.			**S21-Ap17412**
Date Sampled			**Apr 08, 2021**
Test/Reference	LOR	Unit	
Polycyclic Aromatic Hydrocarbons			
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
2-Fluorobiphenyl (surr.)	1	%	85
p-Terphenyl-d14 (surr.)	1	%	105
Heavy Metals			
Arsenic	2	mg/kg	21
Cadmium	0.4	mg/kg	< 0.4
Chromium	5	mg/kg	27
Copper	5	mg/kg	40
Lead	5	mg/kg	23
Mercury	0.1	mg/kg	< 0.1
Nickel	5	mg/kg	11
Zinc	5	mg/kg	97
% Moisture	1	%	18

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
Eurofins Suite B4			
Polycyclic Aromatic Hydrocarbons	Sydney	Apr 18, 2021	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Apr 17, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Apr 17, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Apr 17, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Apr 17, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Metals M8	Sydney	Apr 19, 2021	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
% Moisture	Sydney	Apr 13, 2021	14 Days
- Method: LTM-GEN-7080 Moisture			
Acid Herbicides	Melbourne	Apr 16, 2021	14 Days
- Method: LTM-ORG-2180 Phenoxy Acid Herbicides			
Organochlorine Pesticides	Sydney	Apr 18, 2021	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Polychlorinated Biphenyls	Sydney	Apr 18, 2021	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786610
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 9:02 AM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	BTEX	Suite B13: OCP/PCB	Moisture Set	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B4	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**													
1	BH354 0-0.2	Apr 08, 2021		Soil	S21-Ap17340				X		X			X				
2	BH354 0.9-1	Apr 08, 2021		Soil	S21-Ap17341					X				X		X		
3	BH355 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17342				X		X			X				
4	BH351 0-0.2	Apr 08, 2021		Soil	S21-Ap17343								X	X				
5	BH335 0-0.2	Apr 08, 2021		Soil	S21-Ap17344				X		X			X				
6	BH334 0-0.2	Apr 08, 2021		Soil	S21-Ap17345				X		X			X				
7	BH348 0-0.2	Apr 08, 2021		Soil	S21-Ap17346					X				X	X			
8	BH349 0-0.2	Apr 08, 2021		Soil	S21-Ap17347				X		X			X				
9	BH350 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17349						X			X				

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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
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46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
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Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786610
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 9:02 AM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	BTEX	Suite B13: OCP/PCB	Moisture Set	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B4	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
10	BH339 0-0.1	Apr 07, 2021		Soil	S21-Ap17350									X			X	
11	BH340 0-0.2	Apr 07, 2021		Soil	S21-Ap17351					X				X				
12	BH341 0-0.2	Apr 07, 2021		Soil	S21-Ap17352				X		X			X				
13	BH365 0-0.2	Apr 07, 2021		Soil	S21-Ap17353					X				X		X		
14	BH366 0.2-0.6	Apr 07, 2021		Soil	S21-Ap17354				X		X			X				
15	BH369 0-0.5	Apr 07, 2021		Soil	S21-Ap17355					X				X		X		
16	BH344 0-0.2	Apr 07, 2021		Soil	S21-Ap17356									X			X	
17	BH363 0-0.1	Apr 07, 2021		Soil	S21-Ap17357				X		X			X				
18	BH387 0-0.1	Apr 07, 2021		Soil	S21-Ap17358				X		X			X				
19	BH347 0-0.2	Apr 08, 2021		Soil	S21-Ap17359				X		X			X				
20	BH346 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17360				X		X			X				

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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
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Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

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Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

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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

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Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786610
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 9:02 AM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	BTEX	Suite B13: OCP/PCB	Moisture Set	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B4	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
21	BH336 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17361					X	X			X				
22	BH369 0-0.1	Apr 08, 2021		Soil	S21-Ap17362								X	X				
23	BH345 0-0.1	Apr 08, 2021		Soil	S21-Ap17363					X	X			X				
24	BH338 0-0.1	Apr 08, 2021		Soil	S21-Ap17364									X			X	
25	BH361 0-0.1	Apr 08, 2021		Soil	S21-Ap17365					X	X			X				
26	BH386 0.5-0.6	Apr 08, 2021		Soil	S21-Ap17366				X		X			X				
27	BH172 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17367									X	X			
28	BH177 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17368				X		X			X				
29	BH348 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17370									X	X			
30	BH335 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17371								X	X		X		
31	BH334 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17372									X	X			

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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

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Sydney
NSW 2000

Project Name: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786610
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 9:02 AM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	BTEX	Suite B13: OCP/PCB	Moisture Set	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B4	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
32	BH350 0-0.2	Apr 08, 2021		Soil	S21-Ap17373								X	X		X		
33	BH352 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17374									X			X	
34	BH372 0-0.1	Apr 08, 2021		Soil	S21-Ap17375					X				X				
35	BH379 0-0.1	Apr 08, 2021		Soil	S21-Ap17376				X		X			X				
36	BH373 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17377									X	X			
37	BH377 0-0.1	Apr 08, 2021		Soil	S21-Ap17378					X				X			X	
38	BH171 0-0.1	Apr 08, 2021		Soil	S21-Ap17379				X		X			X				
39	BH172 0-0.1	Apr 08, 2021		Soil	S21-Ap17380									X	X			
40	BH175 0-0.1	Apr 08, 2021		Soil	S21-Ap17381				X		X			X				
41	BH169 0-0.1	Apr 08, 2021		Soil	S21-Ap17382					X				X		X		
42	BH170 0-0.1	Apr 08, 2021		Soil	S21-Ap17383				X		X			X				

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Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
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1/21 Smallwood Place
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Perth
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Welshpool WA 6106
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Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
43	BH331 0-0.1	Apr 08, 2021		Soil	S21-Ap17384				X	X	X			X				
44	BH375 0-0.1	Apr 08, 2021		Soil	S21-Ap17385									X			X	
45	BH353 0-0.1	Apr 08, 2021		Soil	S21-Ap17386									X			X	
46	BH384 0-0.1	Apr 07, 2021		Soil	S21-Ap17387				X		X			X				
47	BH371 0-0.1	Apr 07, 2021		Soil	S21-Ap17388									X			X	
48	BH360 0-0.1	Apr 07, 2021		Soil	S21-Ap17389				X		X			X				
49	BH388 0-0.1	Apr 07, 2021		Soil	S21-Ap17390									X			X	
50	BH389 0-0.1	Apr 07, 2021		Soil	S21-Ap17391								X	X				
51	BH367 0-0.1	Apr 07, 2021		Soil	S21-Ap17392						X			X		X		
52	BH364 0-0.1	Apr 07, 2021		Soil	S21-Ap17393						X			X		X		
53	BH385 0-0.1	Apr 07, 2021		Soil	S21-Ap17394									X			X	

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Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
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Perth
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Welshpool WA 6106
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Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
54	TP450 2-2.5	Apr 08, 2021		Soil	S21-Ap17395	X												
55	TP451 1-2	Apr 08, 2021		Soil	S21-Ap17396	X												
56	TP457 2-2.5	Apr 08, 2021		Soil	S21-Ap17397	X												
57	TP452 1-2	Apr 08, 2021		Soil	S21-Ap17398	X												
58	TP460 2-2.6	Apr 08, 2021		Soil	S21-Ap17399	X												
59	TP449 0.3-0.9	Apr 08, 2021		Soil	S21-Ap17400	X												
60	TP461 1-2	Apr 08, 2021		Soil	S21-Ap17401	X												
61	TP454 0.7-1.2	Apr 08, 2021		Soil	S21-Ap17402	X												
62	TP456 2.8-3	Apr 08, 2021		Soil	S21-Ap17403	X												
63	TP452 2.4-2.5	Apr 08, 2021		Soil	S21-Ap17404									X	X			
64	TP456 0-0.1	Apr 08, 2021		Soil	S21-Ap17405									X	X			

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Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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
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Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
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Mayfield Laboratory																		
External Laboratory																		
65	TP452 1.1-1.2	Apr 08, 2021		Soil	S21-Ap17406					X				X	X			
66	TP454 1.4-1.5	Apr 08, 2021		Soil	S21-Ap17407									X	X			
67	TP461 2.4-2.5	Apr 08, 2021		Soil	S21-Ap17408					X				X	X			
68	TP457 2.5-2.6	Apr 08, 2021		Soil	S21-Ap17409				X		X			X				
69	TP449 1.2-1.3	Apr 08, 2021		Soil	S21-Ap17410									X	X			
70	TP445 1-1.8	Apr 08, 2021		Soil	S21-Ap17411	X												
71	BH355 0-0.2	Apr 08, 2021		Soil	S21-Ap17412				X		X			X				
72	TS	Apr 08, 2021		Water	S21-Ap17413													X
73	TB	Apr 08, 2021		Water	S21-Ap17414							X						
74	TP459 1.4-2.4	Apr 08, 2021		Soil	S21-Ap17415	X												
75	BH354 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17416			X										

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Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
35 O'Rorke Road
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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
76	BH351 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17418			X										
77	BH349 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17422			X										
78	FC1	Apr 08, 2021		Building Materials	S21-Ap17423			X										
79	BH339 0.4-0.5	Apr 07, 2021		Soil	S21-Ap17424			X										
80	BH340 0.2-0.5	Apr 07, 2021		Soil	S21-Ap17425			X										
81	BH341 0.2-0.5	Apr 07, 2021		Soil	S21-Ap17426			X										
82	BH365 0.2-0.6	Apr 07, 2021		Soil	S21-Ap17427			X										
83	BH366 0-0.2	Apr 07, 2021		Soil	S21-Ap17428			X										
84	BH369 0.6-1.1	Apr 07, 2021		Soil	S21-Ap17429			X										
85	BH343 0-0.2	Apr 07, 2021		Soil	S21-Ap17430			X										

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Australia

Melbourne
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NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
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Brisbane
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Perth
46-48 Banksia Road
Welshpool WA 6106
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Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
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New Zealand

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Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
86	BH343 0.2-0.5	Apr 07, 2021		Soil	S21-Ap17431			X										
87	BH344 0.2-0.6	Apr 07, 2021		Soil	S21-Ap17432			X										
88	BH363 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17433			X										
89	BH387 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17434			X										
90	BH337 0-0.2	Apr 08, 2021		Soil	S21-Ap17435			X										
91	BH346 0-0.2	Apr 08, 2021		Soil	S21-Ap17436			X										
92	BH347 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17437			X										
93	BH337 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17438			X										
94	BH336 0-0.2	Apr 08, 2021		Soil	S21-Ap17439			X										
95	BH369 0.5-0.6	Apr 08, 2021		Soil	S21-Ap17440		X											
96	BH345 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17441			X										

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Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
97	BH338 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17442			X										
98	BH361 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17443			X										
99	BH386 0-0.1	Apr 08, 2021		Soil	S21-Ap17444			X										
100	BH362 0-0.1	Apr 08, 2021		Soil	S21-Ap17445			X										
101	BH362 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17446			X										
102	BH173 0-0.1	Apr 08, 2021		Soil	S21-Ap17447			X										
103	BH173 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17448			X										
104	BH177 0-0.1	Apr 08, 2021		Soil	S21-Ap17449			X										
105	BH178 0-0.1	Apr 08, 2021		Soil	S21-Ap17450			X										
106	BH178 0.3-..5	Apr 08, 2021		Soil	S21-Ap17451			X										
107	BH332 0-0.1	Apr 08, 2021		Soil	S21-Ap17452			X										

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Mayfield Laboratory																		
External Laboratory																		
108	BH332 0.5-0.6	Apr 08, 2021		Soil	S21-Ap17453			X										
109	BH349 0-0.2	Apr 08, 2021		Soil	S21-Ap17456			X										
110	BH356 0-0.1	Apr 08, 2021		Soil	S21-Ap17460			X										
111	BH356 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17461			X										
112	BH372 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17462			X										
113	BH382 0-0.1	Apr 08, 2021		Soil	S21-Ap17463			X										
114	BH382 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17464			X										
115	BH379 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17465			X										
116	BH373 0-0.1	Apr 08, 2021		Soil	S21-Ap17466			X										
117	BH383 0-0.1	Apr 08, 2021		Soil	S21-Ap17467			X										
118	BH383 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17468			X										

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Australia

Melbourne
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Phone : +61 3 8564 5000
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Lane Cove West NSW 2066
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IANZ # 1327

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Project Name: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786610
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 9:02 AM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
119	BH377 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17469			X										
120	BH386 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17471			X										
121	BH171 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17472			X										
122	BH175 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17473			X										
123	BH176 0-0.1	Apr 08, 2021		Soil	S21-Ap17474			X										
124	BH176 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17475			X										
125	BH174 0-0.1	Apr 08, 2021		Soil	S21-Ap17476			X										
126	BH174 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17477			X										
127	BH169 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17478			X										
128	BH170 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17479			X										
129	BH331 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17480			X										

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Melbourne
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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
130	BH331 FRAG	Apr 08, 2021		Building Materials	S21-Ap17481			X										
131	BH375 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17482			X										
132	BH378 0-0.1	Apr 08, 2021		Soil	S21-Ap17483			X										
133	BH378 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17484			X										
134	BH353 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17485			X										
135	BH352 0-0.1	Apr 08, 2021		Soil	S21-Ap17486			X										
136	BH342 0-0.1	Apr 07, 2021		Soil	S21-Ap17487			X										
137	BH370 0-0.1	Apr 07, 2021		Soil	S21-Ap17488			X										
138	BH384 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17489			X										
139	BH371 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17490			X										

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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
140	BH360 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17491			X										
141	BH388 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17492			X										
142	BH389 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17493			X										
143	BH367 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17494			X										
144	BH342 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17495			X										
145	BH364 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17496			X										
146	BH386 0.5-0.7	Apr 07, 2021		Soil	S21-Ap17497			X										
147	BH370 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17498			X										
148	TP450 0-1	Apr 08, 2021		Soil	S21-Ap17499			X										
149	TP450 1-2	Apr 08, 2021		Soil	S21-Ap17500			X										
150	TP459 0-0.4	Apr 08, 2021		Soil	S21-Ap17501			X										

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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
151	TP454 0-0.7	Apr 08, 2021		Soil	S21-Ap17502			X										
152	TP444 0-0.3	Apr 08, 2021		Soil	S21-Ap17503			X										
153	TP452 0-1	Apr 08, 2021		Soil	S21-Ap17504			X										
154	TP452 0-0.1	Apr 08, 2021		Soil	S21-Ap17505			X										
155	TP451 2-2.8	Apr 08, 2021		Soil	S21-Ap17506			X										
156	TP457 1-2	Apr 08, 2021		Soil	S21-Ap17507			X										
157	TP460 1-2	Apr 08, 2021		Soil	S21-Ap17508			X										
158	TP451 2.8-3.8	Apr 08, 2021		Soil	S21-Ap17509			X										
159	TP457 0-1	Apr 08, 2021		Soil	S21-Ap17510			X										
160	TP456 1-2	Apr 08, 2021		Soil	S21-Ap17511			X										
161	TP461 0-1	Apr 08, 2021		Soil	S21-Ap17512			X										

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Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
162	TP460 2.6-2.8	Apr 08, 2021		Soil	S21-Ap17513			X										
163	TP451 0-1	Apr 08, 2021		Soil	S21-Ap17514			X										
164	TP456 0-1	Apr 08, 2021		Soil	S21-Ap17515			X										
165	TP460 0-1	Apr 08, 2021		Soil	S21-Ap17516			X										
166	TP456 0.3-3.5	Apr 08, 2021		Soil	S21-Ap17517			X										
167	TP452 0-0.1	Apr 08, 2021		Soil	S21-Ap17518			X										
168	TP460 0-0.1	Apr 08, 2021		Soil	S21-Ap17519			X										
169	TP460 2.6-2.8	Apr 08, 2021		Soil	S21-Ap17520			X										
170	TP451 2.8-3	Apr 08, 2021		Soil	S21-Ap17521			X										
171	TP449 1-1.1	Apr 08, 2021		Soil	S21-Ap17522			X										
172	TP457 0-0.1	Apr 08, 2021		Soil	S21-Ap17523			X										

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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
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Mayfield Laboratory																		
External Laboratory																		
173	TP451 0-0.1	Apr 08, 2021		Soil	S21-Ap17524			X										
174	TP450 2.5-2.6	Apr 08, 2021		Soil	S21-Ap17525			X										
175	TP357 0-0.1	Apr 08, 2021		Soil	S21-Ap17526			X										
176	TP358 0-0.1	Apr 08, 2021		Soil	S21-Ap17527			X										
177	TP445 0-1	Apr 08, 2021		Soil	S21-Ap17528			X										
178	TP445 1.8-2.5	Apr 08, 2021		Soil	S21-Ap17529			X										
179	TP445 2.5-3.5	Apr 08, 2021		Soil	S21-Ap17530			X										
180	TP459 0.4-1.4	Apr 08, 2021		Soil	S21-Ap17533			X										
181	BHX	Apr 08, 2021		Soil	S21-Ap19659			X										
182	BH380 0.0-0.1	Apr 08, 2021		Soil	S21-Ap19660			X										
183	BH362	Apr 08, 2021		Soil	S21-Ap19661			X										

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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
184	BLANK	Apr 08, 2021		Soil	S21-Ap19662			X										
Test Counts						11	1	109	22	14	28	1	5	61	12	8	10	1

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.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

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 and 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.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
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 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

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, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene 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 Aroclor 1260 in Matrix Spikes and LCS.
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 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							
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	
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 >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							
Acid Herbicides							
2.4-D	mg/kg	< 0.5			0.5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
2.4-DB	mg/kg	< 0.5			0.5	Pass	
2.4.5-T	mg/kg	< 0.5			0.5	Pass	
2.4.5-TP	mg/kg	< 0.5			0.5	Pass	
Actril (loxynil)	mg/kg	< 0.5			0.5	Pass	
Dicamba	mg/kg	< 0.5			0.5	Pass	
Dichlorprop	mg/kg	< 0.5			0.5	Pass	
Dinitro-o-cresol	mg/kg	< 0.5			0.5	Pass	
Dinoseb	mg/kg	< 0.5			0.5	Pass	
MCPA	mg/kg	< 0.5			0.5	Pass	
MCPB	mg/kg	< 0.5			0.5	Pass	
Mecoprop	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	
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	< 0.1			0.1	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.5			0.5	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	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	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	105			70-130	Pass	
Acenaphthylene	%	111			70-130	Pass	
Anthracene	%	93			70-130	Pass	
Benz(a)anthracene	%	122			70-130	Pass	
Benzo(a)pyrene	%	113			70-130	Pass	
Benzo(b&j)fluoranthene	%	112			70-130	Pass	
Benzo(g.h.i)perylene	%	123			70-130	Pass	
Benzo(k)fluoranthene	%	110			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Chrysene	%	109			70-130	Pass	
Dibenz(a.h)anthracene	%	123			70-130	Pass	
Fluoranthene	%	99			70-130	Pass	
Fluorene	%	96			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	119			70-130	Pass	
Naphthalene	%	97			70-130	Pass	
Phenanthrene	%	95			70-130	Pass	
Pyrene	%	109			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	101			80-120	Pass	
Cadmium	%	117			80-120	Pass	
Chromium	%	103			80-120	Pass	
Copper	%	105			80-120	Pass	
Lead	%	100			80-120	Pass	
Mercury	%	100			80-120	Pass	
Nickel	%	105			80-120	Pass	
Zinc	%	104			80-120	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	95			70-130	Pass	
TRH C10-C14	%	74			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	104			70-130	Pass	
Toluene	%	99			70-130	Pass	
Ethylbenzene	%	94			70-130	Pass	
m&p-Xylenes	%	98			70-130	Pass	
o-Xylene	%	93			70-130	Pass	
Xylenes - Total*	%	97			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	125			70-130	Pass	
TRH C6-C10	%	94			70-130	Pass	
TRH >C10-C16	%	73			70-130	Pass	
LCS - % Recovery							
Acid Herbicides							
2.4-D	%	94			70-130	Pass	
2.4-DB	%	98			70-130	Pass	
2.4.5-T	%	112			70-130	Pass	
2.4.5-TP	%	110			70-130	Pass	
Actril (loxynil)	%	114			70-130	Pass	
Dicamba	%	123			70-130	Pass	
Dichlorprop	%	94			70-130	Pass	
Dinitro-o-cresol	%	122			70-130	Pass	
Dinoseb	%	115			70-130	Pass	
MCPA	%	107			70-130	Pass	
MCPB	%	98			70-130	Pass	
Mecoprop	%	105			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	104			70-130	Pass	
4.4'-DDD	%	98			70-130	Pass	
4.4'-DDE	%	104			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
4.4'-DDT	%	80			70-130	Pass	
a-BHC	%	104			70-130	Pass	
Aldrin	%	93			70-130	Pass	
b-BHC	%	100			70-130	Pass	
d-BHC	%	107			70-130	Pass	
Dieldrin	%	99			70-130	Pass	
Endosulfan I	%	106			70-130	Pass	
Endosulfan II	%	99			70-130	Pass	
Endosulfan sulphate	%	85			70-130	Pass	
Endrin	%	98			70-130	Pass	
Endrin aldehyde	%	71			70-130	Pass	
Endrin ketone	%	79			70-130	Pass	
g-BHC (Lindane)	%	109			70-130	Pass	
Heptachlor epoxide	%	107			70-130	Pass	
Hexachlorobenzene	%	108			70-130	Pass	
Methoxychlor	%	88			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1016	%	99			70-130	Pass	
Aroclor-1260	%	107			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	S21-Ap17340	CP	%	119			75-125	Pass	
Cadmium	S21-Ap17340	CP	%	111			75-125	Pass	
Chromium	S21-Ap17340	CP	%	110			75-125	Pass	
Copper	S21-Ap25948	NCP	%	91			75-125	Pass	
Lead	S21-Ap17340	CP	%	114			75-125	Pass	
Mercury	S21-Ap17340	CP	%	120			75-125	Pass	
Nickel	S21-Ap17340	CP	%	117			75-125	Pass	
Zinc	S21-Ap21478	NCP	%	75			75-125	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S21-Ap16697	NCP	%	82			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH C6-C10	S21-Ap16697	NCP	%	81			70-130	Pass	
Spike - % Recovery									
Acid Herbicides				Result 1					
Actril (loxynil)	S21-Ap15878	NCP	%	106			70-130	Pass	
Dichlorprop	S21-Ap15878	NCP	%	94			70-130	Pass	
MCPA	S21-Ap15878	NCP	%	73			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S21-Ap17342	CP	%	94			70-130	Pass	
Acenaphthylene	S21-Ap17342	CP	%	94			70-130	Pass	
Anthracene	S21-Ap17342	CP	%	79			70-130	Pass	
Benz(a)anthracene	S21-Ap17342	CP	%	106			70-130	Pass	
Benzo(a)pyrene	S21-Ap17342	CP	%	96			70-130	Pass	
Benzo(b&j)fluoranthene	S21-Ap17342	CP	%	103			70-130	Pass	
Benzo(g.h.i)perylene	S21-Ap17342	CP	%	105			70-130	Pass	
Benzo(k)fluoranthene	S21-Ap17342	CP	%	83			70-130	Pass	
Chrysene	S21-Ap17342	CP	%	92			70-130	Pass	
Dibenz(a.h)anthracene	S21-Ap17342	CP	%	104			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Fluoranthene	S21-Ap17342	CP	%	82			70-130	Pass	
Fluorene	S21-Ap17342	CP	%	79			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S21-Ap17342	CP	%	104			70-130	Pass	
Naphthalene	S21-Ap17342	CP	%	75			70-130	Pass	
Phenanthrene	S21-Ap17342	CP	%	80			70-130	Pass	
Pyrene	S21-Ap17342	CP	%	92			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S21-Ap15877	NCP	%	111			70-130	Pass	
4.4'-DDD	S21-Ap15877	NCP	%	96			70-130	Pass	
4.4'-DDE	S21-Ap15877	NCP	%	113			70-130	Pass	
4.4'-DDT	S21-Ap15877	NCP	%	89			70-130	Pass	
a-BHC	S21-Ap15877	NCP	%	97			70-130	Pass	
Aldrin	S21-Ap15877	NCP	%	93			70-130	Pass	
b-BHC	S21-Ap15877	NCP	%	91			70-130	Pass	
d-BHC	S21-Ap15877	NCP	%	96			70-130	Pass	
Dieldrin	S21-Ap15877	NCP	%	106			70-130	Pass	
Endosulfan I	S21-Ap15877	NCP	%	100			70-130	Pass	
Endosulfan II	S21-Ap15877	NCP	%	101			70-130	Pass	
Endosulfan sulphate	S21-Ap15877	NCP	%	81			70-130	Pass	
Endrin	S21-Ap15877	NCP	%	112			70-130	Pass	
Endrin aldehyde	S21-Ap15877	NCP	%	84			70-130	Pass	
Endrin ketone	S21-Ap15877	NCP	%	98			70-130	Pass	
g-BHC (Lindane)	S21-Ap15877	NCP	%	108			70-130	Pass	
Heptachlor	S21-Ap15877	NCP	%	106			70-130	Pass	
Heptachlor epoxide	S21-Ap15877	NCP	%	107			70-130	Pass	
Hexachlorobenzene	S21-Ap15877	NCP	%	107			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Methoxychlor	S21-Ap17173	NCP	%	80			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1016	S21-Ap19189	NCP	%	86			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C10-C14	S21-Ap17373	CP	%	70			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH >C10-C16	S21-Ap17373	CP	%	73			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S21-Ap17376	CP	%	83			70-130	Pass	
Acenaphthylene	S21-Ap17376	CP	%	84			70-130	Pass	
Anthracene	S21-Ap17376	CP	%	81			70-130	Pass	
Benz(a)anthracene	S21-Ap17376	CP	%	86			70-130	Pass	
Benzo(a)pyrene	S21-Ap17376	CP	%	98			70-130	Pass	
Benzo(b&j)fluoranthene	S21-Ap17376	CP	%	98			70-130	Pass	
Benzo(g.h.i)perylene	S21-Ap17376	CP	%	87			70-130	Pass	
Benzo(k)fluoranthene	S21-Ap17376	CP	%	85			70-130	Pass	
Chrysene	S21-Ap17376	CP	%	88			70-130	Pass	
Dibenz(a.h)anthracene	S21-Ap17376	CP	%	74			70-130	Pass	
Fluoranthene	S21-Ap17376	CP	%	90			70-130	Pass	
Fluorene	S21-Ap17376	CP	%	84			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S21-Ap17376	CP	%	74			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Naphthalene	S21-Ap17376	CP	%	94			70-130	Pass	
Phenanthrene	S21-Ap17376	CP	%	85			70-130	Pass	
Pyrene	S21-Ap17376	CP	%	92			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C10-C14	S21-Ap17392	CP	%	73			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S21-Ap17392	CP	%	76			70-130	Pass	
Toluene	S21-Ap17392	CP	%	76			70-130	Pass	
Ethylbenzene	S21-Ap17392	CP	%	75			70-130	Pass	
m&p-Xylenes	S21-Ap17392	CP	%	79			70-130	Pass	
o-Xylene	S21-Ap17392	CP	%	78			70-130	Pass	
Xylenes - Total*	S21-Ap17392	CP	%	79			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S21-Ap17392	CP	%	120			70-130	Pass	
TRH >C10-C16	S21-Ap17392	CP	%	67			70-130	Fail	Q08
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	S21-Ap17340	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S21-Ap17340	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S21-Ap17340	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S21-Ap17340	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S21-Ap17340	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S21-Ap17340	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S21-Ap17340	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S21-Ap17340	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S21-Ap17340	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S21-Ap17340	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S21-Ap17340	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S21-Ap17340	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S21-Ap17340	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S21-Ap17340	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S21-Ap17340	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S21-Ap17340	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	S21-Ap17341	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S21-Ap17341	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S21-Ap17341	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S21-Ap17341	CP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S21-Ap17341	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S21-Ap17341	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S21-Ap17341	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S21-Ap17341	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S21-Ap17341	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S21-Ap17341	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	

Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S21-Ap17341	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S21-Ap17341	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S21-Ap17341	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S21-Ap17341	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S21-Ap17341	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Acid Herbicides				Result 1	Result 2	RPD			
2.4-D	S21-Ap15877	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4-DB	S21-Ap15877	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4.5-T	S21-Ap15877	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4.5-TP	S21-Ap15877	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Actril (loxynil)	S21-Ap15877	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dicamba	S21-Ap15877	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorprop	S21-Ap15877	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dinitro-o-cresol	S21-Ap15877	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dinoseb	S21-Ap15877	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
MCPA	S21-Ap15877	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
MCPB	S21-Ap15877	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Mecoprop	S21-Ap15877	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-Ap17342	CP	%	21	21	2.0	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S21-Ap17025	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S21-Ap17025	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S21-Ap17025	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S21-Ap17025	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-BHC	S21-Ap17025	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S21-Ap17025	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	S21-Ap17025	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-BHC	S21-Ap17025	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S21-Ap17025	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S21-Ap17025	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S21-Ap17025	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S21-Ap17025	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S21-Ap17025	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S21-Ap17025	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S21-Ap17025	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	S21-Ap17025	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S21-Ap17025	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S21-Ap17025	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S21-Ap17025	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S21-Ap17025	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Toxaphene	S21-Ap18821	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-Ap17353	CP	%	18	17	1.0	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-Ap17357	CP	mg/kg	11	13	22	30%	Pass	
Cadmium	S21-Ap17357	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S21-Ap17357	CP	mg/kg	23	24	6.0	30%	Pass	
Copper	S21-Ap17357	CP	mg/kg	68	71	5.0	30%	Pass	

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Lead	S21-Ap17357	CP	mg/kg	25	27	8.0	30%	Pass	
Mercury	S21-Ap17357	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S21-Ap17357	CP	mg/kg	12	12	<1	30%	Pass	
Zinc	S21-Ap17357	CP	mg/kg	140	150	6.0	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	S21-Ap13529	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1221	S21-Ap13529	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	S21-Ap13529	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1242	S21-Ap13529	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1248	S21-Ap13529	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1254	S21-Ap13529	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1260	S21-Ap13529	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-Ap17368	CP	mg/kg	12	12	<1	30%	Pass	
Cadmium	S21-Ap17368	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S21-Ap17368	CP	mg/kg	26	25	2.0	30%	Pass	
Copper	S21-Ap17368	CP	mg/kg	33	30	9.0	30%	Pass	
Lead	S21-Ap17368	CP	mg/kg	14	14	4.0	30%	Pass	
Mercury	S21-Ap17368	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S21-Ap17368	CP	mg/kg	18	17	5.0	30%	Pass	
Zinc	S21-Ap17368	CP	mg/kg	70	65	8.0	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-Ap17370	CP	mg/kg	9.5	9.1	4.0	30%	Pass	
Cadmium	S21-Ap17370	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S21-Ap17370	CP	mg/kg	22	22	1.0	30%	Pass	
Copper	S21-Ap17370	CP	mg/kg	35	27	27	30%	Pass	
Lead	S21-Ap17370	CP	mg/kg	16	15	8.0	30%	Pass	
Mercury	S21-Ap17370	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S21-Ap17370	CP	mg/kg	12	12	5.0	30%	Pass	
Zinc	S21-Ap17370	CP	mg/kg	51	54	5.0	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S21-Ap17372	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S21-Ap17372	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S21-Ap17372	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S21-Ap17372	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S21-Ap17372	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S21-Ap17372	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S21-Ap17372	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S21-Ap17372	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S21-Ap17372	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S21-Ap17374	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S21-Ap17374	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S21-Ap17374	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S21-Ap17374	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Benzo(a)pyrene	S21-Ap17374	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S21-Ap17374	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S21-Ap17374	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S21-Ap17374	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S21-Ap17374	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S21-Ap17374	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S21-Ap17374	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S21-Ap17374	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S21-Ap17374	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S21-Ap17374	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S21-Ap17374	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S21-Ap17374	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-Ap17374	CP	%	23	24	6.0	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C10-C14	S21-Ap17374	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S21-Ap17374	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S21-Ap17374	CP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
TRH >C10-C16	S21-Ap17374	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S21-Ap17374	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S21-Ap17374	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-Ap17384	CP	%	18	17	3.0	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S21-Ap17386	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S21-Ap17386	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S21-Ap17386	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S21-Ap17386	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S21-Ap17386	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S21-Ap17386	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S21-Ap17386	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S21-Ap17386	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S21-Ap17386	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S21-Ap17386	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S21-Ap17386	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S21-Ap17386	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S21-Ap17386	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S21-Ap17386	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S21-Ap17386	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S21-Ap17386	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C10-C14	S21-Ap17386	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S21-Ap17386	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S21-Ap17386	CP	mg/kg	< 50	< 50	<1	30%	Pass	

Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
TRH >C10-C16	S21-Ap17386	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S21-Ap17386	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S21-Ap17386	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-Ap17389	CP	mg/kg	12	13	11	30%	Pass	
Cadmium	S21-Ap17389	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S21-Ap17389	CP	mg/kg	21	24	12	30%	Pass	
Copper	S21-Ap17389	CP	mg/kg	71	73	2.0	30%	Pass	
Lead	S21-Ap17389	CP	mg/kg	20	22	8.0	30%	Pass	
Mercury	S21-Ap17389	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S21-Ap17389	CP	mg/kg	14	14	2.0	30%	Pass	
Zinc	S21-Ap17389	CP	mg/kg	100	110	8.0	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S21-Ap17390	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S21-Ap17390	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S21-Ap17390	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S21-Ap17390	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S21-Ap17390	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S21-Ap17390	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S21-Ap17390	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S21-Ap17390	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S21-Ap17390	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-Ap17394	CP	%	16	16	2.0	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S21-Ap17408	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S21-Ap17408	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S21-Ap17408	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S21-Ap17408	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S21-Ap17408	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S21-Ap17408	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S21-Ap17408	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S21-Ap17408	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S21-Ap17408	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S21-Ap17408	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S21-Ap17408	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S21-Ap17408	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S21-Ap17408	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S21-Ap17408	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S21-Ap17408	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S21-Ap17408	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-Ap17412	CP	mg/kg	21	20	6.0	30%	Pass	
Cadmium	S21-Ap17412	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S21-Ap17412	CP	mg/kg	27	25	10	30%	Pass	
Copper	S21-Ap17412	CP	mg/kg	40	40	1.0	30%	Pass	
Lead	S21-Ap17412	CP	mg/kg	23	23	1.0	30%	Pass	
Mercury	S21-Ap17412	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S21-Ap17412	CP	mg/kg	11	11	1.0	30%	Pass	
Zinc	S21-Ap17412	CP	mg/kg	97	110	9.0	30%	Pass	

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

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
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:

Ursula Long	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)
John Nguyen	Senior Analyst-Metal (NSW)
Joseph Edouard	Senior Analyst-Organic (VIC)

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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JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

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 and proficiency testing scheme providers reports.

Attention: **Ryan Lill**

Report **786610-W**
Project name KEMPS CREEK DSI
Project ID 60482
Received Date Apr 12, 2021

Client Sample ID			**TS**	**TB**
Sample Matrix			**Water**	**Water**
Eurofins Sample No.			**S21-Ap17413**	**S21-Ap17414**
Date Sampled			**Apr 08, 2021**	**Apr 08, 2021**
Test/Reference	LOR	Unit		
BTEX				
Benzene	1	%	94	-
Ethylbenzene	1	%	88	-
m&p-Xylenes	1	%	87	-
o-Xylene	1	%	80	-
Toluene	1	%	90	-
Xylenes - Total	1	%	82	-
4-Bromofluorobenzene (surr.)	1	%	99	-
BTEX				
Benzene	0.001	mg/L	-	< 0.001
Toluene	0.001	mg/L	-	< 0.001
Ethylbenzene	0.001	mg/L	-	< 0.001
m&p-Xylenes	0.002	mg/L	-	< 0.002
o-Xylene	0.001	mg/L	-	< 0.001
Xylenes - Total*	0.003	mg/L	-	< 0.003
4-Bromofluorobenzene (surr.)	1	%	-	104

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
Eurofins Suite B4			
BTEX	Sydney	Apr 13, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			

eurofins | Environment Testing

ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786610
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 9:02 AM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	BTEX	Suite B13: OCP/PCB	Moisture Set	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B4	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**													
1	BH354 0-0.2	Apr 08, 2021		Soil	S21-Ap17340				X		X			X				
2	BH354 0.9-1	Apr 08, 2021		Soil	S21-Ap17341					X				X		X		
3	BH355 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17342				X		X			X				
4	BH351 0-0.2	Apr 08, 2021		Soil	S21-Ap17343								X	X				
5	BH335 0-0.2	Apr 08, 2021		Soil	S21-Ap17344				X		X			X				
6	BH334 0-0.2	Apr 08, 2021		Soil	S21-Ap17345				X		X			X				
7	BH348 0-0.2	Apr 08, 2021		Soil	S21-Ap17346					X				X	X			
8	BH349 0-0.2	Apr 08, 2021		Soil	S21-Ap17347				X		X			X				
9	BH350 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17349						X			X				

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
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IANZ # 1327

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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
10	BH339 0-0.1	Apr 07, 2021		Soil	S21-Ap17350									X			X	
11	BH340 0-0.2	Apr 07, 2021		Soil	S21-Ap17351					X				X				
12	BH341 0-0.2	Apr 07, 2021		Soil	S21-Ap17352				X		X			X				
13	BH365 0-0.2	Apr 07, 2021		Soil	S21-Ap17353					X				X		X		
14	BH366 0.2-0.6	Apr 07, 2021		Soil	S21-Ap17354				X		X			X				
15	BH369 0-0.5	Apr 07, 2021		Soil	S21-Ap17355					X				X		X		
16	BH344 0-0.2	Apr 07, 2021		Soil	S21-Ap17356									X			X	
17	BH363 0-0.1	Apr 07, 2021		Soil	S21-Ap17357				X		X			X				
18	BH387 0-0.1	Apr 07, 2021		Soil	S21-Ap17358				X		X			X				
19	BH347 0-0.2	Apr 08, 2021		Soil	S21-Ap17359				X		X			X				
20	BH346 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17360				X		X			X				

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Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
21	BH336 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17361					X	X			X				
22	BH369 0-0.1	Apr 08, 2021		Soil	S21-Ap17362								X	X				
23	BH345 0-0.1	Apr 08, 2021		Soil	S21-Ap17363					X	X			X				
24	BH338 0-0.1	Apr 08, 2021		Soil	S21-Ap17364									X			X	
25	BH361 0-0.1	Apr 08, 2021		Soil	S21-Ap17365					X	X			X				
26	BH386 0.5-0.6	Apr 08, 2021		Soil	S21-Ap17366				X		X			X				
27	BH172 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17367									X	X			
28	BH177 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17368				X		X			X				
29	BH348 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17370									X	X			
30	BH335 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17371								X	X		X		
31	BH334 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17372									X	X			

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Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
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1/21 Smallwood Place
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Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
32	BH350 0-0.2	Apr 08, 2021		Soil	S21-Ap17373								X	X		X		
33	BH352 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17374									X			X	
34	BH372 0-0.1	Apr 08, 2021		Soil	S21-Ap17375					X				X				
35	BH379 0-0.1	Apr 08, 2021		Soil	S21-Ap17376				X		X			X				
36	BH373 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17377									X	X			
37	BH377 0-0.1	Apr 08, 2021		Soil	S21-Ap17378					X				X			X	
38	BH171 0-0.1	Apr 08, 2021		Soil	S21-Ap17379				X		X			X				
39	BH172 0-0.1	Apr 08, 2021		Soil	S21-Ap17380									X	X			
40	BH175 0-0.1	Apr 08, 2021		Soil	S21-Ap17381				X		X			X				
41	BH169 0-0.1	Apr 08, 2021		Soil	S21-Ap17382					X				X		X		
42	BH170 0-0.1	Apr 08, 2021		Soil	S21-Ap17383				X		X			X				

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Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
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Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
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NATA # 1261 Site # 20794

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
43	BH331 0-0.1	Apr 08, 2021		Soil	S21-Ap17384				X	X	X			X				
44	BH375 0-0.1	Apr 08, 2021		Soil	S21-Ap17385									X			X	
45	BH353 0-0.1	Apr 08, 2021		Soil	S21-Ap17386									X			X	
46	BH384 0-0.1	Apr 07, 2021		Soil	S21-Ap17387				X		X			X				
47	BH371 0-0.1	Apr 07, 2021		Soil	S21-Ap17388									X			X	
48	BH360 0-0.1	Apr 07, 2021		Soil	S21-Ap17389				X		X			X				
49	BH388 0-0.1	Apr 07, 2021		Soil	S21-Ap17390									X			X	
50	BH389 0-0.1	Apr 07, 2021		Soil	S21-Ap17391								X	X				
51	BH367 0-0.1	Apr 07, 2021		Soil	S21-Ap17392						X			X		X		
52	BH364 0-0.1	Apr 07, 2021		Soil	S21-Ap17393						X			X		X		
53	BH385 0-0.1	Apr 07, 2021		Soil	S21-Ap17394									X			X	

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Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
35 O'Rorke Road
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IANZ # 1327

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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
54	TP450 2-2.5	Apr 08, 2021		Soil	S21-Ap17395	X												
55	TP451 1-2	Apr 08, 2021		Soil	S21-Ap17396	X												
56	TP457 2-2.5	Apr 08, 2021		Soil	S21-Ap17397	X												
57	TP452 1-2	Apr 08, 2021		Soil	S21-Ap17398	X												
58	TP460 2-2.6	Apr 08, 2021		Soil	S21-Ap17399	X												
59	TP449 0.3-0.9	Apr 08, 2021		Soil	S21-Ap17400	X												
60	TP461 1-2	Apr 08, 2021		Soil	S21-Ap17401	X												
61	TP454 0.7-1.2	Apr 08, 2021		Soil	S21-Ap17402	X												
62	TP456 2.8-3	Apr 08, 2021		Soil	S21-Ap17403	X												
63	TP452 2.4-2.5	Apr 08, 2021		Soil	S21-Ap17404									X	X			
64	TP456 0-0.1	Apr 08, 2021		Soil	S21-Ap17405									X	X			

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Australia

Melbourne
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Sydney
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Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
65	TP452 1.1-1.2	Apr 08, 2021		Soil	S21-Ap17406					X				X	X			
66	TP454 1.4-1.5	Apr 08, 2021		Soil	S21-Ap17407									X	X			
67	TP461 2.4-2.5	Apr 08, 2021		Soil	S21-Ap17408					X				X	X			
68	TP457 2.5-2.6	Apr 08, 2021		Soil	S21-Ap17409				X		X			X				
69	TP449 1.2-1.3	Apr 08, 2021		Soil	S21-Ap17410									X	X			
70	TP445 1-1.8	Apr 08, 2021		Soil	S21-Ap17411	X												
71	BH355 0-0.2	Apr 08, 2021		Soil	S21-Ap17412				X		X			X				
72	TS	Apr 08, 2021		Water	S21-Ap17413													X
73	TB	Apr 08, 2021		Water	S21-Ap17414							X						
74	TP459 1.4-2.4	Apr 08, 2021		Soil	S21-Ap17415	X												
75	BH354 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17416			X										

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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
76	BH351 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17418			X										
77	BH349 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17422			X										
78	FC1	Apr 08, 2021		Building Materials	S21-Ap17423			X										
79	BH339 0.4-0.5	Apr 07, 2021		Soil	S21-Ap17424			X										
80	BH340 0.2-0.5	Apr 07, 2021		Soil	S21-Ap17425			X										
81	BH341 0.2-0.5	Apr 07, 2021		Soil	S21-Ap17426			X										
82	BH365 0.2-0.6	Apr 07, 2021		Soil	S21-Ap17427			X										
83	BH366 0-0.2	Apr 07, 2021		Soil	S21-Ap17428			X										
84	BH369 0.6-1.1	Apr 07, 2021		Soil	S21-Ap17429			X										
85	BH343 0-0.2	Apr 07, 2021		Soil	S21-Ap17430			X										

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Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786610
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 9:02 AM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	BTEX	Suite B13: OCP/PCB	Moisture Set	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B4	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
86	BH343 0.2-0.5	Apr 07, 2021		Soil	S21-Ap17431			X										
87	BH344 0.2-0.6	Apr 07, 2021		Soil	S21-Ap17432			X										
88	BH363 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17433			X										
89	BH387 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17434			X										
90	BH337 0-0.2	Apr 08, 2021		Soil	S21-Ap17435			X										
91	BH346 0-0.2	Apr 08, 2021		Soil	S21-Ap17436			X										
92	BH347 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17437			X										
93	BH337 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17438			X										
94	BH336 0-0.2	Apr 08, 2021		Soil	S21-Ap17439			X										
95	BH369 0.5-0.6	Apr 08, 2021		Soil	S21-Ap17440		X											
96	BH345 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17441			X										

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Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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
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Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
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Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
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New Zealand

Auckland
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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
97	BH338 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17442			X										
98	BH361 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17443			X										
99	BH386 0-0.1	Apr 08, 2021		Soil	S21-Ap17444			X										
100	BH362 0-0.1	Apr 08, 2021		Soil	S21-Ap17445			X										
101	BH362 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17446			X										
102	BH173 0-0.1	Apr 08, 2021		Soil	S21-Ap17447			X										
103	BH173 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17448			X										
104	BH177 0-0.1	Apr 08, 2021		Soil	S21-Ap17449			X										
105	BH178 0-0.1	Apr 08, 2021		Soil	S21-Ap17450			X										
106	BH178 0.3-..5	Apr 08, 2021		Soil	S21-Ap17451			X										
107	BH332 0-0.1	Apr 08, 2021		Soil	S21-Ap17452			X										

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Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
108	BH332 0.5-0.6	Apr 08, 2021		Soil	S21-Ap17453			X										
109	BH349 0-0.2	Apr 08, 2021		Soil	S21-Ap17456			X										
110	BH356 0-0.1	Apr 08, 2021		Soil	S21-Ap17460			X										
111	BH356 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17461			X										
112	BH372 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17462			X										
113	BH382 0-0.1	Apr 08, 2021		Soil	S21-Ap17463			X										
114	BH382 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17464			X										
115	BH379 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17465			X										
116	BH373 0-0.1	Apr 08, 2021		Soil	S21-Ap17466			X										
117	BH383 0-0.1	Apr 08, 2021		Soil	S21-Ap17467			X										
118	BH383 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17468			X										

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Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
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IANZ # 1327

Christchurch
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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
119	BH377 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17469			X										
120	BH386 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17471			X										
121	BH171 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17472			X										
122	BH175 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17473			X										
123	BH176 0-0.1	Apr 08, 2021		Soil	S21-Ap17474			X										
124	BH176 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17475			X										
125	BH174 0-0.1	Apr 08, 2021		Soil	S21-Ap17476			X										
126	BH174 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17477			X										
127	BH169 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17478			X										
128	BH170 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17479			X										
129	BH331 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17480			X										

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Australia

Melbourne
6 Monterey Road
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NATA # 1261
Site # 1254 & 14271

Sydney
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
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Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
130	BH331 FRAG	Apr 08, 2021		Building Materials	S21-Ap17481			X										
131	BH375 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17482			X										
132	BH378 0-0.1	Apr 08, 2021		Soil	S21-Ap17483			X										
133	BH378 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17484			X										
134	BH353 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17485			X										
135	BH352 0-0.1	Apr 08, 2021		Soil	S21-Ap17486			X										
136	BH342 0-0.1	Apr 07, 2021		Soil	S21-Ap17487			X										
137	BH370 0-0.1	Apr 07, 2021		Soil	S21-Ap17488			X										
138	BH384 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17489			X										
139	BH371 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17490			X										

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Melbourne
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Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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
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Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
35 O'Rorke Road
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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
140	BH360 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17491			X										
141	BH388 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17492			X										
142	BH389 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17493			X										
143	BH367 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17494			X										
144	BH342 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17495			X										
145	BH364 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17496			X										
146	BH386 0.5-0.7	Apr 07, 2021		Soil	S21-Ap17497			X										
147	BH370 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17498			X										
148	TP450 0-1	Apr 08, 2021		Soil	S21-Ap17499			X										
149	TP450 1-2	Apr 08, 2021		Soil	S21-Ap17500			X										
150	TP459 0-0.4	Apr 08, 2021		Soil	S21-Ap17501			X										

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Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
151	TP454 0-0.7	Apr 08, 2021		Soil	S21-Ap17502			X										
152	TP444 0-0.3	Apr 08, 2021		Soil	S21-Ap17503			X										
153	TP452 0-1	Apr 08, 2021		Soil	S21-Ap17504			X										
154	TP452 0-0.1	Apr 08, 2021		Soil	S21-Ap17505			X										
155	TP451 2-2.8	Apr 08, 2021		Soil	S21-Ap17506			X										
156	TP457 1-2	Apr 08, 2021		Soil	S21-Ap17507			X										
157	TP460 1-2	Apr 08, 2021		Soil	S21-Ap17508			X										
158	TP451 2.8-3.8	Apr 08, 2021		Soil	S21-Ap17509			X										
159	TP457 0-1	Apr 08, 2021		Soil	S21-Ap17510			X										
160	TP456 1-2	Apr 08, 2021		Soil	S21-Ap17511			X										
161	TP461 0-1	Apr 08, 2021		Soil	S21-Ap17512			X										

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Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
162	TP460 2.6-2.8	Apr 08, 2021		Soil	S21-Ap17513			X										
163	TP451 0-1	Apr 08, 2021		Soil	S21-Ap17514			X										
164	TP456 0-1	Apr 08, 2021		Soil	S21-Ap17515			X										
165	TP460 0-1	Apr 08, 2021		Soil	S21-Ap17516			X										
166	TP456 0.3-3.5	Apr 08, 2021		Soil	S21-Ap17517			X										
167	TP452 0-0.1	Apr 08, 2021		Soil	S21-Ap17518			X										
168	TP460 0-0.1	Apr 08, 2021		Soil	S21-Ap17519			X										
169	TP460 2.6-2.8	Apr 08, 2021		Soil	S21-Ap17520			X										
170	TP451 2.8-3	Apr 08, 2021		Soil	S21-Ap17521			X										
171	TP449 1-1.1	Apr 08, 2021		Soil	S21-Ap17522			X										
172	TP457 0-0.1	Apr 08, 2021		Soil	S21-Ap17523			X										

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Sydney
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Perth
46-48 Banksia Road
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Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786610
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 9:02 AM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	BTEX	Suite B13: OCP/PCB	Moisture Set	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B4	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
173	TP451 0-0.1	Apr 08, 2021		Soil	S21-Ap17524			X										
174	TP450 2.5-2.6	Apr 08, 2021		Soil	S21-Ap17525			X										
175	TP357 0-0.1	Apr 08, 2021		Soil	S21-Ap17526			X										
176	TP358 0-0.1	Apr 08, 2021		Soil	S21-Ap17527			X										
177	TP445 0-1	Apr 08, 2021		Soil	S21-Ap17528			X										
178	TP445 1.8-2.5	Apr 08, 2021		Soil	S21-Ap17529			X										
179	TP445 2.5-3.5	Apr 08, 2021		Soil	S21-Ap17530			X										
180	TP459 0.4-1.4	Apr 08, 2021		Soil	S21-Ap17533			X										
181	BHX	Apr 08, 2021		Soil	S21-Ap19659			X										
182	BH380 0.0-0.1	Apr 08, 2021		Soil	S21-Ap19660			X										
183	BH362	Apr 08, 2021		Soil	S21-Ap19661			X										

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
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Sample Detail						Asbestos - WA guidelines	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	BTEX	Suite B13: OCP/PCB	Moisture Set	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B4	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
184	BLANK	Apr 08, 2021		Soil	S21-Ap19662			X										
Test Counts						11	1	109	22	14	28	1	5	61	12	8	10	1

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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.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram | **mg/L:** milligrams per litre | **ug/L:** micrograms per litre

ppm: Parts per million | **ppb:** Parts per billion | **%:** Percentage

org/100mL: Organisms per 100 millilitres | **NTU:** Nephelometric Turbidity Units | **MPN/100mL:** Most Probable Number of organisms per 100 millilitres

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 and 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.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
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 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

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, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene 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 Aroclor 1260 in Matrix Spikes and LCS.
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 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							
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	
LCS - % Recovery							
BTEX							
Benzene	%	91			70-130	Pass	
Toluene	%	94			70-130	Pass	
Ethylbenzene	%	93			70-130	Pass	
m&p-Xylenes	%	93			70-130	Pass	
o-Xylene	%	92			70-130	Pass	
Xylenes - Total*	%	92			70-130	Pass	

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

Authorised by:

Ursula Long — Analytical Services Manager

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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Attachment 5 – JBS&G logs

TEST PIT TP449

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** CD

COMMENTS 1f/3c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry, heterogeneous, low plasticity, firm with no inclusions				
		0.2							
		0.3		Fill	Fill - Clayey Silt, dark grey, damp, heterogeneous, low plasticity, firm with little (10-20%) inclusions of tile, brick, PVC and polystyrene		TP449_0.3-0.9	0	
		0.4							
		0.5							10 Litre AQ taken. No odours, staining or ACM observed.
		0.6							
		0.7							
		0.8							
		0.9		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		1					TP449_1.0-1.3	0	No odours, staining or ACM observed.
		1.1							No odours, staining or ACM observed.
		1.2					TP449 1.2-1.3		
		1.3							
		1.4			Termination Depth at: 1.4 m.				
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP450

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** CD

COMMENTS 1f/3c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2 0.4 0.6 0.8 1 1.2 1.4 1.6 1.8 2 2.2 2.4		Fill	Fill - Clayey Silt, light brown, damp, heterogeneous, low plasticity, firm with trace inclusions of claystone gravels		TP450_0.0-1.0	0.1	10 Litre AQ taken. No odours, staining or ACM observed.
							TP450_1.0-2.0	0	10 Litre AQ taken. No odours, staining or ACM observed.
							TP450_2.0-2.5	0	10 Litre AQ taken. No odours, staining or ACM observed.
		2.6 2.8 3		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		TP450_2.5-2.6	0.2	No odours, staining or ACM observed.
		3.2 3.4 3.6 3.8 4 4.2 4.4 4.6 4.8			Termination Depth at: 3.0 m.				

TEST PIT TP451

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** CD

COMMENTS 1f/3c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2 0.4 0.6 0.8 1		Fill	Fill - Clayey Silt, brown, damp, heterogeneous, low to moderate plasticity, firm with trace inclusions of general household rubbihs (plastic bottles etc)		TP451_0.0-1.0	0	10 Litre AQ taken. No odours, staining or ACM observed. 10 Litre AQ taken. No odours, staining or ACM observed.
		1.2 1.4 1.6 1.8 2 2.2 2.4 2.6 2.8		Fill	Fill - Clayey Silt, black, damp becoming saturated from 2.0 m bgs, heterogeneous, low plasticity, firm with trace inclusions of claystone gravels, polystyrene and other general household rubbish		TP451_1.0-2.0 TP451_2.0-2.8	0.2 0	10 Litre AQ taken. No odours, staining or ACM observed. 10 Litre AQ taken. No odours, staining or ACM observed.
		3 3.2 3.4 3.6 3.8		Fill	Fill - Building and Demolition Waste (bricks, concrete blocks and tile), with Gravelly Sandy Clay matrix, grey, saturated, moderate plasticity, soft		TP451_2.8-3.8	0.1	No odours, staining or ACM observed. 10 Litre AQ taken. No odours, staining or ACM observed.
		4 4.2 4.4 4.6 4.8			Termination Depth at: 3.8 m.				

TEST PIT TP452

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** RL

COMMENTS 1f/3c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2 0.4 0.6 0.8 1		Fill	Fill - Clayey Silt, brown, damp, heterogenous,low plsticity, firm with inclusions of trace claystone gravels and several tyres		TP452_0.0-1.0	0	No odours, staining or ACM observed. 10 Litre AQ taken. No odours, staining or ACM observed.
		1 1.2 1.4 1.6 1.8 2		Fill	Fill - Clay, brown mottled grey, damp, heterogeneous, moderate plasticity, firm with inclusions of tyres		TP452_1.0-2.0 TP452_1.1-1.2	0.1 0.1	No odours, staining or ACM observed. 10 Litre AQ taken. No odours, staining or ACM observed.
		2.2 2.4 2.6 2.8		CL	Clay - Sandy Clay (Alluvium), brown mottled grey, damp, heterogeneous, moderate plasticity, firm to stiff with trace inclusions of claystone gravels		TP452_2.4-2.5	0.1	No odours, staining or ACM observed.
		3 3.2 3.4 3.6 3.8 4 4.2 4.4 4.6 4.8			Termination Depth at: 2.9 m.				

TEST PIT TP453

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** CD

COMMENTS 1f/3c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9		Fill	Fill - Clayey Silt, brown, damp, heterogeneous, low plasticity, firm with no inclusions		TP453_0.0-0.9	0	10 Litre AQ taken. No odours, staining or ACM observed.
		1 1.1 1.2 1.3 1.4		Concrete	Fill - Tyres				
		1.5 1.6 1.7 1.8 1.9		CL	Clay - Sandy Clay (Alluvium), brown mottled grey, damp, heterogeneous, moderate plasticity, firm to stiff with trace inclusions of claystone gravels				
					Termination Depth at: 1.9 m.				

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TEST PIT TP454

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** CD

COMMENTS 1f/3c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		Fill	Fill - Clayey Silt, drown, damp, heterogenous, low plasticity, soft with no inclusions		TP454_0.0-0.7	0.1	10 Litre AQ taken. No odours, staining or ACM observed.
		0.7		Fill	Fill - Clayey Silt, black mottle dark grey, wet, heterogenous, non plastic		TP454_0.7-1.2	0	10 Litre AQ taken. No odours, staining or ACM observed.
		1.2		CL	Clay - Sandy Clay (Alluvium), light brown, damp, heterogeneous, moderate to high plasticity, firm to stiff with trace inclusions of claystone gravels		TP454_1.4-1.5	0	Organic odour. No staining or ACM observed.
		1.7			Termination Depth at: 1.7 m.				

TEST PIT TP455

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** CD

COMMENTS 1f/3c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2 0.4 0.6 0.8 1 1.2 1.4 1.6 1.8		Fill	Fill - Clayey Silt, brown, damp, heterogeneous, moderate plasticity, stiff with inclusions of roots		TP455_0.0-1.0	0	10 Litre AQ taken. No odours, staining or ACM observed.
							TP455_1.0-1.8	0	10 Litre AQ taken. No odours, staining or ACM observed.
		2 2.2 2.4 2.6 2.8 3 3.2 3.4		Fill	Fill - Sandy Clay, black mottled grey, damp becoming wet at 2.0 m bgs and saturated at 3.0 m bgs, heterogeneous, moderate plasticity, firm to stiff with slittle (10-20%) inclusions of glass, bricks, plastic, polystyrene and plastic		TP455_1.8-2.5	0	10 Litre AQ taken. No odours, staining or ACM observed.
							TP455_2.5-3.5	0.1	10 Litre AQ taken. No odours, staining or ACM observed.
		3.6 3.8 4 4.2 4.4 4.6 4.8			Termination Depth at: 3.5 m.				

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TEST PIT TP456

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** CD

COMMENTS 1f/3c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2 0.4 0.6 0.8 1		Fill	Fill - Sandy Clayey Silt, damp, heterogeneous, low plasticity, firm with inclusions of roots		TP456_0.0-1.0	0.1	No odours, staining or ACM observed. 10 Litre AQ taken. No odours, staining or ACM observed.
		1.2 1.4 1.6 1.8 2 2.2 2.4 2.6 2.8		Fill	Fill - Gravelly Clayey Silt, brown, damp, heterogeneous, stiff with inclusions of cobble sandstone gravels, trace oysters and brick fragments		TP456_1.0-2.0 TP456_2.8-3.0	0.1 0.1	10 Litre AQ taken. No odours, staining or ACM observed. No odours, staining or ACM observed.
		3 3.2		Fill	Fill - Clayey Silt, brown, moist, heterogeneous, stiff with no inclusions				
		3.4 3.6		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		3.8 4 4.2 4.4 4.6 4.8			Termination Depth at: 3.6 m.				

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produced by ESlog.ESdat.net on 29 Apr 2021

TEST PIT TP457

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** CD

COMMENTS 1f/3c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2		Fill	Fill - Sandy Clay, light brown, dry, heterogenous, low plasticity, firm with no inclusions		TP457_0.0-1.0	0	No odours, staining or ACM observed.
		0.4							10 Litre AQ taken. No odours, staining or ACM observed.
		0.6		Fill	Fill - Sandy Clay, grey and light brown, dry, heterogeneous, low to moderate plasticity, stiff with little (10-20%) inclusions of building and demolition waste, bricks, plastic and wire				
		0.8							
		1					TP457_1.0-2.0	0.1	
		1.2							10 Litre AQ taken. No odours, staining or ACM observed.
		1.4							
		1.6							
		1.8							
		2					TP457_2.0-2.5	0	10 Litre AQ taken. No odours, staining or ACM observed.
		2.2							
		2.4							No odours, staining or ACM observed.
		2.6		CL	Clay - light brown mottled grey, damp, homogeneous, moderate plasiticty, stiff		TP457_2.5-2.6	0	
		2.8							
		3			Termination Depth at: 3.0 m.				
		3.2							
		3.4							
		3.6							
		3.8							
		4							
		4.2							
		4.4							
		4.6							
		4.8							

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TEST PIT TP458

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** CD

COMMENTS 1f/3c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9		Fill	Fill - Clayey Silt, light brown mottled red and white, damp, heterogeneous, moderate plasticity, firm with inclusions of some (20-35%) brick and tile		TP458_0-0.9	0	10 Litre AQ taken. No odours, staining or ACM observed.
		1 1.1 1.2 1.3 1.4		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		1.5 1.6 1.7 1.8 1.9			Termination Depth at: 1.4 m.				

TEST PIT TP459

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 08-Apr-21
DRILL RIG
DRILLING METHOD
DIMENSIONS 1.5 x 0.4 m

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY CD

COMMENTS 1f/3c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2		Fill	Fill - Clayey Silt, brown, damp, heterogeneous, moderate plasticity, firm with no inclusions		TP459_0.0-0.4	0.1	10 Litre AQ taken. No odours, staining or ACM observed.
		0.4		Fill	Fill - Gravelly Clayey Silt, dark grey, damp, heterogenous, low plasticity, firm. Angular igneous medium gravels and inclusions of trace plastic, brick and tile		TP459_0.4-1.4	0	10 Litre AQ taken. No odours, staining or ACM observed.
		0.6							
		0.8							
		1							
		1.2							
		1.4					TP459_1.4-2.4	0	
		1.6							10 Litre AQ taken. No odours, staining or ACM observed.
		1.8							
		2							
		2.2							
		2.4		CL	Clay - reddish brown, moist, homogeneous, high plasiticty, stiff				
		2.6							
		2.8							
		3			Termination Depth at: 2.9 m.				
		3.2							
		3.4							
		3.6							
		3.8							
		4							
		4.2							
		4.4							
		4.6							
		4.8							

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TEST PIT TP460

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** CD

COMMENTS 1f/3c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2 0.4 0.6 0.8 1		Fill	Fill - Silty Sandy Clay, brown, damp, heterogenous, moderate plasticity, firm with inclusions of trace igneous gravels and rootlets		TP460_0.0-1.0	0	No odours, staining or ACM observed. 10 Litre AQ taken. No odours, staining or ACM observed.
		1.2 1.4 1.6 1.8 2 2.2 2.4 2.6		Fill	Fill - Clayey Silt, black, damp to moist, heterogeneous, low plasticity, firm with little (10-20%) inclusions of building and dmeolition waste, bricks, concrete and tiles		TP460_1.0-2.0 TP460_2.0-2.6	0.1 0.2	10 Litre AQ taken. No odours, staining or ACM observed. 10 Litre AQ taken, potential ACM fragments observed. No odours or staining observed.
		2.8		Fill	Fill - Silty Sandy Gravel, light grey, heterogeneous, non plastic, soft with come (20-35%) inclusions of brick, wood, vinyl tiles		TP460_2.6-2.8	0	No odours, staining or ACM observed.
		3 3.2 3.4 3.6 3.8 4 4.2 4.4 4.6 4.8			Termination Depth at: 2.9 m.				

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TEST PIT TP461

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** CD

COMMENTS 1f/3c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2		Fill	Fill - Clayey Silt, light brown, damp, heterogenous, low plasticity, firm with inclusions of a single tyre		TP461_0.1-1.0	0	10 Litre AQ taken. Organic odour. No staining or ACM observed.
		1		Fill	Fill - Clayey Silt, dark grey, saturated, heterogeneous, low plasticity, stiff with no inclusions		TP461_1.0-2.0	0.1	10 Litre AQ taken. Organic odour. No staining or ACM observed.
		2		CL	Clay - reddish brown, moist, homogeneous, high plasiticty, stiff				
		2.4					TP461_2.4-2.5	0	No odours, staining or ACM observed.
		2.6			Termination Depth at: 2.6 m.				
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							
		4							
		4.2							
		4.4							
		4.6							
		4.8							

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TEST PIT TP462

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** CD

COMMENTS 1f/3c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2 0.4 0.6 0.8 1		Fill	Fill - Clayey Silt, light brown, damp, heterogenous, moderate plasticity, soft with no inclusions		TP462_0.0-1.0	0.1	10 Litre AQ taken. No odours, staining or ACM observed.
		1.2 1.4 1.6 1.8 2 2.2 2.4 2.6 2.8 3 3.2 3.4 3.6 3.8		Fill	Fill - Clayey Silt, dark grey, damp, heterogeneous, moderate plasticity, firm with some (20-35%) inclusions of brick, metal, plastic, tyres and potential ACM fragments		TP462_1.0-2.0	0	10 Litre AQ taken. No odours, staining or ACM observed.
							TP462_2.0-3.0	0.1	10 Litre AQ taken. No odours, staining or ACM observed.
							TP462_3.0-3.8	0.1	10 Litre AQ taken. No odours, staining or ACM observed.
		4		CL	Clay - Sandy Clay (Alluvium), light brown, damp, heterogeneous, moderate to high plasticity, firm to stiff with trace inclusions of claystone gravels				
		4.2 4.4 4.6 4.8			Termination Depth at: 4.3 m.				

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TEST PIT TP463

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** CD

COMMENTS 1f/3c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2 0.4 0.6 0.8		Fill	Fill - Clayey Silt, light brown, damp, heterogenous, moderate plasticity, soft to firm with no inclusions		TP463_0.0-0.8	0	10 Litre AQ taken. No odours, staining or ACM observed.
		1 1.2 1.4 1.6 1.8 2 2.2 2.4 2.6 2.8 3 3.2 3.4 3.6 3.8 4 4.2		Fill	Fill - Clayey Silt, dark grey, damp, heterogenous, moderate plasticity, stiff with little (10-20%) inclusions of building and demolition waste including potential ACM, concrete, metal and wood		TP463_0.8-1.8	0.1	10 Litre AQ taken. No odours, staining or ACM observed.
							TP463_1.8-2.8	0	10 Litre AQ taken. No odours, staining or ACM observed.
							TP463_2.8-3.8	0	10 Litre AQ taken. No odours, staining or ACM observed.
							TP463_3.8-4.2	0.1	10 Litre AQ taken. No odours, staining or ACM observed.
				CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff. Grading to grey claystone with increasing claystone gravels at depth		TP463_4.2-4.7	0	No odours, staining or ACM observed.
		4.4 4.6					TP463_4.3-4.4	0	No odours, staining or ACM observed.
		4.8			Termination Depth at: 4.7 m.				

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TEST PIT TP464

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** CD

COMMENTS 1f/3c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2		Fill	Fill - Clayey Silt, brownish orange, damp, heterogenous, moderate plasticity, soft with trace inclusions of igneous gravels		TP464_0.0-1.0	0.2	10 Litre AQ taken. No odours, staining or ACM observed.
		1					TP464_1.0-1.6	0.1	10 Litre AQ taken. No odours, staining or ACM observed.
		1.6		Fill	Fill - Clayey Silt, dark grey, damp, heterogeneous, low plasticity, firm with trace inclusions of tile and concrete		TP464_1.6-2.3	0	10 Litre AQ taken. No odours, staining or ACM observed.
		2.2		CL	Clay - Sandy Clay (Alluvium), brown mottled grey, damp, heterogeneous, moderate plasticity, firm to stiff with trace inclusions of claystone gravels		TP464_2.3-2.4	0	No odours, staining or ACM observed.
		2.8			Termination Depth at: 2.8 m.				

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20 March 2024

Monica Ngo
Frasers Property Industrial Pty Ltd
Via: monica.ngo@fraserspropery.com.au

Waste Classification (TP398), Aldington Road Kemps Creek NSW

Dear Monica,

JBS&G Australia Pty Ltd (JBS&G) was engaged by Frasers Property Industrial Pty Ltd (Frasers, the client) to provide a waste classification for off-site disposal of material associated with the excavation and removal of fill material at historical test-pit location 'TP398' located in the western portion of the site designated as 'Area 6c' within the Edge South Development Site, Aldington Road Kemps Creek NSW. The location of the site and material (to which this waste classification pertains) are shown in **Figures 1** and **2** respectively (**Attachment 2**).

A Detailed Site Investigation (DSI, JBS&G 2021[1]) and subsequent Remediation Action Plan (RAP, JBS&G 2024[2]) was prepared for the site which outlined a number of remedial areas including 'Area 6c' identified to comprise contamination requiring remediation and/or management. Specific to 'Area 6c', elevated hydrocarbon concentrations above land use criteria were identified within historical test-pit location 'TP398' at a depth between the surface and 0.25 m below ground surface (bgs) requiring removal.

The materials were excavated and stockpiled. JBS&G collected soil samples for laboratory analysis. Soil samples were analysed for contaminants of potential concern (COPCs) including total recoverable hydrocarbons (TRH), benzene, toluene, ethylbenzene, and xylenes (BTEX), polycyclic aromatic hydrocarbons (PAHs), PCBs, organochlorine pesticides (OCPs), heavy metals (As, Cd, Cr, Pb, Hg, Ni) and asbestos.

Details of the site, material encountered, and waste classification are provided below. The limitations included in **Attachment 1** apply to the advice provided herein.

1. Site and Assessment Area Legal Identifiers and Owner

Site Lot/DP	Lot 33/ DP 258949 155 to 167 Aldington Road, Kemps Creek, NSW, 2178 Lot 28/ DP 255560 169 to 181 Aldington Road, Kemps Creek, NSW, 2178 Lot 27/ DP 255560 183 to 197 Aldington Road, Kemps Creek, NSW, 2178 Lot 26/ DP 255560 199 Aldington Road, Kemps Creek, NSW, 2178 Lot 25/ DP 255560 201 to 217 Aldington Road, Kemps Creek, NSW, 2178 Lot 24/DP 255560 219 to 233 Aldington Road, Kemps Creek, NSW 2178 Lot 10/DP 253503 235 to 251 Aldington Road, Kemps Creek, NSW 2178
Site (waste) Occupant	Frasers Property Industrial Pty Ltd
Local Government Authority	Penrith Council

[1] *Frasers Property Industrial Constructions Pty Ltd, Detailed Site Investigation, Aldington Road Estate, 155-167, 169-181, 183-197, 199 and 201-217, Aldington Road, Kemps Creek, NSW*, dated 11 August 2021, reference: 60482/137852 (Rev 2), JBS&G Australia Pty Ltd (JBS&G 2021)

[2] *Frasers Property Industrial Pty Ltd, Remediation Action Plan, Aldington Road Estate, Edge South Development, Aldington Road, Kemps Creek*, dated 5 February 2024, reference: 65376|157278 (Rev 2), JBS&G Australia Pty Ltd (JBS&G 2024)

Site Area (total)	63.6 ha (636,000 m^3)
Investigation Area	Material from historic location TP398 as shown in **Figure 2.**

2. Consultant Preparing Waste Classification

Name	JBS&G Australia Pty Ltd
Australian Business Number (ABN)	62 100 220 479
Address	Level 1, 50 Margaret Street, Sydney, NSW 2000.
Person(s) Providing Waste Classification	Samuel Knott / Massimo Chapman

3. Desktop Review

Site Setting	The portion of the site in which the materials are located was observed to comprise agricultural uses of grazing and horticulture. The site and surrounding areas largely comprise a mixture of agricultural and rural residential properties, as well as a construction site opposite 219-233 Aldington Road.
Production History of Materials	Materials subject to this waste classification comprise stockpiled fill material (of unknown origin) which was excavated from TP398 and surrounding across an area of 30 m^2 and to a depth of 0.5 m (**Figure 2, Attachment 2**). This advice specifically relates to material identified within the area marked on **Figure 2** (**Attachment 2**), where hydrocarbon contaminated material was previously identified. Photographs of the material described herein are provided in the Photographic Log (**Attachment 3**).
Acid Sulfate Soil (ASS)	Review of data using the SEED[3] tool, indicates the area occupied by the site is within an area not assessed for the presence of Acid Sulfate Soils (ASS). Such sites are identified by default, as areas where land management activities are not likely to be affected by ASS materials. Review of the geographical and topographical location of the assessment area, in addition to the geological conditions identified at the site has indicated that the likelihood of ASS within the study area is low.
Potential Contaminating Activities?	Potentially contaminating activities identified within the DSI (JBS&G 2021) and/or otherwise include historical rural residential and agricultural grazing activities, potential maintenance of crops via the use of pesticides, and potentially hazardous building materials within site structures.

4. Material Characterisation and Sampling Rationale

Area/GPS Coordinates	See **Figure 1** and **2** (**Attachment 2**) for approximate location of the historical test-pit location TP398, and stockpiled materials.
Estimated volume (m3)	Approximately 30 m^2 was excavated and stockpiled adjacent to historical test-pit location TP398.
Sampling Method	A total of 3 samples were collected. At each location, soil samples were collected at least 0.3 m from the surface of the stockpile and are considered representative of the excavated materials. Representative samples were collected via a gloved hand using a fresh pair of disposable nitrile gloves at each sample location and placed into laboratory supplied jars and bags. During sample collection material was inspected for any potential indicators of contamination including staining, odours or asbestos containing material (ACM).

[3] https://www.seed.nsw.gov.au/ accessed 14 March 2024

	All samples were immediately placed into a chilled esky prior to delivery to the laboratory under appropriate chain of custody (COC) procedures.
Material Identification	Material was characterised as a heterogenous brown, gravelly sand, with inclusions of slag and ash and glass. No odours or discolouration/staining were observed throughout the fill material. Photographs of the materials are provided in **Attachment 3**.
Visible Signs of Contamination?	No
Visible ACM?	No
Visible Putrescible Material?	No
Number of Samples and Sample IDs	The JBS&G sampling activities included a total of 3 primary soil samples submitted for laboratory analysis for chemical contaminants of potential concern (COPC). The analytical summary tables are presented as **Tables A** and **B** (**Attachment 4**) with JBS&G laboratory reports provided in **Attachment 5.** Historic data from JBS&G (2021) has been included as **Table C (Attachment 4)**.
Rational for Sampling Design	JBS&G undertook sampling in general accordance with the guidance for stockpile sampling provided in EPA (2022[4]) *Sampling design part 1 – application, Contaminated Land Guidelines*, whereby a minimum of 3 sampling locations are required to characterise up to 75 m^3 of material. On this basis, the samples collected herein are considered to have appropriately characterised the material such that decisions may be made regarding a waste classification as per requirements.
QA/QC Assessment	The field sampling and handling procedures produced quality assurance (QA) and quality control (QC) results which indicate that the collected soil analytical data are of an acceptable quality and suitable for use as part of the waste classification assessment. The NATA certified laboratory results sheets indicate that the project laboratory was generally achieving levels of performance within its recommended control limits during the period when the samples for this project were analysed. On the basis of the results of the field and laboratory QA/QC program, the soil data is of an acceptable quality in order to achieve the objectives of the current assessment.
Toxicity Characteristic Leaching Procedure (TCLP) Samples	Yes, as presented in **Table B** (**Attachment 4**)
Sampling Date	JBS&G sampling event(s): 14 March 2024

5. Laboratory Analysis

Laboratory	Primary Laboratory: Eurofins
All laboratory methods NATA certified?	Yes
Contaminants of Concern	Total recoverable hydrocarbons (TRH), benzene, toluene, ethylbenzene and xylenes (BTEX), benzo(a)pyrene, polycyclic aromatic hydrocarbons (PAH), polychlorinated biphenyls (PCB), organochlorine pesticides (OCP), heavy metals (As, Cd, Cr, Pb, Hg, Ni), Asbestos, VOCs (Volatile Organic Compounds), and Toxicity Characteristic Leaching Procedure (TCLP) for B(a)P.
Laboratory Report Attached?	Yes (**Attachment 5**)

[4] *Contaminated Land Guidelines, Sampling design part 1 – application*, NSW Environment Protection Authority, August 2022 (EPA 2022)

Additional Data Sources?	As discussed above, previous investigations undertaken by JBS&G (2021) identified fill materials within TP398 to a depth of approximately 0.25 m. Fill material was reported as black (stained) silty gravel, with some inclusions of road based gravels. Fill was underlain by reddish brown clay. Historical results have been included as part of the discussion of results below.
Is the material covered by a General Immobilisation Approval?	Yes, *1999/05 – Ash, ash contaminated natural excavated materials or coal contaminated natural excavated materials.* Ash was noted in the material during excavation, and TCLP results are consistent with the limit of the General Immobilisation Approval.
Discussion of Results	For the purposes of this classification, a total of 3 relevant samples were analysed for COPCs, with the results of historic investigations incorporated into the current assessment. Review of the laboratory analysis results has identified that contaminant concentrations were reported to be below the contaminant threshold (CT1) for general solid waste (GSW) in the *NSW EPA (2014) Waste Classification Guidelines – Part 1: Classifying Waste* with the exception of: • Benzo(a)pyrene [B(a)P]- concentrations ranged from 29 to 170 mg/kg, with all 3 results in excess of the CT2 criteria. All samples were reported as exceeding the SCC1 and SCC2 criteria. TCLP preparation and analysis of leachate samples for B(a)P was undertaken to characterise the leachable concentration of B(a)P, as per EPA (2014). All samples reported results below the laboratory limit of reporting and/or the TCLP1 leachate criteria for B(a)P. It is noted that TCLP analysis was not conducted on the historic sample at TP398. However, the concentrations of COPC (in particular B(a)P) are considered consistent with the results of this waste assessment. Therefore, the classification can be made using the current TCLP data set. All other contaminant concentrations were less than the relevant CT1/SCC1 criteria. Detailed laboratory results are provided in **Attachment 5**.

6. Waste Classification

Waste Classification	**General Solid Waste (GSW) non-putrescible** This waste classification only applies to the materials stockpiled from the excavation of TP398 shown in **Figure 2**, **Attachment 2**.
Does 'Special Waste' apply?	No
Is the Material Classified as 'Hazardous Waste'?	No
Classification Comments	The classification applies to the material identified in the relevant TP398 excavation area shown on **Figure 2**. The waste classification documented herein has been undertaken in accordance with the *Waste Classification Guidelines, Part 1: Classifying Waste (NSW EPA 2014)* and *1999/05 – Ash, ash contaminated natural excavated materials or coal contaminated natural excavated material* general immobilisation order.
Disposal Comments	Waste must be transported by an appropriately licensed transporter and disposed to a facility that is licensed to receive that class of waste, including waste classified under the general immobilisation order *1999/05 – Ash, ash contaminated natural excavated materials or coal contaminated natural excavated materials.* Waste must be managed in accordance with relevant guidelines and regulations during loading, transport, unloading and disposal.

Notes

1. The estimated volume of waste is an indicative estimate only based on either client-supplied data or field observations including estimated elevation, extent and/or depths. For material characterised in-situ, a bulking factor may be applied.
2. Material observations including those relating to visible ACM and putrescible materials were made prior to material leaving the source site.
3. Wastes that are generally classified as putrescible include: green waste, agricultural, forestry and crop materials, and natural fibrous organic and vegetative materials, as per EPA (2014) *Waste Classification Guidelines, Part 1: Classifying Waste*.
4. Materials have been classified in accordance with EPA (2014) *Waste Classification Guidelines, Part 1: Classifying Waste*.
5. The disposal Facility or Facilities must be appropriately licensed under Schedule 1, Section 39; "Waste Disposal (Application to Land)", of the *Protection of the Environment Operations (POEO) Act 1997*. Disposal of 'Asbestos Waste', as defined under the Act and associated Waste Guidelines, is required to be managed in accordance with the *Protection of the Environment Operations (Waste) Regulation 2014* in terms of loading, transport, unloading and disposal. The *POEO Act 1997* states that if waste is transported to a facility not lawfully authorised as a waste facility for that waste, the owner, transporter and receiver of the waste are each guilty of an offence. The owner of waste includes, in relation to waste that has been transported, the person who was the owner of the waste immediately before it was transported. There are special considerations for transport and management including disposal of asbestos waste under the POEO (Waste) Regulation, including tracking and reporting of asbestos waste using NSW EPA Integrated Waste Tracking Solution (IWTS).

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

Your Sincerely:

Sam Knott
Environmental Consultant
JBS&G Australia Pty Ltd

Reviewed/Approved by:

Seth Molinari
Senior Principal
JBS&G Australia Pty Ltd

Attachments:

(1) Limitations
(2) Figures
(3) Photographic Log
(4) Tables
(5) Laboratory Analysis Report and COCs
(6) JBS&G Borehole Logs

Attachment 1 – 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 2 – Figures

Legend

Approximate Site Boundary

JBS&G

Job No: 66105	
Client: Frasers Property Australia	
Version: R01 Rev B	Date 15/08/2023
Drawn By: IA	Checked By: RH

Scale 1:20,000

0 190 380

metres

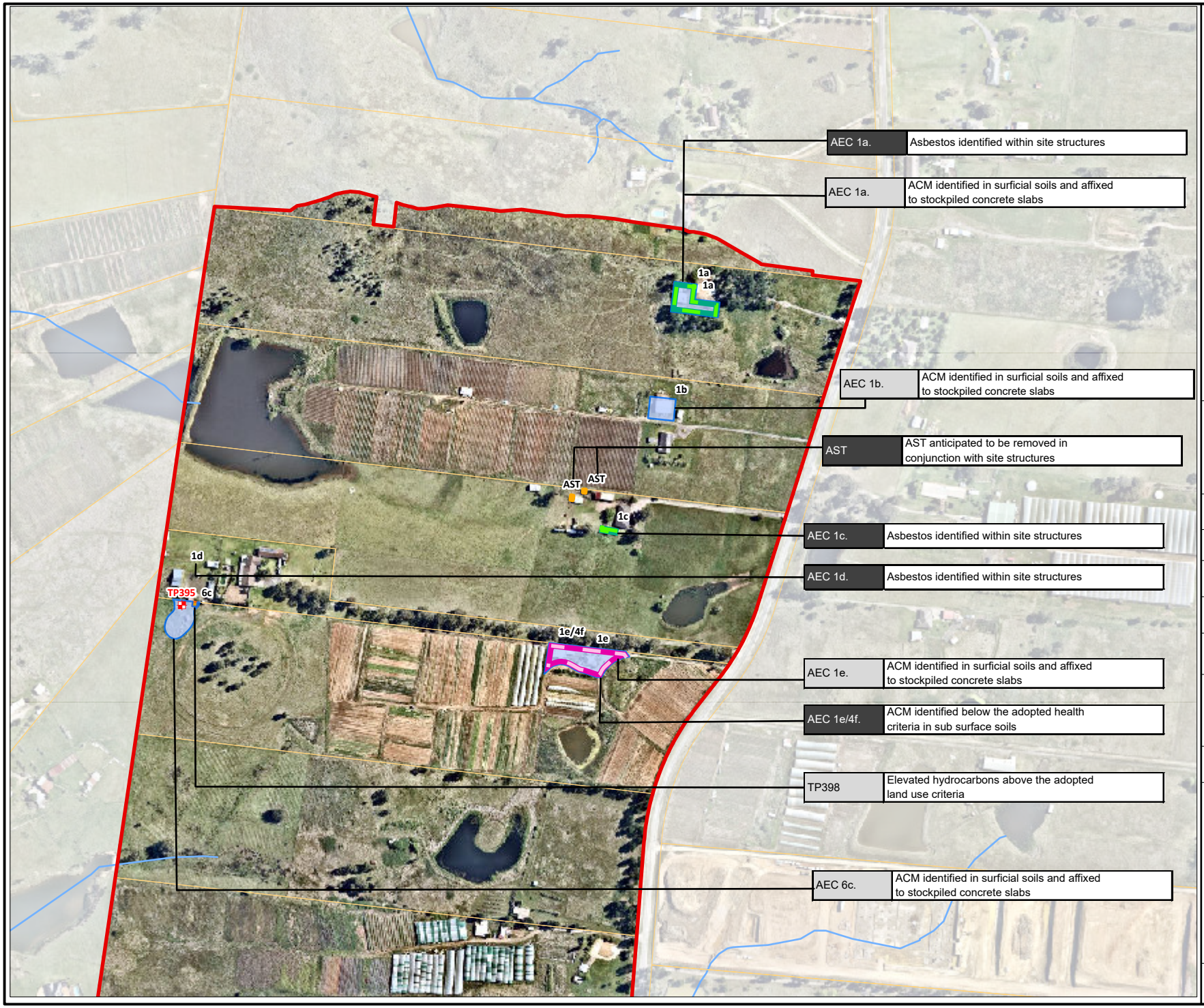
Coord. Sys. GDA 1994 MGA Zone 56

Aldington Road
Kemps Creek, NSW

SITE LOCATION

FIGURE 1

File Name: 65376_KempsCreek_FrasersProperty_R04
Reference: © OpenStreetMap (and) contributors, CC-BY-SA



Legend

Approximate Site Boundary

NSW Cadastre (DFSI, 2021)

Sample Location

Test Pit (JBS&G 2021)

Management Areas

ACM identified below the adopted health criteria in sub surface soils (> 0.1 m bgs)

Asbestos identified within site structures (further findings may occur following HBMS)

AST Location

Remedial Extent

Elevated hydrocarbons above the adopted land use criteria

ACM identified in surficial soils (< 0.1 m bgs) and/or affixed to stockpiled concrete slabs

Key	Remedial Extent
Key	Management Area

JBS&G

Job No: 65376

Client: Frasers Property

Version: R04 Rev B	Date 15/08/2023
Drawn By: IA	Checked By: RH

Scale 1:6,000

0 50 100

metres

Coord. Sys. GDA 1994 MGA Zone 56

Aldington Road
Kemps Creek, NSW

Remedial Extents and Management Areas (North)
155-167, 169-181, 183-197, 199, 201-217 Aldington Road

FIGURE 2

File Name: 65376_KempsCreek_FrasersProperty_R04
Reference: Nearmap - www.nearmap.com (Capture Date: 2021/10/17)

Attachment 3 – Photographic Log

Photograph 1 – TP398 Excavation (west facing)

Photograph 2 – Stockpiled excavated material from TP398

Photograph 3 – Ash material in TP398 excavation

Attachment 4 - Tables

Table A - Soil
Project Number: 66105
Project Name: Aldington Road

	Metals & Metalloids								TPHs (NEPC 1999)					TRHs (NEPC 2013)							BTEXN						
	Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc	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/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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	5	5	5	0.1	5	5	20	20	50	50	50	20	50	100	100	100	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[#1]		100	4	40		650[#2]				10000[#2]								10	288	600			1000	
NSW 2014 General Solid Waste SCC1 (with leached)	500	100	1900[#1]		1500	50	1050		650[#5]				10000[#5]								18	518	1080			1800	
NSW 2014 Restricted Solid Waste CT2 (No Leaching)	400	80	400[#1]		400	16	160		2600[#2]				40000[#2]								40	1152	2400			4000	
NSW 2014 Restricted Solid Waste SCC2 (with leached)	2000	400	7600[#1]		6000	200	4200		2600[#5]				40000[#5]								72	2073	4320			7200	

Field ID	Location	Sample_Depth_Range	Sampled_Date_Time	Matrix_Description	Monitoring_Round																							
398-01	398-01		14/03/2024			4.5	0.7	10	81	33	<0.1	32	140	<20	<20	4100	1500	5600	<20	100	4900	830	5830	<20	100	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
398-02	398-02		14/03/2024			5.2	<0.4	12	36	27	<0.1	22	81	<20	<20	720	660	1380	<20	<50	1200	670	1870	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
398-03	398-03		14/03/2024			3.3	<0.4	10	29	16	<0.1	22	44	<20	<100	3700	1800	5500	<20	<250	4800	1400	6200	<20	<250	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5

Env Stds Comments
#1:Trigger value adopted from Chromium VI
#2:Approximate range of petroleum hydrocarbon fractions: petrol C6–C9, kerosene C10–C18, diesel C12–C18, and lubricating oils above C18. Refer to NSW Waste Criteria Nov 2014 p.12 footnote 7
#3:There may be a need for the laboratory to concentrate the sample to achieve the TCLP limit value for benzo(a)pyrene with confidence. Refer to NSW Waste Criteria Nov 2014 p.11 footnote 2
#4:Polychlorinated biphenyls must be managed in accordance with the EPA's polychlorinated biphenyl (PCB) chemical control order 1997. Refer to NSW Waste Criteria Nov 2014 p.12 footnote 8
#5:Refer to NSW Waste Criteria Nov 2014 p.17 footnote 13
#6:Calculated from Hazardous Waste: Identification and Listing (USEPA 2012a). Refer to NSW Waste Criteria Nov 2014 p.16 footnote 3, 4
#7:Refer to NSW Waste Criteria Nov 2014 p.17 footnote 12, EPA Chemical Control Order 1997, clause 4.13
#8:Refer to NSW Waste Criteria Nov 2014 p.17 footnote 12

Data Comments
#1 No asbestos detected at the reporting limit of 0.01% w/w.Organic fibre detected.No trace asbestos detected.
#2 No trace asbestos detected.
#3 Organic fibres detected.
#4 Nil

Table A - Soil
Project Number: 66105
Project Name: Aldington Road

						PAH																	
						Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(a)pyrene TEQ (LOR)	Benzo(a)pyrene TEQ calc (Half)	Benzo(a)pyrene TEQ calc (Zero)	Benzo(b+j)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)
						mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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						0.5	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	0.5	0.5	0.5
NSW 2014 General Solid Waste CT1 (No Leaching)										0.8[#3]															
NSW 2014 General Solid Waste SCC1 (with leached)										10[#5]															
NSW 2014 Restricted Solid Waste CT2 (No Leaching)										3.2[#3]															
NSW 2014 Restricted Solid Waste SCC2 (with leached)										23[#5]															
Field ID	**Location**	**Sample_Depth_Range**	**Sampled_Date_Time**	**Matrix_Description**	**Monitoring_Round**																				
398-01	398-01		14/03/2024			15	0.7	59	140	120	200	200	200	150	120	91	140	32	290	9.7	91	1.5	180	240	1700
398-02	398-02		14/03/2024			2.1	<0.5	59	28	29	49	49	49	34	31	25	34	8	86	1.4	24	<0.5	45	70	480
398-03	398-03		14/03/2024			16	0.8	59	200	170	290	290	290	200	180	140	200	50	430	9.4	150	0.9	210	340	2400

Env Stds Comments
#1:Trigger value adopted from Chromium VI
#2:Approximate range of petroleum hydrocarbon fractions: petrol C6–C9, kerosene C10–C18, diesel C12–C18, and lubric
#3:There may be a need for the laboratory to concentrate the sample to achieve the TCLP limit value for benzo(a)pyrene
#4:Polychlorinated biphenyls must be managed in accordance with the EPA's polychlorinated biphenyl (PCB) chemical c
#5:Refer to NSW Waste Criteria Nov 2014 p.17 footnote 13
#6:Calculated from Hazardous Waste: Identification and Listing (USEPA 2012a). Refer to NSW Waste Criteria Nov 2014 p
#7:Refer to NSW Waste Criteria Nov 2014 p.17 footnote 12, EPA Chemical Control Order 1997, clause 4.13
#8:Refer to NSW Waste Criteria Nov 2014 p.17 footnote 12

Data Comments
#1 No asbestos detected at the reporting limit of 0.01% w/w.Organic fibre detected.No trace asbestos detected.
#2 No trace asbestos detected.
#3 Organic fibres detected.
#4 Nil

Table A - Soil
Project Number: 66105
Project Name: Aldington Road

	Organochlorine Pesticides																							Polychlorinated Biphenyls								Chlorinated Benzenes	PA VIC - IWRG62	
	4,4-DDE	a-BHC	b-BHC	d-BHC	g-BHC (Lindane)	Aldrin	Dieldrin	Aldrin + Dieldrin	Chlordane	DDT	DDD	DDT+DDE+DDD	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor Epoxide	Methoxychlor	Toxaphene	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	PCBs (Sum of total)	Hexachlorobenzene	Organochlorine Pesticides EPAVic	Other Organochlorine Pesticides EPAVic
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	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	0.5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1	0.1
NSW 2014 General Solid Waste CT1 (No Leaching)																														<50[#4]			
NSW 2014 General Solid Waste SCC1 (with leached)																														<50[#7]			
NSW 2014 Restricted Solid Waste CT2 (No Leaching)																														<50[#4]			
NSW 2014 Restricted Solid Waste SCC2 (with leached)																														<50[#8]			

Field ID	Location	Sample_Depth_Range	Sampled_Date_Time	Matrix_Description	Monitoring_Round																													
398-01	398-01		14/03/2024			<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	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
398-02	398-02		14/03/2024			<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	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1
398-03	398-03		14/03/2024			<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	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1

Env Stds Comments
#1:Trigger value adopted from Chromium VI
#2:Approximate range of petroleum hydrocarbon fractions: petrol C6–C9, kerosene C10–C18, diesel C12–C18, and lubric
#3:There may be a need for the laboratory to concentrate the sample to achieve the TCLP limit value for benzo(a)pyrene
#4:Polychlorinated biphenyls must be managed in accordance with the EPA's polychlorinated biphenyl (PCB) chemical c
#5:Refer to NSW Waste Criteria Nov 2014 p.17 footnote 13
#6:Calculated from Hazardous Waste: Identification and Listing (USEPA 2012a). Refer to NSW Waste Criteria Nov 2014 p
#7:Refer to NSW Waste Criteria Nov 2014 p.17 footnote 12, EPA Chemical Control Order 1997, clause 4.13
#8:Refer to NSW Waste Criteria Nov 2014 p.17 footnote 12

Data Comments
#1 No asbestos detected at the reporting limit of 0.01% w/w.Organic fibre detected.No trace asbestos detected.
#2 No trace asbestos detected.
#3 Organic fibres detected.
#4 Nil

Table A - Soil
Project Number: 66105
Project Name: Aldington Road

													Asbestos - Eurofins								Other	
	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	ACM - Comment	FA- Comment	AF - Comment	Organic Fibres - Comment	Respirable Fibres - Comment	Synthetic Fibres - Comment	Asbestos Reported Result	Moisture Content (dried @ 103°C)
	g	g	g	% (w/w)	g	g	g	g	% (w/w)	g	Comment	Comment	Comment	Comment	Comment	Comment	Comment	%
EQL																		1
NSW 2014 General Solid Waste CT1 (No Leaching)																		
NSW 2014 General Solid Waste SCC1 (with leached)																		
NSW 2014 Restricted Solid Waste CT2 (No Leaching)																		
NSW 2014 Restricted Solid Waste SCC2 (with leached)																		

Field ID	Location	Sample_Depth_Range	Sampled_Date_Time	Matrix_Description	Monitoring_Round																	
398-01	398-01		14/03/2024			889	0	0	0	0	0	0	0	0	0	1[#4]	1[#4]	1[#4]	1[#3]	0	1[#4]	1[#1]	9.6
398-02	398-02		14/03/2024			840	0	0	0	0	0	0	0	0	0	1[#4]	1[#4]	1[#4]	1[#3]	1[#2]	1[#4]	1[#1]	15
398-03	398-03		14/03/2024			813	0	0	0	0	0	0	0	0	0	1[#4]	1[#4]	1[#4]	1[#4]	1[#2]	1[#4]	1[#1]	4.4

Env Stds Comments
#1:Trigger value adopted from Chromium VI
#2:Approximate range of petroleum hydrocarbon fractions: petrol C6–C9, kerosene C10–C18, diesel C12–C18, and lubric
#3:There may be a need for the laboratory to concentrate the sample to achieve the TCLP limit value for benzo(a)pyrene
#4:Polychlorinated biphenyls must be managed in accordance with the EPA's polychlorinated biphenyl (PCB) chemical c
#5:Refer to NSW Waste Criteria Nov 2014 p.17 footnote 13
#6:Calculated from Hazardous Waste: Identification and Listing (USEPA 2012a). Refer to NSW Waste Criteria Nov 2014 p
#7:Refer to NSW Waste Criteria Nov 2014 p.17 footnote 12, EPA Chemical Control Order 1997, clause 4.13
#8:Refer to NSW Waste Criteria Nov 2014 p.17 footnote 12

Data Comments
#1 No asbestos detected at the reporting limit of 0.01% w/w.Organic fibre detected.No trace asbestos detected.
#2 No trace asbestos detected.
#3 Organic fibres detected.
#4 Nil

Table B - TCLP
Project Number: 66105
Project Name: Aldington Road Remediation

					PAH	Ionic Balance		
					Benzo(a)pyrene	pH (after HCL)	pH (Final)	pH (Initial)
					mg/L	pH Units	pH Units	pH Units
EQL					0.001	0.1	0.1	0.1
NSW 2014 General Solid Waste TCLP1 (leached)					0.04[#1]			
Field ID	**Location**	**Sample_Depth_Range**	**Sampled_Date_Time**	**Matrix_Description**				
398-01	398-01		14/03/2024		<0.001	1.9	5.2	8.6
398-02	398-02		14/03/2024		<0.001	1.9	5.2	8
398-03	398-03		14/03/2024		0.003	1.8	5.3	8.5

Env Stds Comments
#1:Calculated from Hazardous Waste: Identification and Listing (USEPA 2012a). Refer to NSW Waste Criteria Nov 2014 p.16 footnote 3, 4

Table C - Historical Data
Project Number: 66105
Project Name: Aldington Road

	Metals & Metalloids								TPHs (NEPC 1999)					TRHs (NEPC 2013)							BTEXN						
	Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc	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 - MAH
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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	5	5	5	0.1	5	5	20	20	50	50	50	20	50	100	100	100	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[#1]		100	4	40		650[#2]				10000[#2]								10	288	600			1000	
NSW 2014 General Solid Waste SCC1 (with leached)	500	100	1900[#1]		1500	50	1050		650[#5]				10000[#5]								18	518	1080			1800	
Field ID	**Location**	**Sample_Depth_Range**	**Sampled_Date_Time**	**Matrix_Description**	**Monitoring_Round**																						
TP398_0.0-0.2	TP398	0-0.2	13/04/2021	Fill		2	<0.4	9.5	29	14	<0.1	20	45	<20	<200	7200	1800	9000	<20	<500	9500	1200	10,700	<20	<500	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5

Table C - Historical Data
Project Number: 66105
Project Name: Aldington Road

	PAH																					Other	
	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(a)pyrene TEQ (LOR)	Benzo(a)pyrene TEQ calc (Half)	Benzo(a)pyrene TEQ calc (Zero)	Benzo(b+j)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene - PAH	Phenanthrene	Pyrene	PAHs (Sum of total)	Moisture Content (dried @ 103°C)	Actril (loxynil)
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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	0.5	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	0.5	0.5	0.5	1	0.5
NSW 2014 General Solid Waste CT1 (No Leaching)					0.8[#3]																	
NSW 2014 General Solid Waste SCC1 (with leached)					10[#6]																	
Field ID	**Location**	**Sample_Depth_Range**	**Sampled_Date_Time**	**Matrix_Description**	**Monitoring_Round**																		
TP398_0.0-0.2	TP398	0-0.2	13/04/2021	Fill		21	0.5	78	220	210	340	340	340	190	190	150	210	57	560	12	160	0.9	270	480	2809.4	8.9	-

Attachment 5 - Laboratory Analysis Report and COCs

Chain of Custody

JBS&G

PROJECT NO.: GG105
PROJECT NAME: Aldington Road
DATE NEEDED BY: 24 hour
LABORATORY BATCH NO.:
SAMPLERS: Chris Sillars
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) .....Stknott.....@jbsg.com.au; (3) ..CSillars.....@jbsg.com.au mchapman@jbsg.com.au
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	TRZA	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
398_01	Soil	14/3/24		Jar + Bag		X	X		
398_02	↓	↓		↓		X	X		
398_03						X	X		

RELINQUISHED BY:
NAME: Chris Sillars DATE: 14/11/24
OF: JBS&G
NAME: DATE:
OF:

METHOD OF SHIPMENT:
CONSIGNMENT NOTE NO.
TRANSPORT CO.
CONSIGNMENT NOTE NO.
TRANSPORT CO

RECEIVED BY:
NAME: Blake Gatt
DATE: 6/2/24
OF:
NAME: DATE:
OF:

FOR RECEIVING LAB USE ONLY:
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C 7.0°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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1078200

eurofins | Environment Testing

www.eurofins.com.au EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

Eurofins ARL Pty Ltd

ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
NATA# 2377
Site# 2370

Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

Auckland	Auckland (Asb)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,
Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Samuel Knott
Project name:	ALDINGTON ROAD
Project ID:	66105
Turnaround time:	1 Day
Date/Time received	Mar 14, 2024 6:25 PM
Eurofins reference	1078200

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 : 7.4 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

please ensure small sized asbetsos bags are used when only ID analysis is required - only approx 50g is required.
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 Samuel Knott - sknott@jbsg.com.au.

Global Leader - Results you can trust

eurofins

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
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
NATA# 2377
Site# 2370

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland	Auckland (Asb)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,
Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: ALDINGTON ROAD
Project ID: 66105

Order No.:
Report #: 1078200
Phone: 02 8245 0300
Fax:

Received: Mar 14, 2024 6:25 PM
Due: Mar 15, 2024
Priority: 1 Day
Contact Name: Samuel Knott

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Moisture Set	JBS&G Suite 2A
Sydney Laboratory - NATA # 1261 Site # 18217						X	X
External Laboratory							
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**		
1	398-01	Mar 14, 2024		Soil	S24-Ma0034053	X	X
2	398-02	Mar 14, 2024		Soil	S24-Ma0034054	X	X
3	398-03	Mar 14, 2024		Soil	S24-Ma0034055	X	X
Test Counts						3	3

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:	Samuel Knott
Report	1078200-AID
Project Name	ALDINGTON ROAD
Project ID	66105
Received Date	Mar 14, 2024
Date Reported	Mar 15, 2024

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 ALDINGTON ROAD
Project ID 66105
Date Sampled Mar 14, 2024
Report 1078200-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
398-01	24-Ma0034053	Mar 14, 2024	Approximate Sample 889g Sample consisted of: Brown fine-grained clayey soil, bitumen, organic debris, metal, glass and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
398-02	24-Ma0034054	Mar 14, 2024	Approximate Sample 840g Sample consisted of: Brown fine-grained clayey soil, bitumen, organic debris and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
398-03	24-Ma0034055	Mar 14, 2024	Approximate Sample 813g Sample consisted of: Brown fine-grained clayey soil, bitumen, organic debris and rocks	No asbestos detected at the reporting limit of 0.01% 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 14, 2024	Indefinite

eurofins

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
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

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ABN: 91 05 0159 898

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46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
NATA# 2377
Site# 2370

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland	Auckland (Asb)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,
Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: ALDINGTON ROAD
Project ID: 66105

Order No.:
Report #: 1078200
Phone: 02 8245 0300
Fax:

Received: Mar 14, 2024 6:25 PM
Due: Mar 15, 2024
Priority: 1 Day
Contact Name: Samuel Knott

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Moisture Set	JBS&G Suite 2A
Sydney Laboratory - NATA # 1261 Site # 18217						X	X
External Laboratory							
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**		
1	398-01	Mar 14, 2024		Soil	S24-Ma0034053	X	X
2	398-02	Mar 14, 2024		Soil	S24-Ma0034054	X	X
3	398-03	Mar 14, 2024		Soil	S24-Ma0034055	X	X
Test Counts						3	3

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**). This estimate is not NATA-accredited.
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:

Sayeed Abu	Senior Analyst-Asbestos

Glenn Jackson
Managing Director

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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JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
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Attention: **Samuel Knott**

Report **1078200-S**
Project name ALDINGTON ROAD
Project ID 66105
Received Date Mar 14, 2024

Client Sample ID			G01 **398-01**	G01 **398-02**	G01 **398-03**
Sample Matrix			**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**S24-Ma0034053**	**S24-Ma0034054**	**S24-Ma0034055**
Date Sampled			**Mar 14, 2024**	**Mar 14, 2024**	**Mar 14, 2024**
Test/Reference	LOR	Unit			
Total Recoverable Hydrocarbons					
TRH C6-C9	20	mg/kg	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 100
TRH C15-C28	50	mg/kg	4100	720	3700
TRH C29-C36	50	mg/kg	1500	660	1800
TRH C10-C36 (Total)	50	mg/kg	5600	1380	5500
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	100	< 50	< 250
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	100	< 50	< 250
TRH >C16-C34	100	mg/kg	4900	1200	4800
TRH >C34-C40	100	mg/kg	830	670	1400
TRH >C10-C40 (total)*	100	mg/kg	5830	1870	6200
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	%	94	92	84
Total Recoverable Hydrocarbons - 2013 NEPM Fractions					
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5
Polycyclic Aromatic Hydrocarbons					
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	200	49	290
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	200	49	290
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	200	49	290
Acenaphthene	0.5	mg/kg	15	2.1	16
Acenaphthylene	0.5	mg/kg	0.7	< 0.5	0.8
Anthracene	0.5	mg/kg	59	59	59
Benz(a)anthracene	0.5	mg/kg	140	28	200
Benzo(a)pyrene	0.5	mg/kg	120	29	170
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	150	34	200
Benzo(g.h.i)perylene	0.5	mg/kg	120	31	180
Benzo(k)fluoranthene	0.5	mg/kg	91	25	140
Chrysene	0.5	mg/kg	140	34	200

Client Sample ID			G01398-01	G01398-02	G01398-03
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			S24-Ma0034053	S24-Ma0034054	S24-Ma0034055
Date Sampled			Mar 14, 2024	Mar 14, 2024	Mar 14, 2024
Test/Reference	LOR	Unit			
Polycyclic Aromatic Hydrocarbons					
Dibenz(a.h)anthracene	0.5	mg/kg	32	8.0	50
Fluoranthene	0.5	mg/kg	290	86	430
Fluorene	0.5	mg/kg	9.7	1.4	9.4
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	91	24	150
Naphthalene	0.5	mg/kg	1.5	< 0.5	0.9
Phenanthrene	0.5	mg/kg	180	45	210
Pyrene	0.5	mg/kg	240	70	340
Total PAH*	0.5	mg/kg	1700	480	2400
2-Fluorobiphenyl (surr.)	1	%	55	74	55
p-Terphenyl-d14 (surr.)	1	%	77	91	69
Organochlorine Pesticides					
Chlordanes - Total	0.1	mg/kg	< 1	< 1	< 1
4.4'-DDD	0.05	mg/kg	< 0.5	< 0.5	< 0.5
4.4'-DDE	0.05	mg/kg	< 0.5	< 0.5	< 0.5
4.4'-DDT	0.05	mg/kg	< 0.5	< 0.5	< 0.5
a-HCH	0.05	mg/kg	< 0.5	< 0.5	< 0.5
Aldrin	0.05	mg/kg	< 0.5	< 0.5	< 0.5
b-HCH	0.05	mg/kg	< 0.5	< 0.5	< 0.5
d-HCH	0.05	mg/kg	< 0.5	< 0.5	< 0.5
Dieldrin	0.05	mg/kg	< 0.5	< 0.5	< 0.5
Endosulfan I	0.05	mg/kg	< 0.5	< 0.5	< 0.5
Endosulfan II	0.05	mg/kg	< 0.5	< 0.5	< 0.5
Endosulfan sulphate	0.05	mg/kg	< 0.5	< 0.5	< 0.5
Endrin	0.05	mg/kg	< 0.5	< 0.5	< 0.5
Endrin aldehyde	0.05	mg/kg	< 0.5	< 0.5	< 0.5
Endrin ketone	0.05	mg/kg	< 0.5	< 0.5	< 0.5
g-HCH (Lindane)	0.05	mg/kg	< 0.5	< 0.5	< 0.5
Heptachlor	0.05	mg/kg	< 0.5	< 0.5	< 0.5
Heptachlor epoxide	0.05	mg/kg	< 0.5	< 0.5	< 0.5
Hexachlorobenzene	0.05	mg/kg	< 0.5	< 0.5	< 0.5
Methoxychlor	0.05	mg/kg	< 0.5	< 0.5	< 0.5
Toxaphene	0.5	mg/kg	< 10	< 10	< 10
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.5	< 0.5	< 0.5
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.5	< 0.5	< 0.5
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 1	< 1	< 1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 1	< 1	< 1
Dibutylchlorendate (surr.)	1	%	83	68	60
Tetrachloro-m-xylene (surr.)	1	%	59	76	54
Polychlorinated Biphenyls					
Aroclor-1016	0.1	mg/kg	< 1	< 1	< 1
Aroclor-1221	0.1	mg/kg	< 1	< 1	< 1
Aroclor-1232	0.1	mg/kg	< 1	< 1	< 1
Aroclor-1242	0.1	mg/kg	< 1	< 1	< 1
Aroclor-1248	0.1	mg/kg	< 1	< 1	< 1
Aroclor-1254	0.1	mg/kg	< 1	< 1	< 1
Aroclor-1260	0.1	mg/kg	< 1	< 1	< 1
Total PCB*	0.1	mg/kg	< 1	< 1	< 1
Dibutylchlorendate (surr.)	1	%	83	68	60
Tetrachloro-m-xylene (surr.)	1	%	59	76	54

Client Sample ID			G01398-01	G01398-02	G01398-03
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			S24-Ma0034053	S24-Ma0034054	S24-Ma0034055
Date Sampled			Mar 14, 2024	Mar 14, 2024	Mar 14, 2024
Test/Reference	LOR	Unit			
Heavy Metals					
Arsenic	2	mg/kg	4.5	5.2	3.3
Cadmium	0.4	mg/kg	0.7	< 0.4	< 0.4
Chromium	5	mg/kg	10	12	10
Copper	5	mg/kg	81	36	29
Lead	5	mg/kg	33	27	16
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	32	22	22
Zinc	5	mg/kg	140	81	44
Sample Properties					
% Moisture	1	%	9.6	15	4.4

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
JBS&G Suite 2A			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Mar 14, 2024	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Mar 14, 2024	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Mar 14, 2024	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Mar 14, 2024	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			
Polycyclic Aromatic Hydrocarbons	Sydney	Mar 14, 2024	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Organochlorine Pesticides	Sydney	Mar 14, 2024	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Polychlorinated Biphenyls	Sydney	Mar 14, 2024	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Metals M8	Sydney	Mar 14, 2024	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
% Moisture	Sydney	Mar 14, 2024	14 Days
- Method: LTM-GEN-7080 Moisture			

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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
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
NATA# 2377
Site# 2370

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland	Auckland (Asb)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,
Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: ALDINGTON ROAD
Project ID: 66105

Order No.:
Report #: 1078200
Phone: 02 8245 0300
Fax:

Received: Mar 14, 2024 6:25 PM
Due: Mar 15, 2024
Priority: 1 Day
Contact Name: Samuel Knott

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Moisture Set	JBS&G Suite 2A
Sydney Laboratory - NATA # 1261 Site # 18217						X	X
External Laboratory							
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**		
1	398-01	Mar 14, 2024		Soil	S24-Ma0034053	X	X
2	398-02	Mar 14, 2024		Soil	S24-Ma0034054	X	X
3	398-03	Mar 14, 2024		Soil	S24-Ma0034055	X	X
Test Counts						3	3

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follow guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013. They are included in this QC report where applicable. Additional QC data may be available on request.
2. Unless otherwise stated, all soil/sediment/solid results are reported on a dry weight basis.
3. Unless otherwise stated, all biota/food results are reported on a wet weight basis on the edible portion.
4. For CEC results where the sample's origin is unknown or environmentally contaminated, the results should be used advisedly.
5. Actual LORs are matrix dependent. Quoted LORs may be raised where sample extracts are diluted due to interferences.
6. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
7. SVOC analysis on waters is performed on homogenised, unfiltered samples unless noted otherwise.
8. Samples were analysed on an 'as received' basis.
9. Information identified in this report with **blue** colour indicates data provided by customers that may have an impact on the results.
10. This report replaces any interim results previously issued.

Holding Times

Please refer to the '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 before sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and despite any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling; therefore, compliance with these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether, the holding time is seven days; however, for all other VOCs, such as BTEX or C6-10 TRH, the holding time is 14 days.

Units

mg/kg: milligrams per kilogram	**mg/L:** milligrams per litre	**ppm:** parts per million
µg/L: micrograms per litre	**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
CFU: Colony forming unit	**Colour:** Pt-Co Units	

Terms

APHA	American Public Health Association
CEC	Cation Exchange Capacity
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 moisture has been determined on a solid sample, the result is expressed on a dry weight 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 represents 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 similar compound to the analyte target is reported as percentage recovery. See below for acceptance criteria.
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 6.0
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 only be used as a guide 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. SVOCs recoveries 20 – 150%, VOC recoveries 70 – 130%

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 6.0, where no positive PFAS results have been reported or reviewed, and no data was affected.

QC Data General Comments

1. Where a result is reported as 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 are 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	
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							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	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-HCH	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-HCH	mg/kg	< 0.05			0.05	Pass	
d-HCH	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-HCH (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	< 0.05			0.05	Pass	
Toxaphene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.1			0.1	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	Pass	
Aroclor-1232	mg/kg	< 0.1			0.1	Pass	
Aroclor-1242	mg/kg	< 0.1			0.1	Pass	
Aroclor-1248	mg/kg	< 0.1			0.1	Pass	
Aroclor-1254	mg/kg	< 0.1			0.1	Pass	
Aroclor-1260	mg/kg	< 0.1			0.1	Pass	
Total PCB*	mg/kg	< 0.1			0.1	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	%	124			70-130	Pass	
TRH C10-C14	%	89			70-130	Pass	
TRH C6-C10	%	114			70-130	Pass	
TRH >C10-C16	%	88			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	128			70-130	Pass	
Toluene	%	122			70-130	Pass	
Ethylbenzene	%	117			70-130	Pass	
m&p-Xylenes	%	125			70-130	Pass	
o-Xylene	%	117			70-130	Pass	
Xylenes - Total*	%	122			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	110			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	120			70-130	Pass	
Acenaphthylene	%	106			70-130	Pass	
Anthracene	%	93			70-130	Pass	
Benz(a)anthracene	%	111			70-130	Pass	
Benzo(a)pyrene	%	105			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Benzo(b&j)fluoranthene	%	101			70-130	Pass	
Benzo(g.h.i)perylene	%	110			70-130	Pass	
Benzo(k)fluoranthene	%	73			70-130	Pass	
Chrysene	%	100			70-130	Pass	
Dibenz(a.h)anthracene	%	115			70-130	Pass	
Fluoranthene	%	89			70-130	Pass	
Fluorene	%	104			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	108			70-130	Pass	
Naphthalene	%	105			70-130	Pass	
Phenanthrene	%	97			70-130	Pass	
Pyrene	%	89			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	84			70-130	Pass	
4.4'-DDD	%	83			70-130	Pass	
4.4'-DDE	%	83			70-130	Pass	
4.4'-DDT	%	71			70-130	Pass	
a-HCH	%	84			70-130	Pass	
Aldrin	%	91			70-130	Pass	
b-HCH	%	79			70-130	Pass	
d-HCH	%	83			70-130	Pass	
Dieldrin	%	87			70-130	Pass	
Endosulfan I	%	86			70-130	Pass	
Endosulfan II	%	81			70-130	Pass	
Endosulfan sulphate	%	76			70-130	Pass	
Endrin	%	74			70-130	Pass	
Endrin aldehyde	%	74			70-130	Pass	
Endrin ketone	%	73			70-130	Pass	
g-HCH (Lindane)	%	82			70-130	Pass	
Heptachlor	%	77			70-130	Pass	
Heptachlor epoxide	%	81			70-130	Pass	
Hexachlorobenzene	%	85			70-130	Pass	
Methoxychlor	%	71			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1016	%	74			70-130	Pass	
Aroclor-1260	%	78			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	85			80-120	Pass	
Cadmium	%	88			80-120	Pass	
Chromium	%	88			80-120	Pass	
Copper	%	89			80-120	Pass	
Lead	%	84			80-120	Pass	
Mercury	%	90			80-120	Pass	
Nickel	%	86			80-120	Pass	
Zinc	%	88			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	S24-Ma0034027	NCP	%	114			70-130	Pass	
TRH C10-C14	S24-Ma0033624	NCP	%	81			70-130	Pass	
TRH C6-C10	S24-Ma0034027	NCP	%	99			70-130	Pass	
TRH >C10-C16	S24-Ma0022117	NCP	%	100			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
BTEX				Result 1					
Benzene	S24-Ma0034027	NCP	%	94			70-130	Pass	
Toluene	S24-Ma0034027	NCP	%	93			70-130	Pass	
Ethylbenzene	S24-Ma0034027	NCP	%	95			70-130	Pass	
m&p-Xylenes	S24-Ma0034027	NCP	%	96			70-130	Pass	
o-Xylene	S24-Ma0034027	NCP	%	106			70-130	Pass	
Xylenes - Total*	S24-Ma0034027	NCP	%	99			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S24-Ma0034027	NCP	%	93			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S24-Ma0034026	NCP	%	85			75-125	Pass	
Cadmium	S24-Ma0034026	NCP	%	84			75-125	Pass	
Chromium	S24-Ma0034026	NCP	%	85			75-125	Pass	
Copper	S24-Ma0034026	NCP	%	91			75-125	Pass	
Lead	S24-Ma0034026	NCP	%	91			75-125	Pass	
Mercury	S24-Ma0034026	NCP	%	93			75-125	Pass	
Nickel	S24-Ma0034026	NCP	%	87			75-125	Pass	
Zinc	S24-Ma0034026	NCP	%	86			75-125	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	S24-Ma0034029	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S24-Ma0035066	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S24-Ma0035066	NCP	mg/kg	73	< 50	40	30%	Fail	Q15
TRH C29-C36	S24-Ma0035066	NCP	mg/kg	150	110	29	30%	Pass	
TRH C6-C10	S24-Ma0034029	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S24-Ma0035066	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S24-Ma0035066	NCP	mg/kg	170	120	33	30%	Fail	Q15
TRH >C34-C40	S24-Ma0035066	NCP	mg/kg	170	140	21	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S24-Ma0034029	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S24-Ma0034029	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S24-Ma0034029	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S24-Ma0034029	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S24-Ma0034029	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S24-Ma0034029	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S24-Ma0034029	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S24-Ma0034033	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S24-Ma0034033	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S24-Ma0034033	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S24-Ma0034033	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S24-Ma0034033	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S24-Ma0034033	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S24-Ma0034033	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S24-Ma0034033	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S24-Ma0034033	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Dibenz(a.h)anthracene	S24-Ma0034033	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S24-Ma0034033	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S24-Ma0034033	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S24-Ma0034033	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S24-Ma0034033	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S24-Ma0034033	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S24-Ma0034033	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S24-Ma0034055	CP	mg/kg	3.3	3.0	9.9	30%	Pass	
Cadmium	S24-Ma0034055	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S24-Ma0034055	CP	mg/kg	10	9.1	11	30%	Pass	
Copper	S24-Ma0034055	CP	mg/kg	29	26	7.3	30%	Pass	
Lead	S24-Ma0034055	CP	mg/kg	16	15	7.9	30%	Pass	
Mercury	S24-Ma0034055	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S24-Ma0034055	CP	mg/kg	22	20	11	30%	Pass	
Zinc	S24-Ma0034055	CP	mg/kg	44	41	8.6	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	S24-Ma0034055	CP	%	4.4	4.4	<1	30%	Pass	

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

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
Mickael Ros	Senior Analyst-Metal
Roopesh Rangarajan	Senior Analyst-Organic
Roopesh Rangarajan	Senior Analyst-Volatile
Sayeed Abu	Senior Analyst-Asbestos

Glenn Jackson
Managing Director

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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RE: Eurofins Test Results - Report 1078200 : Site ALDINGTON ROAD (66105)

Samuel Knott <sknott@jbsg.com.au>
Mon 2024-03-18 11:30 AM

To:Ursula Long <UrsulaLong@eurofins.com>;Andrew Black <AndrewBlack@eurofins.com>
Cc:Chris Sillars <csillars@jbsg.com.au>;Massimo Chapman <mchapman@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 Ursula,

Can you please run the samples on TCLP for Benzo(a)pyrene. 24 Hr TAT

Kind regards,

Sam.

Sam Knott | Project Manager | JBS&G
Gadigal Country | Level 1, 50 Margaret St, Sydney, NSW
T: 02 8245 0300 | M: 0404 318 600 | E: sknott@jbsg.com.au | W: jbsg.com.au | L: Conditions and Limitations

Exceptional Outcomes

From: UrsulaLong@eurofins.com <UrsulaLong@eurofins.com>
Sent: Friday, March 15, 2024 9:54 PM
To: Samuel Knott <sknott@jbsg.com.au>
Cc: Chris Sillars <csillars@jbsg.com.au>; Massimo Chapman <mchapman@jbsg.com.au>
Subject: Eurofins Test Results - Report 1078200 : Site ALDINGTON ROAD (66105)

[EXTERNAL EMAIL]** Stop and think before opening attachments, clicking or responding.

Please find attached results for your project in the subject header.

Please ensure small sized asbestos bags are used when only ID analysis is required - only approx 50g is required.

Regards

Ursula Long

Eurofins
179 Magowar Road
Girraween NSW 2145
AUSTRALIA
Phone: +61 428 845 495
Email: UrsulaLong@eurofins.com
Website:[http://]environment.eurofins.com.au
View our latest EnviroNotes

eurofins | Environment Testing

www.eurofins.com.au EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

Eurofins ARL Pty Ltd

ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
NATA# 2377
Site# 2370

Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

Auckland	Auckland (Asb)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,
Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Samuel Knott
Project name:	ADDITIONAL: ALDINGTON ROAD
Project ID:	66105
Turnaround time:	1 Day
Date/Time received	Mar 18, 2024 11:33 AM
Eurofins reference	1079151

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 : 7.4 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 Samuel Knott - sknott@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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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: ADDITIONAL: ALDINGTON ROAD
Project ID: 66105

Order No.:
Report #: 1079151
Phone: 02 8245 0300
Fax:

Received: Mar 18, 2024 11:33 AM
Due: Mar 19, 2024
Priority: 1 Day
Contact Name: Samuel Knott

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Benzo(a)pyrene	USA Leaching Procedure
Sydney Laboratory - NATA # 1261 Site # 18217						X	X
External Laboratory							
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**		
1	398-01	Mar 14, 2024		US Leachate	S24-Ma0041649	X	X
2	398-02	Mar 14, 2024		US Leachate	S24-Ma0041650	X	X
3	398-03	Mar 14, 2024		US Leachate	S24-Ma0041651	X	X
Test Counts						3	3

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

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: **Samuel Knott**

Report **1079151-L**
Project name ADDITIONAL: ALDINGTON ROAD
Project ID 66105
Received Date Mar 18, 2024

Client Sample ID			**398-01**	**398-02**	**398-03**
Sample Matrix			**US Leachate**	**US Leachate**	**US Leachate**
Eurofins Sample No.			**S24-Ma0041649**	**S24-Ma0041650**	**S24-Ma0041651**
Date Sampled			**Mar 14, 2024**	**Mar 14, 2024**	**Mar 14, 2024**
Test/Reference	LOR	Unit			
Polycyclic Aromatic Hydrocarbons					
Benzo(a)pyrene	0.001	mg/L	< 0.001	< 0.001	0.003
USA Leaching Procedure					
Leachate Fluid[C01]		comment	1.0	1.0	1.0
pH (initial)	0.1	pH Units	8.6	8.0	8.5
pH (off)	0.1	pH Units	5.2	5.2	5.3
pH (USA HCl addition)	0.1	pH Units	1.9	1.9	1.8

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
Polycyclic Aromatic Hydrocarbons	Sydney	Mar 18, 2024	7 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
USA Leaching Procedure	Sydney	Mar 18, 2024	14 Days
- Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes			

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
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6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

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Received: Mar 18, 2024 11:33 AM
Due: Mar 19, 2024
Priority: 1 Day
Contact Name: Samuel Knott

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Benzo(a)pyrene	USA Leaching Procedure
Sydney Laboratory - NATA # 1261 Site # 18217						X	X
External Laboratory							
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**		
1	398-01	Mar 14, 2024		US Leachate	S24-Ma0041649	X	X
2	398-02	Mar 14, 2024		US Leachate	S24-Ma0041650	X	X
3	398-03	Mar 14, 2024		US Leachate	S24-Ma0041651	X	X
Test Counts						3	3

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Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follow guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013. They are included in this QC report where applicable. Additional QC data may be available on request.
2. Unless otherwise stated, all soil/sediment/solid results are reported on a dry weight basis.
3. Unless otherwise stated, all biota/food results are reported on a wet weight basis on the edible portion.
4. For CEC results where the sample's origin is unknown or environmentally contaminated, the results should be used advisedly.
5. Actual LORs are matrix dependent. Quoted LORs may be raised where sample extracts are diluted due to interferences.
6. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
7. SVOC analysis on waters is performed on homogenised, unfiltered samples unless noted otherwise.
8. Samples were analysed on an 'as received' basis.
9. Information identified in this report with **blue** colour indicates data provided by customers that may have an impact on the results.
10. This report replaces any interim results previously issued.

Holding Times

Please refer to the '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 before sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and despite any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling; therefore, compliance with these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether, the holding time is seven days; however, for all other VOCs, such as BTEX or C6-10 TRH, the holding time is 14 days.

Units

mg/kg: milligrams per kilogram	**mg/L:** milligrams per litre	**ppm:** parts per million
µg/L: micrograms per litre	**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
CFU: Colony forming unit	**Colour:** Pt-Co Units	

Terms

APHA	American Public Health Association
CEC	Cation Exchange Capacity
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 moisture has been determined on a solid sample, the result is expressed on a dry weight 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 represents 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 similar compound to the analyte target is reported as percentage recovery. See below for acceptance criteria.
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 6.0
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 only be used as a guide 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. SVOCs recoveries 20 – 150%, VOC recoveries 70 – 130%

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 6.0, where no positive PFAS results have been reported or reviewed, and no data was affected.

QC Data General Comments

1. Where a result is reported as 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 are 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									
Polycyclic Aromatic Hydrocarbons									
Benzo(a)pyrene			mg/L	< 0.001			0.001	Pass	
LCS - % Recovery									
Polycyclic Aromatic Hydrocarbons									
Benzo(a)pyrene			%	104			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Benzo(a)pyrene	S24-Ma0041649	CP	%	82			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			
Benzo(a)pyrene	S24-Ma0041650	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	

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

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:

Nileshni Goundar	Analytical Services Manager
Roopesh Rangarajan	Senior Analyst-Organic

Glenn Jackson
Managing Director

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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Attachment 6 – JBS&G borehole logs

TEST PIT TP398

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 13-Apr-21
DRILL RIG
DRILLING METHOD
DIMENSIONS 1.5 x 0.4 m

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 6c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		Fill	Fill - Silty Gravel, black (stained), dry to damp, heterogeneous, poorly graded, medium grained, angular, loose to medium dense some inclusions of asphalt gravels		TP398_0.0-0.2	0.1	Hydrocarbon odour, black staining, No ACM observed.
		0.2							
		0.3		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff. Grading to grey claystone with increasing claystone gravels at depth		TP398_0.3-0.4	0.1	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6							
		0.7							
		0.8			Termination Depth at: 0.8 m.				
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

Disclaimer This log is intended for environmental not geotechnical purposes.
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JBS&G 66105/ 158,645
L004 - In-Situ Waste Classification, Asbestos Impacted Material 1E-19 Rev A.

26 March 2024

Monica Ngo
Frasers Property Industrial Pty Ltd

In-Situ Waste Classification, Asbestos Impacted Material 1E-19, Edge South Development, Aldington Road, Kemps Creek (Rev A)

Dear Monica,

JBS&G Australia Pty Ltd (JBS&G) was engaged by Frasers Property Industrial Pty Ltd (FPI, the client) to provide a waste classification for off-site disposal of material associated with the excavation and removal of asbestos fines (AF) impacted fill material within a portion of Lot 25 designated as area 1e/4f, within the eastern section of the Edge South Development, 199 Aldington Road, Kemps Creek, NSW (the site). Remedial extent validation samples were collected across area 1e/4f, with asbestos detected in the form of AF at sample location 1E-19. The waste classification documented herein, was prepared using historical data collected from area 1e/4f as part of assessment works undertaken during April 2021, as documented in JBS&G (2021[1]). The location of the site and material (to which this waste classification pertains) are shown on **Figures 1** and **2** respectively (**Attachment 2**).

Details of the site, material encountered, and waste classification are provided below. The limitations included in **Attachment 1** apply to the advice provided herein.

1. Site and Assessment Area Legal Identifiers and Owner

Site Lot/DP and Address	Lot 33/ DP 258949 155 to 167 Aldington Road, Kemps Creek, NSW, 2178 Lot 28/ DP 255560 169 to 181 Aldington Road, Kemps Creek, NSW, 2178 Lot 27/ DP 255560 183 to 197 Aldington Road, Kemps Creek, NSW, 2178 Lot 26/ DP 255560 199 Aldington Road, Kemps Creek, NSW, 2178 Lot 25/ DP 255560 201 to 217 Aldington Road, Kemps Creek, NSW, 2178 Lot 24/DP 255560 219 to 233 Aldington Road, Kemps Creek, NSW 2178 Lot 10/DP 253503 235 to 251 Aldington Road, Kemps Creek, NSW 2178
Site (waste) Occupant	Frasers Property Industrial Pty Ltd
Local Government Authority	Penrith City Council
Site Area (total)	63.6
Investigation Area	Eastern section of the site as shown in **Figure 2**, being approximately 1,720 m^2 in area.

[1] *Frasers Property Industrial Constructions Pty Ltd Detailed Site Investigation, Aldington Road Estate 155-167, 169-181, 183-197, 199 and 201-217, Aldington Road, Kemps Creek, NSW,* dated 11 August 2021, reference: 60482/137852 (Rev 2), JBS&G Australia Pty Ltd (JBS&G 2021)

2. Consultant Preparing Waste Classification

Name	JBS&G Australia Pty Ltd
Australian Business Number (ABN)	62 100 220 479
Address	Level 1, 50 Margaret Street, Sydney, NSW 2000.
Person(s) Providing Waste Classification	Jordan Rides

3. Desktop Review

Site Setting	The portion of the site in which the materials are located was observed to comprise residential and shed structures associated with the agricultural use of the site. The site and surrounding areas largely comprise a mixture of agricultural and rural residential properties, as well as a construction site opposite 219-233 Aldington Road.
Production History of Materials	Materials the subject of this waste classification comprise in-situ fill (of unknown origin) which is to be excavated to remove identified asbestos fines, as shown on **Figure 2** (**Attachment 2**). This advice specifically relates to material within the 1e/4f remedial extent, within the area marked in blue and green stripes on **Figure 2**.
Acid Sulfate Soil (ASS)	Review of data using the SEED[2] tool, indicates the area occupied by the site is within an area not assessed for the presence of Acid Sulfate Soils (ASS). Such sites are identified by default, as areas where land management activities are not likely to be affected by ASS materials.
Potential Contaminating Activities?	Potentially contaminating activities identified during the site assessment include the previous importation and placement of fill materials across the site to establish current site levels, (poor) demolition of previous structures on site, potential impacts associated with former agricultural land uses (i.e. residences, sheds and roading), and stockpiling of wastes associated with residences and agricultural practices.

4. Material Characterisation and Sampling Rationale

Area/GPS Coordinates	See **Figure 1** and **2** (**Attachment 2**) for approximate location of the Assessment Area and sampling locations.
Estimated volume (m3)	Approximately 12 m^3 represented by 1E-19 within the 1e/4f area, as shown in **Figure 2**.
Sampling Method	A total of 15 sample locations (BH434 to BH443, BH446, BH447, TP445, TP448 and TP458) were completed across the Assessment Area 1e/4f as part of assessment works undertaken during April 2021, as documented in JBS&G (2021[3]). Boreholes were advanced utilising a track mounted drill-rig with solid flight auger attachments and soil samples were collected directly from the augers at regular intervals from the surface soils (<0.1m), then at a minimum of every metre interval to a maximum depth of 0.7 metres below ground surface (m bgs). Test pits were advanced utilising an excavator and/or backhoe and soil samples were collected directly from the bucket at regular intervals from the surface soils (<0.1 m), then at a minimum of every metre interval to maximum depth of 1.4 m bgs.

[2] https://www.seed.nsw.gov.au/ accessed 12 April 2021

[3] *Frasers Property Industrial Constructions Pty Ltd Detailed Site Investigation, Aldington Road Estate 155-167, 169-181, 183-197, 199 and 201-217, Aldington Road, Kemps Creek, NSW,* dated 11 August 2021, reference: 60482/137852 (Rev 2), JBS&G Australia Pty Ltd (JBS&G 2021)

	Representative samples were collected via a gloved hand using a fresh pair of disposable nitrile gloves at each sample location and placed into laboratory supplied jars and bags. During sample collection material was inspected for any potential indicators of contamination including staining, odours or asbestos containing material (ACM). All samples were immediately placed into a chilled esky prior to delivery to the laboratory under appropriate chain of custody (COC) procedures.
Material Identification	Review of JBS&G field observations and the borehole and test pit logs has identified the in-situ fill material within the Assessment Area was generally characterised as a heterogenous dark brown – brown, clayey silt with inclusions of trace plastic. No odours or discolouration/staining were observed throughout the fill material, including odours or features (i.e. jarosite, sulfidic ores, shell material, and/or staining) which may indicate the presence of ASS.
Visible Signs of Contamination?	No
Visible ACM?	Yes
Visible Putrescible Material?	No
Number of Samples and Sample IDs	The JBS&G sampling activities included a total of 17 primary soil samples from 15 sampling locations. Samples were submitted for laboratory analysis for chemical contaminants of potential concern (COPC) and asbestos. The analytical summary tables are presented as **Tables A**, and **B** (**Attachment 3**), with laboratory reports provided in **Attachment 4.**
Rational for Sampling Design	JBS&G undertook sampling in general accordance with the guidance for systematic grid-based sampling provided in EPA (2022[4]) *Sampling design part 1 – application, Contaminated Land Guidelines*, whereby a minimum of 8 approximately evenly spaced sampling locations are required to characterise an area of up to 0.2 ha. Samples were selected for analysis based on the anticipated depth of material potentially requiring off-site disposal, and where distinct lithologies were encountered. A total of 9 samples were analysed for chemical COPCs from the Assessment Area, and fourteen of the locations were quantified for asbestos. This is considered appropriate to characterise the fill material consistent with the requirements of EPA (2022), and provides a basis for assessment of materials in relation to EPA (2014[5]). On this basis, the samples collected herein are considered to have appropriately characterised the material such that decisions may be made regarding a waste classification as per requirements.
QA/QC Assessment	A trip spike and blank were sent with the samples to ensure there was no loss of volatile organic compounds (VOCs) during transport, where analysis for VOCs was undertaken. The field sampling and handling procedures produced quality assurance (QA) and quality control (QC) results which indicate that the collected soil analytical data are of an acceptable quality and suitable for use as part of the waste classification assessment. The NATA certified laboratory results sheets indicate that the project laboratory was generally achieving levels of performance within its recommended control limits during the period when the samples for this project were analysed.

[4] *Contaminated Land Guidelines, Sampling design part 1 – application*, NSW Environment Protection Authority, August 2022 (EPA 2022)

[5] *Waste Classification Guidelines Part 1: Classifying Waste,* NSW EPA (2014).

	On the basis of the results of the field and laboratory QA/QC program, the soil data is of an acceptable quality in order to achieve the objectives of the current assessment.
Toxicity Characteristic Leaching Procedure (TCLP) Samples	No
Sampling Date	JBS&G sampling event(s): 8 April 2021, 9 April 2021, 20 March 2024

5. Laboratory Analysis

Laboratory	Primary Laboratory: Eurofins
All laboratory methods NATA certified?	Yes
Contaminants of Concern	Total recoverable hydrocarbons (TRH), Total petroleum hydrocarbons (TPH), benzene, toluene, ethylbenzene and xylenes (BTEX), benzo(a)pyrene, polycyclic aromatic hydrocarbons (PAH), Herbicides & Fungicides, heavy metals (As, Cd, Cr, Pb, Hg, Ni), Asbestos and phenols.
Laboratory Report Attached?	Yes (**Attachment 4**)
Additional Data Sources?	No
Is the material covered by a General Immobilisation Approval?	No
Discussion of Results	A review of the laboratory analysis results has identified that contaminant concentrations in the Assessment Area were reported as consistently low, and below the contaminant threshold (CT1) for general solid waste (GSW) in the *NSW EPA (2014) Waste Classification Guidelines – Part 1: Classifying Waste*. However, asbestos in the form of chrysotile AF was identified by the laboratory in sample 1E-19. Detailed laboratory results are provided in **Attachment 4**.

6. Waste Classification

Waste Classification	**Special Waste (Asbestos) mixed with General Solid Waste (GSW) non-putrescible** This waste classification only applies to the materials represented by validation sample 1E-19.
Does 'Special Waste' apply?	Yes – Asbestos Waste The waste classification described herein only applies to asbestos impacted materials observed at 1E-19.
Is the Material Classified as 'Hazardous Waste'?	No
Classification Comments	Should the material requiring off-site disposal be inconsistent with those described herein, additional assessment may be required, and JBS&G should be contacted to reassess the material prior to disposal. Additionally, it is recommended that JBS&G be present onsite during removal and disposal of asbestos contaminated fill materials described herein to ensure appropriate removal of impacted materials.
Disposal Comments	Waste must be transported by an appropriately licensed transporter and disposed to a facility that is licensed to receive that class of waste. Waste must be managed in accordance with relevant guidelines and regulations during loading, transport, unloading and disposal.

Notes

1. The estimated volume of waste is an indicative estimate only based on either client-supplied data or field observations including estimated elevation, extent and/or depths. For material characterised in-situ, a bulking factor may be applied.
2. Material observations including those relating to visible ACM and putrescible materials were made prior to material leaving the source site.
3. Wastes that are generally classified as putrescible include: green waste, agricultural, forestry and crop materials, and natural fibrous organic and vegetative materials, as per EPA (2014) *Waste Classification Guidelines, Part 1: Classifying Waste*.
4. Materials have been classified in accordance with EPA (2014) *Waste Classification Guidelines, Part 1: Classifying Waste*.
5. The disposal Facility or Facilities must be appropriately licensed under Schedule 1, Section 39; "Waste Disposal (Application to Land)", of the *Protection of the Environment Operations (POEO) Act 1997*. Disposal of 'Asbestos Waste', as defined under the Act and associated Waste Guidelines, is required to be managed in accordance with the *Protection of the Environment Operations (Waste) Regulation 2014* in terms of loading, transport, unloading and disposal. The *POEO Act 1997* states that if waste is transported to a facility not lawfully authorised as a waste facility for that waste, the owner, transporter and receiver of the waste are each guilty of an offence. The owner of waste includes, in relation to waste that has been transported, the person who was the owner of the waste immediately before it was transported. There are special considerations for transport and management including disposal of asbestos waste under the POEO (Waste) Regulation, including tracking and reporting of asbestos waste using NSW EPA Integrated Waste Tracking Solution (IWTS).

Should you require clarification, please contact Jordan Rides on 02 8245 0300 or by email jrides@jbsg.com.au.

Your Sincerely:

Jordan Rides
Environmental Consultant
JBS&G Australia Pty Ltd

Reviewed/Approved by:

Seth Molinari
Senior Principal
JBS&G Australia Pty Ltd

Attachments:

(1) Limitations
(2) Figures
(3) Tables
(4) Laboratory Analysis Report and COCs
(5) JBS&G Logs

Attachment 1 – 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 2 – Figures

Legend

Approximate Site Boundary

JBS&G

Job No: 66105	
Client: Frasers Property Australia	
Version: R01 Rev B	Date 15/08/2023
Drawn By: IA	Checked By: RH

Scale 1:20,000

0 190 380

metres

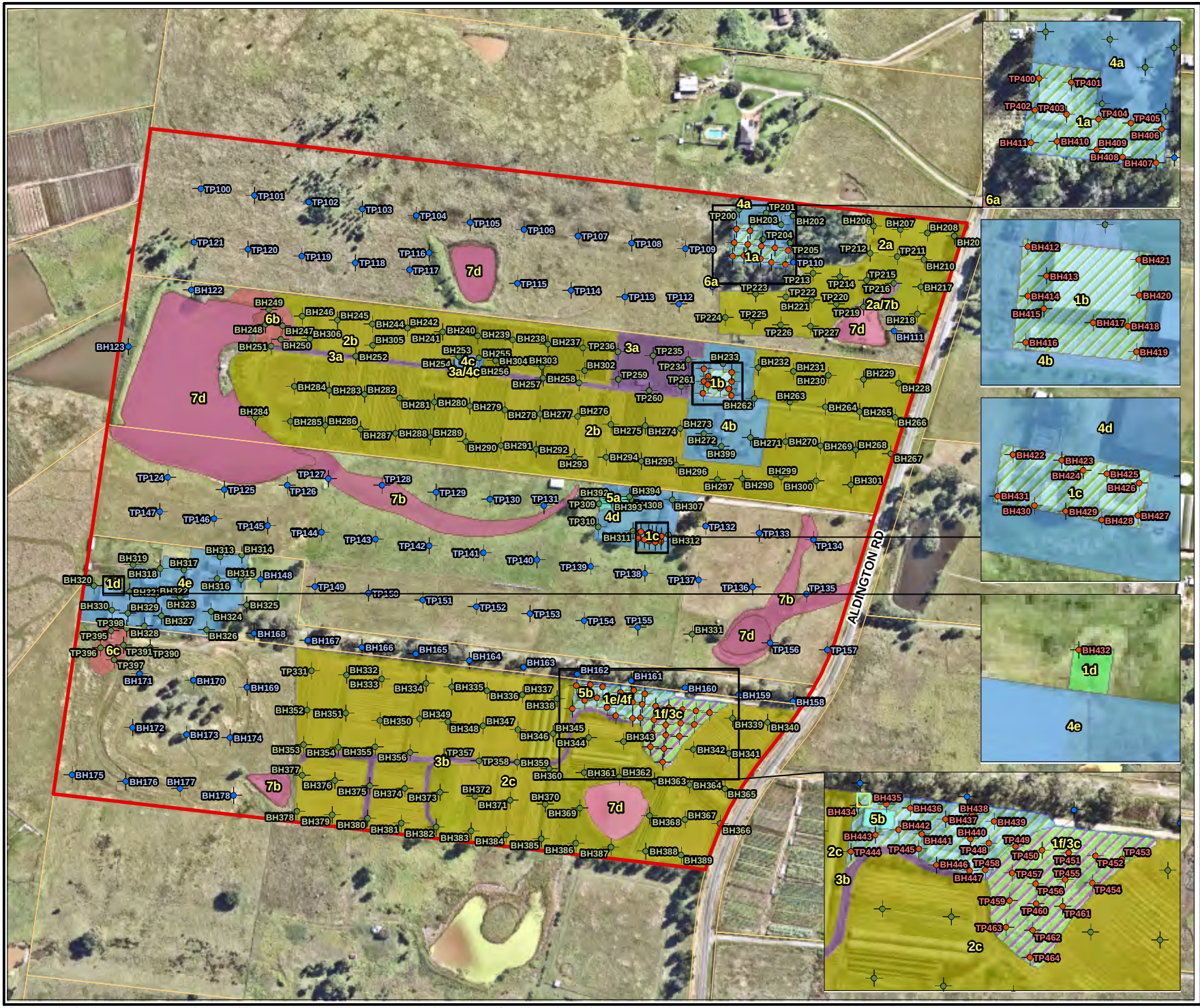
Coord. Sys. GDA 1994 MGA Zone 56

Aldington Road
Kemps Creek, NSW

SITE LOCATION

FIGURE 1

File Name: 65376_KempsCreek_FrasersProperty_R04
Reference: © OpenStreetMap (and) contributors, CC-BY-SA



Legend:

- Approximate Site Boundary
- NSW Cadastre (DFSI, 2021)

Areas of Environmental Concern

- 1. Known Asbestos Impacts
- 1.& 3. Known Asbestos Impacts & Imported Fill and Miscellaneous Waste
- 1.& 4. Known Asbestos Impacts & Current Site Structures
- 2. Current and Former Market Gardens
- 3. Imported Fill and Miscellaneous Waste
- 3. & 4. Imported Fill and Miscellaneous Waste and Current Site Structures
- 4. Current Site Structures
- 5. Petroleum Infrastructure and Chemical Storage
- 6. Building and Demolition Waste
- 7. Old Drainage Pathways and Dams
- 2. & 7. Old Drainage Pathways and Dams & Current and Former Market Gardens

Sample Locations (JBS&G 2021)

- Low Risk
- Medium Risk
- High Risk

JBS&G

Job No: 60482

Client: Frasers Property Australia Pty Ltd

Version: R01 Rev A	Date 3/05/2021
Drawn By: RF	Checked By: RL

Scale 1:4,750

0 50 100

metres

Coord. Sys. GDA 1994 MGA Zone 56

Kemps Creek
Aldington Road, NSW

SOIL SAMPLE LOCATIONS

FIGURE 5A

File Name: N:\Projects\Frasers Property Australia\60482 Aldington Road Estate\GIS\Maps\R01 Rev A - DSI\60482_05a_SoilSampleLocations.mxd
Reference: Nearmap - nearmap.com.au - Imagery 07-04-2019

Attachment 3 - Tables

Table A: 1E-19 Validation Sample
Project Number: 66105
Project Name: [Project_Name]

			Asbestos - Eurofins																
			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	ACM - Comment	FA- Comment	AF - Comment	Organic Fibres - Comment	Respirable Fibres - Comment	Synthetic Fibres - Comment	Asbestos Reported Result
			g	g	g	% (w/w)	g	g	g	g	% (w/w)	g	Comment	Comment	Comment	Comment	Comment	Comment	Comment
Sample ID	**Date Sampled**	**Lab Report No.**																	
1E - 19	20/03/2024	1080081	640	0	0	0	0	0	0.0451	0.00451	0.0007044674	0.00451	Nil	Nil	AF:Chrysotile asbestos detected in compressed fibre cement material.	Organic fibres detected.	No trace asbestos detected.	Nil	Total estimated asbestos concentration in AF = 0.00070% w/w. No asbestos detected at the reporting limit of 0.001% w/w.

Table B: Area 1e/4f Analytical Results
Project Number: 60482
Project Name: DSI

					Metals & Metalloids								TPHs (NEPC 1999)					TRHs (NEPC 2013)							BTEXN						
					Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc	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 - MAH
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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	5	5	5	0.1	5	5	20	20	50	50	50	20	50	100	100	100	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	4	40		650				10000								10	288	600			1000	
NSW 2014 General Solid Waste SCC1 (with leached)					500	100	1900		1500	50	1050		650				10000								18	518	1080			1800	
Sample ID	**Date Sampled**	**Lab Report No.**	**Monitoring Zone**	**Matrix Description**																											
BH434_0.0-0.15	9/04/2021	786604	1e/4f	Fill (Reworked Natural)	7.7	<0.4	19	36	19	<0.1	13	83	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH435_0.0-0.1	9/04/2021	786604	1e/4f	Fill (Reworked Natural)	-	-	-	-	-	-	-	-	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH436_0.0-0.15	9/04/2021	786604	1e/4f	Fill (Reworked Natural)	-	-	-	-	-	-	-	-	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH437_0.0-0.2	9/04/2021	786604	1e/4f	Fill (Reworked Natural)	8.1	<0.4	22	43	22	<0.1	16	99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH437_0.3-0.4	9/04/2021	786604	1e/4f	Clay	-	-	-	-	-	-	-	-	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH438_0.0-0.2	9/04/2021	786604	1e/4f	Fill (Reworked Natural)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH439_0.0-0.15	9/04/2021	786604	1e/4f	Fill (Reworked Natural)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH440_0.0-0.2	9/04/2021	786604	1e/4f	Fill (Reworked Natural)	-	-	-	-	-	-	-	-	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH440_0.4-0.5	9/04/2021	786604	1e/4f	Clay	9.3	<0.4	21	41	23	<0.1	15	92	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH441_0.0-0.2	9/04/2021	786604	1e/4f	Fill (Reworked Natural)	9.2	<0.4	22	42	25	<0.1	16	94	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH442_0.0-0.1	9/04/2021	786604	1e/4f	Fill (Reworked Natural)	5.5	<0.4	15	24	16	<0.1	11	46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH443_0.0-0.3	9/04/2021	786604	1e/4f	Fill (Reworked Natural)	5.4	<0.4	13	28	15	<0.1	9.9	64	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH446_0.0-0.2	9/04/2021	786604	1e/4f	Fill (Reworked Natural)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH447_0.0-0.15	9/04/2021	786604	1e/4f	Fill (Reworked Natural)	7.4	<0.4	23	32	20	<0.1	13	58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP445 1-1.8	8/04/2021	786610	1e/4f	Clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP448 0-0.3	9/04/2021	786604	1e/4f	Fill (Reworked Natural)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP458_0-0.9	9/04/2021	789056	1e/4f	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table B: Area 1e/4f Analytical Results
Project Number: 60482
Project Name: DSI

					PAH																	
					Acenaphthene	Acenaphthylene	Anthracene	Benz[a]anthracene	Benzo[a]pyrene	Benzo[a]pyrene TEQ (LOR)	Benzo[a]pyrene TEQ calc (half)	Benzo[a]pyrene TEQ calc (Zero)	Benzo[b+j]fluoranthene	Benzo[g,h,i]perylene	Benzo[k]fluoranthene	Chrysene	Dibenz[a,h]anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene - PAH	Phenanthrene	Pyrene	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
EQL					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	0.5	0.5	0.5
NSW 2014 General Solid Waste CT1 (No Leaching)									0.8															
NSW 2014 General Solid Waste SCC1 (with leached)									10															
Sample ID	**Date Sampled**	**Lab Report No.**	**Monitoring Zone**	**Matrix Description**																				
BH434_0.0-0.15	9/04/2021	786604	1e/4f	Fill (Reworked Natural)	<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
BH435_0.0-0.1	9/04/2021	786604	1e/4f	Fill (Reworked Natural)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH436_0.0-0.15	9/04/2021	786604	1e/4f	Fill (Reworked Natural)	<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
BH437_0.0-0.2	9/04/2021	786604	1e/4f	Fill (Reworked Natural)	<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
BH437_0.3-0.4	9/04/2021	786604	1e/4f	Clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH438_0.0-0.2	9/04/2021	786604	1e/4f	Fill (Reworked Natural)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH439_0.0-0.15	9/04/2021	786604	1e/4f	Fill (Reworked Natural)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH440_0.0-0.2	9/04/2021	786604	1e/4f	Fill (Reworked Natural)	<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
BH440_0.4-0.5	9/04/2021	786604	1e/4f	Clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH441_0.0-0.2	9/04/2021	786604	1e/4f	Fill (Reworked Natural)	<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
BH442_0.0-0.1	9/04/2021	786604	1e/4f	Fill (Reworked Natural)	<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
BH443_0.0-0.3	9/04/2021	786604	1e/4f	Fill (Reworked Natural)	<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
BH446_0.0-0.2	9/04/2021	786604	1e/4f	Fill (Reworked Natural)	<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
BH447_0.0-0.15	9/04/2021	786604	1e/4f	Fill (Reworked Natural)	<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
TP445 1-1.8	8/04/2021	786610	1e/4f	Clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP448 0-0.3	9/04/2021	786604	1e/4f	Fill (Reworked Natural)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP458_0-0.9	9/04/2021	789056	1e/4f	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table B: Area 1e/4f Analytical Results
Project Number: 60482
Project Name: DSI

					Phenols																Herbicides & Fungicides
					2,4,5-trichlorophenol	2,4,6-trichlorophenol	2,4-dichlorophenol	2,4-dimethylphenol	2,4-dinitrophenol	2,6-dichlorophenol	2-chlorophenol	2-Methylphenol	2-nitrophenol	3&4-Methylphenol (m&p-cresol)	4,6-Dinitro-2-methylphenol	4,6-Dinitro-o-cyclohexyl phenol	4-Chloro-3-Methylphenol	4-nitrophenol	Phenol	Tetrachlorophenols	Phenols (Total Halogenated)	Phenols (Total Non Halogenated)	Dinoseb
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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					1	1	0.5	0.5	5	0.5	0.5	0.2	1	0.4	5	20	1	5	0.5	10	1	20	20
NSW 2014 General Solid Waste CT1 (No Leaching)					8000	40						4000											
NSW 2014 General Solid Waste SCC1 (with leached)					14400	72						7200							518				
Sample ID	**Date Sampled**	**Lab Report No.**	**Monitoring Zone**	**Matrix Description**																			
BH434_0.0-0.15	9/04/2021	786604	1e/4f	Fill (Reworked Natural)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH435_0.0-0.1	9/04/2021	786604	1e/4f	Fill (Reworked Natural)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH436_0.0-0.15	9/04/2021	786604	1e/4f	Fill (Reworked Natural)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH437_0.0-0.2	9/04/2021	786604	1e/4f	Fill (Reworked Natural)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH437_0.3-0.4	9/04/2021	786604	1e/4f	Clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH438_0.0-0.2	9/04/2021	786604	1e/4f	Fill (Reworked Natural)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH439_0.0-0.15	9/04/2021	786604	1e/4f	Fill (Reworked Natural)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH440_0.0-0.2	9/04/2021	786604	1e/4f	Fill (Reworked Natural)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH440_0.4-0.5	9/04/2021	786604	1e/4f	Clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH441_0.0-0.2	9/04/2021	786604	1e/4f	Fill (Reworked Natural)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH442_0.0-0.1	9/04/2021	786604	1e/4f	Fill (Reworked Natural)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH443_0.0-0.3	9/04/2021	786604	1e/4f	Fill (Reworked Natural)	<1	<1	<0.5	<0.5	<5	<0.5	<0.5	<0.2	<1	<0.4	<5	<20	<1	<5	<0.5	<10	<1	<20	<20
BH446_0.0-0.2	9/04/2021	786604	1e/4f	Fill (Reworked Natural)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH447_0.0-0.15	9/04/2021	786604	1e/4f	Fill (Reworked Natural)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP445 1-1.8	8/04/2021	786610	1e/4f	Clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP448 0-0.3	9/04/2021	786604	1e/4f	Fill (Reworked Natural)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP458_0-0.9	9/04/2021	789056	1e/4f	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table B: Area 1e/4f Analytical Results
Project Number: 60482
Project Name: DSI

| | | |

Attachment 4 - Laboratory Analysis Report and COCs

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 60482 | LABORATORY BATCH NO.:

PROJECT NAME: Kemps Creek DSI | SAMPLERS:

DATE NEEDED BY: Standard TAT | 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) .....rlill@jbsg.com.au; (3) .....cdagger@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs	Asbestos	OCPs/PCBs	Phenols	Herbicides	PFAS	CEC, pH, Clay	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
	Soil																
BH273 0.0-0.2		9/4/21		J+B						X		X					
BH273 0.4-0.5				J		X		X						X			
BH274 0.0-0.2				J+B													
BH274 0.4-0.5				J													
BH275 0.0-0.2				J+B		X		X				X					
BH275 0.4-0.5				J													
BH276 0.0-0.2				J+B													
BH276 0.4-0.5				J		X	X										
BH277 0.0-0.2				J+B													
BH277 0.6-0.7				J		X		X									
TP214 0.0-0.1				J+B													
TP214 0.4-0.5				J			~~X~~	~~X~~						~~X~~			
TP215 0.0-0.1				J+B													
TP215 0.4-0.5				~~J~~ J		~~X~~		~~X~~									
TP215 1.0-1.1				J													
TP215 1.7-1.8				J			X	X									
TP219 0.0-0.1				J+B													
TP219 0.4-0.5				J													

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Ryan Lill DATE: 12-4-21	CONSIGNMENT NOTE NO.	NAME: GTN	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 12/4/21 6:38pm i-5%	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 - Generic

786604

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 60482

PROJECT NAME: Kemps Creek DSI

DATE NEEDED BY: Standard TAT

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

LABORATORY BATCH NO.:

SAMPLERS:

QC LEVEL: NEPM (2013)

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....rill@jbsg.com.au; (3) .....cdagger@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs	Asbestos	OCPs/PCBs	Phenols	Herbicides	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
TP201 0-0.2 AQ	Soil	9-4-21		DAQ B					X							
TP201 0-0.2				AD or		X		X								
TP201 0.5-0.6				D		X	X	X								
TP400 0-0.3	AQ			AQ B					X							
TP 400 0-0.3	D			D			X			X						
TP 400 0.4-0.6				D												
TP 401 0-0.3				AQ B					X							
TP 401 0-0.3				D		X	X	X								
TP 401 0.4-0.6				D												
TP 402 0-0.3				AQ B					X							
TP 402 0-0.3				D		X		X								
TP 402 0.4-0.6				D												
TP 405 0-0.4				AQ B					X							
TP 408 0-0.9				AQ B												
TP 404 0-0.4				AQ B					X							
TP 403 0-0.3				AQ B					X							
TP 204 0-0.1				B		E	E	X								
TP 204 0-0.1				D		X		X								
TP 204 0.4-0.5				D												
TP 408 0-0.2	V	V														

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Ryan Gill DATE: 12-4-21	CONSIGNMENT NOTE NO.	NAME: GTW	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 12/4/21 6:38pm 1.5°C	
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

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 60482 | LABORATORY BATCH NO.:

PROJECT NAME: Kemps Creek DSI | SAMPLERS:

DATE NEEDED BY: Standard TAT | 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) .....rlill@jbsg.com.au; (3) .....cdagger@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs	Asbestos	OCPs/PCBs	Phenols	Herbicides	PFAS	8/27 x	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
TP212 2.6-2.4	Soil	1/4/21		J		x	x	x					-				
TP212 2.0-2.1	↓	↓		J													
TP212 1.0-1.1				J													
TP212 0.0-0.1				B					x								
TP212 0.5-0.6				J													
TP212 0.0-0.1				J		x		x									
~~TP 204 0.0-0.1~~				~~B+J~~													
~~TP 204 0.4-0.5~~				~~J~~													
TP 204 0.4-0.5				J													
TP 205 0.0-0.2	↓	↓		BTJ		x	x										
TS	Water	9/4/21		2xV										x			
TB	↓	↓		2xV										x			

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: [signature] DATE: 12.4.21	CONSIGNMENT NOTE NO.	NAME: GHV	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 12/4/21 6:38pm	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	OF: ISQ	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; F = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO Forms013 – Chain of Custody – Generic

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 60482	LABORATORY BATCH NO.:
PROJECT NAME: Kemps Creek DSI	SAMPLERS:
DATE NEEDED BY: Standard TAT	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) .....rlill@jbsg.com.au; (3) .....cdagger@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs	Asbestos	OCPs/PCBs	Phenols	Herbicides	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
	Soil															
TP 220 0.0-0.1		7/4/21		J+B		X						X				
TP 220 0.4-0.5				J												
TP 226 0.0-0.2				J+D												
TP 226 0.4-0.5				J												
TP 222 0.1-0.2				J+D												
TP 222 0.4-0.5				J				X				X				
TP 227 0.0-0.1				J+D												
TP 227 0.4-0.5	↓			J		X		X				X				

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Ryan Lill DATE: 12-4-21	CONSIGNMENT NOTE NO.	NAME: GTD	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 12/4/21 6:38pm 1.5°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 - Generic

CHAIN OF CUSTODY

PROJECT NO.: 60482	LABORATORY BATCH NO.:
PROJECT NAME: Kemps Creek DSI	SAMPLERS:
DATE NEEDED BY: Standard TAT	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) .....rlill@jbsg.com.au; (3) .....cdagger@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs	Asbestos	OCPs/PCBs	Phenols	Herbicides	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
TP 464 | -1.6	Soil	9/4/21														
TP 464 1.6-2.3									X							
TP 464 2.3-3.4																
TP 465 -0.9									X							
TP 462 0-1.0																
TP 462 1.0-2.0																
TP 462 2.0-3.0									X							
TP 462 3.0-3.8																
TP 463 0-0.8																
TP 463 0.8-1.8									X							
TP 463 1.8-2.8																
TP 463 2.8-3.8									X							
TP 463 3.8-4.2																
TP 463 4.2-4.7																
TP 463 4.3-4.4						X		X								
TP 478 0-0.3									X							
TP 211-0.0-0.1						X		X								
TP 211-0.6-0.7																
TP212 0.5-0.6																
TP 212 0.0-0.01	V	V														

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Ryan Lill DATE: 12-4-21	CONSIGNMENT NOTE NO.	NAME: GTN	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 12/4/21 6:38pm 1.5°	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	OF: 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

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 60482

PROJECT NAME: Kemps Creek DSI

DATE NEEDED BY: Standard TAT

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

LABORATORY BATCH NO.:

SAMPLERS:

QC LEVEL: NEPM (2013)

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....rlill@jbsg.com.au; (3) .....cdagger@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs	Asbestos	OCPs/PCBs	Phenols	Herbicides	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
BH434_0.0-0.15	Soil	9-4-21		J+B		x		x	x							
↓ 0.2-0.3	↓	↓		J												
BH435_0.0-0.1				J+B			x		x							
↓ 0.3-0.4				J												
BH436_0.0-0.15				J+B			x	x	x							
↓ 0.2-0.3				J												
BH437_0.0-0.2				J+B		x		x	x							
↓ 0.3-0.4				J			x									
BH438_0.0-0.2				J+B					x							
↓ 0.2-0.4				J												
BH439_0.0-0.15				J+B		x	x		x							
↓ 0.2-0.4				J												
BH440_0.0-0.2				J+B			x	x	x							
↓ 0.4-0.5				J		x										
BH441_0.0-0.2				J+B		x		x	x							
↓ 0.3-0.4				J												
BH442_0.0-0.1				J+B		x		x	x	x						
↓ 0.3-0.4				J												
BH443_0.0-0.3				J+B		x	x	x	x		x					
↓ 0.5-0.6	↓	↓		J												

RELINQUISHED BY:

NAME: Ryan Lill DATE: 9-4-21

OF: JBS&G

NAME: DATE:

OF:

METHOD OF SHIPMENT:

CONSIGNMENT NOTE NO.

TRANSPORT CO.

CONSIGNMENT NOTE NO.

TRANSPORT CO

RECEIVED BY:

NAME: Lina P - 14/04

DATE:

OF: Eurofins 10:21

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 – Generic

186604

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 60482

PROJECT NAME: Kemps Creek DSI

DATE NEEDED BY: Standard TAT

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

LABORATORY BATCH NO.:

SAMPLERS:

QC LEVEL: NEPM (2013)

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....rlill@jbsg.com.au; (3) .....cdagger@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs	Asbestos	OCPs/PCBs	Phenols	Herbicides	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
BH444_0.0-0.3	Soil	9-4-21		J+B					X							
↓ -0.5-0.6	↓	↓		J												
BH445_0.0-0.2				J+B		~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~					
↓ -0.4-0.6				J												
BH446_0.0-0.2				J+B		X	X	X								
↓ 0.3-0.6				J				X	X							
BH447_0.0-0.15				J+B		X		X	X							
↓ 0.2-0.4				J												

RELINQUISHED BY:

NAME: Rylan Lill DATE: 9-4-21

OF: JBS&G

NAME: DATE:

OF:

METHOD OF SHIPMENT:

CONSIGNMENT NOTE NO.

TRANSPORT CO.

CONSIGNMENT NOTE NO.

TRANSPORT CO

RECEIVED BY:

NAME: DATE: 14/04

OF: Eurofins 10:21 AM

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 - Generic

786604

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ABN: 50 005 085 521 www.eurofins.com.au EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
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IANZ # 1290

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Ryan Lill
Project name:	KEMPS CREEK DSI
Project ID:	60482
Turnaround time:	5 Day
Date/Time received	Apr 12, 2021 6:38 PM
Eurofins reference	786604

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 Sample Receipt : 1.5 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.
✓	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

Sample ID BH273 0-0.2 (bag) received as BH293 0-0.2, TP400 0-0.3 received as TP400 0-0.2 (bag) & TP400 0-0.1 (jar), labelled as per COC. TP401 0-0.3, TS/TB, TP212 1-1.1 not received, analysis cancelled. BH439_0.0-0.15 and BH439_0.2-0.4, jars not received, analysis cancelled. Sample ID TP200_0.4-0.5 (jar), TP213_0.3-0.4(jar), BH221_0.3-0.4-0.5 (jar), TP200_0.0-0.4AQ (bag), TP213_0.0-0.1 (jar+bag), TP214_0.0-0.2 (bag), BH221_0.0-0.1 (jar+bag), TP463_0.8-1.8 (bag), TP463_2.8-3.8AQ (bag) & TP464_0.0-1.0AQ (bag) received, not on COC, logged on hold. 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:

Ursula Long on phone : or by email: UrsulaLong@eurofins.com

Results will be delivered electronically via email to Ryan Lill - rlill@jbsg.com.au.

Global Leader - Results you can trust

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

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1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
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Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**															
1	BH273 0-0.2	Apr 09, 2021		Soil	S21-Ap17173							X		X	X					
2	BH273 0.4-0.5	Apr 09, 2021		Soil	S21-Ap17174	X				X	X		X		X	X				
3	BH274 0-0.2	Apr 09, 2021		Soil	S21-Ap17175								X		X					
4	BH275 0-0.2	Apr 09, 2021		Soil	S21-Ap17176						X	X	X		X					
5	BH276 0.4-0.5	Apr 09, 2021		Soil	S21-Ap17177										X				X	
6	BH293 0.6-0.7	Apr 09, 2021		Soil	S21-Ap17178						X		X		X					
7	TP215-1.7-1.8	Apr 09, 2021		Soil	S21-Ap17179						X				X			X		
8	TP201 0-0.2AQ	Apr 09, 2021		Soil	S21-Ap17180		X													

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Australia

Melbourne
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Dandenong South VIC 3175
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Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
9	TP201 0-0.2	Apr 09, 2021		Soil	S21-Ap17181						X		X		X					
10	TP201 0.5-0.6	Apr 09, 2021		Soil	S21-Ap17182										X		X			
11	TP400 0-0.3	Apr 09, 2021		Soil	S21-Ap17183		X													
12	TP400 0-0.3	Apr 09, 2021		Soil	S21-Ap17184									X	X			X		
13	TP401 0-0.3	Apr 09, 2021		Soil	S21-Ap17185		X													
14	TP401 0-0.3	Apr 09, 2021		Soil	S21-Ap17186			X												
15	TP402 0-0.3	Apr 09, 2021		Soil	S21-Ap17187		X													
16	TP402 0-0.3	Apr 09, 2021		Soil	S21-Ap17188						X		X		X					
17	TP405 0-0.4	Apr 09, 2021		Soil	S21-Ap17189		X													
18	TP404 0-0.4	Apr 09, 2021		Soil	S21-Ap17190		X													
19	TP403 0-0.3	Apr 09, 2021		Soil	S21-Ap17191		X													

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Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
20	TP204 0-0.1	Apr 09, 2021		Soil	S21-Ap17192		X													
21	TP204 0-0.1	Apr 09, 2021		Soil	S21-Ap17193						X		X		X					
22	TP212 2.6-2.9	Apr 01, 2021		Soil	S21-Ap17194										X		X			
23	TP212 1-1.1	Apr 01, 2021		Soil	S21-Ap17195		X													
24	TP212 0.5-0.6	Apr 01, 2021		Soil	S21-Ap17196						X		X		X					
25	TP205 0-0.2	Apr 01, 2021		Soil	S21-Ap17197										X				X	
26	TRIP SPIKE	Apr 09, 2021		Water	S21-Ap17198			X												
27	TRIP BLANK	Apr 09, 2021		Water	S21-Ap17199			X												
28	TP220 0-0.1	Apr 07, 2021		Soil	S21-Ap17200							X	X		X					
29	TP222 0.4-0.5	Apr 07, 2021		Soil	S21-Ap17201						X	X			X					
30	TP227 0.4-0.5	Apr 07, 2021		Soil	S21-Ap17202						X	X	X		X					

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
31	TP464 1.6-2.3	Apr 09, 2021		Soil	S21-Ap17203		X													
32	TP453 0-0.9	Apr 09, 2021		Soil	S21-Ap17204		X													
33	TP462 2-3	Apr 09, 2021		Soil	S21-Ap17205		X													
34	TP463 0.8-1.8	Apr 09, 2021		Soil	S21-Ap17206		X													
35	TP463 2.8-3.8	Apr 09, 2021		Soil	S21-Ap17207		X													
36	TP463 4.3-4.4	Apr 09, 2021		Soil	S21-Ap17208						X		X		X					
37	TP448 0-0.3	Apr 09, 2021		Soil	S21-Ap17209		X													
38	TP211 0-0.1	Apr 09, 2021		Soil	S21-Ap17210						X		X		X					
39	BH274 0.4-0.5	Apr 09, 2021		Soil	S21-Ap17211				X											
40	BH275 0.4-0.5	Apr 09, 2021		Soil	S21-Ap17212				X											
41	BH276 0-0.2	Apr 09, 2021		Soil	S21-Ap17213				X											

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Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

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Site # 23736

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Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
42	BH273 0-0.2	Apr 09, 2021		Soil	S21-Ap17214				X											
43	TP214-0-0.1	Apr 09, 2021		Soil	S21-Ap17215				X											
44	TP214-0.4-0.5	Apr 09, 2021		Soil	S21-Ap17216				X											
45	TP215-0-0.1	Apr 09, 2021		Soil	S21-Ap17217				X											
46	TP215-0.4-0.5	Apr 09, 2021		Soil	S21-Ap17218				X											
47	TP215-1-1	Apr 09, 2021		Soil	S21-Ap17219				X											
48	TP219-0-0.1	Apr 09, 2021		Soil	S21-Ap17220				X											
49	TP219-0.4-0.5	Apr 09, 2021		Soil	S21-Ap17221				X											
50	TP400 0.4-0.6	Apr 09, 2021		Soil	S21-Ap17222				X											
51	TP401 0.4-0.6	Apr 09, 2021		Soil	S21-Ap17223				X											
52	TP402 0.4-0.6	Apr 09, 2021		Soil	S21-Ap17224				X											

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Australia

Melbourne
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Phone : +61 3 8564 5000
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Site # 1254 & 14271

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
53	TP458 0-0.9	Apr 09, 2021		Soil	S21-Ap17225				X											
54	TP204 0.4-0.5	Apr 09, 2021		Soil	S21-Ap17226				X											
55	TP212 1-1.1	Apr 01, 2021		Soil	S21-Ap17227			X												
56	TP212 1-1.1	Apr 01, 2021		Soil	S21-Ap17228				X											
57	TP212 2-2.1	Apr 01, 2021		Soil	S21-Ap17229				X											
58	TP212 0-0.1	Apr 01, 2021		Soil	S21-Ap17230				X											
59	TP205 0.4-0.5	Apr 01, 2021		Soil	S21-Ap17231				X											
60	TP220 0.4-0.5	Apr 07, 2021		Soil	S21-Ap17232				X											
61	TP226 0.1-0.2	Apr 07, 2021		Soil	S21-Ap17233				X											
62	TP226 0.4-0.5	Apr 07, 2021		Soil	S21-Ap17234				X											
63	TP222 0.1-0.2	Apr 07, 2021		Soil	S21-Ap17235				X											

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Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
64	TP227 0-0.1	Apr 07, 2021		Soil	S21-Ap17236				X											
65	TP464 1-1.6	Apr 09, 2021		Soil	S21-Ap17237				X											
66	TP464 2.3-2.4	Apr 09, 2021		Soil	S21-Ap17238				X											
67	TP462 0-1	Apr 09, 2021		Soil	S21-Ap17239				X											
68	TP462 1-2	Apr 09, 2021		Soil	S21-Ap17240				X											
69	TP462 3-3.8	Apr 09, 2021		Soil	S21-Ap17241				X											
70	TP463 0-0.8	Apr 09, 2021		Soil	S21-Ap17242				X											
71	TP463 1.8-2.8	Apr 09, 2021		Soil	S21-Ap17243				X											
72	TP463 3.8-4.2	Apr 09, 2021		Soil	S21-Ap17244				X											
73	TP463 4.2-4.7	Apr 09, 2021		Soil	S21-Ap17245				X											
74	TP211 0.6-0.7	Apr 09, 2021		Soil	S21-Ap17246				X											

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
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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46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
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Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
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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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
75	TP212 0.5-0.6	Apr 09, 2021		Soil	S21-Ap17247				X											
76	TP212 0-0.01	Apr 09, 2021		Soil	S21-Ap17248				X											
77	BH434_0.0-0.15	Apr 09, 2021		Soil	S21-Ap20355		X				X		X		X					
78	BH435_0.0-0.1	Apr 09, 2021		Soil	S21-Ap20356		X								X			X		
79	BH436_0.0-0.15	Apr 09, 2021		Soil	S21-Ap20357		X				X				X			X		
80	BH437_0.0-0.2	Apr 09, 2021		Soil	S21-Ap20358		X				X		X		X					
81	BH437_0.3-0.4	Apr 09, 2021		Soil	S21-Ap20359										X			X		
82	BH438_0.0-0.2	Apr 09, 2021		Soil	S21-Ap20360		X													
83	BH439_0.0-0.15	Apr 09, 2021		Soil	S21-Ap20361		X													

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
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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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
84	BH440_0.0-0.2	Apr 09, 2021		Soil	S21-Ap20362		X				X				X			X		
85	BH440_0.4-0.5	Apr 09, 2021		Soil	S21-Ap20363								X		X					
86	BH441_0.0-0.2	Apr 09, 2021		Soil	S21-Ap20364						X		X		X					
87	BH442_0.0-0.1	Apr 09, 2021		Soil	S21-Ap20365		X				X		X	X	X					
88	BH443_0.0-0.3	Apr 09, 2021		Soil	S21-Ap20366		X								X					X
89	BH444_0.0-0.3	Apr 09, 2021		Soil	S21-Ap20367		X													
90	BH445_0.4-0.6	Apr 09, 2021		Soil	S21-Ap20368										X		X			
91	BH446_0.0-0.2	Apr 09, 2021		Soil	S21-Ap20369		X				X				X					
92	BH447_0.0-0.15	Apr 09, 2021		Soil	S21-Ap20370		X				X		X		X					
93	BH434_0.2-0.3	Apr 09, 2021		Soil	S21-Ap20371				X											

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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
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Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
94	BH435_0.3-0.4	Apr 09, 2021		Soil	S21-Ap20372				X											
95	BH436_0.2-0.3	Apr 09, 2021		Soil	S21-Ap20373				X											
96	BH438_0.2-0.4	Apr 09, 2021		Soil	S21-Ap20374				X											
97	BH439_0.2-0.4	Apr 09, 2021		Soil	S21-Ap20375				X											
98	BH441_0.3-0.4	Apr 09, 2021		Soil	S21-Ap20376				X											
99	BH442_0.3-0.4	Apr 09, 2021		Soil	S21-Ap20377				X											
100	BH443_0.5-0.6	Apr 09, 2021		Soil	S21-Ap20378				X											
101	BH444_0.5-0.6	Apr 09, 2021		Soil	S21-Ap20379				X											
102	BH446_0.3-0.6	Apr 09, 2021		Soil	S21-Ap20380				X											
103	BH447_0.2-0.4	Apr 09, 2021		Soil	S21-Ap20381				X											
104	BH445_0.0-0.2	Apr 09, 2021		Soil	S21-Ap20549				X											

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
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1/21 Smallwood Place
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Phone : +61 7 3902 4600
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Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
105	TP200_0.4-0.5	Apr 09, 2021		Soil	S21-Ap22373				X											
106	TP213_0.3-0.4	Apr 09, 2021		Soil	S21-Ap22374				X											
107	BH221_0.3-0.4-0.5	Apr 09, 2021		Soil	S21-Ap22375				X											
108	TP200_0.0-0.4AQ	Apr 09, 2021		Soil	S21-Ap22376				X											
109	TP213_0.0-0.1	Apr 09, 2021		Soil	S21-Ap22377				X											
110	TP214_0.0-0.2	Apr 09, 2021		Soil	S21-Ap22378				X											
111	BH221_0.0-0.1	Apr 09, 2021		Soil	S21-Ap22379				X											
112	TP463_0.8-1.8	Apr 09, 2021		Soil	S21-Ap22380				X											
113	TP463_2.8-3.8AQ	Apr 09, 2021		Soil	S21-Ap22381				X											

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

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Unit F3, Building F
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Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
114	TP464_0.0-1.0AQ	Apr 09, 2021		Soil	S21-Ap22382				X											
Test Counts						1	27	6	59	1	20	5	18	3	33	1	5	6	2	1

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 and proficiency testing scheme providers reports.

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention:	Ryan Lill
Report	786604-AID
Project Name	KEMPS CREEK DSI
Project ID	60482
Received Date	Apr 12, 2021
Date Reported	Apr 21, 2021

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.*

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 and proficiency testing scheme providers reports.

Project Name KEMPS CREEK DSI
Project ID 60482
Date Sampled Apr 09, 2021
Report 786604-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
TP201 0-0.2AQ	21-Ap17180	Apr 09, 2021	Approximate Sample 312g 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.
TP400 0-0.3	21-Ap17183	Apr 09, 2021	Approximate Sample 498g 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.
TP401 0-0.3	21-Ap17185	Apr 09, 2021	Approximate Sample 429g 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.
TP402 0-0.3	21-Ap17187	Apr 09, 2021	Approximate Sample 344g 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.
TP405 0-0.4	21-Ap17189	Apr 09, 2021	Approximate Sample 623g 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.
TP404 0-0.4	21-Ap17190	Apr 09, 2021	Approximate Sample 542g 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.
TP403 0-0.3	21-Ap17191	Apr 09, 2021	Approximate Sample 422g 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.
TP204 0-0.1	21-Ap17192	Apr 09, 2021	Approximate Sample 684g Sample consisted of: Brown coarse-grained soil, coal 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
TP464 1.6-2.3	21-Ap17203	Apr 09, 2021	Approximate Sample 464g 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.
TP453 0-0.9	21-Ap17204	Apr 09, 2021	Approximate Sample 319g 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.
TP462 2-3	21-Ap17205	Apr 09, 2021	Approximate Sample 487g 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.
TP463 0.8-1.8	21-Ap17206	Apr 09, 2021	Approximate Sample 48g / 60x40x5mm Sample consisted of: Grey compressed fibre cement material	Chrysotile asbestos detected.
TP463 2.8-3.8	21-Ap17207	Apr 09, 2021	Approximate Sample 488g 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.
TP448 0-0.3	21-Ap17209	Apr 09, 2021	Approximate Sample 378g 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.
BH434_0.0-0.15	21-Ap20355	Apr 09, 2021	Approximate Sample 436g 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.
BH435_0.0-0.1	21-Ap20356	Apr 09, 2021	Approximate Sample 451g 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.
BH436_0.0-0.15	21-Ap20357	Apr 09, 2021	Approximate Sample 362g 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.
BH437_0.0-0.2	21-Ap20358	Apr 09, 2021	Approximate Sample 531g 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.
BH438_0.0-0.2	21-Ap20360	Apr 09, 2021	Approximate Sample 385g 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.
BH439_0.0-0.15	21-Ap20361	Apr 09, 2021	Approximate Sample 353g 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.
BH440_0.0-0.2	21-Ap20362	Apr 09, 2021	Approximate Sample 373g 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
BH442_0.0-0.1	21-Ap20365	Apr 09, 2021	Approximate Sample 361g 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.
BH443_0.0-0.3	21-Ap20366	Apr 09, 2021	Approximate Sample 453g 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.
BH444_0.0-0.3	21-Ap20367	Apr 09, 2021	Approximate Sample 429g 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.
BH446_0.0-0.2	21-Ap20369	Apr 09, 2021	Approximate Sample 395g 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.
BH447_0.0-0.15	21-Ap20370	Apr 09, 2021	Approximate Sample 361g 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	Apr 14, 2021	Indefinite

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**															
1	BH273 0-0.2	Apr 09, 2021		Soil	S21-Ap17173							X		X	X					
2	BH273 0.4-0.5	Apr 09, 2021		Soil	S21-Ap17174	X				X	X		X		X	X				
3	BH274 0-0.2	Apr 09, 2021		Soil	S21-Ap17175								X		X					
4	BH275 0-0.2	Apr 09, 2021		Soil	S21-Ap17176						X	X	X		X					
5	BH276 0.4-0.5	Apr 09, 2021		Soil	S21-Ap17177										X				X	
6	BH293 0.6-0.7	Apr 09, 2021		Soil	S21-Ap17178						X		X		X					
7	TP215-1.7-1.8	Apr 09, 2021		Soil	S21-Ap17179						X				X			X		
8	TP201 0-0.2AQ	Apr 09, 2021		Soil	S21-Ap17180		X													

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
9	TP201 0-0.2	Apr 09, 2021		Soil	S21-Ap17181						X		X		X					
10	TP201 0.5-0.6	Apr 09, 2021		Soil	S21-Ap17182										X		X			
11	TP400 0-0.3	Apr 09, 2021		Soil	S21-Ap17183		X													
12	TP400 0-0.3	Apr 09, 2021		Soil	S21-Ap17184									X	X			X		
13	TP401 0-0.3	Apr 09, 2021		Soil	S21-Ap17185		X													
14	TP401 0-0.3	Apr 09, 2021		Soil	S21-Ap17186			X												
15	TP402 0-0.3	Apr 09, 2021		Soil	S21-Ap17187		X													
16	TP402 0-0.3	Apr 09, 2021		Soil	S21-Ap17188						X		X		X					
17	TP405 0-0.4	Apr 09, 2021		Soil	S21-Ap17189		X													
18	TP404 0-0.4	Apr 09, 2021		Soil	S21-Ap17190		X													
19	TP403 0-0.3	Apr 09, 2021		Soil	S21-Ap17191		X													

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Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
20	TP204 0-0.1	Apr 09, 2021		Soil	S21-Ap17192		X													
21	TP204 0-0.1	Apr 09, 2021		Soil	S21-Ap17193						X		X		X					
22	TP212 2.6-2.9	Apr 01, 2021		Soil	S21-Ap17194										X		X			
23	TP212 1-1.1	Apr 01, 2021		Soil	S21-Ap17195			X												
24	TP212 0.5-0.6	Apr 01, 2021		Soil	S21-Ap17196						X		X		X					
25	TP205 0-0.2	Apr 01, 2021		Soil	S21-Ap17197										X				X	
26	TRIP SPIKE	Apr 09, 2021		Water	S21-Ap17198			X												
27	TRIP BLANK	Apr 09, 2021		Water	S21-Ap17199			X												
28	TP220 0-0.1	Apr 07, 2021		Soil	S21-Ap17200							X	X		X					
29	TP222 0.4-0.5	Apr 07, 2021		Soil	S21-Ap17201						X	X			X					
30	TP227 0.4-0.5	Apr 07, 2021		Soil	S21-Ap17202						X	X	X		X					

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
31	TP464 1.6-2.3	Apr 09, 2021		Soil	S21-Ap17203		X													
32	TP453 0-0.9	Apr 09, 2021		Soil	S21-Ap17204		X													
33	TP462 2-3	Apr 09, 2021		Soil	S21-Ap17205		X													
34	TP463 0.8-1.8	Apr 09, 2021		Soil	S21-Ap17206		X													
35	TP463 2.8-3.8	Apr 09, 2021		Soil	S21-Ap17207		X													
36	TP463 4.3-4.4	Apr 09, 2021		Soil	S21-Ap17208						X		X		X					
37	TP448 0-0.3	Apr 09, 2021		Soil	S21-Ap17209		X													
38	TP211 0-0.1	Apr 09, 2021		Soil	S21-Ap17210						X		X		X					
39	BH274 0.4-0.5	Apr 09, 2021		Soil	S21-Ap17211				X											
40	BH275 0.4-0.5	Apr 09, 2021		Soil	S21-Ap17212				X											
41	BH276 0-0.2	Apr 09, 2021		Soil	S21-Ap17213				X											

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
42	BH273 0-0.2	Apr 09, 2021		Soil	S21-Ap17214				X											
43	TP214-0-0.1	Apr 09, 2021		Soil	S21-Ap17215				X											
44	TP214-0.4-0.5	Apr 09, 2021		Soil	S21-Ap17216				X											
45	TP215-0-0.1	Apr 09, 2021		Soil	S21-Ap17217				X											
46	TP215-0.4-0.5	Apr 09, 2021		Soil	S21-Ap17218				X											
47	TP215-1-1	Apr 09, 2021		Soil	S21-Ap17219				X											
48	TP219-0-0.1	Apr 09, 2021		Soil	S21-Ap17220				X											
49	TP219-0.4-0.5	Apr 09, 2021		Soil	S21-Ap17221				X											
50	TP400 0.4-0.6	Apr 09, 2021		Soil	S21-Ap17222				X											
51	TP401 0.4-0.6	Apr 09, 2021		Soil	S21-Ap17223				X											
52	TP402 0.4-0.6	Apr 09, 2021		Soil	S21-Ap17224				X											

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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
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Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
53	TP458 0-0.9	Apr 09, 2021		Soil	S21-Ap17225				X											
54	TP204 0.4-0.5	Apr 09, 2021		Soil	S21-Ap17226				X											
55	TP212 1-1.1	Apr 01, 2021		Soil	S21-Ap17227			X												
56	TP212 1-1.1	Apr 01, 2021		Soil	S21-Ap17228				X											
57	TP212 2-2.1	Apr 01, 2021		Soil	S21-Ap17229				X											
58	TP212 0-0.1	Apr 01, 2021		Soil	S21-Ap17230				X											
59	TP205 0.4-0.5	Apr 01, 2021		Soil	S21-Ap17231				X											
60	TP220 0.4-0.5	Apr 07, 2021		Soil	S21-Ap17232				X											
61	TP226 0.1-0.2	Apr 07, 2021		Soil	S21-Ap17233				X											
62	TP226 0.4-0.5	Apr 07, 2021		Soil	S21-Ap17234				X											
63	TP222 0.1-0.2	Apr 07, 2021		Soil	S21-Ap17235				X											

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
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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Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
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Mayfield East NSW 2304
PO Box 60 Wickham 2293
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Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
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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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
64	TP227 0-0.1	Apr 07, 2021		Soil	S21-Ap17236				X											
65	TP464 1-1.6	Apr 09, 2021		Soil	S21-Ap17237				X											
66	TP464 2.3-2.4	Apr 09, 2021		Soil	S21-Ap17238				X											
67	TP462 0-1	Apr 09, 2021		Soil	S21-Ap17239				X											
68	TP462 1-2	Apr 09, 2021		Soil	S21-Ap17240				X											
69	TP462 3-3.8	Apr 09, 2021		Soil	S21-Ap17241				X											
70	TP463 0-0.8	Apr 09, 2021		Soil	S21-Ap17242				X											
71	TP463 1.8-2.8	Apr 09, 2021		Soil	S21-Ap17243				X											
72	TP463 3.8-4.2	Apr 09, 2021		Soil	S21-Ap17244				X											
73	TP463 4.2-4.7	Apr 09, 2021		Soil	S21-Ap17245				X											
74	TP211 0.6-0.7	Apr 09, 2021		Soil	S21-Ap17246				X											

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
75	TP212 0.5-0.6	Apr 09, 2021		Soil	S21-Ap17247				X											
76	TP212 0-0.01	Apr 09, 2021		Soil	S21-Ap17248				X											
77	BH434_0.0-0.15	Apr 09, 2021		Soil	S21-Ap20355		X				X		X		X					
78	BH435_0.0-0.1	Apr 09, 2021		Soil	S21-Ap20356		X								X			X		
79	BH436_0.0-0.15	Apr 09, 2021		Soil	S21-Ap20357		X				X				X			X		
80	BH437_0.0-0.2	Apr 09, 2021		Soil	S21-Ap20358		X				X		X		X					
81	BH437_0.3-0.4	Apr 09, 2021		Soil	S21-Ap20359										X			X		
82	BH438_0.0-0.2	Apr 09, 2021		Soil	S21-Ap20360		X													
83	BH439_0.0-0.15	Apr 09, 2021		Soil	S21-Ap20361		X													

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Australia

Melbourne
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Sydney
Unit F3, Building F
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Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

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1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
84	BH440_0.0-0.2	Apr 09, 2021		Soil	S21-Ap20362		X				X				X			X		
85	BH440_0.4-0.5	Apr 09, 2021		Soil	S21-Ap20363								X		X					
86	BH441_0.0-0.2	Apr 09, 2021		Soil	S21-Ap20364						X		X		X					
87	BH442_0.0-0.1	Apr 09, 2021		Soil	S21-Ap20365		X				X		X	X	X					
88	BH443_0.0-0.3	Apr 09, 2021		Soil	S21-Ap20366		X								X					X
89	BH444_0.0-0.3	Apr 09, 2021		Soil	S21-Ap20367		X													
90	BH445_0.4-0.6	Apr 09, 2021		Soil	S21-Ap20368										X		X			
91	BH446_0.0-0.2	Apr 09, 2021		Soil	S21-Ap20369		X				X				X					
92	BH447_0.0-0.15	Apr 09, 2021		Soil	S21-Ap20370		X				X		X		X					
93	BH434_0.2-0.3	Apr 09, 2021		Soil	S21-Ap20371				X											

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Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
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46-48 Banksia Road
Welshpool WA 6106
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Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
94	BH435_0.3-0.4	Apr 09, 2021		Soil	S21-Ap20372				X											
95	BH436_0.2-0.3	Apr 09, 2021		Soil	S21-Ap20373				X											
96	BH438_0.2-0.4	Apr 09, 2021		Soil	S21-Ap20374				X											
97	BH439_0.2-0.4	Apr 09, 2021		Soil	S21-Ap20375				X											
98	BH441_0.3-0.4	Apr 09, 2021		Soil	S21-Ap20376				X											
99	BH442_0.3-0.4	Apr 09, 2021		Soil	S21-Ap20377				X											
100	BH443_0.5-0.6	Apr 09, 2021		Soil	S21-Ap20378				X											
101	BH444_0.5-0.6	Apr 09, 2021		Soil	S21-Ap20379				X											
102	BH446_0.3-0.6	Apr 09, 2021		Soil	S21-Ap20380				X											
103	BH447_0.2-0.4	Apr 09, 2021		Soil	S21-Ap20381				X											
104	BH445_0.0-0.2	Apr 09, 2021		Soil	S21-Ap20549				X											

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Australia

Melbourne
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Rolleston, Christchurch 7675
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IANZ # 1290

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Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
105	TP200_0.4-0.5	Apr 09, 2021		Soil	S21-Ap22373				X											
106	TP213_0.3-0.4	Apr 09, 2021		Soil	S21-Ap22374				X											
107	BH221_0.3-0.4-0.5	Apr 09, 2021		Soil	S21-Ap22375				X											
108	TP200_0.0-0.4AQ	Apr 09, 2021		Soil	S21-Ap22376				X											
109	TP213_0.0-0.1	Apr 09, 2021		Soil	S21-Ap22377				X											
110	TP214_0.0-0.2	Apr 09, 2021		Soil	S21-Ap22378				X											
111	BH221_0.0-0.1	Apr 09, 2021		Soil	S21-Ap22379				X											
112	TP463_0.8-1.8	Apr 09, 2021		Soil	S21-Ap22380				X											
113	TP463_2.8-3.8AQ	Apr 09, 2021		Soil	S21-Ap22381				X											

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
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Phone : +61 7 3902 4600
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46-48 Banksia Road
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NATA # 1261
Site # 23736

Newcastle
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PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
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Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

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Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
114	TP464_0.0-1.0AQ	Apr 09, 2021		Soil	S21-Ap22382				X											
Test Counts						1	26	7	59	1	20	5	18	3	33	1	5	6	2	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 blue colour, 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 '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 Advice.

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: weight for weight basis	grams per kilogram
Filter loading:	fibres/100 graticule areas
Reported Concentration:	fibres/mL
Flowrate:	L/min

Terms

Dry	Sample is dried by heating prior to analysis
LOR	Limit of Reporting
COC	Chain of Custody
SRA	Sample Receipt Advice
ISO	International Standards Organisation
AS	Australian Standards
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 (2009), including supporting document Recommended Procedures for Laboratory Analysis of Asbestos in Soil (2011)
NEPM	National Environment Protection (Assessment of Site Contamination) Measure, 2013 (as amended)
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded and/or sound condition. For the purposes of the NEPM, ACM is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
AF	Asbestos Fines. Asbestos containing materials, including friable, weathered and bonded materials, able to pass a 7mm x 7mm sieve. Considered under the NEPM as equivalent to “non-bonded / friable”.
FA	Fibrous Asbestos. Asbestos containing materials in a friable and/or severely weathered condition. For the purposes of the NEPM, FA is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
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.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres in the matrix.

Comments

Ap17180 to Ap17187, Ap17190,Ap17191, Ap17203 to Ap20357, Ap20360 o Ap20370: 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	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
N/A	Not applicable

Asbestos Counter/Identifier:

Chamath JHM Annakkage	Senior Analyst-Asbestos (NSW)

Authorised by:

Sayeed Abu	Senior Analyst-Asbestos (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.

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.

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

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 and proficiency testing scheme providers reports.

Attention: **Ryan Lill**

Report **786604-S**
Project name KEMPS CREEK DSI
Project ID 60482
Received Date Apr 12, 2021

Client Sample ID			**BH273 0-0.2**	**BH273 0.4-0.5**	**BH274 0-0.2**	**BH275 0-0.2**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**S21-Ap17173**	**S21-Ap17174**	**S21-Ap17175**	**S21-Ap17176**
Date Sampled			**Apr 09, 2021**	**Apr 09, 2021**	**Apr 09, 2021**	**Apr 09, 2021**
Test/Reference	LOR	Unit				
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	0.08	-	-	-
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	0.1	mg/kg	< 0.1	-	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	0.08	-	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2	-	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2	-	-	-
Dibutylchlorendate (surr.)	1	%	75	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	90	-	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1221	0.1	mg/kg	< 0.1	-	-	-
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	-	-	-

Client Sample ID			BH273 0-0.2	BH273 0.4-0.5	BH274 0-0.2	BH275 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17173	S21-Ap17174	S21-Ap17175	S21-Ap17176
Date Sampled			Apr 09, 2021	Apr 09, 2021	Apr 09, 2021	Apr 09, 2021
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Total PCB*	0.5	mg/kg	< 0.5	-	-	-
Dibutylchlorendate (surr.)	1	%	75	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	90	-	-	-
Acid Herbicides						
2.4-D	0.5	mg/kg	< 0.5	-	-	< 0.5
2.4-DB	0.5	mg/kg	< 0.5	-	-	< 0.5
2.4.5-T	0.5	mg/kg	< 0.5	-	-	< 0.5
2.4.5-TP	0.5	mg/kg	< 0.5	-	-	< 0.5
Actril (loxynil)	0.5	mg/kg	< 0.5	-	-	< 0.5
Dicamba	0.5	mg/kg	< 0.5	-	-	< 0.5
Dichlorprop	0.5	mg/kg	< 0.5	-	-	< 0.5
Dinitro-o-cresol	0.5	mg/kg	< 0.5	-	-	< 0.5
Dinoseb	0.5	mg/kg	< 0.5	-	-	< 0.5
MCPA	0.5	mg/kg	< 0.5	-	-	< 0.5
MCPB	0.5	mg/kg	< 0.5	-	-	< 0.5
Mecoprop	0.5	mg/kg	< 0.5	-	-	< 0.5
Warfarin (surr.)	1	%	61	-	-	64
% Moisture	1	%	20	18	17	19
% Clay	1	%	-	37	-	-
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	-	70	-	-
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	-	5.7	-	-
Polycyclic Aromatic Hydrocarbons						
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
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
2-Fluorobiphenyl (surr.)	1	%	-	80	-	79
p-Terphenyl-d14 (surr.)	1	%	-	98	-	99

Client Sample ID			BH273 0-0.2	BH273 0.4-0.5	BH274 0-0.2	BH275 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17173	S21-Ap17174	S21-Ap17175	S21-Ap17176
Date Sampled			Apr 09, 2021	Apr 09, 2021	Apr 09, 2021	Apr 09, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	-	6.8	11	11
Cadmium	0.4	mg/kg	-	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	-	20	36	28
Copper	5	mg/kg	-	18	30	41
Lead	5	mg/kg	-	14	26	17
Mercury	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	-	< 5	15	8.7
Zinc	5	mg/kg	-	19	62	58
Cation Exchange Capacity						
Cation Exchange Capacity	0.05	meq/100g	-	56	-	-

Client Sample ID			BH276 0.4-0.5	BH293 0.6-0.7	TP215-1.7-1.8	TP201 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17177	S21-Ap17178	S21-Ap17179	S21-Ap17181
Date Sampled			Apr 09, 2021	Apr 09, 2021	Apr 09, 2021	Apr 09, 2021
Test/Reference	LOR	Unit				
% Moisture	1	%	21	16	15	22
Polycyclic Aromatic Hydrocarbons						
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
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
2-Fluorobiphenyl (surr.)	1	%	-	75	77	80
p-Terphenyl-d14 (surr.)	1	%	-	96	99	101
Heavy Metals						
Arsenic	2	mg/kg	14	11	-	7.7
Cadmium	0.4	mg/kg	< 0.4	< 0.4	-	< 0.4
Chromium	5	mg/kg	29	25	-	21
Copper	5	mg/kg	24	21	-	27
Lead	5	mg/kg	18	25	-	19
Mercury	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1

Client Sample ID			BH276 0.4-0.5	BH293 0.6-0.7	TP215-1.7-1.8	TP201 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17177	S21-Ap17178	S21-Ap17179	S21-Ap17181
Date Sampled			Apr 09, 2021	Apr 09, 2021	Apr 09, 2021	Apr 09, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Nickel	5	mg/kg	8.4	11	-	21
Zinc	5	mg/kg	37	39	-	68
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-C36 (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	%	INT	-	110	-
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	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	< 100	-

Client Sample ID			TP201 0.5-0.6	TP400 0-0.3	TP402 0-0.3	TP204 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17182	S21-Ap17184	S21-Ap17188	S21-Ap17193
Date Sampled			Apr 09, 2021	Apr 09, 2021	Apr 09, 2021	Apr 09, 2021
Test/Reference	LOR	Unit				
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	-	-

Client Sample ID			TP201 0.5-0.6	TP400 0-0.3	TP402 0-0.3	TP204 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17182	S21-Ap17184	S21-Ap17188	S21-Ap17193
Date Sampled			Apr 09, 2021	Apr 09, 2021	Apr 09, 2021	Apr 09, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
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	0.1	mg/kg	-	< 0.1	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.2	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.2	-	-
Dibutylchlorendate (surr.)	1	%	-	82	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	95	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	< 0.5	-	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	-
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	%	-	82	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	95	-	-
% Moisture	1	%	20	22	22	8.6
Polycyclic Aromatic Hydrocarbons						
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
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
2-Fluorobiphenyl (surr.)	1	%	76	-	83	93
p-Terphenyl-d14 (surr.)	1	%	93	-	101	104

Client Sample ID			TP201 0.5-0.6	TP400 0-0.3	TP402 0-0.3	TP204 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17182	S21-Ap17184	S21-Ap17188	S21-Ap17193
Date Sampled			Apr 09, 2021	Apr 09, 2021	Apr 09, 2021	Apr 09, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	2.7	-	8.6	< 2
Cadmium	0.4	mg/kg	< 0.4	-	< 0.4	< 0.4
Chromium	5	mg/kg	18	-	22	14
Copper	5	mg/kg	34	-	31	33
Lead	5	mg/kg	13	-	29	8.4
Mercury	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Nickel	5	mg/kg	20	-	23	16
Zinc	5	mg/kg	72	-	74	51
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-C36 (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	%	108	101	-	-
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	-	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	-	-

Client Sample ID			TP212 2.6-2.9	TP212 0.5-0.6	TP205 0-0.2	TP220 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17194	S21-Ap17196	S21-Ap17197	S21-Ap17200
Date Sampled			Apr 01, 2021	Apr 01, 2021	Apr 01, 2021	Apr 07, 2021
Test/Reference	LOR	Unit				
Acid Herbicides						
2.4-D	0.5	mg/kg	-	-	-	< 0.5
2.4-DB	0.5	mg/kg	-	-	-	< 0.5
2.4.5-T	0.5	mg/kg	-	-	-	< 0.5
2.4.5-TP	0.5	mg/kg	-	-	-	< 0.5
Actril (loxynil)	0.5	mg/kg	-	-	-	< 0.5
Dicamba	0.5	mg/kg	-	-	-	< 0.5
Dichlorprop	0.5	mg/kg	-	-	-	< 0.5
Dinitro-o-cresol	0.5	mg/kg	-	-	-	< 0.5
Dinoseb	0.5	mg/kg	-	-	-	< 0.5
MCPA	0.5	mg/kg	-	-	-	< 0.5

Client Sample ID			TP212 2.6-2.9	TP212 0.5-0.6	TP205 0-0.2	TP220 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17194	S21-Ap17196	S21-Ap17197	S21-Ap17200
Date Sampled			Apr 01, 2021	Apr 01, 2021	Apr 01, 2021	Apr 07, 2021
Test/Reference	LOR	Unit				
Acid Herbicides						
MCPB	0.5	mg/kg	-	-	-	< 0.5
Mecoprop	0.5	mg/kg	-	-	-	< 0.5
Warfarin (surr.)	1	%	-	-	-	67
% Moisture	1	%	14	18	8.3	18
Polycyclic Aromatic Hydrocarbons						
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	-	-
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	-	-
2-Fluorobiphenyl (surr.)	1	%	85	82	-	-
p-Terphenyl-d14 (surr.)	1	%	98	96	-	-
Heavy Metals						
Arsenic	2	mg/kg	9.2	8.8	9.7	23
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	20	25	19	44
Copper	5	mg/kg	34	32	28	64
Lead	5	mg/kg	17	42	33	37
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	21	17	19	25
Zinc	5	mg/kg	67	82	76	110
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-C36 (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	-

Client Sample ID			TP212 2.6-2.9	TP212 0.5-0.6	TP205 0-0.2	TP220 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17194	S21-Ap17196	S21-Ap17197	S21-Ap17200
Date Sampled			Apr 01, 2021	Apr 01, 2021	Apr 01, 2021	Apr 07, 2021
Test/Reference	LOR	Unit				
BTEX						
Xylenes - Total*	0.3	mg/kg	< 0.3	-	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	101	-	106	-
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	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	< 100	-

Client Sample ID			TP222 0.4-0.5	TP227 0.4-0.5	TP463 4.3-4.4	TP211 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17201	S21-Ap17202	S21-Ap17208	S21-Ap17210
Date Sampled			Apr 07, 2021	Apr 07, 2021	Apr 09, 2021	Apr 09, 2021
Test/Reference	LOR	Unit				
Acid Herbicides						
2.4-D	0.5	mg/kg	< 0.5	< 0.5	-	-
2.4-DB	0.5	mg/kg	< 0.5	< 0.5	-	-
2.4.5-T	0.5	mg/kg	< 0.5	< 0.5	-	-
2.4.5-TP	0.5	mg/kg	< 0.5	< 0.5	-	-
Actril (loxynil)	0.5	mg/kg	< 0.5	< 0.5	-	-
Dicamba	0.5	mg/kg	< 0.5	< 0.5	-	-
Dichlorprop	0.5	mg/kg	< 0.5	< 0.5	-	-
Dinitro-o-cresol	0.5	mg/kg	< 0.5	< 0.5	-	-
Dinoseb	0.5	mg/kg	< 0.5	< 0.5	-	-
MCPA	0.5	mg/kg	< 0.5	< 0.5	-	-
MCPB	0.5	mg/kg	< 0.5	< 0.5	-	-
Mecoprop	0.5	mg/kg	< 0.5	< 0.5	-	-
Warfarin (surr.)	1	%	61	77	-	-
% Moisture	1	%	29	19	20	11
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

Client Sample ID			TP222 0.4-0.5	TP227 0.4-0.5	TP463 4.3-4.4	TP211 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17201	S21-Ap17202	S21-Ap17208	S21-Ap17210
Date Sampled			Apr 07, 2021	Apr 07, 2021	Apr 09, 2021	Apr 09, 2021
Test/Reference	LOR	Unit				
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
2-Fluorobiphenyl (surr.)	1	%	84	88	85	84
p-Terphenyl-d14 (surr.)	1	%	100	99	99	99
Heavy Metals						
Arsenic	2	mg/kg	-	11	14	9.0
Cadmium	0.4	mg/kg	-	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	-	20	23	19
Copper	5	mg/kg	-	31	59	28
Lead	5	mg/kg	-	16	23	42
Mercury	0.1	mg/kg	-	< 0.1	< 0.1	0.2
Nickel	5	mg/kg	-	10	29	12
Zinc	5	mg/kg	-	45	110	120

Client Sample ID			BH434_0.0-0.15	BH435_0.0-0.1	BH436_0.0-0.15	BH437_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap20355	S21-Ap20356	S21-Ap20357	S21-Ap20358
Date Sampled			Apr 09, 2021	Apr 09, 2021	Apr 09, 2021	Apr 09, 2021
Test/Reference	LOR	Unit				
% Moisture	1	%	18	25	21	18
Polycyclic Aromatic Hydrocarbons						
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
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
2-Fluorobiphenyl (surr.)	1	%	84	-	81	76
p-Terphenyl-d14 (surr.)	1	%	96	-	97	93

Client Sample ID			BH434_0.0-0.15	BH435_0.0-0.1	BH436_0.0-0.15	BH437_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap20355	S21-Ap20356	S21-Ap20357	S21-Ap20358
Date Sampled			Apr 09, 2021	Apr 09, 2021	Apr 09, 2021	Apr 09, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	7.7	-	-	8.1
Cadmium	0.4	mg/kg	< 0.4	-	-	< 0.4
Chromium	5	mg/kg	19	-	-	22
Copper	5	mg/kg	36	-	-	43
Lead	5	mg/kg	19	-	-	22
Mercury	0.1	mg/kg	< 0.1	-	-	< 0.1
Nickel	5	mg/kg	13	-	-	16
Zinc	5	mg/kg	83	-	-	99
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-C36 (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	%	-	90	104	-
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	-
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	< 100	-

Client Sample ID			BH437_0.3-0.4	BH440_0.0-0.2	BH440_0.4-0.5	BH441_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap20359	S21-Ap20362	S21-Ap20363	S21-Ap20364
Date Sampled			Apr 09, 2021	Apr 09, 2021	Apr 09, 2021	Apr 09, 2021
Test/Reference	LOR	Unit				
% Moisture	1	%	17	28	17	22
Polycyclic Aromatic Hydrocarbons						
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
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

Client Sample ID			BH437_0.3-0.4	BH440_0.0-0.2	BH440_0.4-0.5	BH441_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap20359	S21-Ap20362	S21-Ap20363	S21-Ap20364
Date Sampled			Apr 09, 2021	Apr 09, 2021	Apr 09, 2021	Apr 09, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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
2-Fluorobiphenyl (surr.)	1	%	-	82	-	83
p-Terphenyl-d14 (surr.)	1	%	-	97	-	102
Heavy Metals						
Arsenic	2	mg/kg	-	-	9.3	9.2
Cadmium	0.4	mg/kg	-	-	< 0.4	< 0.4
Chromium	5	mg/kg	-	-	21	22
Copper	5	mg/kg	-	-	41	42
Lead	5	mg/kg	-	-	23	25
Mercury	0.1	mg/kg	-	-	< 0.1	< 0.1
Nickel	5	mg/kg	-	-	15	16
Zinc	5	mg/kg	-	-	92	94
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-C36 (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	%	79	103	-	-
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	-	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	-	-

Client Sample ID			BH442_0.0-0.1	BH443_0.0-0.3	BH445_0.4-0.6	BH446_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap20365	S21-Ap20366	S21-Ap20368	S21-Ap20369
Date Sampled			Apr 09, 2021	Apr 09, 2021	Apr 09, 2021	Apr 09, 2021
Test/Reference	LOR	Unit				
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	0.1	mg/kg	< 0.1	-	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2	-	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2	-	-	-
Dibutylchlorendate (surr.)	1	%	72	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	92	-	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1221	0.1	mg/kg	< 0.1	-	-	-
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	%	72	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	92	-	-	-
% Moisture	1	%	24	20	20	22
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

Client Sample ID			BH442_0.0-0.1	BH443_0.0-0.3	BH445_0.4-0.6	BH446_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap20365	S21-Ap20366	S21-Ap20368	S21-Ap20369
Date Sampled			Apr 09, 2021	Apr 09, 2021	Apr 09, 2021	Apr 09, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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	%	93	86	82	85
p-Terphenyl-d14 (surr.)	1	%	87	79	91	100
Heavy Metals						
Arsenic	2	mg/kg	5.5	5.4	7.5	-
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	-
Chromium	5	mg/kg	15	13	24	-
Copper	5	mg/kg	24	28	38	-
Lead	5	mg/kg	16	15	21	-
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Nickel	5	mg/kg	11	9.9	16	-
Zinc	5	mg/kg	46	64	73	-
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-C36 (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	%	-	64	101	-
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	-
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	< 100	-

Client Sample ID			BH442_0.0-0.1	BH443_0.0-0.3	BH445_0.4-0.6	BH446_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap20365	S21-Ap20366	S21-Ap20368	S21-Ap20369
Date Sampled			Apr 09, 2021	Apr 09, 2021	Apr 09, 2021	Apr 09, 2021
Test/Reference	LOR	Unit				
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	-	< 0.5	-	-
2.4-Dichlorophenol	0.5	mg/kg	-	< 0.5	-	-
2.4.5-Trichlorophenol	1	mg/kg	-	< 1	-	-
2.4.6-Trichlorophenol	1	mg/kg	-	< 1	-	-
2.6-Dichlorophenol	0.5	mg/kg	-	< 0.5	-	-
4-Chloro-3-methylphenol	1	mg/kg	-	< 1	-	-
Pentachlorophenol	1	mg/kg	-	< 1	-	-
Tetrachlorophenols - Total	10	mg/kg	-	< 10	-	-
Total Halogenated Phenol*	1	mg/kg	-	< 1	-	-
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	-	< 20	-	-
2-Methyl-4.6-dinitrophenol	5	mg/kg	-	< 5	-	-
2-Methylphenol (o-Cresol)	0.2	mg/kg	-	< 0.2	-	-
2-Nitrophenol	1	mg/kg	-	< 1	-	-
2.4-Dimethylphenol	0.5	mg/kg	-	< 0.5	-	-
2.4-Dinitrophenol	5	mg/kg	-	< 5	-	-
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	-	< 0.4	-	-
4-Nitrophenol	5	mg/kg	-	< 5	-	-
Dinoseb	20	mg/kg	-	< 20	-	-
Phenol	0.5	mg/kg	-	< 0.5	-	-
Total Non-Halogenated Phenol*	20	mg/kg	-	< 20	-	-
Phenol-d6 (surr.)	1	%	-	58	-	-

Client Sample ID			BH447_0.0-0.15
Sample Matrix			Soil
Eurofins Sample No.			S21-Ap20370
Date Sampled			Apr 09, 2021
Test/Reference	LOR	Unit	
% Moisture	1	%	24
Polycyclic Aromatic Hydrocarbons			
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
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

Client Sample ID			BH447_0.0-0.15
Sample Matrix			**Soil**
Eurofins Sample No.			**S21-Ap20370**
Date Sampled			**Apr 09, 2021**
Test/Reference	LOR	Unit	
Polycyclic Aromatic Hydrocarbons			
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
2-Fluorobiphenyl (surr.)	1	%	87
p-Terphenyl-d14 (surr.)	1	%	97
Heavy Metals			
Arsenic	2	mg/kg	7.4
Cadmium	0.4	mg/kg	< 0.4
Chromium	5	mg/kg	23
Copper	5	mg/kg	32
Lead	5	mg/kg	20
Mercury	0.1	mg/kg	< 0.1
Nickel	5	mg/kg	13
Zinc	5	mg/kg	58

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
Organochlorine Pesticides	Sydney	Apr 17, 2021	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Polychlorinated Biphenyls	Sydney	Apr 17, 2021	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Acid Herbicides	Melbourne	Apr 16, 2021	14 Days
- Method: LTM-ORG-2180 Phenoxy Acid Herbicides			
% Clay	Brisbane	Apr 19, 2021	14 Days
- Method: LTM-GEN-7040			
pH (1:5 Aqueous extract at 25°C as rec.)	Sydney	Apr 17, 2021	7 Days
- Method: LTM-GEN-7090 pH in soil by ISE			
% Moisture	Sydney	Apr 14, 2021	14 Days
- Method: LTM-GEN-7080 Moisture			
Conductivity (1:5 aqueous extract at 25°C as rec.)	Sydney	Apr 17, 2021	7 Days
- Method: LTM-INO-4030 Conductivity			
Cation Exchange Capacity	Melbourne	Apr 20, 2021	180 Days
- Method: LTM-MET-3060 Cation Exchange Capacity by bases & Exchangeable Sodium Percentage			
Polycyclic Aromatic Hydrocarbons	Sydney	Apr 17, 2021	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Metals M8	Sydney	Apr 17, 2021	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Apr 17, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Apr 17, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Apr 17, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Apr 17, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Phenols (Halogenated)	Sydney	Apr 17, 2021	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Phenols (non-Halogenated)	Sydney	Apr 17, 2021	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**															
1	BH273 0-0.2	Apr 09, 2021		Soil	S21-Ap17173							X		X	X					
2	BH273 0.4-0.5	Apr 09, 2021		Soil	S21-Ap17174	X				X	X		X		X	X				
3	BH274 0-0.2	Apr 09, 2021		Soil	S21-Ap17175								X		X					
4	BH275 0-0.2	Apr 09, 2021		Soil	S21-Ap17176						X	X	X		X					
5	BH276 0.4-0.5	Apr 09, 2021		Soil	S21-Ap17177										X				X	
6	BH293 0.6-0.7	Apr 09, 2021		Soil	S21-Ap17178						X		X		X					
7	TP215-1.7-1.8	Apr 09, 2021		Soil	S21-Ap17179						X				X			X		
8	TP201 0-0.2AQ	Apr 09, 2021		Soil	S21-Ap17180		X													

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
9	TP201 0-0.2	Apr 09, 2021		Soil	S21-Ap17181						X		X		X					
10	TP201 0.5-0.6	Apr 09, 2021		Soil	S21-Ap17182										X		X			
11	TP400 0-0.3	Apr 09, 2021		Soil	S21-Ap17183		X													
12	TP400 0-0.3	Apr 09, 2021		Soil	S21-Ap17184									X	X			X		
13	TP401 0-0.3	Apr 09, 2021		Soil	S21-Ap17185		X													
14	TP401 0-0.3	Apr 09, 2021		Soil	S21-Ap17186			X												
15	TP402 0-0.3	Apr 09, 2021		Soil	S21-Ap17187		X													
16	TP402 0-0.3	Apr 09, 2021		Soil	S21-Ap17188						X		X		X					
17	TP405 0-0.4	Apr 09, 2021		Soil	S21-Ap17189		X													
18	TP404 0-0.4	Apr 09, 2021		Soil	S21-Ap17190		X													
19	TP403 0-0.3	Apr 09, 2021		Soil	S21-Ap17191		X													

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
20	TP204 0-0.1	Apr 09, 2021		Soil	S21-Ap17192		X													
21	TP204 0-0.1	Apr 09, 2021		Soil	S21-Ap17193						X		X		X					
22	TP212 2.6-2.9	Apr 01, 2021		Soil	S21-Ap17194										X		X			
23	TP212 1-1.1	Apr 01, 2021		Soil	S21-Ap17195		X													
24	TP212 0.5-0.6	Apr 01, 2021		Soil	S21-Ap17196						X		X		X					
25	TP205 0-0.2	Apr 01, 2021		Soil	S21-Ap17197										X				X	
26	TRIP SPIKE	Apr 09, 2021		Water	S21-Ap17198			X												
27	TRIP BLANK	Apr 09, 2021		Water	S21-Ap17199			X												
28	TP220 0-0.1	Apr 07, 2021		Soil	S21-Ap17200							X	X		X					
29	TP222 0.4-0.5	Apr 07, 2021		Soil	S21-Ap17201						X	X			X					
30	TP227 0.4-0.5	Apr 07, 2021		Soil	S21-Ap17202						X	X	X		X					

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
31	TP464 1.6-2.3	Apr 09, 2021		Soil	S21-Ap17203		X													
32	TP453 0-0.9	Apr 09, 2021		Soil	S21-Ap17204		X													
33	TP462 2-3	Apr 09, 2021		Soil	S21-Ap17205		X													
34	TP463 0.8-1.8	Apr 09, 2021		Soil	S21-Ap17206		X													
35	TP463 2.8-3.8	Apr 09, 2021		Soil	S21-Ap17207		X													
36	TP463 4.3-4.4	Apr 09, 2021		Soil	S21-Ap17208						X		X		X					
37	TP448 0-0.3	Apr 09, 2021		Soil	S21-Ap17209		X													
38	TP211 0-0.1	Apr 09, 2021		Soil	S21-Ap17210						X		X		X					
39	BH274 0.4-0.5	Apr 09, 2021		Soil	S21-Ap17211				X											
40	BH275 0.4-0.5	Apr 09, 2021		Soil	S21-Ap17212				X											
41	BH276 0-0.2	Apr 09, 2021		Soil	S21-Ap17213				X											

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

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1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
42	BH273 0-0.2	Apr 09, 2021		Soil	S21-Ap17214				X											
43	TP214-0-0.1	Apr 09, 2021		Soil	S21-Ap17215				X											
44	TP214-0.4-0.5	Apr 09, 2021		Soil	S21-Ap17216				X											
45	TP215-0-0.1	Apr 09, 2021		Soil	S21-Ap17217				X											
46	TP215-0.4-0.5	Apr 09, 2021		Soil	S21-Ap17218				X											
47	TP215-1-1	Apr 09, 2021		Soil	S21-Ap17219				X											
48	TP219-0-0.1	Apr 09, 2021		Soil	S21-Ap17220				X											
49	TP219-0.4-0.5	Apr 09, 2021		Soil	S21-Ap17221				X											
50	TP400 0.4-0.6	Apr 09, 2021		Soil	S21-Ap17222				X											
51	TP401 0.4-0.6	Apr 09, 2021		Soil	S21-Ap17223				X											
52	TP402 0.4-0.6	Apr 09, 2021		Soil	S21-Ap17224				X											

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
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Lane Cove West NSW 2066
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NATA # 1261
Site # 23736

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Sydney
NSW 2000

Project Name: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
53	TP458 0-0.9	Apr 09, 2021		Soil	S21-Ap17225				X											
54	TP204 0.4-0.5	Apr 09, 2021		Soil	S21-Ap17226				X											
55	TP212 1-1.1	Apr 01, 2021		Soil	S21-Ap17227			X												
56	TP212 1-1.1	Apr 01, 2021		Soil	S21-Ap17228				X											
57	TP212 2-2.1	Apr 01, 2021		Soil	S21-Ap17229				X											
58	TP212 0-0.1	Apr 01, 2021		Soil	S21-Ap17230				X											
59	TP205 0.4-0.5	Apr 01, 2021		Soil	S21-Ap17231				X											
60	TP220 0.4-0.5	Apr 07, 2021		Soil	S21-Ap17232				X											
61	TP226 0.1-0.2	Apr 07, 2021		Soil	S21-Ap17233				X											
62	TP226 0.4-0.5	Apr 07, 2021		Soil	S21-Ap17234				X											
63	TP222 0.1-0.2	Apr 07, 2021		Soil	S21-Ap17235				X											

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
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New Zealand

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Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
64	TP227 0-0.1	Apr 07, 2021		Soil	S21-Ap17236				X											
65	TP464 1-1.6	Apr 09, 2021		Soil	S21-Ap17237				X											
66	TP464 2.3-2.4	Apr 09, 2021		Soil	S21-Ap17238				X											
67	TP462 0-1	Apr 09, 2021		Soil	S21-Ap17239				X											
68	TP462 1-2	Apr 09, 2021		Soil	S21-Ap17240				X											
69	TP462 3-3.8	Apr 09, 2021		Soil	S21-Ap17241				X											
70	TP463 0-0.8	Apr 09, 2021		Soil	S21-Ap17242				X											
71	TP463 1.8-2.8	Apr 09, 2021		Soil	S21-Ap17243				X											
72	TP463 3.8-4.2	Apr 09, 2021		Soil	S21-Ap17244				X											
73	TP463 4.2-4.7	Apr 09, 2021		Soil	S21-Ap17245				X											
74	TP211 0.6-0.7	Apr 09, 2021		Soil	S21-Ap17246				X											

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Perth
46-48 Banksia Road
Welshpool WA 6106
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NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
35 O'Rorke Road
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Christchurch
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Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
75	TP212 0.5-0.6	Apr 09, 2021		Soil	S21-Ap17247				X											
76	TP212 0-0.01	Apr 09, 2021		Soil	S21-Ap17248				X											
77	BH434_0.0-0.15	Apr 09, 2021		Soil	S21-Ap20355		X				X		X		X					
78	BH435_0.0-0.1	Apr 09, 2021		Soil	S21-Ap20356		X								X			X		
79	BH436_0.0-0.15	Apr 09, 2021		Soil	S21-Ap20357		X				X				X			X		
80	BH437_0.0-0.2	Apr 09, 2021		Soil	S21-Ap20358		X				X		X		X					
81	BH437_0.3-0.4	Apr 09, 2021		Soil	S21-Ap20359										X			X		
82	BH438_0.0-0.2	Apr 09, 2021		Soil	S21-Ap20360		X													
83	BH439_0.0-0.15	Apr 09, 2021		Soil	S21-Ap20361		X													

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Australia

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Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
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Christchurch
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Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
84	BH440_0.0-0.2	Apr 09, 2021		Soil	S21-Ap20362		X				X				X			X		
85	BH440_0.4-0.5	Apr 09, 2021		Soil	S21-Ap20363								X		X					
86	BH441_0.0-0.2	Apr 09, 2021		Soil	S21-Ap20364						X		X		X					
87	BH442_0.0-0.1	Apr 09, 2021		Soil	S21-Ap20365		X				X		X	X	X					
88	BH443_0.0-0.3	Apr 09, 2021		Soil	S21-Ap20366		X								X					X
89	BH444_0.0-0.3	Apr 09, 2021		Soil	S21-Ap20367		X													
90	BH445_0.4-0.6	Apr 09, 2021		Soil	S21-Ap20368										X		X			
91	BH446_0.0-0.2	Apr 09, 2021		Soil	S21-Ap20369		X				X				X					
92	BH447_0.0-0.15	Apr 09, 2021		Soil	S21-Ap20370		X				X		X		X					
93	BH434_0.2-0.3	Apr 09, 2021		Soil	S21-Ap20371				X											

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Australia

Melbourne
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Site # 1254 & 14271

Sydney
Unit F3, Building F
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Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
94	BH435_0.3-0.4	Apr 09, 2021		Soil	S21-Ap20372				X											
95	BH436_0.2-0.3	Apr 09, 2021		Soil	S21-Ap20373				X											
96	BH438_0.2-0.4	Apr 09, 2021		Soil	S21-Ap20374				X											
97	BH439_0.2-0.4	Apr 09, 2021		Soil	S21-Ap20375				X											
98	BH441_0.3-0.4	Apr 09, 2021		Soil	S21-Ap20376				X											
99	BH442_0.3-0.4	Apr 09, 2021		Soil	S21-Ap20377				X											
100	BH443_0.5-0.6	Apr 09, 2021		Soil	S21-Ap20378				X											
101	BH444_0.5-0.6	Apr 09, 2021		Soil	S21-Ap20379				X											
102	BH446_0.3-0.6	Apr 09, 2021		Soil	S21-Ap20380				X											
103	BH447_0.2-0.4	Apr 09, 2021		Soil	S21-Ap20381				X											
104	BH445_0.0-0.2	Apr 09, 2021		Soil	S21-Ap20549				X											

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Australia

Melbourne
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Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
105	TP200_0.4-0.5	Apr 09, 2021		Soil	S21-Ap22373				X											
106	TP213_0.3-0.4	Apr 09, 2021		Soil	S21-Ap22374				X											
107	BH221_0.3-0.4-0.5	Apr 09, 2021		Soil	S21-Ap22375				X											
108	TP200_0.0-0.4AQ	Apr 09, 2021		Soil	S21-Ap22376				X											
109	TP213_0.0-0.1	Apr 09, 2021		Soil	S21-Ap22377				X											
110	TP214_0.0-0.2	Apr 09, 2021		Soil	S21-Ap22378				X											
111	BH221_0.0-0.1	Apr 09, 2021		Soil	S21-Ap22379				X											
112	TP463_0.8-1.8	Apr 09, 2021		Soil	S21-Ap22380				X											
113	TP463_2.8-3.8AQ	Apr 09, 2021		Soil	S21-Ap22381				X											

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Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
114	TP464_0.0-1.0AQ	Apr 09, 2021		Soil	S21-Ap22382				X											
Test Counts						1	27	6	59	1	20	5	18	3	33	1	5	6	2	1

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.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

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 and 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.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
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 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

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, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene 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 Aroclor 1260 in Matrix Spikes and LCS.
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 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							
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	
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	< 0.1			0.1	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.5			0.5	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	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							
Conductivity (1:5 aqueous extract at 25°C as rec.)	uS/cm	< 10			10	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	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
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	
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 >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							
Phenols (Halogenated)							
2-Chlorophenol	mg/kg	< 0.5			0.5	Pass	
2.4-Dichlorophenol	mg/kg	< 0.5			0.5	Pass	
2.4.5-Trichlorophenol	mg/kg	< 1			1	Pass	
2.4.6-Trichlorophenol	mg/kg	< 1			1	Pass	
2.6-Dichlorophenol	mg/kg	< 0.5			0.5	Pass	
4-Chloro-3-methylphenol	mg/kg	< 1			1	Pass	
Pentachlorophenol	mg/kg	< 1			1	Pass	
Tetrachlorophenols - Total	mg/kg	< 10			10	Pass	
Method Blank							
Phenols (non-Halogenated)							
2-Cyclohexyl-4.6-dinitrophenol	mg/kg	< 20			20	Pass	
2-Methyl-4.6-dinitrophenol	mg/kg	< 5			5	Pass	
2-Methylphenol (o-Cresol)	mg/kg	< 0.2			0.2	Pass	
2-Nitrophenol	mg/kg	< 1			1	Pass	
2.4-Dimethylphenol	mg/kg	< 0.5			0.5	Pass	
2.4-Dinitrophenol	mg/kg	< 5			5	Pass	
3&4-Methylphenol (m&p-Cresol)	mg/kg	< 0.4			0.4	Pass	
4-Nitrophenol	mg/kg	< 5			5	Pass	
Dinoseb	mg/kg	< 20			20	Pass	
Phenol	mg/kg	< 0.5			0.5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	92			70-130	Pass	
4.4'-DDD	%	83			70-130	Pass	
4.4'-DDE	%	89			70-130	Pass	
4.4'-DDT	%	90			70-130	Pass	
a-BHC	%	93			70-130	Pass	
Aldrin	%	88			70-130	Pass	
b-BHC	%	96			70-130	Pass	
d-BHC	%	98			70-130	Pass	
Dieldrin	%	93			70-130	Pass	
Endosulfan I	%	89			70-130	Pass	
Endosulfan II	%	111			70-130	Pass	
Endosulfan sulphate	%	78			70-130	Pass	
Endrin	%	90			70-130	Pass	
Endrin aldehyde	%	84			70-130	Pass	
Endrin ketone	%	91			70-130	Pass	
g-BHC (Lindane)	%	94			70-130	Pass	
Heptachlor	%	89			70-130	Pass	
Heptachlor epoxide	%	95			70-130	Pass	
Hexachlorobenzene	%	75			70-130	Pass	
Methoxychlor	%	84			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1016	%	78			70-130	Pass	
Aroclor-1260	%	95			70-130	Pass	
LCS - % Recovery							
Conductivity (1:5 aqueous extract at 25°C as rec.)	%	99			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	84			70-130	Pass	
Acenaphthylene	%	92			70-130	Pass	
Anthracene	%	86			70-130	Pass	
Benz(a)anthracene	%	95			70-130	Pass	
Benzo(a)pyrene	%	104			70-130	Pass	
Benzo(b&j)fluoranthene	%	111			70-130	Pass	
Benzo(g.h.i)perylene	%	93			70-130	Pass	
Benzo(k)fluoranthene	%	82			70-130	Pass	
Chrysene	%	91			70-130	Pass	
Dibenz(a.h)anthracene	%	90			70-130	Pass	
Fluoranthene	%	97			70-130	Pass	
Fluorene	%	88			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	86			70-130	Pass	
Naphthalene	%	94			70-130	Pass	
Phenanthrene	%	86			70-130	Pass	
Pyrene	%	97			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	108			80-120	Pass	
Cadmium	%	107			80-120	Pass	
Chromium	%	107			80-120	Pass	
Copper	%	105			80-120	Pass	
Lead	%	109			80-120	Pass	
Mercury	%	118			80-120	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Nickel	%	106			80-120	Pass	
Zinc	%	106			80-120	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	101			70-130	Pass	
TRH C10-C14	%	95			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	101			70-130	Pass	
Toluene	%	104			70-130	Pass	
Ethylbenzene	%	101			70-130	Pass	
m&p-Xylenes	%	108			70-130	Pass	
o-Xylene	%	105			70-130	Pass	
Xylenes - Total*	%	107			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	70			70-130	Pass	
TRH C6-C10	%	99			70-130	Pass	
TRH >C10-C16	%	92			70-130	Pass	
LCS - % Recovery							
Phenols (Halogenated)							
2-Chlorophenol	%	82			30-130	Pass	
2.4-Dichlorophenol	%	80			30-130	Pass	
2.4.6-Trichlorophenol	%	75			30-130	Pass	
2.6-Dichlorophenol	%	87			30-130	Pass	
LCS - % Recovery							
Phenols (non-Halogenated)							
2-Methylphenol (o-Cresol)	%	75			30-130	Pass	
2-Nitrophenol	%	76			30-130	Pass	
3&4-Methylphenol (m&p-Cresol)	%	74			30-130	Pass	
Phenol	%	78			30-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S21-Ap17173	CP	%	92			70-130	Pass	
4.4'-DDD	S21-Ap17173	CP	%	91			70-130	Pass	
4.4'-DDE	S21-Ap17173	CP	%	90			70-130	Pass	
4.4'-DDT	S21-Ap17173	CP	%	87			70-130	Pass	
a-BHC	S21-Ap17173	CP	%	89			70-130	Pass	
Aldrin	S21-Ap17173	CP	%	85			70-130	Pass	
b-BHC	S21-Ap17173	CP	%	92			70-130	Pass	
d-BHC	S21-Ap17173	CP	%	94			70-130	Pass	
Dieldrin	S21-Ap17173	CP	%	93			70-130	Pass	
Endosulfan I	S21-Ap17173	CP	%	86			70-130	Pass	
Endosulfan II	S21-Ap17173	CP	%	97			70-130	Pass	
Endosulfan sulphate	S21-Ap17173	CP	%	85			70-130	Pass	
Endrin	S21-Ap17173	CP	%	93			70-130	Pass	
Endrin aldehyde	S21-Ap17173	CP	%	73			70-130	Pass	
Endrin ketone	S21-Ap17173	CP	%	90			70-130	Pass	
g-BHC (Lindane)	S21-Ap17173	CP	%	94			70-130	Pass	
Heptachlor	S21-Ap17173	CP	%	88			70-130	Pass	
Heptachlor epoxide	S21-Ap17173	CP	%	92			70-130	Pass	
Hexachlorobenzene	S21-Ap17173	CP	%	78			70-130	Pass	
Methoxychlor	S21-Ap17173	CP	%	80			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1016	S21-Ap19189	NCP	%	86			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S21-Ap17173	CP	%	99			70-130	Pass	
Acenaphthylene	S21-Ap17173	CP	%	93			70-130	Pass	
Anthracene	S21-Ap17173	CP	%	92			70-130	Pass	
Benz(a)anthracene	S21-Ap17173	CP	%	84			70-130	Pass	
Benzo(a)pyrene	S21-Ap17173	CP	%	86			70-130	Pass	
Benzo(b&j)fluoranthene	S21-Ap17173	CP	%	91			70-130	Pass	
Benzo(k)fluoranthene	S21-Ap17173	CP	%	92			70-130	Pass	
Chrysene	S21-Ap17173	CP	%	99			70-130	Pass	
Dibenz(a.h)anthracene	S21-Ap17173	CP	%	85			70-130	Pass	
Fluoranthene	S21-Ap17173	CP	%	97			70-130	Pass	
Fluorene	S21-Ap17173	CP	%	99			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S21-Ap17173	CP	%	81			70-130	Pass	
Naphthalene	S21-Ap17173	CP	%	96			70-130	Pass	
Phenanthrene	S21-Ap17173	CP	%	100			70-130	Pass	
Pyrene	S21-Ap17173	CP	%	98			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S21-Ap25272	NCP	%	90			75-125	Pass	
Cadmium	S21-Ap25272	NCP	%	97			75-125	Pass	
Chromium	S21-Ap25272	NCP	%	77			75-125	Pass	
Copper	S21-Ap25272	NCP	%	75			75-125	Pass	
Lead	S21-Ap25272	NCP	%	75			75-125	Pass	
Mercury	S21-Ap25272	NCP	%	82			75-125	Pass	
Nickel	S21-Ap25272	NCP	%	78			75-125	Pass	
Zinc	S21-Ap16694	NCP	%	122			75-125	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S21-Ap19128	NCP	%	89			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S21-Ap19128	NCP	%	101			70-130	Pass	
Toluene	S21-Ap19128	NCP	%	105			70-130	Pass	
Ethylbenzene	S21-Ap19128	NCP	%	102			70-130	Pass	
m&p-Xylenes	S21-Ap19128	NCP	%	104			70-130	Pass	
o-Xylene	S21-Ap19128	NCP	%	105			70-130	Pass	
Xylenes - Total*	S21-Ap19128	NCP	%	105			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S21-Ap24490	NCP	%	113			70-130	Pass	
TRH C6-C10	S21-Ap19128	NCP	%	85			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C10-C14	S21-Ap17179	CP	%	75			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH >C10-C16	S21-Ap17179	CP	%	72			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S21-Ap17210	CP	%	86			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Acenaphthylene	S21-Ap17210	CP	%	91			70-130	Pass	
Anthracene	S21-Ap17210	CP	%	85			70-130	Pass	
Benz(a)anthracene	S21-Ap17210	CP	%	97			70-130	Pass	
Benzo(a)pyrene	S21-Ap17210	CP	%	103			70-130	Pass	
Benzo(b&j)fluoranthene	S21-Ap17210	CP	%	112			70-130	Pass	
Benzo(g.h.i)perylene	S21-Ap17210	CP	%	88			70-130	Pass	
Benzo(k)fluoranthene	S21-Ap17210	CP	%	85			70-130	Pass	
Chrysene	S21-Ap17210	CP	%	93			70-130	Pass	
Dibenz(a.h)anthracene	S21-Ap17210	CP	%	96			70-130	Pass	
Fluoranthene	S21-Ap17210	CP	%	99			70-130	Pass	
Fluorene	S21-Ap17210	CP	%	90			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S21-Ap17210	CP	%	95			70-130	Pass	
Naphthalene	S21-Ap17210	CP	%	95			70-130	Pass	
Phenanthrene	S21-Ap17210	CP	%	86			70-130	Pass	
Pyrene	S21-Ap17210	CP	%	98			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	S21-Ap13529	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S21-Ap13529	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S21-Ap13529	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S21-Ap13529	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-BHC	S21-Ap13529	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S21-Ap13529	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	S21-Ap13529	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-BHC	S21-Ap13529	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S21-Ap13529	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S21-Ap13529	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S21-Ap13529	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S21-Ap13529	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S21-Ap13529	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S21-Ap13529	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S21-Ap13529	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	S21-Ap13529	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S21-Ap13529	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S21-Ap13529	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S21-Ap13529	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S21-Ap13529	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	S21-Ap13529	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1221	S21-Ap13529	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	S21-Ap13529	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1242	S21-Ap13529	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1248	S21-Ap13529	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1254	S21-Ap13529	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1260	S21-Ap13529	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Conductivity (1:5 aqueous extract at 25°C as rec.)	S21-Ap16725	NCP	uS/cm	780	780	<1	30%	Pass	
pH (1:5 Aqueous extract at 25°C as rec.)	S21-Ap16725	NCP	pH Units	8.2	8.1	<1	30%	Pass	

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-Ap17177	CP	mg/kg	14	11	20	30%	Pass	
Cadmium	S21-Ap17177	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S21-Ap17177	CP	mg/kg	29	24	20	30%	Pass	
Copper	S21-Ap17177	CP	mg/kg	24	20	18	30%	Pass	
Lead	S21-Ap17177	CP	mg/kg	18	15	18	30%	Pass	
Mercury	S21-Ap17177	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S21-Ap17177	CP	mg/kg	8.4	6.4	27	30%	Pass	
Zinc	S21-Ap17177	CP	mg/kg	37	31	19	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C10-C14	S21-Ap10200	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S21-Ap10200	NCP	mg/kg	61	64	5.0	30%	Pass	
TRH C29-C36	S21-Ap10200	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
TRH >C10-C16	S21-Ap10200	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S21-Ap10200	NCP	mg/kg	100	110	2.0	30%	Pass	
TRH >C34-C40	S21-Ap10200	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S21-Ap17178	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S21-Ap17178	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S21-Ap17178	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S21-Ap17178	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S21-Ap17178	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S21-Ap17178	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S21-Ap17178	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S21-Ap17178	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S21-Ap17178	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S21-Ap17178	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S21-Ap17178	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S21-Ap17178	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S21-Ap17178	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S21-Ap17178	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S21-Ap17178	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S21-Ap17178	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-Ap17184	CP	%	22	22	1.0	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-Ap17210	CP	%	11	10	5.0	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S21-Ap20366	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S21-Ap20366	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S21-Ap20366	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S21-Ap20366	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S21-Ap20366	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S21-Ap20366	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S21-Ap20366	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	

Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S21-Ap20366	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S21-Ap20366	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S21-Ap20369	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S21-Ap20369	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S21-Ap20369	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S21-Ap20369	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S21-Ap20369	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S21-Ap20369	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S21-Ap20369	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S21-Ap20369	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S21-Ap20369	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S21-Ap20369	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S21-Ap20369	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S21-Ap20369	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S21-Ap20369	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S21-Ap20369	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S21-Ap20369	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S21-Ap20369	CP	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
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

Authorised by:

Ursula Long	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)
Charl Du Preez	Senior Analyst-Inorganic (NSW)
Emily Rosenberg	Senior Analyst-Metal (VIC)
John Nguyen	Senior Analyst-Metal (NSW)
Jonathon Angell	Senior Analyst-Inorganic (QLD)
Joseph Edouard	Senior Analyst-Organic (VIC)

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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Grace Tuckwell

From: #AU04_Enviro_Sample_NSW
Subject: FW: Eurofins Test Results - Report 786604 : Site KEMPS CREEK DSI (60482)

From: Ryan Lill <rlill@jbsg.com.au>
Sent: Wednesday, 21 April 2021 6:05 PM
To: Ursula Long <UrsulaLong@eurofins.com>
Cc: Christopher Dagger <cdagger@jbsg.com.au>
Subject: RE: Eurofins Test Results - Report 786604 : Site KEMPS CREEK DSI (60482)

EXTERNAL EMAIL*

Hi Ursula,

Could I have the following sample analysed for asbestos on 3 day TAT – TP458_0-0.9 / 21-Ap17225

Kind Regards,
Ryan

Ryan Lill | Project Manager | JBS&G
Sydney | Melbourne | Adelaide | Perth | Brisbane | Canberra | Darwin | Wollongong | Bunbury
Level 1, 50 Margaret Street Sydney NSW 2000
T: 02 8245 0300 | M: 0468 771 734 | E: rlill@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
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From: UrsulaLong@eurofins.com <UrsulaLong@eurofins.com>
Sent: Wednesday, 21 April 2021 2:02 PM
To: Ryan Lill <rlill@jbsg.com.au>
Cc: Christopher Dagger <cdagger@jbsg.com.au>
Subject: Eurofins Test Results - Report 786604 : Site KEMPS CREEK DSI (60482)

[EXTERNAL EMAIL] Stop and think before opening attachments, clicking or responding.

Please find attached final results for your project in the subject header.

Regards

Ursula Long

Eurofins
Unit F3, Parkview Building
16 Mars Road
LANE COVE WEST NSW 2066

AUSTRALIA
Phone: +61 428 845 495
Email: UrsulaLong@eurofins.com
Website:environment.eurofins.com.au
EnviroNote 1108 - Emissions from Stationary Sources
EnviroNote 1103 - NATA Accreditation for Dioxins

Click here to report this email as spam.

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ABN: 50 005 085 521 www.eurofins.com.au EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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:	Ryan Lill
Project name:	ADDITIONAL KEMPS CREEK DSI
Project ID:	60482
Turnaround time:	3 Day
Date/Time received	Apr 21, 2021 6:05 PM
Eurofins reference	789056

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 Sample Receipt : 1.5 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:

Ursula Long on phone : or by email: UrsulaLong@eurofins.com

Results will be delivered electronically via email to Ryan Lill - rlill@jbsg.com.au.

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
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Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
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Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

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Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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	**Order No.:**	
Address:	Level 1, 50 Margaret St Sydney NSW 2000	**Report #:**	789056
		Phone:	02 8245 0300
		Fax:	
Project Name:	ADDITIONAL KEMPS CREEK DSI		
Project ID:	60482		

Received:	Apr 21, 2021 6:05 PM	
Due:	Apr 26, 2021	
Priority:	3 Day	
Contact Name:	Ryan Lill	

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines
Melbourne Laboratory - NATA Site # 1254 & 14271						
Sydney Laboratory - NATA Site # 18217						X
Brisbane Laboratory - NATA Site # 20794						
Perth Laboratory - NATA Site # 23736						
Mayfield Laboratory						
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	TP458_0-0.9	Apr 09, 2021		Soil	S21-Ap35665	X
Test Counts						1

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 and proficiency testing scheme providers reports.

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention:	Ryan Lill
Report	789056-AID
Project Name	ADDITIONAL KEMPS CREEK DSI
Project ID	60482
Received Date	Apr 21, 2021
Date Reported	Apr 26, 2021

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.*

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 and proficiency testing scheme providers reports.

Project Name ADDITIONAL KEMPS CREEK DSI
Project ID 60482
Date Sampled Apr 09, 2021
Report 789056-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
TP458_0-0.9	21-Ap35665	Apr 09, 2021	Approximate Sample 403g Sample consisted of: Brown coarse-grained soil, bitumen, plaster 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	Apr 21, 2021	Indefinite

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

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1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

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46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

New Zealand

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: ADDITIONAL KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 789056
Phone: 02 8245 0300
Fax:

Received: Apr 21, 2021 6:05 PM
Due: Apr 26, 2021
Priority: 3 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines
Melbourne Laboratory - NATA Site # 1254 & 14271						
Sydney Laboratory - NATA Site # 18217						X
Brisbane Laboratory - NATA Site # 20794						
Perth Laboratory - NATA Site # 23736						
Mayfield Laboratory - NATA Site # 25079						
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	TP458_0-0.9	Apr 09, 2021		Soil	S21-Ap35665	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 blue colour, 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 '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 Advice.

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: weight for weight basis	grams per kilogram
Filter loading:	fibres/100 graticule areas
Reported Concentration:	fibres/mL
Flowrate:	L/min

Terms

Dry	Sample is dried by heating prior to analysis
LOR	Limit of Reporting
COC	Chain of Custody
SRA	Sample Receipt Advice
ISO	International Standards Organisation
AS	Australian Standards
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 (2009), including supporting document Recommended Procedures for Laboratory Analysis of Asbestos in Soil (2011)
NEPM	National Environment Protection (Assessment of Site Contamination) Measure, 2013 (as amended)
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded and/or sound condition. For the purposes of the NEPM, ACM is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
AF	Asbestos Fines. Asbestos containing materials, including friable, weathered and bonded materials, able to pass a 7mm x 7mm sieve. Considered under the NEPM as equivalent to “non-bonded / friable”.
FA	Fibrous Asbestos. Asbestos containing materials in a friable and/or severely weathered condition. For the purposes of the NEPM, FA is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
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.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres in the matrix.

Comments

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	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N/A	Not applicable

Asbestos Counter/Identifier:

Laxman Dias	Senior Analyst-Asbestos (NSW)

Authorised by:

Chamath JHM Annakkage	Senior Analyst-Asbestos (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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1 of 2

Chain of Custody

JBS&G

PROJECT NO.: 66105	LABORATORY BATCH NO.:
PROJECT NAME: ALDINGTON - 02	SAMPLERS: MASSIMO CHAPMAN
DATE NEEDED BY: 3 Day TAT	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) .....SKnott.....@jbsg.com.au; (3) ...mchapman.....@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:
1e - 01	SOIL	20/3/24		BAG.		X		X	
02						X			
03						X			
04						X			
05						X			
06						X			
07						X			
08						X			
09						X			
10						X			
11						X			
12						X			
13						X			
14						X			
15						X			
16						X			
17						X			
18						X			
19						X			

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: MASSIMO CHAPMAN DATE: 20/3/24	CONSIGNMENT NOTE NO.	NAME: Matt Knott	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 20/3 6:30pm	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

1080081

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2 of 2

Chain of Custody

JBS&G

PROJECT NO.: 66105	LABORATORY BATCH NO.:
PROJECT NAME: ALDINGTON - 02	SAMPLERS: MASSIMO CHAPMAN
DATE NEEDED BY:	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) .....skraatt.....@jbsg.com.au; (3) .....mchapman.....@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:
1e - 20	SOIL	20/3/24		Bottle		X		X	
↓ 21	↓	↓		↓		X		X	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: MASSIMO CHAPMAN DATE: 20/3/24	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

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

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ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
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NATA# 2377
Site# 2370

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NZBN: 9429046024954

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+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Samuel Knott
Project name:	ALDINGTON-02
Project ID:	66105
Turnaround time:	3 Day
Date/Time received	Mar 20, 2024 6:38 PM
Eurofins reference	1080081

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 Samuel Knott - sknott@jbsg.com.au.

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: ALDINGTON-02
Project ID: 66105

Order No.:
Report #: 1080081
Phone: 02 8245 0300
Fax:

Received: Mar 20, 2024 6:38 PM
Due: Mar 25, 2024
Priority: 3 Day
Contact Name: Samuel Knott

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	1E - 1	Mar 20, 2024		Building Materials	S24-Ma0049133	X
2	1E - 2	Mar 20, 2024		Building Materials	S24-Ma0049134	X
3	1E - 3	Mar 20, 2024		Building Materials	S24-Ma0049135	X
4	1E - 4	Mar 20, 2024		Building Materials	S24-Ma0049136	X
5	1E - 5	Mar 20, 2024		Building Materials	S24-Ma0049137	X
6	1E - 6	Mar 20, 2024		Soil	S24-Ma0049138	X
7	1E - 7	Mar 20, 2024		Soil	S24-Ma0049139	X
8	1E - 8	Mar 20, 2024		Soil	S24-Ma0049140	X
9	1E - 9	Mar 20, 2024		Soil	S24-Ma0049141	X
10	1E - 10	Mar 20, 2024		Soil	S24-Ma0049142	X

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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

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Due: Mar 25, 2024
Priority: 3 Day
Contact Name: Samuel Knott

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
11	1E - 11	Mar 20, 2024		Soil	S24-Ma0049143	X
12	1E - 12	Mar 20, 2024		Soil	S24-Ma0049144	X
13	1E - 13	Mar 20, 2024		Soil	S24-Ma0049145	X
14	1E - 14	Mar 20, 2024		Soil	S24-Ma0049146	X
15	1E - 15	Mar 20, 2024		Soil	S24-Ma0049147	X
16	1E - 16	Mar 20, 2024		Soil	S24-Ma0049148	X
17	1E - 17	Mar 20, 2024		Soil	S24-Ma0049149	X
18	1E - 18	Mar 20, 2024		Soil	S24-Ma0049150	X
19	1E - 19	Mar 20, 2024		Soil	S24-Ma0049151	X
20	1E - 20	Mar 20, 2024		Soil	S24-Ma0049152	X
21	1E - 21	Mar 20, 2024		Soil	S24-Ma0049153	X
Test Counts						21

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:	Samuel Knott
Report	1080081-AID
Project Name	ALDINGTON-02
Project ID	66105
Received Date	Mar 20, 2024
Date Reported	Mar 25, 2024

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 ALDINGTON-02
Project ID 66105
Date Sampled Mar 20, 2024
Report 1080081-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
1E - 1	24-Ma0049133	Mar 20, 2024	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.
1E - 2	24-Ma0049134	Mar 20, 2024	Approximate Sample 632g 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.
1E - 3	24-Ma0049135	Mar 20, 2024	Approximate Sample 706g 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.
1E - 4	24-Ma0049136	Mar 20, 2024	Approximate Sample 638g 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.
1E - 5	24-Ma0049137	Mar 20, 2024	Approximate Sample 580g 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.
1E - 6	24-Ma0049138	Mar 20, 2024	Approximate Sample 693g Sample consisted of: Brown coarse-grained clayey sandy soil, cement, bitumen like material, organic debris and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
1E - 7	24-Ma0049139	Mar 20, 2024	Approximate Sample 627g Sample consisted of: Brown coarse-grained clayey sandy soil, cement, bitumen like material, organic debris and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
1E - 8	24-Ma0049140	Mar 20, 2024	Approximate Sample 466g 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.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
1E - 9	24-Ma0049141	Mar 20, 2024	Approximate Sample 603g 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.
1E - 10	24-Ma0049142	Mar 20, 2024	Approximate Sample 627g 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.
1E - 11	24-Ma0049143	Mar 20, 2024	Approximate Sample 477g Sample consisted of: Brown fine-grained clayey sandy soil, charcoal, organic debris, and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
1E - 12	24-Ma0049144	Mar 20, 2024	Approximate Sample 617g Sample consisted of: Red-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.
1E - 13	24-Ma0049145	Mar 20, 2024	Approximate Sample 605g Sample consisted of: Red-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.
1E - 14	24-Ma0049146	Mar 20, 2024	Approximate Sample 874g Sample consisted of: Brown fine-grained sandy soil, charcoal, corroded metal, bitumen like material, organic debris and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
1E - 15	24-Ma0049147	Mar 20, 2024	Approximate Sample 684g Sample consisted of: Brown fine-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.
1E - 16	24-Ma0049148	Mar 20, 2024	Approximate Sample 368g 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.
1E - 17	24-Ma0049149	Mar 20, 2024	Approximate Sample 534g 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.
1E - 18	24-Ma0049150	Mar 20, 2024	Approximate Sample 803g 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.
1E - 19	24-Ma0049151	Mar 20, 2024	Approximate Sample 640g Sample consisted of: Brown coarse-grained clayey sandy soil, organic debris and rocks	AF: Chrysotile asbestos detected in compressed fibre cement material. Approximate raw weight of AF = 0.045g* Estimated asbestos content in AF = 0.0045g* Total estimated asbestos concentration in AF = 0.00070% 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
1E - 20	24-Ma0049152	Mar 20, 2024	Approximate Sample 399g Sample consisted of: Brown fine-grained clayey sandy soil, organic debris and rocks	ACM: Chrysotile and amosite asbestos detected in compressed fibre cement material. Approximate raw weight of ACM = 4.3g Total estimated asbestos content in ACM = 0.86g* Total estimated asbestos concentration in ACM = 0.22% w/w* Organic fibre detected. No trace asbestos detected.
1E - 21	24-Ma0049153	Mar 20, 2024	Approximate Sample 533g 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.

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, 2024	Indefinite

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Contact Name: Samuel Knott

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**	
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2	1E - 2	Mar 20, 2024		Building Materials	S24-Ma0049134	X
3	1E - 3	Mar 20, 2024		Building Materials	S24-Ma0049135	X
4	1E - 4	Mar 20, 2024		Building Materials	S24-Ma0049136	X
5	1E - 5	Mar 20, 2024		Building Materials	S24-Ma0049137	X
6	1E - 6	Mar 20, 2024		Soil	S24-Ma0049138	X
7	1E - 7	Mar 20, 2024		Soil	S24-Ma0049139	X
8	1E - 8	Mar 20, 2024		Soil	S24-Ma0049140	X
9	1E - 9	Mar 20, 2024		Soil	S24-Ma0049141	X
10	1E - 10	Mar 20, 2024		Soil	S24-Ma0049142	X

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
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Received: Mar 20, 2024 6:38 PM
Due: Mar 25, 2024
Priority: 3 Day
Contact Name: Samuel Knott

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
11	1E - 11	Mar 20, 2024		Soil	S24-Ma0049143	X
12	1E - 12	Mar 20, 2024		Soil	S24-Ma0049144	X
13	1E - 13	Mar 20, 2024		Soil	S24-Ma0049145	X
14	1E - 14	Mar 20, 2024		Soil	S24-Ma0049146	X
15	1E - 15	Mar 20, 2024		Soil	S24-Ma0049147	X
16	1E - 16	Mar 20, 2024		Soil	S24-Ma0049148	X
17	1E - 17	Mar 20, 2024		Soil	S24-Ma0049149	X
18	1E - 18	Mar 20, 2024		Soil	S24-Ma0049150	X
19	1E - 19	Mar 20, 2024		Soil	S24-Ma0049151	X
20	1E - 20	Mar 20, 2024		Soil	S24-Ma0049152	X
21	1E - 21	Mar 20, 2024		Soil	S24-Ma0049153	X
Test Counts						21

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**). This estimate is not NATA-accredited.
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

24-Ma0049140, 24-Ma0049143, 24-Ma0049148, 24-Ma0049152: 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:

Sayeed Abu	Senior Analyst-Asbestos

Authorised by:

Chamath JHM Annakkage	Senior Analyst-Asbestos

Glenn Jackson
Managing Director

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.: 60482 | LABORATORY BATCH NO.:

PROJECT NAME: Kemps Creek DSI | SAMPLERS:

DATE NEEDED BY: Standard TAT | 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) .....rlill@jbsg.com.au; (3) .....cdagger@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs	Asbestos	OCPs/PCBs	Phenols	Herbicides	PFAS	CEC, pH, Clay	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
	Soil																
BH273 0.0-0.2		9/4/21		J+B						X		X					
BH273 0.4-0.5				J		X		X						X			
BH274 0.0-0.2				J+B													
BH274 0.4-0.5				J													
BH275 0.0-0.2				J+B		X		X				X					
BH275 0.4-0.5				J													
BH276 0.0-0.2				J+B													
BH276 0.4-0.5				J		X	X										
BH277 0.0-0.2				J+B													
BH277 0.6-0.7				J		X		X									
TP214 0.0-0.1				J+B													
TP214 0.4-0.5				J			~~X~~	~~X~~						~~X~~			
TP215 0.0-0.1				J+B													
TP215 0.4-0.5				~~J~~ J		~~X~~		~~X~~									
TP215 1.0-1.1				J													
TP215 1.7-1.8				J			X	X									
TP219 0.0-0.1				J+B													
TP219 0.4-0.5				J													

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Ryan Lill DATE: 12-4-21	CONSIGNMENT NOTE NO.	NAME: GTN	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 12/4/21 6:38pm i-5%	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 - Generic

786604

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 60482

PROJECT NAME: Kemps Creek DSI

DATE NEEDED BY: Standard TAT

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

LABORATORY BATCH NO.:

SAMPLERS:

QC LEVEL: NEPM (2013)

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....rill@jbsg.com.au; (3) .....cdagger@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs	Asbestos	OCPs/PCBs	Phenols	Herbicides	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
TP201 0-0.2 AQ	Soil	9-4-21		DAQ B					X							
TP201 0-0.2				AD or		X		X								
TP201 0.5-0.6				D		X	X	X								
TP400 0-0.3	AQ			AQ B					X							
TP 400 0-0.3	D			D			X			X						
TP 400 0.4-0.6				D												
TP 401 0-0.3				AQ B					X							
TP 401 0-0.3				D		X	X	X								
TP 401 0.4-0.6				D												
TP 402 0-0.3				AQ B					X							
TP 402 0-0.3				D		X		X								
TP 402 0.4-0.6				D												
TP 405 0-0.4				AQ B					X							
TP 408 0-0.9				AQ B												
TP 404 0-0.4				AQ B					X							
TP 403 0-0.3				AQ B					X							
TP 204 0-0.1				B		E	E	X								
TP 204 0-0.1				D		X		X								
TP 204 0.4-0.5				D												
TP 408 0-0.2	V	V														

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Ryan Gill DATE: 12-4-21	CONSIGNMENT NOTE NO.	NAME: GTW	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 12/4/21 6:38pm 1.5°C	
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

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 60482 | LABORATORY BATCH NO.:

PROJECT NAME: Kemps Creek DSI | SAMPLERS:

DATE NEEDED BY: Standard TAT | 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) .....rlill@jbsg.com.au; (3) .....cdagger@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs	Asbestos	OCPs/PCBs	Phenols	Herbicides	PFAS	8/27 x	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
TP212 2.6-2.4	Soil	1/4/21		J		x	x	x					-				
TP212 2.0-2.1	↓	↓		J													
TP212 1.0-1.1				J													
TP212 0.0-0.1				B					x								
TP212 0.5-0.6				J													
TP212 0.0-0.1				J		x		x									
~~TP 204 0.0-0.1~~				~~B+J~~													
~~TP 204 0.4-0.5~~				~~J~~													
TP 204 0.4-0.5				J													
TP 205 0.0-0.2	↓	↓		BTJ		x	x										
TS	Water	9/4/21		2xV										x			
TB	↓	↓		2xV										x			

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: [signature] DATE: 12.4.21	CONSIGNMENT NOTE NO.	NAME: GHV	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 12/4/21 6:38pm	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	OF: ISQ	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; F = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO Forms013 – Chain of Custody – Generic

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 60482	LABORATORY BATCH NO.:
PROJECT NAME: Kemps Creek DSI	SAMPLERS:
DATE NEEDED BY: Standard TAT	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) .....rlill@jbsg.com.au; (3) .....cdagger@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs	Asbestos	OCPs/PCBs	Phenols	Herbicides	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
	Soil															
TP 220 0.0-0.1		7/4/21		J+B		X						X				
TP 220 0.4-0.5				J												
TP 226 0.0-0.2				J+D												
TP 226 0.4-0.5				J												
TP 222 0.1-0.2				J+D												
TP 222 0.4-0.5				J				X				X				
TP 227 0.0-0.1				J+D												
TP 227 0.4-0.5	↓			J		X		X				X				

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Ryan Lill DATE: 12-4-21	CONSIGNMENT NOTE NO.	NAME: GTD	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 12/4/21 6:38pm 1.5°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 - Generic

CHAIN OF CUSTODY

PROJECT NO.: 60482	LABORATORY BATCH NO.:
PROJECT NAME: Kemps Creek DSI	SAMPLERS:
DATE NEEDED BY: Standard TAT	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) .....rlill@jbsg.com.au; (3) .....cdagger@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs	Asbestos	OCPs/PCBs	Phenols	Herbicides	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
TP 464 | -1.6	Soil	9/4/21														
TP 464 1.6-2.3									X							
TP 464 2.3-3.4																
TP 465 -0.9									X							
TP 462 0-1.0																
TP 462 1.0-2.0																
TP 462 2.0-3.0									X							
TP 462 3.0-3.8																
TP 463 0-0.8																
TP 463 0.8-1.8									X							
TP 463 1.8-2.8																
TP 463 2.8-3.8									X							
TP 463 3.8-4.2																
TP 463 4.2-4.7																
TP 463 4.3-4.4						X		X								
TP 478 0-0.3									X							
TP 211-0.0-0.1						X		X								
TP 211-0.6-0.7																
TP212 0.5-0.6																
TP 212 0.0-0.01	V	V														

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Ryan Lill DATE: 12-4-21	CONSIGNMENT NOTE NO.	NAME: GTN	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 12/4/21 6:38pm 1.5°	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	OF: 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

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 60482

PROJECT NAME: Kemps Creek DSI

DATE NEEDED BY: Standard TAT

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

LABORATORY BATCH NO.:

SAMPLERS:

QC LEVEL: NEPM (2013)

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....rlill@jbsg.com.au; (3) .....cdagger@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs	Asbestos	OCPs/PCBs	Phenols	Herbicides	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
BH434_0.0-0.15	Soil	9-4-21		J+B		x		x	x							
↓ 0.2-0.3	↓	↓		J												
BH435_0.0-0.1				J+B			x		x							
↓ 0.3-0.4				J												
BH436_0.0-0.15				J+B			x	x	x							
↓ 0.2-0.3				J												
BH437_0.0-0.2				J+B		x		x	x							
↓ 0.3-0.4				J			x									
BH438_0.0-0.2				J+B					x							
↓ 0.2-0.4				J												
BH439_0.0-0.15				J+B		x	x		x							
↓ 0.2-0.4				J												
BH440_0.0-0.2				J+B			x	x	x							
↓ 0.4-0.5				J		x										
BH441_0.0-0.2				J+B		x		x	x							
↓ 0.3-0.4				J												
BH442_0.0-0.1				J+B		x		x	x	x						
↓ 0.3-0.4				J												
BH443_0.0-0.3				J+B		x	x	x	x		x					
↓ 0.5-0.6	↓	↓		J												

RELINQUISHED BY:

NAME: Ryan Lill DATE: 9-4-21

OF: JBS&G

NAME: DATE:

OF:

METHOD OF SHIPMENT:

CONSIGNMENT NOTE NO.

TRANSPORT CO.

CONSIGNMENT NOTE NO.

TRANSPORT CO

RECEIVED BY:

NAME: Lina P - 14/04

DATE:

OF: Eurofins 10:21

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 – Generic

186604

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 60482

PROJECT NAME: Kemps Creek DSI

DATE NEEDED BY: Standard TAT

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

LABORATORY BATCH NO.:

SAMPLERS:

QC LEVEL: NEPM (2013)

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....rlill@jbsg.com.au; (3) .....cdagger@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs	Asbestos	OCPs/PCBs	Phenols	Herbicides	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
BH444_0.0-0.3	Soil	9-4-21		J+B					X							
↓ -0.5-0.6	↓	↓		J												
BH445_0.0-0.2				J+B		~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~					
↓ -0.4-0.6				J												
BH446_0.0-0.2				J+B		X	X	X								
↓ 0.3-0.6				J				X	X							
BH447_0.0-0.15				J+B		X		X	X							
↓ 0.2-0.4				J												

RELINQUISHED BY:

NAME: Rylan Lill DATE: 9-4-21

OF: JBS&G

NAME: DATE:

OF:

METHOD OF SHIPMENT:

CONSIGNMENT NOTE NO.

TRANSPORT CO.

CONSIGNMENT NOTE NO.

TRANSPORT CO

RECEIVED BY:

NAME: DATE: 14/04

OF: Eurofins 10:21 AM

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 - Generic

786604

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ABN: 50 005 085 521 www.eurofins.com.au EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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:	Ryan Lill
Project name:	KEMPS CREEK DSI
Project ID:	60482
Turnaround time:	5 Day
Date/Time received	Apr 12, 2021 6:38 PM
Eurofins reference	786604

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 Sample Receipt : 1.5 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.
✓	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

Sample ID BH273 0-0.2 (bag) received as BH293 0-0.2, TP400 0-0.3 received as TP400 0-0.2 (bag) & TP400 0-0.1 (jar), labelled as per COC. TP401 0-0.3, TS/TB, TP212 1-1.1 not received, analysis cancelled. BH439_0.0-0.15 and BH439_0.2-0.4, jars not received, analysis cancelled. Sample ID TP200_0.4-0.5 (jar), TP213_0.3-0.4(jar), BH221_0.3-0.4-0.5 (jar), TP200_0.0-0.4AQ (bag), TP213_0.0-0.1 (jar+bag), TP214_0.0-0.2 (bag), BH221_0.0-0.1 (jar+bag), TP463_0.8-1.8 (bag), TP463_2.8-3.8AQ (bag) & TP464_0.0-1.0AQ (bag) received, not on COC, logged on hold. 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:

Ursula Long on phone : or by email: UrsulaLong@eurofins.com

Results will be delivered electronically via email to Ryan Lill - rlill@jbsg.com.au.

Global Leader - Results you can trust

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Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**															
1	BH273 0-0.2	Apr 09, 2021		Soil	S21-Ap17173							X		X	X					
2	BH273 0.4-0.5	Apr 09, 2021		Soil	S21-Ap17174	X				X	X		X		X	X				
3	BH274 0-0.2	Apr 09, 2021		Soil	S21-Ap17175								X		X					
4	BH275 0-0.2	Apr 09, 2021		Soil	S21-Ap17176						X	X	X		X					
5	BH276 0.4-0.5	Apr 09, 2021		Soil	S21-Ap17177										X				X	
6	BH293 0.6-0.7	Apr 09, 2021		Soil	S21-Ap17178						X		X		X					
7	TP215-1.7-1.8	Apr 09, 2021		Soil	S21-Ap17179						X				X			X		
8	TP201 0-0.2AQ	Apr 09, 2021		Soil	S21-Ap17180		X													

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
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Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
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Murarrie QLD 4172
Phone : +61 7 3902 4600
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Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
9	TP201 0-0.2	Apr 09, 2021		Soil	S21-Ap17181						X		X		X					
10	TP201 0.5-0.6	Apr 09, 2021		Soil	S21-Ap17182										X		X			
11	TP400 0-0.3	Apr 09, 2021		Soil	S21-Ap17183		X													
12	TP400 0-0.3	Apr 09, 2021		Soil	S21-Ap17184									X	X			X		
13	TP401 0-0.3	Apr 09, 2021		Soil	S21-Ap17185		X													
14	TP401 0-0.3	Apr 09, 2021		Soil	S21-Ap17186			X												
15	TP402 0-0.3	Apr 09, 2021		Soil	S21-Ap17187		X													
16	TP402 0-0.3	Apr 09, 2021		Soil	S21-Ap17188						X		X		X					
17	TP405 0-0.4	Apr 09, 2021		Soil	S21-Ap17189		X													
18	TP404 0-0.4	Apr 09, 2021		Soil	S21-Ap17190		X													
19	TP403 0-0.3	Apr 09, 2021		Soil	S21-Ap17191		X													

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Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
20	TP204 0-0.1	Apr 09, 2021		Soil	S21-Ap17192		X													
21	TP204 0-0.1	Apr 09, 2021		Soil	S21-Ap17193						X		X		X					
22	TP212 2.6-2.9	Apr 01, 2021		Soil	S21-Ap17194										X		X			
23	TP212 1-1.1	Apr 01, 2021		Soil	S21-Ap17195		X													
24	TP212 0.5-0.6	Apr 01, 2021		Soil	S21-Ap17196						X		X		X					
25	TP205 0-0.2	Apr 01, 2021		Soil	S21-Ap17197										X				X	
26	TRIP SPIKE	Apr 09, 2021		Water	S21-Ap17198			X												
27	TRIP BLANK	Apr 09, 2021		Water	S21-Ap17199			X												
28	TP220 0-0.1	Apr 07, 2021		Soil	S21-Ap17200							X	X		X					
29	TP222 0.4-0.5	Apr 07, 2021		Soil	S21-Ap17201						X	X			X					
30	TP227 0.4-0.5	Apr 07, 2021		Soil	S21-Ap17202						X	X	X		X					

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
31	TP464 1.6-2.3	Apr 09, 2021		Soil	S21-Ap17203		X													
32	TP453 0-0.9	Apr 09, 2021		Soil	S21-Ap17204		X													
33	TP462 2-3	Apr 09, 2021		Soil	S21-Ap17205		X													
34	TP463 0.8-1.8	Apr 09, 2021		Soil	S21-Ap17206		X													
35	TP463 2.8-3.8	Apr 09, 2021		Soil	S21-Ap17207		X													
36	TP463 4.3-4.4	Apr 09, 2021		Soil	S21-Ap17208						X		X		X					
37	TP448 0-0.3	Apr 09, 2021		Soil	S21-Ap17209		X													
38	TP211 0-0.1	Apr 09, 2021		Soil	S21-Ap17210						X		X		X					
39	BH274 0.4-0.5	Apr 09, 2021		Soil	S21-Ap17211				X											
40	BH275 0.4-0.5	Apr 09, 2021		Soil	S21-Ap17212				X											
41	BH276 0-0.2	Apr 09, 2021		Soil	S21-Ap17213				X											

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Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
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Site # 23736

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
42	BH273 0-0.2	Apr 09, 2021		Soil	S21-Ap17214				X											
43	TP214-0-0.1	Apr 09, 2021		Soil	S21-Ap17215				X											
44	TP214-0.4-0.5	Apr 09, 2021		Soil	S21-Ap17216				X											
45	TP215-0-0.1	Apr 09, 2021		Soil	S21-Ap17217				X											
46	TP215-0.4-0.5	Apr 09, 2021		Soil	S21-Ap17218				X											
47	TP215-1-1	Apr 09, 2021		Soil	S21-Ap17219				X											
48	TP219-0-0.1	Apr 09, 2021		Soil	S21-Ap17220				X											
49	TP219-0.4-0.5	Apr 09, 2021		Soil	S21-Ap17221				X											
50	TP400 0.4-0.6	Apr 09, 2021		Soil	S21-Ap17222				X											
51	TP401 0.4-0.6	Apr 09, 2021		Soil	S21-Ap17223				X											
52	TP402 0.4-0.6	Apr 09, 2021		Soil	S21-Ap17224				X											

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Australia

Melbourne
6 Monterey Road
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Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
53	TP458 0-0.9	Apr 09, 2021		Soil	S21-Ap17225				X											
54	TP204 0.4-0.5	Apr 09, 2021		Soil	S21-Ap17226				X											
55	TP212 1-1.1	Apr 01, 2021		Soil	S21-Ap17227			X												
56	TP212 1-1.1	Apr 01, 2021		Soil	S21-Ap17228				X											
57	TP212 2-2.1	Apr 01, 2021		Soil	S21-Ap17229				X											
58	TP212 0-0.1	Apr 01, 2021		Soil	S21-Ap17230				X											
59	TP205 0.4-0.5	Apr 01, 2021		Soil	S21-Ap17231				X											
60	TP220 0.4-0.5	Apr 07, 2021		Soil	S21-Ap17232				X											
61	TP226 0.1-0.2	Apr 07, 2021		Soil	S21-Ap17233				X											
62	TP226 0.4-0.5	Apr 07, 2021		Soil	S21-Ap17234				X											
63	TP222 0.1-0.2	Apr 07, 2021		Soil	S21-Ap17235				X											

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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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
64	TP227 0-0.1	Apr 07, 2021		Soil	S21-Ap17236				X											
65	TP464 1-1.6	Apr 09, 2021		Soil	S21-Ap17237				X											
66	TP464 2.3-2.4	Apr 09, 2021		Soil	S21-Ap17238				X											
67	TP462 0-1	Apr 09, 2021		Soil	S21-Ap17239				X											
68	TP462 1-2	Apr 09, 2021		Soil	S21-Ap17240				X											
69	TP462 3-3.8	Apr 09, 2021		Soil	S21-Ap17241				X											
70	TP463 0-0.8	Apr 09, 2021		Soil	S21-Ap17242				X											
71	TP463 1.8-2.8	Apr 09, 2021		Soil	S21-Ap17243				X											
72	TP463 3.8-4.2	Apr 09, 2021		Soil	S21-Ap17244				X											
73	TP463 4.2-4.7	Apr 09, 2021		Soil	S21-Ap17245				X											
74	TP211 0.6-0.7	Apr 09, 2021		Soil	S21-Ap17246				X											

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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
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Welshpool WA 6106
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Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
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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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
75	TP212 0.5-0.6	Apr 09, 2021		Soil	S21-Ap17247				X											
76	TP212 0-0.01	Apr 09, 2021		Soil	S21-Ap17248				X											
77	BH434_0.0-0.15	Apr 09, 2021		Soil	S21-Ap20355		X				X		X		X					
78	BH435_0.0-0.1	Apr 09, 2021		Soil	S21-Ap20356		X								X			X		
79	BH436_0.0-0.15	Apr 09, 2021		Soil	S21-Ap20357		X				X				X			X		
80	BH437_0.0-0.2	Apr 09, 2021		Soil	S21-Ap20358		X				X		X		X					
81	BH437_0.3-0.4	Apr 09, 2021		Soil	S21-Ap20359										X			X		
82	BH438_0.0-0.2	Apr 09, 2021		Soil	S21-Ap20360		X													
83	BH439_0.0-0.15	Apr 09, 2021		Soil	S21-Ap20361		X													

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
84	BH440_0.0-0.2	Apr 09, 2021		Soil	S21-Ap20362		X				X				X			X		
85	BH440_0.4-0.5	Apr 09, 2021		Soil	S21-Ap20363								X		X					
86	BH441_0.0-0.2	Apr 09, 2021		Soil	S21-Ap20364						X		X		X					
87	BH442_0.0-0.1	Apr 09, 2021		Soil	S21-Ap20365		X				X		X	X	X					
88	BH443_0.0-0.3	Apr 09, 2021		Soil	S21-Ap20366		X								X					X
89	BH444_0.0-0.3	Apr 09, 2021		Soil	S21-Ap20367		X													
90	BH445_0.4-0.6	Apr 09, 2021		Soil	S21-Ap20368										X		X			
91	BH446_0.0-0.2	Apr 09, 2021		Soil	S21-Ap20369		X				X				X					
92	BH447_0.0-0.15	Apr 09, 2021		Soil	S21-Ap20370		X				X		X		X					
93	BH434_0.2-0.3	Apr 09, 2021		Soil	S21-Ap20371				X											

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
94	BH435_0.3-0.4	Apr 09, 2021		Soil	S21-Ap20372				X											
95	BH436_0.2-0.3	Apr 09, 2021		Soil	S21-Ap20373				X											
96	BH438_0.2-0.4	Apr 09, 2021		Soil	S21-Ap20374				X											
97	BH439_0.2-0.4	Apr 09, 2021		Soil	S21-Ap20375				X											
98	BH441_0.3-0.4	Apr 09, 2021		Soil	S21-Ap20376				X											
99	BH442_0.3-0.4	Apr 09, 2021		Soil	S21-Ap20377				X											
100	BH443_0.5-0.6	Apr 09, 2021		Soil	S21-Ap20378				X											
101	BH444_0.5-0.6	Apr 09, 2021		Soil	S21-Ap20379				X											
102	BH446_0.3-0.6	Apr 09, 2021		Soil	S21-Ap20380				X											
103	BH447_0.2-0.4	Apr 09, 2021		Soil	S21-Ap20381				X											
104	BH445_0.0-0.2	Apr 09, 2021		Soil	S21-Ap20549				X											

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
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Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
105	TP200_0.4-0.5	Apr 09, 2021		Soil	S21-Ap22373				X											
106	TP213_0.3-0.4	Apr 09, 2021		Soil	S21-Ap22374				X											
107	BH221_0.3-0.4-0.5	Apr 09, 2021		Soil	S21-Ap22375				X											
108	TP200_0.0-0.4AQ	Apr 09, 2021		Soil	S21-Ap22376				X											
109	TP213_0.0-0.1	Apr 09, 2021		Soil	S21-Ap22377				X											
110	TP214_0.0-0.2	Apr 09, 2021		Soil	S21-Ap22378				X											
111	BH221_0.0-0.1	Apr 09, 2021		Soil	S21-Ap22379				X											
112	TP463_0.8-1.8	Apr 09, 2021		Soil	S21-Ap22380				X											
113	TP463_2.8-3.8AQ	Apr 09, 2021		Soil	S21-Ap22381				X											

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
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Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
114	TP464_0.0-1.0AQ	Apr 09, 2021		Soil	S21-Ap22382				X											
Test Counts						1	27	6	59	1	20	5	18	3	33	1	5	6	2	1

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 and proficiency testing scheme providers reports.

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention:	Ryan Lill
Report	786604-AID
Project Name	KEMPS CREEK DSI
Project ID	60482
Received Date	Apr 12, 2021
Date Reported	Apr 21, 2021

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.*

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 and proficiency testing scheme providers reports.

Project Name KEMPS CREEK DSI
Project ID 60482
Date Sampled Apr 09, 2021
Report 786604-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
TP201 0-0.2AQ	21-Ap17180	Apr 09, 2021	Approximate Sample 312g 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.
TP400 0-0.3	21-Ap17183	Apr 09, 2021	Approximate Sample 498g 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.
TP401 0-0.3	21-Ap17185	Apr 09, 2021	Approximate Sample 429g 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.
TP402 0-0.3	21-Ap17187	Apr 09, 2021	Approximate Sample 344g 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.
TP405 0-0.4	21-Ap17189	Apr 09, 2021	Approximate Sample 623g 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.
TP404 0-0.4	21-Ap17190	Apr 09, 2021	Approximate Sample 542g 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.
TP403 0-0.3	21-Ap17191	Apr 09, 2021	Approximate Sample 422g 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.
TP204 0-0.1	21-Ap17192	Apr 09, 2021	Approximate Sample 684g Sample consisted of: Brown coarse-grained soil, coal 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
TP464 1.6-2.3	21-Ap17203	Apr 09, 2021	Approximate Sample 464g 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.
TP453 0-0.9	21-Ap17204	Apr 09, 2021	Approximate Sample 319g 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.
TP462 2-3	21-Ap17205	Apr 09, 2021	Approximate Sample 487g 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.
TP463 0.8-1.8	21-Ap17206	Apr 09, 2021	Approximate Sample 48g / 60x40x5mm Sample consisted of: Grey compressed fibre cement material	Chrysotile asbestos detected.
TP463 2.8-3.8	21-Ap17207	Apr 09, 2021	Approximate Sample 488g 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.
TP448 0-0.3	21-Ap17209	Apr 09, 2021	Approximate Sample 378g 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.
BH434_0.0-0.15	21-Ap20355	Apr 09, 2021	Approximate Sample 436g 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.
BH435_0.0-0.1	21-Ap20356	Apr 09, 2021	Approximate Sample 451g 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.
BH436_0.0-0.15	21-Ap20357	Apr 09, 2021	Approximate Sample 362g 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.
BH437_0.0-0.2	21-Ap20358	Apr 09, 2021	Approximate Sample 531g 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.
BH438_0.0-0.2	21-Ap20360	Apr 09, 2021	Approximate Sample 385g 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.
BH439_0.0-0.15	21-Ap20361	Apr 09, 2021	Approximate Sample 353g 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.
BH440_0.0-0.2	21-Ap20362	Apr 09, 2021	Approximate Sample 373g 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
BH442_0.0-0.1	21-Ap20365	Apr 09, 2021	Approximate Sample 361g 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.
BH443_0.0-0.3	21-Ap20366	Apr 09, 2021	Approximate Sample 453g 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.
BH444_0.0-0.3	21-Ap20367	Apr 09, 2021	Approximate Sample 429g 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.
BH446_0.0-0.2	21-Ap20369	Apr 09, 2021	Approximate Sample 395g 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.
BH447_0.0-0.15	21-Ap20370	Apr 09, 2021	Approximate Sample 361g 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	Apr 14, 2021	Indefinite

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**															
1	BH273 0-0.2	Apr 09, 2021		Soil	S21-Ap17173							X		X	X					
2	BH273 0.4-0.5	Apr 09, 2021		Soil	S21-Ap17174	X				X	X		X		X	X				
3	BH274 0-0.2	Apr 09, 2021		Soil	S21-Ap17175								X		X					
4	BH275 0-0.2	Apr 09, 2021		Soil	S21-Ap17176						X	X	X		X					
5	BH276 0.4-0.5	Apr 09, 2021		Soil	S21-Ap17177										X				X	
6	BH293 0.6-0.7	Apr 09, 2021		Soil	S21-Ap17178						X		X		X					
7	TP215-1.7-1.8	Apr 09, 2021		Soil	S21-Ap17179						X				X			X		
8	TP201 0-0.2AQ	Apr 09, 2021		Soil	S21-Ap17180		X													

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
9	TP201 0-0.2	Apr 09, 2021		Soil	S21-Ap17181						X		X		X					
10	TP201 0.5-0.6	Apr 09, 2021		Soil	S21-Ap17182										X		X			
11	TP400 0-0.3	Apr 09, 2021		Soil	S21-Ap17183		X													
12	TP400 0-0.3	Apr 09, 2021		Soil	S21-Ap17184									X	X			X		
13	TP401 0-0.3	Apr 09, 2021		Soil	S21-Ap17185		X													
14	TP401 0-0.3	Apr 09, 2021		Soil	S21-Ap17186			X												
15	TP402 0-0.3	Apr 09, 2021		Soil	S21-Ap17187		X													
16	TP402 0-0.3	Apr 09, 2021		Soil	S21-Ap17188						X		X		X					
17	TP405 0-0.4	Apr 09, 2021		Soil	S21-Ap17189		X													
18	TP404 0-0.4	Apr 09, 2021		Soil	S21-Ap17190		X													
19	TP403 0-0.3	Apr 09, 2021		Soil	S21-Ap17191		X													

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Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
20	TP204 0-0.1	Apr 09, 2021		Soil	S21-Ap17192		X													
21	TP204 0-0.1	Apr 09, 2021		Soil	S21-Ap17193						X		X		X					
22	TP212 2.6-2.9	Apr 01, 2021		Soil	S21-Ap17194										X		X			
23	TP212 1-1.1	Apr 01, 2021		Soil	S21-Ap17195			X												
24	TP212 0.5-0.6	Apr 01, 2021		Soil	S21-Ap17196						X		X		X					
25	TP205 0-0.2	Apr 01, 2021		Soil	S21-Ap17197										X				X	
26	TRIP SPIKE	Apr 09, 2021		Water	S21-Ap17198			X												
27	TRIP BLANK	Apr 09, 2021		Water	S21-Ap17199			X												
28	TP220 0-0.1	Apr 07, 2021		Soil	S21-Ap17200							X	X		X					
29	TP222 0.4-0.5	Apr 07, 2021		Soil	S21-Ap17201						X	X			X					
30	TP227 0.4-0.5	Apr 07, 2021		Soil	S21-Ap17202						X	X	X		X					

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
31	TP464 1.6-2.3	Apr 09, 2021		Soil	S21-Ap17203		X													
32	TP453 0-0.9	Apr 09, 2021		Soil	S21-Ap17204		X													
33	TP462 2-3	Apr 09, 2021		Soil	S21-Ap17205		X													
34	TP463 0.8-1.8	Apr 09, 2021		Soil	S21-Ap17206		X													
35	TP463 2.8-3.8	Apr 09, 2021		Soil	S21-Ap17207		X													
36	TP463 4.3-4.4	Apr 09, 2021		Soil	S21-Ap17208						X		X		X					
37	TP448 0-0.3	Apr 09, 2021		Soil	S21-Ap17209		X													
38	TP211 0-0.1	Apr 09, 2021		Soil	S21-Ap17210						X		X		X					
39	BH274 0.4-0.5	Apr 09, 2021		Soil	S21-Ap17211				X											
40	BH275 0.4-0.5	Apr 09, 2021		Soil	S21-Ap17212				X											
41	BH276 0-0.2	Apr 09, 2021		Soil	S21-Ap17213				X											

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
42	BH273 0-0.2	Apr 09, 2021		Soil	S21-Ap17214				X											
43	TP214-0-0.1	Apr 09, 2021		Soil	S21-Ap17215				X											
44	TP214-0.4-0.5	Apr 09, 2021		Soil	S21-Ap17216				X											
45	TP215-0-0.1	Apr 09, 2021		Soil	S21-Ap17217				X											
46	TP215-0.4-0.5	Apr 09, 2021		Soil	S21-Ap17218				X											
47	TP215-1-1	Apr 09, 2021		Soil	S21-Ap17219				X											
48	TP219-0-0.1	Apr 09, 2021		Soil	S21-Ap17220				X											
49	TP219-0.4-0.5	Apr 09, 2021		Soil	S21-Ap17221				X											
50	TP400 0.4-0.6	Apr 09, 2021		Soil	S21-Ap17222				X											
51	TP401 0.4-0.6	Apr 09, 2021		Soil	S21-Ap17223				X											
52	TP402 0.4-0.6	Apr 09, 2021		Soil	S21-Ap17224				X											

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
53	TP458 0-0.9	Apr 09, 2021		Soil	S21-Ap17225				X											
54	TP204 0.4-0.5	Apr 09, 2021		Soil	S21-Ap17226				X											
55	TP212 1-1.1	Apr 01, 2021		Soil	S21-Ap17227			X												
56	TP212 1-1.1	Apr 01, 2021		Soil	S21-Ap17228				X											
57	TP212 2-2.1	Apr 01, 2021		Soil	S21-Ap17229				X											
58	TP212 0-0.1	Apr 01, 2021		Soil	S21-Ap17230				X											
59	TP205 0.4-0.5	Apr 01, 2021		Soil	S21-Ap17231				X											
60	TP220 0.4-0.5	Apr 07, 2021		Soil	S21-Ap17232				X											
61	TP226 0.1-0.2	Apr 07, 2021		Soil	S21-Ap17233				X											
62	TP226 0.4-0.5	Apr 07, 2021		Soil	S21-Ap17234				X											
63	TP222 0.1-0.2	Apr 07, 2021		Soil	S21-Ap17235				X											

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

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Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
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Mayfield East NSW 2304
PO Box 60 Wickham 2293
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Phone : +64 9 526 45 51
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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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
64	TP227 0-0.1	Apr 07, 2021		Soil	S21-Ap17236				X											
65	TP464 1-1.6	Apr 09, 2021		Soil	S21-Ap17237				X											
66	TP464 2.3-2.4	Apr 09, 2021		Soil	S21-Ap17238				X											
67	TP462 0-1	Apr 09, 2021		Soil	S21-Ap17239				X											
68	TP462 1-2	Apr 09, 2021		Soil	S21-Ap17240				X											
69	TP462 3-3.8	Apr 09, 2021		Soil	S21-Ap17241				X											
70	TP463 0-0.8	Apr 09, 2021		Soil	S21-Ap17242				X											
71	TP463 1.8-2.8	Apr 09, 2021		Soil	S21-Ap17243				X											
72	TP463 3.8-4.2	Apr 09, 2021		Soil	S21-Ap17244				X											
73	TP463 4.2-4.7	Apr 09, 2021		Soil	S21-Ap17245				X											
74	TP211 0.6-0.7	Apr 09, 2021		Soil	S21-Ap17246				X											

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
75	TP212 0.5-0.6	Apr 09, 2021		Soil	S21-Ap17247				X											
76	TP212 0-0.01	Apr 09, 2021		Soil	S21-Ap17248				X											
77	BH434_0.0-0.15	Apr 09, 2021		Soil	S21-Ap20355		X				X		X		X					
78	BH435_0.0-0.1	Apr 09, 2021		Soil	S21-Ap20356		X								X			X		
79	BH436_0.0-0.15	Apr 09, 2021		Soil	S21-Ap20357		X				X				X			X		
80	BH437_0.0-0.2	Apr 09, 2021		Soil	S21-Ap20358		X				X		X		X					
81	BH437_0.3-0.4	Apr 09, 2021		Soil	S21-Ap20359										X			X		
82	BH438_0.0-0.2	Apr 09, 2021		Soil	S21-Ap20360		X													
83	BH439_0.0-0.15	Apr 09, 2021		Soil	S21-Ap20361		X													

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Phone : +61 7 3902 4600
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Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
84	BH440_0.0-0.2	Apr 09, 2021		Soil	S21-Ap20362		X				X				X			X		
85	BH440_0.4-0.5	Apr 09, 2021		Soil	S21-Ap20363								X		X					
86	BH441_0.0-0.2	Apr 09, 2021		Soil	S21-Ap20364						X		X		X					
87	BH442_0.0-0.1	Apr 09, 2021		Soil	S21-Ap20365		X				X		X	X	X					
88	BH443_0.0-0.3	Apr 09, 2021		Soil	S21-Ap20366		X								X					X
89	BH444_0.0-0.3	Apr 09, 2021		Soil	S21-Ap20367		X													
90	BH445_0.4-0.6	Apr 09, 2021		Soil	S21-Ap20368										X		X			
91	BH446_0.0-0.2	Apr 09, 2021		Soil	S21-Ap20369		X				X				X					
92	BH447_0.0-0.15	Apr 09, 2021		Soil	S21-Ap20370		X				X		X		X					
93	BH434_0.2-0.3	Apr 09, 2021		Soil	S21-Ap20371				X											

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Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
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46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
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Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
94	BH435_0.3-0.4	Apr 09, 2021		Soil	S21-Ap20372				X											
95	BH436_0.2-0.3	Apr 09, 2021		Soil	S21-Ap20373				X											
96	BH438_0.2-0.4	Apr 09, 2021		Soil	S21-Ap20374				X											
97	BH439_0.2-0.4	Apr 09, 2021		Soil	S21-Ap20375				X											
98	BH441_0.3-0.4	Apr 09, 2021		Soil	S21-Ap20376				X											
99	BH442_0.3-0.4	Apr 09, 2021		Soil	S21-Ap20377				X											
100	BH443_0.5-0.6	Apr 09, 2021		Soil	S21-Ap20378				X											
101	BH444_0.5-0.6	Apr 09, 2021		Soil	S21-Ap20379				X											
102	BH446_0.3-0.6	Apr 09, 2021		Soil	S21-Ap20380				X											
103	BH447_0.2-0.4	Apr 09, 2021		Soil	S21-Ap20381				X											
104	BH445_0.0-0.2	Apr 09, 2021		Soil	S21-Ap20549				X											

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Australia

Melbourne
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Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

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Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
105	TP200_0.4-0.5	Apr 09, 2021		Soil	S21-Ap22373				X											
106	TP213_0.3-0.4	Apr 09, 2021		Soil	S21-Ap22374				X											
107	BH221_0.3-0.4-0.5	Apr 09, 2021		Soil	S21-Ap22375				X											
108	TP200_0.0-0.4AQ	Apr 09, 2021		Soil	S21-Ap22376				X											
109	TP213_0.0-0.1	Apr 09, 2021		Soil	S21-Ap22377				X											
110	TP214_0.0-0.2	Apr 09, 2021		Soil	S21-Ap22378				X											
111	BH221_0.0-0.1	Apr 09, 2021		Soil	S21-Ap22379				X											
112	TP463_0.8-1.8	Apr 09, 2021		Soil	S21-Ap22380				X											
113	TP463_2.8-3.8AQ	Apr 09, 2021		Soil	S21-Ap22381				X											

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
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PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
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Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

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Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
114	TP464_0.0-1.0AQ	Apr 09, 2021		Soil	S21-Ap22382				X											
Test Counts						1	26	7	59	1	20	5	18	3	33	1	5	6	2	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 blue colour, 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 '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 Advice.

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: weight for weight basis	grams per kilogram
Filter loading:	fibres/100 graticule areas
Reported Concentration:	fibres/mL
Flowrate:	L/min

Terms

Dry	Sample is dried by heating prior to analysis
LOR	Limit of Reporting
COC	Chain of Custody
SRA	Sample Receipt Advice
ISO	International Standards Organisation
AS	Australian Standards
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 (2009), including supporting document Recommended Procedures for Laboratory Analysis of Asbestos in Soil (2011)
NEPM	National Environment Protection (Assessment of Site Contamination) Measure, 2013 (as amended)
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded and/or sound condition. For the purposes of the NEPM, ACM is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
AF	Asbestos Fines. Asbestos containing materials, including friable, weathered and bonded materials, able to pass a 7mm x 7mm sieve. Considered under the NEPM as equivalent to “non-bonded / friable”.
FA	Fibrous Asbestos. Asbestos containing materials in a friable and/or severely weathered condition. For the purposes of the NEPM, FA is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
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.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres in the matrix.

Comments

Ap17180 to Ap17187, Ap17190,Ap17191, Ap17203 to Ap20357, Ap20360 o Ap20370: 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	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
N/A	Not applicable

Asbestos Counter/Identifier:

Chamath JHM Annakkage	Senior Analyst-Asbestos (NSW)

Authorised by:

Sayeed Abu	Senior Analyst-Asbestos (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.

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.

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

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 and proficiency testing scheme providers reports.

Attention: **Ryan Lill**

Report **786604-S**
Project name KEMPS CREEK DSI
Project ID 60482
Received Date Apr 12, 2021

Client Sample ID			**BH273 0-0.2**	**BH273 0.4-0.5**	**BH274 0-0.2**	**BH275 0-0.2**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**S21-Ap17173**	**S21-Ap17174**	**S21-Ap17175**	**S21-Ap17176**
Date Sampled			**Apr 09, 2021**	**Apr 09, 2021**	**Apr 09, 2021**	**Apr 09, 2021**
Test/Reference	LOR	Unit				
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	0.08	-	-	-
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	0.1	mg/kg	< 0.1	-	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	0.08	-	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2	-	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2	-	-	-
Dibutylchlorendate (surr.)	1	%	75	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	90	-	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1221	0.1	mg/kg	< 0.1	-	-	-
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	-	-	-

Client Sample ID			BH273 0-0.2	BH273 0.4-0.5	BH274 0-0.2	BH275 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17173	S21-Ap17174	S21-Ap17175	S21-Ap17176
Date Sampled			Apr 09, 2021	Apr 09, 2021	Apr 09, 2021	Apr 09, 2021
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Total PCB*	0.5	mg/kg	< 0.5	-	-	-
Dibutylchlorendate (surr.)	1	%	75	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	90	-	-	-
Acid Herbicides						
2.4-D	0.5	mg/kg	< 0.5	-	-	< 0.5
2.4-DB	0.5	mg/kg	< 0.5	-	-	< 0.5
2.4.5-T	0.5	mg/kg	< 0.5	-	-	< 0.5
2.4.5-TP	0.5	mg/kg	< 0.5	-	-	< 0.5
Actril (loxynil)	0.5	mg/kg	< 0.5	-	-	< 0.5
Dicamba	0.5	mg/kg	< 0.5	-	-	< 0.5
Dichlorprop	0.5	mg/kg	< 0.5	-	-	< 0.5
Dinitro-o-cresol	0.5	mg/kg	< 0.5	-	-	< 0.5
Dinoseb	0.5	mg/kg	< 0.5	-	-	< 0.5
MCPA	0.5	mg/kg	< 0.5	-	-	< 0.5
MCPB	0.5	mg/kg	< 0.5	-	-	< 0.5
Mecoprop	0.5	mg/kg	< 0.5	-	-	< 0.5
Warfarin (surr.)	1	%	61	-	-	64
% Moisture	1	%	20	18	17	19
% Clay	1	%	-	37	-	-
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	-	70	-	-
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	-	5.7	-	-
Polycyclic Aromatic Hydrocarbons						
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
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
2-Fluorobiphenyl (surr.)	1	%	-	80	-	79
p-Terphenyl-d14 (surr.)	1	%	-	98	-	99

Client Sample ID			BH273 0-0.2	BH273 0.4-0.5	BH274 0-0.2	BH275 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17173	S21-Ap17174	S21-Ap17175	S21-Ap17176
Date Sampled			Apr 09, 2021	Apr 09, 2021	Apr 09, 2021	Apr 09, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	-	6.8	11	11
Cadmium	0.4	mg/kg	-	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	-	20	36	28
Copper	5	mg/kg	-	18	30	41
Lead	5	mg/kg	-	14	26	17
Mercury	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	-	< 5	15	8.7
Zinc	5	mg/kg	-	19	62	58
Cation Exchange Capacity						
Cation Exchange Capacity	0.05	meq/100g	-	56	-	-

Client Sample ID			BH276 0.4-0.5	BH293 0.6-0.7	TP215-1.7-1.8	TP201 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17177	S21-Ap17178	S21-Ap17179	S21-Ap17181
Date Sampled			Apr 09, 2021	Apr 09, 2021	Apr 09, 2021	Apr 09, 2021
Test/Reference	LOR	Unit				
% Moisture	1	%	21	16	15	22
Polycyclic Aromatic Hydrocarbons						
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
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
2-Fluorobiphenyl (surr.)	1	%	-	75	77	80
p-Terphenyl-d14 (surr.)	1	%	-	96	99	101
Heavy Metals						
Arsenic	2	mg/kg	14	11	-	7.7
Cadmium	0.4	mg/kg	< 0.4	< 0.4	-	< 0.4
Chromium	5	mg/kg	29	25	-	21
Copper	5	mg/kg	24	21	-	27
Lead	5	mg/kg	18	25	-	19
Mercury	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1

Client Sample ID			BH276 0.4-0.5	BH293 0.6-0.7	TP215-1.7-1.8	TP201 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17177	S21-Ap17178	S21-Ap17179	S21-Ap17181
Date Sampled			Apr 09, 2021	Apr 09, 2021	Apr 09, 2021	Apr 09, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Nickel	5	mg/kg	8.4	11	-	21
Zinc	5	mg/kg	37	39	-	68
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-C36 (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	%	INT	-	110	-
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	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	< 100	-

Client Sample ID			TP201 0.5-0.6	TP400 0-0.3	TP402 0-0.3	TP204 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17182	S21-Ap17184	S21-Ap17188	S21-Ap17193
Date Sampled			Apr 09, 2021	Apr 09, 2021	Apr 09, 2021	Apr 09, 2021
Test/Reference	LOR	Unit				
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	-	-

Client Sample ID			TP201 0.5-0.6	TP400 0-0.3	TP402 0-0.3	TP204 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17182	S21-Ap17184	S21-Ap17188	S21-Ap17193
Date Sampled			Apr 09, 2021	Apr 09, 2021	Apr 09, 2021	Apr 09, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
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	0.1	mg/kg	-	< 0.1	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.2	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.2	-	-
Dibutylchlorendate (surr.)	1	%	-	82	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	95	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	< 0.5	-	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	-
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	%	-	82	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	95	-	-
% Moisture	1	%	20	22	22	8.6
Polycyclic Aromatic Hydrocarbons						
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
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
2-Fluorobiphenyl (surr.)	1	%	76	-	83	93
p-Terphenyl-d14 (surr.)	1	%	93	-	101	104

Client Sample ID			TP201 0.5-0.6	TP400 0-0.3	TP402 0-0.3	TP204 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17182	S21-Ap17184	S21-Ap17188	S21-Ap17193
Date Sampled			Apr 09, 2021	Apr 09, 2021	Apr 09, 2021	Apr 09, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	2.7	-	8.6	< 2
Cadmium	0.4	mg/kg	< 0.4	-	< 0.4	< 0.4
Chromium	5	mg/kg	18	-	22	14
Copper	5	mg/kg	34	-	31	33
Lead	5	mg/kg	13	-	29	8.4
Mercury	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Nickel	5	mg/kg	20	-	23	16
Zinc	5	mg/kg	72	-	74	51
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-C36 (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	%	108	101	-	-
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	-	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	-	-

Client Sample ID			TP212 2.6-2.9	TP212 0.5-0.6	TP205 0-0.2	TP220 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17194	S21-Ap17196	S21-Ap17197	S21-Ap17200
Date Sampled			Apr 01, 2021	Apr 01, 2021	Apr 01, 2021	Apr 07, 2021
Test/Reference	LOR	Unit				
Acid Herbicides						
2.4-D	0.5	mg/kg	-	-	-	< 0.5
2.4-DB	0.5	mg/kg	-	-	-	< 0.5
2.4.5-T	0.5	mg/kg	-	-	-	< 0.5
2.4.5-TP	0.5	mg/kg	-	-	-	< 0.5
Actril (loxynil)	0.5	mg/kg	-	-	-	< 0.5
Dicamba	0.5	mg/kg	-	-	-	< 0.5
Dichlorprop	0.5	mg/kg	-	-	-	< 0.5
Dinitro-o-cresol	0.5	mg/kg	-	-	-	< 0.5
Dinoseb	0.5	mg/kg	-	-	-	< 0.5
MCPA	0.5	mg/kg	-	-	-	< 0.5

Client Sample ID			TP212 2.6-2.9	TP212 0.5-0.6	TP205 0-0.2	TP220 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17194	S21-Ap17196	S21-Ap17197	S21-Ap17200
Date Sampled			Apr 01, 2021	Apr 01, 2021	Apr 01, 2021	Apr 07, 2021
Test/Reference	LOR	Unit				
Acid Herbicides						
MCPB	0.5	mg/kg	-	-	-	< 0.5
Mecoprop	0.5	mg/kg	-	-	-	< 0.5
Warfarin (surr.)	1	%	-	-	-	67
% Moisture	1	%	14	18	8.3	18
Polycyclic Aromatic Hydrocarbons						
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	-	-
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	-	-
2-Fluorobiphenyl (surr.)	1	%	85	82	-	-
p-Terphenyl-d14 (surr.)	1	%	98	96	-	-
Heavy Metals						
Arsenic	2	mg/kg	9.2	8.8	9.7	23
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	20	25	19	44
Copper	5	mg/kg	34	32	28	64
Lead	5	mg/kg	17	42	33	37
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	21	17	19	25
Zinc	5	mg/kg	67	82	76	110
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-C36 (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	-

Client Sample ID			TP212 2.6-2.9	TP212 0.5-0.6	TP205 0-0.2	TP220 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17194	S21-Ap17196	S21-Ap17197	S21-Ap17200
Date Sampled			Apr 01, 2021	Apr 01, 2021	Apr 01, 2021	Apr 07, 2021
Test/Reference	LOR	Unit				
BTEX						
Xylenes - Total*	0.3	mg/kg	< 0.3	-	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	101	-	106	-
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	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	< 100	-

Client Sample ID			TP222 0.4-0.5	TP227 0.4-0.5	TP463 4.3-4.4	TP211 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17201	S21-Ap17202	S21-Ap17208	S21-Ap17210
Date Sampled			Apr 07, 2021	Apr 07, 2021	Apr 09, 2021	Apr 09, 2021
Test/Reference	LOR	Unit				
Acid Herbicides						
2.4-D	0.5	mg/kg	< 0.5	< 0.5	-	-
2.4-DB	0.5	mg/kg	< 0.5	< 0.5	-	-
2.4.5-T	0.5	mg/kg	< 0.5	< 0.5	-	-
2.4.5-TP	0.5	mg/kg	< 0.5	< 0.5	-	-
Actril (loxynil)	0.5	mg/kg	< 0.5	< 0.5	-	-
Dicamba	0.5	mg/kg	< 0.5	< 0.5	-	-
Dichlorprop	0.5	mg/kg	< 0.5	< 0.5	-	-
Dinitro-o-cresol	0.5	mg/kg	< 0.5	< 0.5	-	-
Dinoseb	0.5	mg/kg	< 0.5	< 0.5	-	-
MCPA	0.5	mg/kg	< 0.5	< 0.5	-	-
MCPB	0.5	mg/kg	< 0.5	< 0.5	-	-
Mecoprop	0.5	mg/kg	< 0.5	< 0.5	-	-
Warfarin (surr.)	1	%	61	77	-	-
% Moisture	1	%	29	19	20	11
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

Client Sample ID			TP222 0.4-0.5	TP227 0.4-0.5	TP463 4.3-4.4	TP211 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17201	S21-Ap17202	S21-Ap17208	S21-Ap17210
Date Sampled			Apr 07, 2021	Apr 07, 2021	Apr 09, 2021	Apr 09, 2021
Test/Reference	LOR	Unit				
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
2-Fluorobiphenyl (surr.)	1	%	84	88	85	84
p-Terphenyl-d14 (surr.)	1	%	100	99	99	99
Heavy Metals						
Arsenic	2	mg/kg	-	11	14	9.0
Cadmium	0.4	mg/kg	-	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	-	20	23	19
Copper	5	mg/kg	-	31	59	28
Lead	5	mg/kg	-	16	23	42
Mercury	0.1	mg/kg	-	< 0.1	< 0.1	0.2
Nickel	5	mg/kg	-	10	29	12
Zinc	5	mg/kg	-	45	110	120

Client Sample ID			BH434_0.0-0.15	BH435_0.0-0.1	BH436_0.0-0.15	BH437_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap20355	S21-Ap20356	S21-Ap20357	S21-Ap20358
Date Sampled			Apr 09, 2021	Apr 09, 2021	Apr 09, 2021	Apr 09, 2021
Test/Reference	LOR	Unit				
% Moisture	1	%	18	25	21	18
Polycyclic Aromatic Hydrocarbons						
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
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
2-Fluorobiphenyl (surr.)	1	%	84	-	81	76
p-Terphenyl-d14 (surr.)	1	%	96	-	97	93

Client Sample ID			BH434_0.0-0.15	BH435_0.0-0.1	BH436_0.0-0.15	BH437_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap20355	S21-Ap20356	S21-Ap20357	S21-Ap20358
Date Sampled			Apr 09, 2021	Apr 09, 2021	Apr 09, 2021	Apr 09, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	7.7	-	-	8.1
Cadmium	0.4	mg/kg	< 0.4	-	-	< 0.4
Chromium	5	mg/kg	19	-	-	22
Copper	5	mg/kg	36	-	-	43
Lead	5	mg/kg	19	-	-	22
Mercury	0.1	mg/kg	< 0.1	-	-	< 0.1
Nickel	5	mg/kg	13	-	-	16
Zinc	5	mg/kg	83	-	-	99
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-C36 (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	%	-	90	104	-
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	-
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	< 100	-

Client Sample ID			BH437_0.3-0.4	BH440_0.0-0.2	BH440_0.4-0.5	BH441_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap20359	S21-Ap20362	S21-Ap20363	S21-Ap20364
Date Sampled			Apr 09, 2021	Apr 09, 2021	Apr 09, 2021	Apr 09, 2021
Test/Reference	LOR	Unit				
% Moisture	1	%	17	28	17	22
Polycyclic Aromatic Hydrocarbons						
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
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

Client Sample ID			BH437_0.3-0.4	BH440_0.0-0.2	BH440_0.4-0.5	BH441_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap20359	S21-Ap20362	S21-Ap20363	S21-Ap20364
Date Sampled			Apr 09, 2021	Apr 09, 2021	Apr 09, 2021	Apr 09, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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
2-Fluorobiphenyl (surr.)	1	%	-	82	-	83
p-Terphenyl-d14 (surr.)	1	%	-	97	-	102
Heavy Metals						
Arsenic	2	mg/kg	-	-	9.3	9.2
Cadmium	0.4	mg/kg	-	-	< 0.4	< 0.4
Chromium	5	mg/kg	-	-	21	22
Copper	5	mg/kg	-	-	41	42
Lead	5	mg/kg	-	-	23	25
Mercury	0.1	mg/kg	-	-	< 0.1	< 0.1
Nickel	5	mg/kg	-	-	15	16
Zinc	5	mg/kg	-	-	92	94
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-C36 (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	%	79	103	-	-
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	-	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	-	-

Client Sample ID			BH442_0.0-0.1	BH443_0.0-0.3	BH445_0.4-0.6	BH446_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap20365	S21-Ap20366	S21-Ap20368	S21-Ap20369
Date Sampled			Apr 09, 2021	Apr 09, 2021	Apr 09, 2021	Apr 09, 2021
Test/Reference	LOR	Unit				
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	0.1	mg/kg	< 0.1	-	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2	-	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2	-	-	-
Dibutylchlorendate (surr.)	1	%	72	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	92	-	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1221	0.1	mg/kg	< 0.1	-	-	-
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	%	72	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	92	-	-	-
% Moisture	1	%	24	20	20	22
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

Client Sample ID			BH442_0.0-0.1	BH443_0.0-0.3	BH445_0.4-0.6	BH446_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap20365	S21-Ap20366	S21-Ap20368	S21-Ap20369
Date Sampled			Apr 09, 2021	Apr 09, 2021	Apr 09, 2021	Apr 09, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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	%	93	86	82	85
p-Terphenyl-d14 (surr.)	1	%	87	79	91	100
Heavy Metals						
Arsenic	2	mg/kg	5.5	5.4	7.5	-
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	-
Chromium	5	mg/kg	15	13	24	-
Copper	5	mg/kg	24	28	38	-
Lead	5	mg/kg	16	15	21	-
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Nickel	5	mg/kg	11	9.9	16	-
Zinc	5	mg/kg	46	64	73	-
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-C36 (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	%	-	64	101	-
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	-
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	< 100	-

Client Sample ID			BH442_0.0-0.1	BH443_0.0-0.3	BH445_0.4-0.6	BH446_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap20365	S21-Ap20366	S21-Ap20368	S21-Ap20369
Date Sampled			Apr 09, 2021	Apr 09, 2021	Apr 09, 2021	Apr 09, 2021
Test/Reference	LOR	Unit				
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	-	< 0.5	-	-
2.4-Dichlorophenol	0.5	mg/kg	-	< 0.5	-	-
2.4.5-Trichlorophenol	1	mg/kg	-	< 1	-	-
2.4.6-Trichlorophenol	1	mg/kg	-	< 1	-	-
2.6-Dichlorophenol	0.5	mg/kg	-	< 0.5	-	-
4-Chloro-3-methylphenol	1	mg/kg	-	< 1	-	-
Pentachlorophenol	1	mg/kg	-	< 1	-	-
Tetrachlorophenols - Total	10	mg/kg	-	< 10	-	-
Total Halogenated Phenol*	1	mg/kg	-	< 1	-	-
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	-	< 20	-	-
2-Methyl-4.6-dinitrophenol	5	mg/kg	-	< 5	-	-
2-Methylphenol (o-Cresol)	0.2	mg/kg	-	< 0.2	-	-
2-Nitrophenol	1	mg/kg	-	< 1	-	-
2.4-Dimethylphenol	0.5	mg/kg	-	< 0.5	-	-
2.4-Dinitrophenol	5	mg/kg	-	< 5	-	-
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	-	< 0.4	-	-
4-Nitrophenol	5	mg/kg	-	< 5	-	-
Dinoseb	20	mg/kg	-	< 20	-	-
Phenol	0.5	mg/kg	-	< 0.5	-	-
Total Non-Halogenated Phenol*	20	mg/kg	-	< 20	-	-
Phenol-d6 (surr.)	1	%	-	58	-	-

Client Sample ID			BH447_0.0-0.15
Sample Matrix			Soil
Eurofins Sample No.			S21-Ap20370
Date Sampled			Apr 09, 2021
Test/Reference	LOR	Unit	
% Moisture	1	%	24
Polycyclic Aromatic Hydrocarbons			
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
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

Client Sample ID			BH447_0.0-0.15
Sample Matrix			**Soil**
Eurofins Sample No.			**S21-Ap20370**
Date Sampled			**Apr 09, 2021**
Test/Reference	LOR	Unit	
Polycyclic Aromatic Hydrocarbons			
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
2-Fluorobiphenyl (surr.)	1	%	87
p-Terphenyl-d14 (surr.)	1	%	97
Heavy Metals			
Arsenic	2	mg/kg	7.4
Cadmium	0.4	mg/kg	< 0.4
Chromium	5	mg/kg	23
Copper	5	mg/kg	32
Lead	5	mg/kg	20
Mercury	0.1	mg/kg	< 0.1
Nickel	5	mg/kg	13
Zinc	5	mg/kg	58

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
Organochlorine Pesticides	Sydney	Apr 17, 2021	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Polychlorinated Biphenyls	Sydney	Apr 17, 2021	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Acid Herbicides	Melbourne	Apr 16, 2021	14 Days
- Method: LTM-ORG-2180 Phenoxy Acid Herbicides			
% Clay	Brisbane	Apr 19, 2021	14 Days
- Method: LTM-GEN-7040			
pH (1:5 Aqueous extract at 25°C as rec.)	Sydney	Apr 17, 2021	7 Days
- Method: LTM-GEN-7090 pH in soil by ISE			
% Moisture	Sydney	Apr 14, 2021	14 Days
- Method: LTM-GEN-7080 Moisture			
Conductivity (1:5 aqueous extract at 25°C as rec.)	Sydney	Apr 17, 2021	7 Days
- Method: LTM-INO-4030 Conductivity			
Cation Exchange Capacity	Melbourne	Apr 20, 2021	180 Days
- Method: LTM-MET-3060 Cation Exchange Capacity by bases & Exchangeable Sodium Percentage			
Polycyclic Aromatic Hydrocarbons	Sydney	Apr 17, 2021	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Metals M8	Sydney	Apr 17, 2021	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Apr 17, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Apr 17, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Apr 17, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Apr 17, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Phenols (Halogenated)	Sydney	Apr 17, 2021	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Phenols (non-Halogenated)	Sydney	Apr 17, 2021	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**															
1	BH273 0-0.2	Apr 09, 2021		Soil	S21-Ap17173							X		X	X					
2	BH273 0.4-0.5	Apr 09, 2021		Soil	S21-Ap17174	X				X	X		X		X	X				
3	BH274 0-0.2	Apr 09, 2021		Soil	S21-Ap17175								X		X					
4	BH275 0-0.2	Apr 09, 2021		Soil	S21-Ap17176						X	X	X		X					
5	BH276 0.4-0.5	Apr 09, 2021		Soil	S21-Ap17177										X				X	
6	BH293 0.6-0.7	Apr 09, 2021		Soil	S21-Ap17178						X		X		X					
7	TP215-1.7-1.8	Apr 09, 2021		Soil	S21-Ap17179						X				X			X		
8	TP201 0-0.2AQ	Apr 09, 2021		Soil	S21-Ap17180		X													

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
9	TP201 0-0.2	Apr 09, 2021		Soil	S21-Ap17181						X		X		X					
10	TP201 0.5-0.6	Apr 09, 2021		Soil	S21-Ap17182										X		X			
11	TP400 0-0.3	Apr 09, 2021		Soil	S21-Ap17183		X													
12	TP400 0-0.3	Apr 09, 2021		Soil	S21-Ap17184									X	X			X		
13	TP401 0-0.3	Apr 09, 2021		Soil	S21-Ap17185		X													
14	TP401 0-0.3	Apr 09, 2021		Soil	S21-Ap17186			X												
15	TP402 0-0.3	Apr 09, 2021		Soil	S21-Ap17187		X													
16	TP402 0-0.3	Apr 09, 2021		Soil	S21-Ap17188						X		X		X					
17	TP405 0-0.4	Apr 09, 2021		Soil	S21-Ap17189		X													
18	TP404 0-0.4	Apr 09, 2021		Soil	S21-Ap17190		X													
19	TP403 0-0.3	Apr 09, 2021		Soil	S21-Ap17191		X													

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
20	TP204 0-0.1	Apr 09, 2021		Soil	S21-Ap17192		X													
21	TP204 0-0.1	Apr 09, 2021		Soil	S21-Ap17193						X		X		X					
22	TP212 2.6-2.9	Apr 01, 2021		Soil	S21-Ap17194										X		X			
23	TP212 1-1.1	Apr 01, 2021		Soil	S21-Ap17195		X													
24	TP212 0.5-0.6	Apr 01, 2021		Soil	S21-Ap17196						X		X		X					
25	TP205 0-0.2	Apr 01, 2021		Soil	S21-Ap17197										X				X	
26	TRIP SPIKE	Apr 09, 2021		Water	S21-Ap17198			X												
27	TRIP BLANK	Apr 09, 2021		Water	S21-Ap17199			X												
28	TP220 0-0.1	Apr 07, 2021		Soil	S21-Ap17200							X	X		X					
29	TP222 0.4-0.5	Apr 07, 2021		Soil	S21-Ap17201						X	X			X					
30	TP227 0.4-0.5	Apr 07, 2021		Soil	S21-Ap17202						X	X	X		X					

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
31	TP464 1.6-2.3	Apr 09, 2021		Soil	S21-Ap17203		X													
32	TP453 0-0.9	Apr 09, 2021		Soil	S21-Ap17204		X													
33	TP462 2-3	Apr 09, 2021		Soil	S21-Ap17205		X													
34	TP463 0.8-1.8	Apr 09, 2021		Soil	S21-Ap17206		X													
35	TP463 2.8-3.8	Apr 09, 2021		Soil	S21-Ap17207		X													
36	TP463 4.3-4.4	Apr 09, 2021		Soil	S21-Ap17208						X		X		X					
37	TP448 0-0.3	Apr 09, 2021		Soil	S21-Ap17209		X													
38	TP211 0-0.1	Apr 09, 2021		Soil	S21-Ap17210						X		X		X					
39	BH274 0.4-0.5	Apr 09, 2021		Soil	S21-Ap17211				X											
40	BH275 0.4-0.5	Apr 09, 2021		Soil	S21-Ap17212				X											
41	BH276 0-0.2	Apr 09, 2021		Soil	S21-Ap17213				X											

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
42	BH273 0-0.2	Apr 09, 2021		Soil	S21-Ap17214				X											
43	TP214-0-0.1	Apr 09, 2021		Soil	S21-Ap17215				X											
44	TP214-0.4-0.5	Apr 09, 2021		Soil	S21-Ap17216				X											
45	TP215-0-0.1	Apr 09, 2021		Soil	S21-Ap17217				X											
46	TP215-0.4-0.5	Apr 09, 2021		Soil	S21-Ap17218				X											
47	TP215-1-1	Apr 09, 2021		Soil	S21-Ap17219				X											
48	TP219-0-0.1	Apr 09, 2021		Soil	S21-Ap17220				X											
49	TP219-0.4-0.5	Apr 09, 2021		Soil	S21-Ap17221				X											
50	TP400 0.4-0.6	Apr 09, 2021		Soil	S21-Ap17222				X											
51	TP401 0.4-0.6	Apr 09, 2021		Soil	S21-Ap17223				X											
52	TP402 0.4-0.6	Apr 09, 2021		Soil	S21-Ap17224				X											

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

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Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
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PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
35 O'Rorke Road
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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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
53	TP458 0-0.9	Apr 09, 2021		Soil	S21-Ap17225				X											
54	TP204 0.4-0.5	Apr 09, 2021		Soil	S21-Ap17226				X											
55	TP212 1-1.1	Apr 01, 2021		Soil	S21-Ap17227			X												
56	TP212 1-1.1	Apr 01, 2021		Soil	S21-Ap17228				X											
57	TP212 2-2.1	Apr 01, 2021		Soil	S21-Ap17229				X											
58	TP212 0-0.1	Apr 01, 2021		Soil	S21-Ap17230				X											
59	TP205 0.4-0.5	Apr 01, 2021		Soil	S21-Ap17231				X											
60	TP220 0.4-0.5	Apr 07, 2021		Soil	S21-Ap17232				X											
61	TP226 0.1-0.2	Apr 07, 2021		Soil	S21-Ap17233				X											
62	TP226 0.4-0.5	Apr 07, 2021		Soil	S21-Ap17234				X											
63	TP222 0.1-0.2	Apr 07, 2021		Soil	S21-Ap17235				X											

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
64	TP227 0-0.1	Apr 07, 2021		Soil	S21-Ap17236				X											
65	TP464 1-1.6	Apr 09, 2021		Soil	S21-Ap17237				X											
66	TP464 2.3-2.4	Apr 09, 2021		Soil	S21-Ap17238				X											
67	TP462 0-1	Apr 09, 2021		Soil	S21-Ap17239				X											
68	TP462 1-2	Apr 09, 2021		Soil	S21-Ap17240				X											
69	TP462 3-3.8	Apr 09, 2021		Soil	S21-Ap17241				X											
70	TP463 0-0.8	Apr 09, 2021		Soil	S21-Ap17242				X											
71	TP463 1.8-2.8	Apr 09, 2021		Soil	S21-Ap17243				X											
72	TP463 3.8-4.2	Apr 09, 2021		Soil	S21-Ap17244				X											
73	TP463 4.2-4.7	Apr 09, 2021		Soil	S21-Ap17245				X											
74	TP211 0.6-0.7	Apr 09, 2021		Soil	S21-Ap17246				X											

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Australia

Melbourne
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Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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
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Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

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Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
75	TP212 0.5-0.6	Apr 09, 2021		Soil	S21-Ap17247				X											
76	TP212 0-0.01	Apr 09, 2021		Soil	S21-Ap17248				X											
77	BH434_0.0-0.15	Apr 09, 2021		Soil	S21-Ap20355		X				X		X		X					
78	BH435_0.0-0.1	Apr 09, 2021		Soil	S21-Ap20356		X								X			X		
79	BH436_0.0-0.15	Apr 09, 2021		Soil	S21-Ap20357		X				X				X			X		
80	BH437_0.0-0.2	Apr 09, 2021		Soil	S21-Ap20358		X				X		X		X					
81	BH437_0.3-0.4	Apr 09, 2021		Soil	S21-Ap20359										X			X		
82	BH438_0.0-0.2	Apr 09, 2021		Soil	S21-Ap20360		X													
83	BH439_0.0-0.15	Apr 09, 2021		Soil	S21-Ap20361		X													

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Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
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1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
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Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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

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Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
84	BH440_0.0-0.2	Apr 09, 2021		Soil	S21-Ap20362		X				X				X			X		
85	BH440_0.4-0.5	Apr 09, 2021		Soil	S21-Ap20363								X		X					
86	BH441_0.0-0.2	Apr 09, 2021		Soil	S21-Ap20364						X		X		X					
87	BH442_0.0-0.1	Apr 09, 2021		Soil	S21-Ap20365		X				X		X	X	X					
88	BH443_0.0-0.3	Apr 09, 2021		Soil	S21-Ap20366		X								X					X
89	BH444_0.0-0.3	Apr 09, 2021		Soil	S21-Ap20367		X													
90	BH445_0.4-0.6	Apr 09, 2021		Soil	S21-Ap20368										X		X			
91	BH446_0.0-0.2	Apr 09, 2021		Soil	S21-Ap20369		X				X				X					
92	BH447_0.0-0.15	Apr 09, 2021		Soil	S21-Ap20370		X				X		X		X					
93	BH434_0.2-0.3	Apr 09, 2021		Soil	S21-Ap20371				X											

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
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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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

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Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

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Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
94	BH435_0.3-0.4	Apr 09, 2021		Soil	S21-Ap20372				X											
95	BH436_0.2-0.3	Apr 09, 2021		Soil	S21-Ap20373				X											
96	BH438_0.2-0.4	Apr 09, 2021		Soil	S21-Ap20374				X											
97	BH439_0.2-0.4	Apr 09, 2021		Soil	S21-Ap20375				X											
98	BH441_0.3-0.4	Apr 09, 2021		Soil	S21-Ap20376				X											
99	BH442_0.3-0.4	Apr 09, 2021		Soil	S21-Ap20377				X											
100	BH443_0.5-0.6	Apr 09, 2021		Soil	S21-Ap20378				X											
101	BH444_0.5-0.6	Apr 09, 2021		Soil	S21-Ap20379				X											
102	BH446_0.3-0.6	Apr 09, 2021		Soil	S21-Ap20380				X											
103	BH447_0.2-0.4	Apr 09, 2021		Soil	S21-Ap20381				X											
104	BH445_0.0-0.2	Apr 09, 2021		Soil	S21-Ap20549				X											

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Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
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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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
105	TP200_0.4-0.5	Apr 09, 2021		Soil	S21-Ap22373				X											
106	TP213_0.3-0.4	Apr 09, 2021		Soil	S21-Ap22374				X											
107	BH221_0.3-0.4-0.5	Apr 09, 2021		Soil	S21-Ap22375				X											
108	TP200_0.0-0.4AQ	Apr 09, 2021		Soil	S21-Ap22376				X											
109	TP213_0.0-0.1	Apr 09, 2021		Soil	S21-Ap22377				X											
110	TP214_0.0-0.2	Apr 09, 2021		Soil	S21-Ap22378				X											
111	BH221_0.0-0.1	Apr 09, 2021		Soil	S21-Ap22379				X											
112	TP463_0.8-1.8	Apr 09, 2021		Soil	S21-Ap22380				X											
113	TP463_2.8-3.8AQ	Apr 09, 2021		Soil	S21-Ap22381				X											

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
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Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
114	TP464_0.0-1.0AQ	Apr 09, 2021		Soil	S21-Ap22382				X											
Test Counts						1	27	6	59	1	20	5	18	3	33	1	5	6	2	1

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.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

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 and 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.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
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 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

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, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene 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 Aroclor 1260 in Matrix Spikes and LCS.
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 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							
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	
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	< 0.1			0.1	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.5			0.5	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	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							
Conductivity (1:5 aqueous extract at 25°C as rec.)	uS/cm	< 10			10	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	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
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	
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 >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							
Phenols (Halogenated)							
2-Chlorophenol	mg/kg	< 0.5			0.5	Pass	
2.4-Dichlorophenol	mg/kg	< 0.5			0.5	Pass	
2.4.5-Trichlorophenol	mg/kg	< 1			1	Pass	
2.4.6-Trichlorophenol	mg/kg	< 1			1	Pass	
2.6-Dichlorophenol	mg/kg	< 0.5			0.5	Pass	
4-Chloro-3-methylphenol	mg/kg	< 1			1	Pass	
Pentachlorophenol	mg/kg	< 1			1	Pass	
Tetrachlorophenols - Total	mg/kg	< 10			10	Pass	
Method Blank							
Phenols (non-Halogenated)							
2-Cyclohexyl-4.6-dinitrophenol	mg/kg	< 20			20	Pass	
2-Methyl-4.6-dinitrophenol	mg/kg	< 5			5	Pass	
2-Methylphenol (o-Cresol)	mg/kg	< 0.2			0.2	Pass	
2-Nitrophenol	mg/kg	< 1			1	Pass	
2.4-Dimethylphenol	mg/kg	< 0.5			0.5	Pass	
2.4-Dinitrophenol	mg/kg	< 5			5	Pass	
3&4-Methylphenol (m&p-Cresol)	mg/kg	< 0.4			0.4	Pass	
4-Nitrophenol	mg/kg	< 5			5	Pass	
Dinoseb	mg/kg	< 20			20	Pass	
Phenol	mg/kg	< 0.5			0.5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	92			70-130	Pass	
4.4'-DDD	%	83			70-130	Pass	
4.4'-DDE	%	89			70-130	Pass	
4.4'-DDT	%	90			70-130	Pass	
a-BHC	%	93			70-130	Pass	
Aldrin	%	88			70-130	Pass	
b-BHC	%	96			70-130	Pass	
d-BHC	%	98			70-130	Pass	
Dieldrin	%	93			70-130	Pass	
Endosulfan I	%	89			70-130	Pass	
Endosulfan II	%	111			70-130	Pass	
Endosulfan sulphate	%	78			70-130	Pass	
Endrin	%	90			70-130	Pass	
Endrin aldehyde	%	84			70-130	Pass	
Endrin ketone	%	91			70-130	Pass	
g-BHC (Lindane)	%	94			70-130	Pass	
Heptachlor	%	89			70-130	Pass	
Heptachlor epoxide	%	95			70-130	Pass	
Hexachlorobenzene	%	75			70-130	Pass	
Methoxychlor	%	84			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1016	%	78			70-130	Pass	
Aroclor-1260	%	95			70-130	Pass	
LCS - % Recovery							
Conductivity (1:5 aqueous extract at 25°C as rec.)	%	99			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	84			70-130	Pass	
Acenaphthylene	%	92			70-130	Pass	
Anthracene	%	86			70-130	Pass	
Benz(a)anthracene	%	95			70-130	Pass	
Benzo(a)pyrene	%	104			70-130	Pass	
Benzo(b&j)fluoranthene	%	111			70-130	Pass	
Benzo(g.h.i)perylene	%	93			70-130	Pass	
Benzo(k)fluoranthene	%	82			70-130	Pass	
Chrysene	%	91			70-130	Pass	
Dibenz(a.h)anthracene	%	90			70-130	Pass	
Fluoranthene	%	97			70-130	Pass	
Fluorene	%	88			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	86			70-130	Pass	
Naphthalene	%	94			70-130	Pass	
Phenanthrene	%	86			70-130	Pass	
Pyrene	%	97			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	108			80-120	Pass	
Cadmium	%	107			80-120	Pass	
Chromium	%	107			80-120	Pass	
Copper	%	105			80-120	Pass	
Lead	%	109			80-120	Pass	
Mercury	%	118			80-120	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Nickel	%	106			80-120	Pass	
Zinc	%	106			80-120	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	101			70-130	Pass	
TRH C10-C14	%	95			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	101			70-130	Pass	
Toluene	%	104			70-130	Pass	
Ethylbenzene	%	101			70-130	Pass	
m&p-Xylenes	%	108			70-130	Pass	
o-Xylene	%	105			70-130	Pass	
Xylenes - Total*	%	107			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	70			70-130	Pass	
TRH C6-C10	%	99			70-130	Pass	
TRH >C10-C16	%	92			70-130	Pass	
LCS - % Recovery							
Phenols (Halogenated)							
2-Chlorophenol	%	82			30-130	Pass	
2.4-Dichlorophenol	%	80			30-130	Pass	
2.4.6-Trichlorophenol	%	75			30-130	Pass	
2.6-Dichlorophenol	%	87			30-130	Pass	
LCS - % Recovery							
Phenols (non-Halogenated)							
2-Methylphenol (o-Cresol)	%	75			30-130	Pass	
2-Nitrophenol	%	76			30-130	Pass	
3&4-Methylphenol (m&p-Cresol)	%	74			30-130	Pass	
Phenol	%	78			30-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S21-Ap17173	CP	%	92			70-130	Pass	
4.4'-DDD	S21-Ap17173	CP	%	91			70-130	Pass	
4.4'-DDE	S21-Ap17173	CP	%	90			70-130	Pass	
4.4'-DDT	S21-Ap17173	CP	%	87			70-130	Pass	
a-BHC	S21-Ap17173	CP	%	89			70-130	Pass	
Aldrin	S21-Ap17173	CP	%	85			70-130	Pass	
b-BHC	S21-Ap17173	CP	%	92			70-130	Pass	
d-BHC	S21-Ap17173	CP	%	94			70-130	Pass	
Dieldrin	S21-Ap17173	CP	%	93			70-130	Pass	
Endosulfan I	S21-Ap17173	CP	%	86			70-130	Pass	
Endosulfan II	S21-Ap17173	CP	%	97			70-130	Pass	
Endosulfan sulphate	S21-Ap17173	CP	%	85			70-130	Pass	
Endrin	S21-Ap17173	CP	%	93			70-130	Pass	
Endrin aldehyde	S21-Ap17173	CP	%	73			70-130	Pass	
Endrin ketone	S21-Ap17173	CP	%	90			70-130	Pass	
g-BHC (Lindane)	S21-Ap17173	CP	%	94			70-130	Pass	
Heptachlor	S21-Ap17173	CP	%	88			70-130	Pass	
Heptachlor epoxide	S21-Ap17173	CP	%	92			70-130	Pass	
Hexachlorobenzene	S21-Ap17173	CP	%	78			70-130	Pass	
Methoxychlor	S21-Ap17173	CP	%	80			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1016	S21-Ap19189	NCP	%	86			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S21-Ap17173	CP	%	99			70-130	Pass	
Acenaphthylene	S21-Ap17173	CP	%	93			70-130	Pass	
Anthracene	S21-Ap17173	CP	%	92			70-130	Pass	
Benz(a)anthracene	S21-Ap17173	CP	%	84			70-130	Pass	
Benzo(a)pyrene	S21-Ap17173	CP	%	86			70-130	Pass	
Benzo(b&j)fluoranthene	S21-Ap17173	CP	%	91			70-130	Pass	
Benzo(k)fluoranthene	S21-Ap17173	CP	%	92			70-130	Pass	
Chrysene	S21-Ap17173	CP	%	99			70-130	Pass	
Dibenz(a.h)anthracene	S21-Ap17173	CP	%	85			70-130	Pass	
Fluoranthene	S21-Ap17173	CP	%	97			70-130	Pass	
Fluorene	S21-Ap17173	CP	%	99			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S21-Ap17173	CP	%	81			70-130	Pass	
Naphthalene	S21-Ap17173	CP	%	96			70-130	Pass	
Phenanthrene	S21-Ap17173	CP	%	100			70-130	Pass	
Pyrene	S21-Ap17173	CP	%	98			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S21-Ap25272	NCP	%	90			75-125	Pass	
Cadmium	S21-Ap25272	NCP	%	97			75-125	Pass	
Chromium	S21-Ap25272	NCP	%	77			75-125	Pass	
Copper	S21-Ap25272	NCP	%	75			75-125	Pass	
Lead	S21-Ap25272	NCP	%	75			75-125	Pass	
Mercury	S21-Ap25272	NCP	%	82			75-125	Pass	
Nickel	S21-Ap25272	NCP	%	78			75-125	Pass	
Zinc	S21-Ap16694	NCP	%	122			75-125	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S21-Ap19128	NCP	%	89			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S21-Ap19128	NCP	%	101			70-130	Pass	
Toluene	S21-Ap19128	NCP	%	105			70-130	Pass	
Ethylbenzene	S21-Ap19128	NCP	%	102			70-130	Pass	
m&p-Xylenes	S21-Ap19128	NCP	%	104			70-130	Pass	
o-Xylene	S21-Ap19128	NCP	%	105			70-130	Pass	
Xylenes - Total*	S21-Ap19128	NCP	%	105			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S21-Ap24490	NCP	%	113			70-130	Pass	
TRH C6-C10	S21-Ap19128	NCP	%	85			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C10-C14	S21-Ap17179	CP	%	75			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH >C10-C16	S21-Ap17179	CP	%	72			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S21-Ap17210	CP	%	86			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Acenaphthylene	S21-Ap17210	CP	%	91			70-130	Pass	
Anthracene	S21-Ap17210	CP	%	85			70-130	Pass	
Benz(a)anthracene	S21-Ap17210	CP	%	97			70-130	Pass	
Benzo(a)pyrene	S21-Ap17210	CP	%	103			70-130	Pass	
Benzo(b&j)fluoranthene	S21-Ap17210	CP	%	112			70-130	Pass	
Benzo(g.h.i)perylene	S21-Ap17210	CP	%	88			70-130	Pass	
Benzo(k)fluoranthene	S21-Ap17210	CP	%	85			70-130	Pass	
Chrysene	S21-Ap17210	CP	%	93			70-130	Pass	
Dibenz(a.h)anthracene	S21-Ap17210	CP	%	96			70-130	Pass	
Fluoranthene	S21-Ap17210	CP	%	99			70-130	Pass	
Fluorene	S21-Ap17210	CP	%	90			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S21-Ap17210	CP	%	95			70-130	Pass	
Naphthalene	S21-Ap17210	CP	%	95			70-130	Pass	
Phenanthrene	S21-Ap17210	CP	%	86			70-130	Pass	
Pyrene	S21-Ap17210	CP	%	98			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	S21-Ap13529	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S21-Ap13529	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S21-Ap13529	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S21-Ap13529	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-BHC	S21-Ap13529	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S21-Ap13529	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	S21-Ap13529	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-BHC	S21-Ap13529	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S21-Ap13529	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S21-Ap13529	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S21-Ap13529	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S21-Ap13529	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S21-Ap13529	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S21-Ap13529	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S21-Ap13529	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	S21-Ap13529	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S21-Ap13529	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S21-Ap13529	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S21-Ap13529	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S21-Ap13529	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	S21-Ap13529	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1221	S21-Ap13529	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	S21-Ap13529	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1242	S21-Ap13529	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1248	S21-Ap13529	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1254	S21-Ap13529	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1260	S21-Ap13529	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Conductivity (1:5 aqueous extract at 25°C as rec.)	S21-Ap16725	NCP	uS/cm	780	780	<1	30%	Pass	
pH (1:5 Aqueous extract at 25°C as rec.)	S21-Ap16725	NCP	pH Units	8.2	8.1	<1	30%	Pass	

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-Ap17177	CP	mg/kg	14	11	20	30%	Pass	
Cadmium	S21-Ap17177	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S21-Ap17177	CP	mg/kg	29	24	20	30%	Pass	
Copper	S21-Ap17177	CP	mg/kg	24	20	18	30%	Pass	
Lead	S21-Ap17177	CP	mg/kg	18	15	18	30%	Pass	
Mercury	S21-Ap17177	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S21-Ap17177	CP	mg/kg	8.4	6.4	27	30%	Pass	
Zinc	S21-Ap17177	CP	mg/kg	37	31	19	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C10-C14	S21-Ap10200	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S21-Ap10200	NCP	mg/kg	61	64	5.0	30%	Pass	
TRH C29-C36	S21-Ap10200	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
TRH >C10-C16	S21-Ap10200	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S21-Ap10200	NCP	mg/kg	100	110	2.0	30%	Pass	
TRH >C34-C40	S21-Ap10200	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S21-Ap17178	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S21-Ap17178	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S21-Ap17178	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S21-Ap17178	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S21-Ap17178	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S21-Ap17178	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S21-Ap17178	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S21-Ap17178	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S21-Ap17178	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S21-Ap17178	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S21-Ap17178	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S21-Ap17178	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S21-Ap17178	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S21-Ap17178	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S21-Ap17178	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S21-Ap17178	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-Ap17184	CP	%	22	22	1.0	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-Ap17210	CP	%	11	10	5.0	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S21-Ap20366	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S21-Ap20366	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S21-Ap20366	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S21-Ap20366	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S21-Ap20366	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S21-Ap20366	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S21-Ap20366	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	

Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S21-Ap20366	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S21-Ap20366	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S21-Ap20369	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S21-Ap20369	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S21-Ap20369	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S21-Ap20369	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S21-Ap20369	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S21-Ap20369	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S21-Ap20369	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S21-Ap20369	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S21-Ap20369	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S21-Ap20369	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S21-Ap20369	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S21-Ap20369	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S21-Ap20369	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S21-Ap20369	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S21-Ap20369	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S21-Ap20369	CP	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
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

Authorised by:

Ursula Long	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)
Charl Du Preez	Senior Analyst-Inorganic (NSW)
Emily Rosenberg	Senior Analyst-Metal (VIC)
John Nguyen	Senior Analyst-Metal (NSW)
Jonathon Angell	Senior Analyst-Inorganic (QLD)
Joseph Edouard	Senior Analyst-Organic (VIC)

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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Grace Tuckwell

From: #AU04_Enviro_Sample_NSW
Subject: FW: Eurofins Test Results - Report 786604 : Site KEMPS CREEK DSI (60482)

From: Ryan Lill <rlill@jbsg.com.au>
Sent: Wednesday, 21 April 2021 6:05 PM
To: Ursula Long <UrsulaLong@eurofins.com>
Cc: Christopher Dagger <cdagger@jbsg.com.au>
Subject: RE: Eurofins Test Results - Report 786604 : Site KEMPS CREEK DSI (60482)

EXTERNAL EMAIL*

Hi Ursula,

Could I have the following sample analysed for asbestos on 3 day TAT – TP458_0-0.9 / 21-Ap17225

Kind Regards,
Ryan

Ryan Lill | Project Manager | JBS&G
Sydney | Melbourne | Adelaide | Perth | Brisbane | Canberra | Darwin | Wollongong | Bunbury
Level 1, 50 Margaret Street Sydney NSW 2000
T: 02 8245 0300 | M: 0468 771 734 | E: rlill@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
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From: UrsulaLong@eurofins.com <UrsulaLong@eurofins.com>
Sent: Wednesday, 21 April 2021 2:02 PM
To: Ryan Lill <rlill@jbsg.com.au>
Cc: Christopher Dagger <cdagger@jbsg.com.au>
Subject: Eurofins Test Results - Report 786604 : Site KEMPS CREEK DSI (60482)

[EXTERNAL EMAIL] Stop and think before opening attachments, clicking or responding.

Please find attached final results for your project in the subject header.

Regards

Ursula Long

Eurofins
Unit F3, Parkview Building
16 Mars Road
LANE COVE WEST NSW 2066

AUSTRALIA
Phone: +61 428 845 495
Email: UrsulaLong@eurofins.com
Website:environment.eurofins.com.au
EnviroNote 1108 - Emissions from Stationary Sources
EnviroNote 1103 - NATA Accreditation for Dioxins

Click here to report this email as spam.

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ABN: 50 005 085 521 www.eurofins.com.au EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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:	Ryan Lill
Project name:	ADDITIONAL KEMPS CREEK DSI
Project ID:	60482
Turnaround time:	3 Day
Date/Time received	Apr 21, 2021 6:05 PM
Eurofins reference	789056

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 Sample Receipt : 1.5 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:

Ursula Long on phone : or by email: UrsulaLong@eurofins.com

Results will be delivered electronically via email to Ryan Lill - rlill@jbsg.com.au.

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
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Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

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Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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	**Order No.:**	
Address:	Level 1, 50 Margaret St Sydney NSW 2000	**Report #:**	789056
		Phone:	02 8245 0300
		Fax:	
Project Name:	ADDITIONAL KEMPS CREEK DSI		
Project ID:	60482		

Received:	Apr 21, 2021 6:05 PM	
Due:	Apr 26, 2021	
Priority:	3 Day	
Contact Name:	Ryan Lill	

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines
Melbourne Laboratory - NATA Site # 1254 & 14271						
Sydney Laboratory - NATA Site # 18217						X
Brisbane Laboratory - NATA Site # 20794						
Perth Laboratory - NATA Site # 23736						
Mayfield Laboratory						
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	TP458_0-0.9	Apr 09, 2021		Soil	S21-Ap35665	X
Test Counts						1

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 and proficiency testing scheme providers reports.

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention:	Ryan Lill
Report	789056-AID
Project Name	ADDITIONAL KEMPS CREEK DSI
Project ID	60482
Received Date	Apr 21, 2021
Date Reported	Apr 26, 2021

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.*

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 and proficiency testing scheme providers reports.

Project Name ADDITIONAL KEMPS CREEK DSI
Project ID 60482
Date Sampled Apr 09, 2021
Report 789056-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
TP458_0-0.9	21-Ap35665	Apr 09, 2021	Approximate Sample 403g Sample consisted of: Brown coarse-grained soil, bitumen, plaster 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	Apr 21, 2021	Indefinite

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
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Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

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46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

New Zealand

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: ADDITIONAL KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 789056
Phone: 02 8245 0300
Fax:

Received: Apr 21, 2021 6:05 PM
Due: Apr 26, 2021
Priority: 3 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines
Melbourne Laboratory - NATA Site # 1254 & 14271						
Sydney Laboratory - NATA Site # 18217						X
Brisbane Laboratory - NATA Site # 20794						
Perth Laboratory - NATA Site # 23736						
Mayfield Laboratory - NATA Site # 25079						
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	TP458_0-0.9	Apr 09, 2021		Soil	S21-Ap35665	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 blue colour, 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 '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 Advice.

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: weight for weight basis	grams per kilogram
Filter loading:	fibres/100 graticule areas
Reported Concentration:	fibres/mL
Flowrate:	L/min

Terms

Dry	Sample is dried by heating prior to analysis
LOR	Limit of Reporting
COC	Chain of Custody
SRA	Sample Receipt Advice
ISO	International Standards Organisation
AS	Australian Standards
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 (2009), including supporting document Recommended Procedures for Laboratory Analysis of Asbestos in Soil (2011)
NEPM	National Environment Protection (Assessment of Site Contamination) Measure, 2013 (as amended)
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded and/or sound condition. For the purposes of the NEPM, ACM is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
AF	Asbestos Fines. Asbestos containing materials, including friable, weathered and bonded materials, able to pass a 7mm x 7mm sieve. Considered under the NEPM as equivalent to “non-bonded / friable”.
FA	Fibrous Asbestos. Asbestos containing materials in a friable and/or severely weathered condition. For the purposes of the NEPM, FA is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
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.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres in the matrix.

Comments

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	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N/A	Not applicable

Asbestos Counter/Identifier:

Laxman Dias	Senior Analyst-Asbestos (NSW)

Authorised by:

Chamath JHM Annakkage	Senior Analyst-Asbestos (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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1 of 2

Chain of Custody

JBS&G

PROJECT NO.: 66105	LABORATORY BATCH NO.:
PROJECT NAME: ALDINGTON - 02	SAMPLERS: MASSIMO CHAPMAN
DATE NEEDED BY: 3 Day TAT	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) .....SKnott.....@jbsg.com.au; (3) ...mchapman.....@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:
1e - 01	SOIL	20/3/24		BAG.		X		X	
02						X			
03						X			
04						X			
05						X			
06						X			
07						X			
08						X			
09						X			
10						X			
11						X			
12						X			
13						X			
14						X			
15						X			
16						X			
17						X			
18						X			
19						X			

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: MASSIMO CHAPMAN DATE: 20/3/24	CONSIGNMENT NOTE NO.	NAME: Matt Knott	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 20/3 6:30pm	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

1080081

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2 of 2

Chain of Custody

JBS&G

PROJECT NO.: 66105	LABORATORY BATCH NO.:
PROJECT NAME: ALDINGTON - 02	SAMPLERS: MASSIMO CHAPMAN
DATE NEEDED BY:	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) .....skraatt.....@jbsg.com.au; (3) .....mchapman.....@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:
1e - 20	SOIL	20/3/24		Bottle		X		X	
↓ 21	↓	↓		↓		X		X	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: MASSIMO CHAPMAN DATE: 20/3/24	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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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

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ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
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NATA# 2377
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NZBN: 9429046024954

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+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Samuel Knott
Project name:	ALDINGTON-02
Project ID:	66105
Turnaround time:	3 Day
Date/Time received	Mar 20, 2024 6:38 PM
Eurofins reference	1080081

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 Samuel Knott - sknott@jbsg.com.au.

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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: ALDINGTON-02
Project ID: 66105

Order No.:
Report #: 1080081
Phone: 02 8245 0300
Fax:

Received: Mar 20, 2024 6:38 PM
Due: Mar 25, 2024
Priority: 3 Day
Contact Name: Samuel Knott

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	1E - 1	Mar 20, 2024		Building Materials	S24-Ma0049133	X
2	1E - 2	Mar 20, 2024		Building Materials	S24-Ma0049134	X
3	1E - 3	Mar 20, 2024		Building Materials	S24-Ma0049135	X
4	1E - 4	Mar 20, 2024		Building Materials	S24-Ma0049136	X
5	1E - 5	Mar 20, 2024		Building Materials	S24-Ma0049137	X
6	1E - 6	Mar 20, 2024		Soil	S24-Ma0049138	X
7	1E - 7	Mar 20, 2024		Soil	S24-Ma0049139	X
8	1E - 8	Mar 20, 2024		Soil	S24-Ma0049140	X
9	1E - 9	Mar 20, 2024		Soil	S24-Ma0049141	X
10	1E - 10	Mar 20, 2024		Soil	S24-Ma0049142	X

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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

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Project Name: ALDINGTON-02
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Priority: 3 Day
Contact Name: Samuel Knott

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
11	1E - 11	Mar 20, 2024		Soil	S24-Ma0049143	X
12	1E - 12	Mar 20, 2024		Soil	S24-Ma0049144	X
13	1E - 13	Mar 20, 2024		Soil	S24-Ma0049145	X
14	1E - 14	Mar 20, 2024		Soil	S24-Ma0049146	X
15	1E - 15	Mar 20, 2024		Soil	S24-Ma0049147	X
16	1E - 16	Mar 20, 2024		Soil	S24-Ma0049148	X
17	1E - 17	Mar 20, 2024		Soil	S24-Ma0049149	X
18	1E - 18	Mar 20, 2024		Soil	S24-Ma0049150	X
19	1E - 19	Mar 20, 2024		Soil	S24-Ma0049151	X
20	1E - 20	Mar 20, 2024		Soil	S24-Ma0049152	X
21	1E - 21	Mar 20, 2024		Soil	S24-Ma0049153	X
Test Counts						21

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:	Samuel Knott
Report	1080081-AID
Project Name	ALDINGTON-02
Project ID	66105
Received Date	Mar 20, 2024
Date Reported	Mar 25, 2024

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 ALDINGTON-02
Project ID 66105
Date Sampled Mar 20, 2024
Report 1080081-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
1E - 1	24-Ma0049133	Mar 20, 2024	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.
1E - 2	24-Ma0049134	Mar 20, 2024	Approximate Sample 632g 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.
1E - 3	24-Ma0049135	Mar 20, 2024	Approximate Sample 706g 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.
1E - 4	24-Ma0049136	Mar 20, 2024	Approximate Sample 638g 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.
1E - 5	24-Ma0049137	Mar 20, 2024	Approximate Sample 580g 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.
1E - 6	24-Ma0049138	Mar 20, 2024	Approximate Sample 693g Sample consisted of: Brown coarse-grained clayey sandy soil, cement, bitumen like material, organic debris and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
1E - 7	24-Ma0049139	Mar 20, 2024	Approximate Sample 627g Sample consisted of: Brown coarse-grained clayey sandy soil, cement, bitumen like material, organic debris and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
1E - 8	24-Ma0049140	Mar 20, 2024	Approximate Sample 466g 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.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
1E - 9	24-Ma0049141	Mar 20, 2024	Approximate Sample 603g 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.
1E - 10	24-Ma0049142	Mar 20, 2024	Approximate Sample 627g 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.
1E - 11	24-Ma0049143	Mar 20, 2024	Approximate Sample 477g Sample consisted of: Brown fine-grained clayey sandy soil, charcoal, organic debris, and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
1E - 12	24-Ma0049144	Mar 20, 2024	Approximate Sample 617g Sample consisted of: Red-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.
1E - 13	24-Ma0049145	Mar 20, 2024	Approximate Sample 605g Sample consisted of: Red-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.
1E - 14	24-Ma0049146	Mar 20, 2024	Approximate Sample 874g Sample consisted of: Brown fine-grained sandy soil, charcoal, corroded metal, bitumen like material, organic debris and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
1E - 15	24-Ma0049147	Mar 20, 2024	Approximate Sample 684g Sample consisted of: Brown fine-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.
1E - 16	24-Ma0049148	Mar 20, 2024	Approximate Sample 368g 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.
1E - 17	24-Ma0049149	Mar 20, 2024	Approximate Sample 534g 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.
1E - 18	24-Ma0049150	Mar 20, 2024	Approximate Sample 803g 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.
1E - 19	24-Ma0049151	Mar 20, 2024	Approximate Sample 640g Sample consisted of: Brown coarse-grained clayey sandy soil, organic debris and rocks	AF: Chrysotile asbestos detected in compressed fibre cement material. Approximate raw weight of AF = 0.045g* Estimated asbestos content in AF = 0.0045g* Total estimated asbestos concentration in AF = 0.00070% 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
1E - 20	24-Ma0049152	Mar 20, 2024	Approximate Sample 399g Sample consisted of: Brown fine-grained clayey sandy soil, organic debris and rocks	ACM: Chrysotile and amosite asbestos detected in compressed fibre cement material. Approximate raw weight of ACM = 4.3g Total estimated asbestos content in ACM = 0.86g* Total estimated asbestos concentration in ACM = 0.22% w/w* Organic fibre detected. No trace asbestos detected.
1E - 21	24-Ma0049153	Mar 20, 2024	Approximate Sample 533g 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.

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, 2024	Indefinite

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Contact Name: Samuel Knott

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**	
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2	1E - 2	Mar 20, 2024		Building Materials	S24-Ma0049134	X
3	1E - 3	Mar 20, 2024		Building Materials	S24-Ma0049135	X
4	1E - 4	Mar 20, 2024		Building Materials	S24-Ma0049136	X
5	1E - 5	Mar 20, 2024		Building Materials	S24-Ma0049137	X
6	1E - 6	Mar 20, 2024		Soil	S24-Ma0049138	X
7	1E - 7	Mar 20, 2024		Soil	S24-Ma0049139	X
8	1E - 8	Mar 20, 2024		Soil	S24-Ma0049140	X
9	1E - 9	Mar 20, 2024		Soil	S24-Ma0049141	X
10	1E - 10	Mar 20, 2024		Soil	S24-Ma0049142	X

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
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Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
11	1E - 11	Mar 20, 2024		Soil	S24-Ma0049143	X
12	1E - 12	Mar 20, 2024		Soil	S24-Ma0049144	X
13	1E - 13	Mar 20, 2024		Soil	S24-Ma0049145	X
14	1E - 14	Mar 20, 2024		Soil	S24-Ma0049146	X
15	1E - 15	Mar 20, 2024		Soil	S24-Ma0049147	X
16	1E - 16	Mar 20, 2024		Soil	S24-Ma0049148	X
17	1E - 17	Mar 20, 2024		Soil	S24-Ma0049149	X
18	1E - 18	Mar 20, 2024		Soil	S24-Ma0049150	X
19	1E - 19	Mar 20, 2024		Soil	S24-Ma0049151	X
20	1E - 20	Mar 20, 2024		Soil	S24-Ma0049152	X
21	1E - 21	Mar 20, 2024		Soil	S24-Ma0049153	X
Test Counts						21

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**). This estimate is not NATA-accredited.
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

24-Ma0049140, 24-Ma0049143, 24-Ma0049148, 24-Ma0049152: 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:

Sayeed Abu	Senior Analyst-Asbestos

Authorised by:

Chamath JHM Annakkage	Senior Analyst-Asbestos

Glenn Jackson
Managing Director

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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Attachment 5 – JBS&G Logs

SOIL BOREHOLE BH434

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 09-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** RL

COMMENTS 1e/4f

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with no inclusions		BH434_0.0-0.2	0.1	10 Litre AQ taken. No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		BH434_0.2-0.3	0	No odours, staining or ACM observed.
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH435

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 09-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 1e/4f

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with no inclusions		BH435_0.0-0.1	0.1	10 Litre AQ taken. No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3					BH435_0.3-0.4	0	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH436

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 09-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 1e/4f

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with trace inclusions of plastic		BH436_0.0-0.2	0.1	10 Litre AQ taken. No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		BH436_0.2-0.3	0.1	No odours, staining or ACM observed.
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH437

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 09-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 1e/4f

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, moist, heterogeneous, low plasticity, firm with no inclusions		BH437_0.0-0.2	0.1	10 Litre AQ taken. No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3					BH437_0.3-0.4	0	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH438

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 09-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 1e/4f

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, moist, heterogeneous, low plasticity, firm with no inclusions		BH438_0.0-0.2	0	10 Litre AQ taken. No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		BH438_0.2-0.4	0.1	No odours, staining or ACM observed.
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH439

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 09-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 1e/4f

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, moist, heterogeneous, low plasticity, firm with no inclusions		BH439_0.0-0.2	0	10 Litre AQ taken. No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		BH439_0.2-0.4	0	No odours, staining or ACM observed.
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH440

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 09-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 1e/4f

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, moist, heterogeneous, low plasticity, firm with no inclusions		BH440_0.0-0.2	0	10 Litre AQ taken. No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH440_0.4-0.5		
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH441

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 09-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 1e/4f

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with no inclusions		BH441_0.0-0.2	0	10 Litre AQ taken. No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3					BH441_0.3-0.4	0.1	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH442

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 09-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 1e/4f

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with no inclusions		BH442_0.0-0.1	0	10 Litre AQ taken. No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3					BH442_0.3-0.4	0.2	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH443

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 09-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 1e/4f

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with no inclusions		BH443_0.0-0.3	0	10 Litre AQ taken. No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4							
		0.5					BH443_0.5-0.6	0.1	No odours, staining or ACM observed.
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH446

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 09-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 1e/4f

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, moist, heterogeneous, low plasticity, firm with no inclusions		BH446_0.0-0.2	0.1	10 Litre AQ taken. No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3					BH446_0.3-0.6	0	
		0.4							No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH447

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 09-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 1e/4f

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with trace inclusions of plastic		BH447_0.0-0.2	0	10 Litre AQ taken. No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		BH447_0.2-0.4	0.1	No odours, staining or ACM observed.
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

Disclaimer This log is intended for environmental not geotechnical purposes.

produced by ESlog.ESdat.net on 28 Apr 2021

TEST PIT TP445

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 09-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS x m	**LOGGED BY** RL

COMMENTS 1e/4f

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, moist, heterogeneous, low plasticity, firm with no inclusions		BH445_0.0-0.2	0.1	10 Litre AQ taken. No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH445_0.4-0.6	0	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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produced by ESlog.ESdat.net on 28 Apr 2021

TEST PIT TP448

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** CD

COMMENTS 1e/4f

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1 0.2 0.3		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with no inclusions		TP448_0.0-0.3	0	10 Litre AQ taken. No odours, staining or ACM observed.
		0.4 0.5 0.6 0.7 0.8 0.9 1		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9			Termination Depth at: 1.0 m.				

Disclaimer This log is intended for environmental not geotechnical purposes.

produced by ESlog.ESdat.net on 28 Apr 2021

TEST PIT TP458

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** CD

COMMENTS 1f/3c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9		Fill	Fill - Clayey Silt, light brown mottled red and white, damp, heterogeneous, moderate plasticity, firm with inclusions of some (20-35%) brick and tile		TP458_0-0.9	0	10 Litre AQ taken. No odours, staining or ACM observed.
		1 1.1 1.2 1.3 1.4		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		1.5 1.6 1.7 1.8 1.9			Termination Depth at: 1.4 m.				

JBS&G 66105/ 158,767
L005 - In-Situ Waste Classification Asbestos Impacted Material UF1_01

2 April 2024

Ahmad Ghalayini
Frasers Property Industrial Pty Ltd

In-Situ Waste Classification, Asbestos Impacted Material 1B and 6C, Edge South Development, Aldington Road, Kemps Creek (Rev A)

Dear Ahmad,

JBS&G Australia Pty Ltd (JBS&G) was engaged by Frasers Property Industrial Pty Ltd (FPI, the client) to provide a waste classification for off-site disposal of material associated with the excavation and removal of asbestos fines (AF) and fibrous asbestos (FA) impacted fill material within portions of the Edge South Development, 199 Aldington Road, Kemps Creek, NSW (the site). Validation samples were collected across the remedial extent of areas 1B and 6C (as UF1), with asbestos detected in the form of AF/FA at sample location UF1_01 and 6C_07. The waste classification documented herein, was prepared using historical data collected from the site as part of assessment works undertaken during April 2021, as documented in JBS&G (2021[1]). The location of the site and material (to which this waste classification pertains) are shown on **Figures 1** and **2** respectively (**Attachment 2**).

Details of the site, material encountered, and waste classification are provided below. The limitations included in **Attachment 1** apply to the advice provided herein.

1. Site and Assessment Area Legal Identifiers and Owner

Site Lot/DP and Address	Lot 33/ DP 258949 155 to 167 Aldington Road, Kemps Creek, NSW, 2178 Lot 28/ DP 255560 169 to 181 Aldington Road, Kemps Creek, NSW, 2178 Lot 27/ DP 255560 183 to 197 Aldington Road, Kemps Creek, NSW, 2178 Lot 26/ DP 255560 199 Aldington Road, Kemps Creek, NSW, 2178 Lot 25/ DP 255560 201 to 217 Aldington Road, Kemps Creek, NSW, 2178 Lot 24/DP 255560 219 to 233 Aldington Road, Kemps Creek, NSW 2178 Lot 10/DP 253503 235 to 251 Aldington Road, Kemps Creek, NSW 2178
Site (waste) Occupant	Frasers Property Industrial Pty Ltd
Local Government Authority	Penrith City Council
Site Area (total)	63.6
Investigation Area	Areas 1B and 6C of the site as shown in **Figure 2**, where asbestos has been identified.

[1] *Frasers Property Industrial Constructions Pty Ltd Detailed Site Investigation, Aldington Road Estate 155-167, 169-181, 183-197, 199 and 201-217, Aldington Road, Kemps Creek, NSW,* dated 11 August 2021, reference: 60482/137852 (Rev 2), JBS&G Australia Pty Ltd (JBS&G 2021)

2. Consultant Preparing Waste Classification

Name	JBS&G Australia Pty Ltd
Australian Business Number (ABN)	62 100 220 479
Address	Level 1, 50 Margaret Street, Sydney, NSW 2000.
Person(s) Providing Waste Classification	Sam Knott

3. Desktop Review

Site Setting	The portion of the site in which the materials are located was observed to comprise residential and shed structures associated with the agricultural use of the site. The site and surrounding areas largely comprise a mixture of agricultural and rural residential properties, as well as a construction site opposite 219-233 Aldington Road.
Production History of Materials	Materials the subject of this waste classification comprise in-situ fill (of unknown origin) which is to be excavated to remove identified asbestos fines, as shown on **Figure 2** (**Attachment 2**). This advice specifically relates to material within the 1B and 6C remedial extents identified to have AF/FA impacts, remedial areas are marked on **Figure 2**.
Acid Sulfate Soil (ASS)	Review of data using the SEED[2] tool, indicates the area occupied by the site is within an area not assessed for the presence of Acid Sulfate Soils (ASS). Such sites are identified by default, as areas where land management activities are not likely to be affected by ASS materials.
Potential Contaminating Activities?	Potentially contaminating activities identified during the site assessment include the previous importation and placement of fill materials across the site to establish current site levels, (poor) demolition of previous structures on site, potential impacts associated with former agricultural land uses (i.e. residences, sheds and roads), and stockpiling of wastes associated with residences and agricultural practices.

4. Material Characterisation and Sampling Rationale

Area/GPS Coordinates	See **Figure 1** and **2** (**Attachment 2**) for approximate location of the Assessment Area and sampling locations.
Estimated volume (m3)	Approximately 30 m^3 represented by UF1_01 and 6C_07 within the 1B and 6C areas, as shown in **Figure 2**.
Sampling Method	A total of 438 sample locations were completed as part of assessment works undertaken during April 2021, as documented in JBS&G (2021[3]). Boreholes were manually advanced via the use of hand tools (hand auger/shovel) and samples were collected at regular intervals from the surface soils (<0.1 m) to a maximum depth of 1.2 m bgs. Test pits were advanced utilising an excavator and/or backhoe and soil samples were collected directly from the bucket at regular intervals from the surface soils (<0.1 m), 0.3 m, 0.5 m then at every metre interval to maximum depth of 4.7 m bgs Representative samples were collected via a gloved hand using a fresh pair of disposable nitrile gloves at each sample location and placed into laboratory supplied jars and bags. During sample collection material was inspected for any potential indicators of contamination including staining, odours or asbestos containing material (ACM).

[2] https://www.seed.nsw.gov.au/ accessed 12 April 2021

[3] *Frasers Property Industrial Constructions Pty Ltd Detailed Site Investigation, Aldington Road Estate 155-167, 169-181, 183-197, 199 and 201-217, Aldington Road, Kemps Creek, NSW,* dated 11 August 2021, reference: 60482/137852 (Rev 2), JBS&G Australia Pty Ltd (JBS&G 2021)

	All samples were immediately placed into a chilled esky prior to delivery to the laboratory under appropriate chain of custody (COC) procedures.
Material Identification	Review of JBS&G field observations and the borehole and test pit logs has identified the site contains fill of varying description at a number of locations. The material classified in this assessment consists of the following: • Area 1B - Gravelly clayey silt, brown, dry, heterogeneous, low plasticity, firm with little (10-20%) inclusions of concrete, tile and plastic. • Area 6C - Clayey silt/silty clay (Reworked Natural), brown, damp, heterogeneous, low plasticity, soft with trace inclusions of rootlets. No odours or discolouration/staining were observed throughout the fill material, including odours or features (i.e. jarosite, sulfidic ores, shell material, and/or staining) which may indicate the presence of ASS.
Visible Signs of Contamination?	No
Visible ACM?	Yes
Visible Putrescible Material?	No
Number of Samples and Sample IDs	The JBS&G sampling activities included a total of 324 primary soil samples from 438 sampling locations across the site. Samples were submitted for laboratory analysis for chemical contaminants of potential concern (COPC) and asbestos. The analytical summary tables are presented as **Tables A**, and **B** (**Attachment 3**), with laboratory reports provided in **Attachment 4.**
Rational for Sampling Design	JBS&G undertook sampling in general accordance with the guidance for systematic grid-based sampling provided in EPA (2022[4]) *Sampling design part 1 – application, Contaminated Land Guidelines*, the site was stratified in accordance with the guidelines, generally samples were grid based with targeted locations completed in areas of concern. Samples were selected for analysis based on the anticipated depth of material potentially requiring off-site disposal, and where distinct lithologies were encountered. On this basis, the samples collected herein are considered to have appropriately characterised the material such that decisions may be made regarding a waste classification as per requirements.
QA/QC Assessment	A trip spike and blank were sent with the samples to ensure there was no loss of volatile organic compounds (VOCs) during transport, where analysis for VOCs was undertaken. The field sampling and handling procedures produced quality assurance (QA) and quality control (QC) results which indicate that the collected soil analytical data are of an acceptable quality and suitable for use as part of the waste classification assessment. The NATA certified laboratory results sheets indicate that the project laboratory was generally achieving levels of performance within its recommended control limits during the period when the samples for this project were analysed. On the basis of the results of the field and laboratory QA/QC program, the soil data is of an acceptable quality in order to achieve the objectives of the current assessment.
Toxicity Characteristic Leaching Procedure (TCLP) Samples	No

[4] *Contaminated Land Guidelines, Sampling design part 1 – application*, NSW Environment Protection Authority, August 2022 (EPA 2022)

Sampling Date	JBS&G sampling event(s): 8, 9, 12, 13, 14 and 15 April 2021; and 21 and 22 March 2024

5. Laboratory Analysis

Laboratory	Primary Laboratory: Eurofins Secondary Laboratory: Envirolab
All laboratory methods NATA certified?	Yes
Contaminants of Concern	Total recoverable hydrocarbons (TRH), Total petroleum hydrocarbons (TPH), benzene, toluene, ethylbenzene and xylenes (BTEX), benzo(a)pyrene, polycyclic aromatic hydrocarbons (PAH), Herbicides & Fungicides, heavy metals (As, Cd, Cr, Pb, Hg, Ni), Asbestos and phenols.
Laboratory Report Attached?	Yes (**Attachment 4**)
Additional Data Sources?	95% UCL calculations (**Attachment 6**)
Is the material covered by a General Immobilisation Approval?	No
Discussion of Results	A review of the laboratory analysis results has identified that contaminant concentrations across the site were reported as consistently low (except B(a)P, see below), and below the contaminant threshold (CT1) for general solid waste (GSW) in the *NSW EPA (2014) Waste Classification Guidelines – Part 1: Classifying Waste*. However, asbestos in the form of chrysotile AF/FA was identified by the laboratory in sample UF1_01 and 6C_07. It is noted that Nickel concentrations exceeded the CT1 criteria of 40 mg/kg in 3 samples, not in excess of 250% above the CT1 criteria. The 95% UCL assessment demonstrated that Nickel results were below the CT1 criteria at 14.98 mg/kg (95% UCL). Further, one sample reported Chromium at 110 mg/kg in exceedance of the CT1 criteria (100 mg/kg). The 95% UCL assessment of Chromium results showed that the results are below the CT1 criteria (23.36 mg/kg). It is noted that in 6C a benzo(a)pyrene result of 17 mg/kg was reported as part of JBS&G (2021) at TP395_0.3-0.4, and a result of 210 mg/kg at TP398 (subject to a separate waste classification and removed). This material type was reported as different from the remainder of the 6C area (Sandy Gravelly Silt, dry, heterogeneous, low plasticity, soft with inclusions of concrete blocks). As such, this material type is not included as part of this classification. Detailed laboratory results are provided in **Attachment 4,** 95% UCL concentrations in **Attachment 6**.

6. Waste Classification

Waste Classification	**Special Waste (Asbestos) mixed with General Solid Waste (GSW) non-putrescible** This waste classification only applies to the materials represented by validation sample UF1_01 and 6C_07.
Does 'Special Waste' apply?	Yes – Asbestos Waste The waste classification described herein only applies to asbestos impacted materials observed at UF1_01 and 6C_07.

Is the Material Classified as 'Hazardous Waste'?	No
Classification Comments	Should the material requiring off-site disposal be inconsistent with those described herein, additional assessment may be required, and JBS&G should be contacted to reassess the material prior to disposal. Additionally, it is recommended that JBS&G be present onsite during removal and disposal of asbestos contaminated fill materials described herein to ensure appropriate removal of impacted materials.
Disposal Comments	Waste must be transported by an appropriately licensed transporter and disposed to a facility that is licensed to receive that class of waste. Waste must be managed in accordance with relevant guidelines and regulations during loading, transport, unloading and disposal.

Notes

1. The estimated volume of waste is an indicative estimate only based on either client-supplied data or field observations including estimated elevation, extent and/or depths. For material characterised in-situ, a bulking factor may be applied.
2. Material observations including those relating to visible ACM and putrescible materials were made prior to material leaving the source site.
3. Wastes that are generally classified as putrescible include: green waste, agricultural, forestry and crop materials, and natural fibrous organic and vegetative materials, as per EPA (2014) *Waste Classification Guidelines, Part 1: Classifying Waste*.
4. Materials have been classified in accordance with EPA (2014) *Waste Classification Guidelines, Part 1: Classifying Waste*.
5. The disposal Facility or Facilities must be appropriately licensed under Schedule 1, Section 39; "Waste Disposal (Application to Land)", of the *Protection of the Environment Operations (POEO) Act 1997*. Disposal of 'Asbestos Waste', as defined under the Act and associated Waste Guidelines, is required to be managed in accordance with the *Protection of the Environment Operations (Waste) Regulation 2014* in terms of loading, transport, unloading and disposal. The *POEO Act 1997* states that if waste is transported to a facility not lawfully authorised as a waste facility for that waste, the owner, transporter and receiver of the waste are each guilty of an offence. The owner of waste includes, in relation to waste that has been transported, the person who was the owner of the waste immediately before it was transported. There are special considerations for transport and management including disposal of asbestos waste under the POEO (Waste) Regulation, including tracking and reporting of asbestos waste using NSW EPA Integrated Waste Tracking Solution (IWTS).

Should you require clarification, please contact Sam Knott on 02 8245 0300 or by email Sknott@jbsg.com.au.

Your Sincerely:

Sam Knott
Environmental Consultant
JBS&G Australia Pty Ltd

Reviewed/Approved by:

Seth Molinari
Senior Principal
JBS&G Australia Pty Ltd

Attachments:

(1) Limitations
(2) Figures
(3) Tables
(4) Laboratory Analysis Report and COCs
(5) JBS&G Logs
(6) 95% UCL Calculations

Attachment 1 – 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 2 – Figures

Legend

Approximate Site Boundary

JBS&G

Job No: 66105	
Client: Frasers Property Australia	
Version: R01 Rev B	Date 15/08/2023
Drawn By: IA	Checked By: RH

Scale 1:20,000

0 190 380

metres

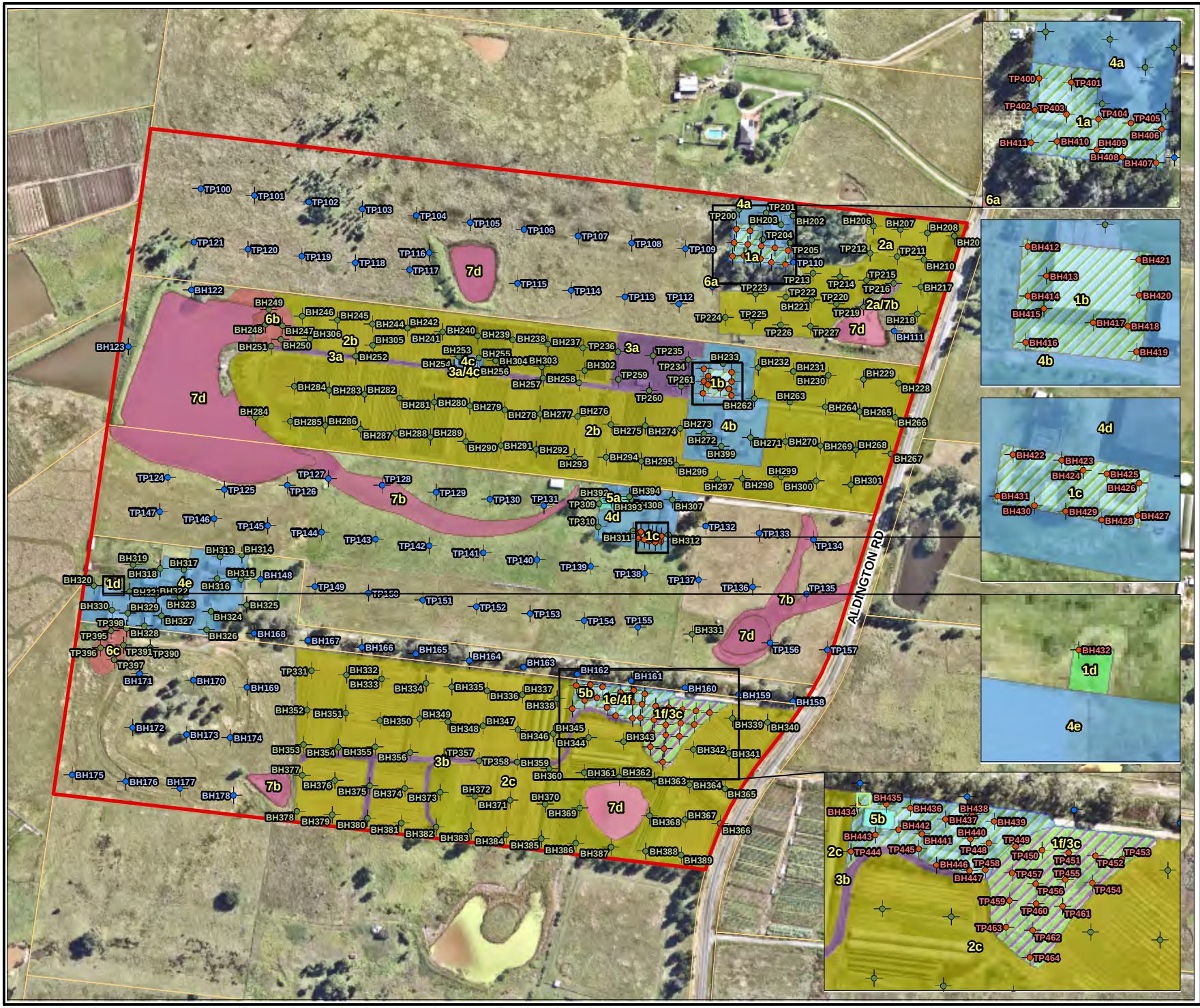
Coord. Sys. GDA 1994 MGA Zone 56

Aldington Road
Kemps Creek, NSW

SITE LOCATION

FIGURE 1

File Name: 65376_KempsCreek_FrasersProperty_R04
Reference: © OpenStreetMap (and) contributors, CC-BY-SA



Legend:

- Approximate Site Boundary
- NSW Cadastre (DFSI, 2021)

Areas of Environmental Concern

- 1. Known Asbestos Impacts
- 1.& 3. Known Asbestos Impacts & Imported Fill and Miscellaneous Waste
- 1.& 4. Known Asbestos Impacts & Current Site Structures
- 2. Current and Former Market Gardens
- 3. Imported Fill and Miscellaneous Waste
- 3. & 4. Imported Fill and Miscellaneous Waste and Current Site Structures
- 4. Current Site Structures
- 5. Petroleum Infrastructure and Chemical Storage
- 6. Building and Demolition Waste
- 7. Old Drainage Pathways and Dams
- 2. & 7. Old Drainage Pathways and Dams & Current and Former Market Gardens

Sample Locations (JBS&G 2021)

- Low Risk
- Medium Risk
- High Risk

JBS&G

Job No: 66105

Client: Frasers Property Australia Pty Ltd

Version: R01 Rev A	Date 3/05/2021
Drawn By: RF	Checked By: RL

Scale 1:4,750

0 50 100

metres

Coord. Sys. GDA 1994 MGA Zone 56

Kemps Creek
Aldington Road, NSW

SOIL SAMPLE LOCATIONS

FIGURE 2

File Name: N:\Projects\Frasers Property Australia\60482 Aldington Road Estate\GIS\Maps\R01 Rev A - DSI\60482_05a_SoilSampleLocations.mxd
Reference: Nearmap - nearmap.com.au - Imagery 07-04-2019

Attachment 3 - Tables

Table A - Soil
Project Number: 66105
Project Name: Aldington Road

						Metals & Metalloids								TPHs (NEPC 1999)					TRHs (NEPC 2013)							BTEXN						
						Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc	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 - MAH
						mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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	5	5	5	0.1	5	5	20	20	50	50	50	20	50	100	100	100	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[41]		100	4	40		650[40]				10000[42]								10	288	600			1000	
NSW 2014 General Solid Waste SCC1 (with leached)						500	100	1900[41]		1500	50	1050		650[40]				10000[42]								18	518	1080			1800	
Field ID	**Location**	**Sample_Depth_Range**	**Sampled_Date_Time**	**Matrix_Description**	**Monitoring_Round**	**Monitoring Zone**																										
BH111-0-0.1	BH111	0-0.1	12/04/2021			7a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH122 0-0.2	BH122	0-0.2	15/04/2021	Clayey Silt		7a	8.6	<0.4	13	50	15	<0.1	7.6	67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH123 0-0.2	BH123	0-0.2	15/04/2021	Clayey Silt		7a	9.9	<0.4	16	59	17	<0.1	9.4	80	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH158 0-0.2	BH158	0-0.2	15/04/2021	Clayey Silt		7a	-	-	-	-	-	-	-	-	<20	<20	<50	55	55	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH159 0-0.2	BH159	0-0.2	15/04/2021	Clayey Silt		7a	14	<0.4	18	7.9	16	<0.1	7.3	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH161 0-0.2	BH161	0-0.2	15/04/2021	Clayey Silt		7a	9.7	<0.4	14	7.7	14	<0.1	6.1	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH162 0.4-0.5	BH162	0.4-0.5	15/04/2021	Clay		7a	11	<0.4	15	8.3	12	<0.1	7.6	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH162 0-0.2	BH162	0-0.2	15/04/2021	Clayey Silt		7a	-	-	-	-	-	-	-	-	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH164 0.4-0.5	BH164	0.4-0.5	15/04/2021	Clay		7a	-	-	-	-	-	-	-	-	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH165 0-0.2	BH165	0-0.2	15/04/2021	Clayey Silt		7a	8.6	<0.4	11	6.2	14	<0.1	5.2	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH166 0-0.2	BH166	0-0.2	15/04/2021	Clayey Silt		7a	-	-	-	-	-	-	-	-	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH167 0-0.2	BH167	0-0.2	15/04/2021	Clayey Silt		7a	-	-	-	-	-	-	-	-	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH169 0-0.1	BH169	0-0.1	8/04/2021	Clayey Silt		7a	-	-	-	-	-	-	-	-	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH170 0-0.1	BH170	0-0.1	8/04/2021	Clayey Silt		7a	22	<0.4	19	22	21	<0.1	15	51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH171 0-0.1	BH171	0-0.1	8/04/2021	Clayey Silt		7a	9.3	<0.4	19	23	19	<0.1	13	67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH172 0.4-0.5	BH172	0.4-0.5	8/04/2021	Clay		7a	20	<0.4	19	19	15	<0.1	12	54	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH172 0-0.1	BH172	0-0.1	8/04/2021	Clayey Silt		7a	21	<0.4	15	14	22	<0.1	18	80	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH175 0-0.1	BH175	0-0.1	8/04/2021	Clayey Silt		7a	17	<0.4	24	17	25	<0.1	9.1	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH177 0.4-0.5	BH177	0.4-0.5	8/04/2021	Clay		7a	12	<0.4	26	33	14	<0.1	18	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH206-0.4-0.5	BH206	0.4-0.5	12/04/2021	Clay		2a	8.8	<0.4	24	30	20	<0.1	11	52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH207-0.4-0.5	BH207	0.4-0.5	12/04/2021	Clay		2a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH209-0-0.1	BH209	0-0.1	12/04/2021	Fill (Reworked Natural)		2a	7.9	<0.4	23	30	20	<0.1	12	56	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH210-0-0.1	BH210	0-0.1	12/04/2021	Fill (Reworked Natural)		2a	-	-	-	-	-	-	-	-	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH217-0-0.1	BH217	0-0.1	12/04/2021	Fill (Reworked Natural)		2a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH218-0-0.2	BH218	0-0.2	12/04/2021	Fill (Reworked Natural)		2a	6.9	<0.4	21	28	18	<0.1	11	48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH228-0-0.1	BH228	0-0.1	12/04/2021	Fill (Reworked Natural)		2b	-	-	-	-	-	-	-	-	<20	<20	84	130	214	<20	<50	190	120	310	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH229-0-0.1	BH229	0-0.1	12/04/2021	Fill (Reworked Natural)		2b	10	<0.4	31	24	18	<0.1	8.9	56	<20	<20	<50	62	62	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH230-0-0.1	BH230	0-0.1	12/04/2021	Fill (Reworked Natural)		2b	-	-	-	-	-	-	-	-	<20	<20	67	86	153	<20	<50	140	<100	140	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH239_0-0-0.1	BH239	0-0.1	13/04/2021	Fill (Reworked Natural)		2b	6.6	<0.4	22	46	21	<0.1	11	72	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH239_0.4-0.5	BH239	0.4-0.5	13/04/2021	Clay		2b	7.6	<0.4	24	26	24	<0.1	9.6	44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH240_0.0-0.1	BH240	0-0.1	13/04/2021	Fill (Reworked Natural)		2b	8.6	<0.4	22	42	22	<0.1	15	82	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH241_0.0-0.1	BH241	0-0.1	13/04/2021	Fill (Reworked Natural)		2b	9.4	<0.4	23	59	25	<0.1	13	87	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH242_0.0-0.1	BH242	0-0.1	13/04/2021	Fill (Reworked Natural)		2b	11	<0.4	21	31	18	<0.1	12	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH244 0.2-0.3	BH244	0.2-0.3	15/04/2021	Clay		2b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH244 0-0.1	BH244	0-0.1	15/04/2021	Fill (Reworked Natural)		2b	10	<0.4	16	29	19	<0.1	12	70	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH248 0-0.1	BH248	0-0.1	15/04/2021	Fill (Reworked Natural)		6b	12	<0.4	17	61	19	<0.1	9.7	87	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH249 0-0.2	BH249	0-0.2	15/04/2021	Fill (Reworked Natural)		6b	11	<0.4	18	81	22	<0.1	13	110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH250 0-0.2	BH250	0-0.2	15/04/2021	Fill (Reworked Natural)		6b	13	<0.4	21	81	23	<0.1	13	110	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH251 0-0.1	BH251	0-0.1	15/04/2021	Fill (Reworked Natural)		3a	9.2	<0.4	20	25	22	<0.1	9.7	78	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH252 0-0.1	BH252	0-0.1	15/04/2021	Fill (Reworked Natural)		3a	9.5	<0.4	20	25	22	<0.1	13	53	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH253 0-0.1	BH253	0-0.1	15/04/2021	Fill		4c	6.8	<0.4	21	35	22	<0.1	12	130	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH254 0-0.1	BH254	0-0.1	15/04/2021	Fill		3a/4c	8.5	<0.4	19	26	28	<0.1	13	70	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH255 0-0.1	BH255	0-0.1	15/04/2021	Fill		4c	7.7	<0.4	21	35	24	<0.1	13	83	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH256 0-0.1	BH256	0-0.1	15/04/2021	Fill		3a/4c	7.8	<0.4	20	29	22	<0.1	10	70	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH257 0-0.1	BH257	0-0.1	15/04/2021	Fill		3a	10	<0.4	20	82	25	<0.1	14	120	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH267-0-0.1	BH267	0-0.1	12/04/2021	Fill (Reworked Natural)		2b	14	<0.4	26	23	26	<0.1	16	64	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH268-0-0.1	BH268	0-0.1	12/04/2021	Fill (Reworked Natural)		2b	4.7	<0.4	18	20	17	<0.1	10	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH269-0.4-0.5	BH269	0.4-0.5	12/04/2021	Clay		2b	4.7	<0.4	23	26	15	<0.1	16	44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH270-0-0.1	BH270	0-0.1	12/04/2021	Fill (Reworked Natural)		2b	3.3	<0.4	19	17	13	<0.1	7.5	37	<20	<20	<50	60	60	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH271 0-0.1	BH271	0-0.1	14/04/2021	Fill (Reworked Natural)		4b	7.3	<0.4	31	13	19	<0.1	8.4	34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH272 0.4-0.5	BH272	0.4-0.5	14/04/2021	Clay		4b	-	-	-	-	-	-	-	-	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH272 0-0.1	BH272	0-0.1	14/04/2021	Fill (Reworked Natural)		4b	8.1	<0.4	22	20	33	<0.1	9.5	88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH273 0.4-0.5	BH273	0.4-0.5	9/04/2021	Clay		2b	6.8	<0.4	20	18	14	<0.1	<5	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH273 0-0.2	BH273	0-0.2	9/04/2021	Fill (Reworked Natural)		2b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH274 0-0.2	BH274	0-0.2	9/04/2021	Fill (Reworked Natural)		2b	11	<0.4	36	30	26	<0.1	15	62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH275 0-0.2	BH275	0-0.2	9/04/2021	Fill (Reworked Natural)		2b	11	<0.4	28	41	17	<0.1	8.7	58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH276 0.4-0.5	BH276	0.4-0.5	9/04/2021	Clay		2b	14	<0.4	29	24	18	<0.1	8.4	37	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH277_0.0-0.1	BH277	0-0.1	13/04/2021	Fill (Reworked Natural)		2b	9.5	<0.4	21	22	20	<0.1	7.6	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH277_0.4-0.5	BH277	0.4-0.5	13/04/2021	Clay		2b	14	<0.4	26	24	20	<0.1	7.5	44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH278_0.0-0.1	BH278	0-0.1	13/04/2021	Fill (Reworked Natural)		2b	10	<0.4	23	31	19	<0.1	9	57	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH278_0.4-0.5	BH278	0.4-0.5	13/04/2021	Clay		2b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH279_0.0-0.1	BH279	0-0.1	13/04/2021	Fill (Reworked Natural)		2b	11	<0.4	23	26	19	<0.1	8.1	53	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH279_0.4-0.5	BH279	0.4-0.5	13/04/2021	Clay		2b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH280_0.0-0.1	BH280	0-0.1	13/04/2021	Fill (Reworked Natural)		2b	12	<0.4	16	28	17	<0.1	7.8	47	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH281 0.1-0.2	BH281	0.1-0.2	15/04/2021	Clay		2b	18	<0.4	20	27	16	<0.1	13	52	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH282 0.2-0.3	BH282	0.2-0.3	15/04/2021	Clay		2b	-	-	-	-	-	-	-	-	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH282 0-0.1	BH282	0-0.1	15/04/2021	Fill (Reworked Natural)		2b	11	<0.4	18	26	17	<0.1	9.8	54	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH283 0.2-0.3	BH283	0.2-0.3	15/04/2021	Fill		2b	7	<0.4	13	19	12	<0.1	<5	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	<0.5
BH284 0.2-0.3	BH284	0.2-0.3	14/04/2021	Fill		2b	7.5	<0.4	16	19	14	<0.1	5.9	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	<0.5
BH285 0.2-0.3	BH285	0.2-0.3	14/04/2021	Fill		2b	10	<0.4	15	17	13	<0.1	<5	16	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH286 0.3-0.4	BH286	0.3-0.4	15/04/2021	Fill		2b	-	-	-	-	-	-	-	-	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH288 0.1-0.2	BH288	0.1-0.2	15/04/2021	Fill (Reworked Natural)		2b	17	<0.4	13	22	15	<0.1	9.1	52	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH289_0.0-0.1	BH289	0-0.1	13/04/2021	Fill (Reworked Natural)		2b	-	-	-	-	-	-	-	-	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH290_0.0-0.1	BH290	0-0.1	13/04/2021	Fill (Reworked Natural)		2b	16	<0.4	29	24	27	<0.1	9.6	66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH291_0.0-0.1	BH291	0-0.1	13/04/2021	Fill (Reworked Natural)		2b	8.7	<0.4	22	22	18	<0.1	7.3	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH291_0.4-0.5	BH291	0.4-0.5	13/04/2021	Clay		2b	8.6	<0.4	24	20	16	<0.1	6.8	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH292_0.0-0.1	BH292	0-0.1	13/04/2021	Fill (Reworked Natural)		2b	6.7	<0.4	23	23	17	<0.1	8.5	46	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH292_0.4-0.5	BH292	0.4-0.5	13/04/2021	Clay		2b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH293 0.6-0.7	BH293	0.6-0.7	9/04/2021	Clay		2b	11	<0.4	25	21	25	<0.1	11	39	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH294 0-0.1	BH294	0-0.1	14/04/2021	Fill (Reworked Natural)		2b	14	<0.4	29	24	24	<0.1	11	55	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH295 0-0.1	BH295	0-0.1	14/04/2021	Fill (Reworked Natural)		2b	15	<0.4	48	26	30	<0.1	13	62	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH296 0-0.1	BH296	0-0.1	14/04/2021	Fill (Reworked Natural)		2b	5.2	<0.4	21	27	23	<0.1	11	120	<20	29	97	130	256	<20	<50	170	<100	170	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH297 0.4-0.5	BH297	0.4-0.5	12/04/2021	Clay		2b	5.8	<0.4	20	19	15	<0.1	7.3	31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH298 0-0.1	BH298	0-0.1	12/04/2021	Fill (Reworked Natural)		2b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH300-0-0.1	BH300	0-0.1	12/04/2021	Fill (Reworked Natural)		2b	<2	<0.4	17	27	15	<0.1	15	73	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH307 0-0.15	BH307	0-0.15	15/04/2021	Fill (Reworked Natural)		4d	11	<0.4	13	7.9	16	<0.1	7.7	24	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH308 0.4-0.5	BH308	0.4-0.5	15/04/2021	Clay		5a	-	-	-	-	-	-	-	-	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	-	-	-	-	-	-	-
BH308 0-0.1	BH308	0-0.1	14/04/2021	Fill (Reworked Natural)		5a	5	<0.4	110	33	26	<0.1	83	120	<20	30	360	150	540	<20	<50	420	<100	420	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH311 0.2-0.5	BH311	0.2-0.5	15/04/2021	Clay		4d	10	<0.4	13	6.9	14	<0.1	6	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH313 0-0.1	BH313	0-0.1	15/04/2021	Clayey Silt		4e	11	<0.4	19	26	25	<0.1	11	55	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH314 0-0.1	BH314	0-0.1	15/04/2021	Clayey Silt		4e	9.1	<0.4	14	22	22	<0.1	10	140	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH315 0-0.1	BH315	0-0.1	15/04/2021	Clayey Silt		4e	5.8	<0.4	8.4	10	15	<0.1	7	40	<20	<20	<50	53	53	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH316 0-0.2	BH316	0-0.2	15/04/2021	Fill (Reworked Natural)		4e	9.9	<0.4	13	8.4	18	<0.1	7.5	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH317 0-0.2	BH317	0-0.2	15/04/2021	Fill (Reworked Natural)		4e	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH318 0-0.2	BH318	0-0.2	15/04/2021	Clayey Silt		4e	11	<0.4	16	9.5	18	<0.1	8	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH321 0-0.1	BH321	0-0.1	15/04/2021	Fill		4e	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH322 0.4-0.5	BH322	0.4-0.5	15/04/2021	Clay		4e	13	<0.4	17	8.7	22	<0.1	7.9	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH323 0.4-0.5	BH323	0.4-0.5	15/04/2021	Clay		4e	9.8	<0.4	15	8.5	20	<0.1	7.8	23	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH323 0-0.1	BH323	0-0.1	15/04/2021	Fill (Reworked Natural)		4e	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH324 0-0.2	BH324	0-0.2	15/04/2021	Fill (Reworked Natural)		4e	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH326 0-0.1	BH326	0-0.1	15/04/2021	Clayey Silt		4e	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH327 0-0.1	BH327	0-0.1	15/04/2021	Clayey Silt		4e	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH328 0-0.1	BH328	0-0.1	15/04/2021	Fill		4e	-	-	-	-	-	-	-	-	<20	<20	<50	85	85	<20	<50	<100	<100

Table A - Soil
Project Number: 66105
Project Name: Aldington Road

						Metals & Metalloids								TPHs (NEPC 1999)					TRHs (NEPC 2013)							BTEXN						
						Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc	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 - MAH
						mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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	5	5	5	0.1	5	5	20	20	50	50	50	20	50	100	100	100	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[#1]		100	4	40		650[#2]				10000[#2]								10	288	600			1000	
NSW 2014 General Solid Waste SCC1 (with leached)						500	100	1900[#1]		1500	50	1050		650[#2]				10000[#2]								18	518	1080			1800	
Field ID	**Location**	**Sample_Depth_Range**	**Sampled_Date_Time**	**Matrix_Description**	**Monitoring_Round**	**Monitoring Zone**																										
BH330 0-0.2	BH330	0-0.2	15/04/2021	Fill		4e	5.6	<0.4	18	53	28	<0.1	35	100	<20	<1000	<2500	<2500	<2500	<20	<2500	<5000	<5000	<5000	<20	<2500	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH331 0-0.1	BH331	0-0.1	8/04/2021	Fill (Reworked Natural)		7a	11	<0.4	24	48	20	<0.1	12	66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH334 0.4-0.5	BH334	0.4-0.5	8/04/2021	Clay		2d	9.4	<0.4	25	37	15	<0.1	16	71	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH334 0-0.2	BH334	0-0.2	8/04/2021	Fill (Reworked Natural)		2d	13	<0.4	23	57	21	<0.1	13	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH335 0.4-0.5	BH335	0.4-0.5	8/04/2021	Clay		2d	-	-	-	-	-	-	-	-	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH335 0-0.2	BH335	0-0.2	8/04/2021	Fill (Reworked Natural)		2d	9.6	<0.4	15	62	18	<0.1	9.7	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH336 0.4-0.5	BH336	0.4-0.5	8/04/2021	Clay		2d	14	<0.4	19	45	21	<0.1	14	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH338 0-0.1	BH338	0-0.1	8/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH339 0-0.1	BH339	0-0.1	7/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH340 0-0.2	BH340	0-0.2	7/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH341 0-0.2	BH341	0-0.2	7/04/2021	Fill (Reworked Natural)		2d	21	<0.4	23	71	28	<0.1	13	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH344 0-0.2	BH344	0-0.2	7/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH345 0-0.1	BH345	0-0.1	8/04/2021	Fill (Reworked Natural)		2d	9.6	<0.4	20	67	22	<0.1	12	130	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH346 0.4-0.5	BH346	0.4-0.5	8/04/2021	Clay		2d	11	<0.4	24	42	19	<0.1	15	68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH347 0-0.2	BH347	0-0.2	8/04/2021	Fill (Reworked Natural)		2d	8.8	<0.4	19	53	17	<0.1	11	87	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH348 0.4-0.5	BH348	0.4-0.5	8/04/2021	Clay		2d	9.5	<0.4	22	35	16	<0.1	12	51	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH348 0-0.2	BH348	0-0.2	8/04/2021	Fill (Reworked Natural)		2d	9.8	<0.4	20	50	18	<0.1	11	86	<20	160	670	<50	830	<20	320	480	<100	800	<20	320	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH349 0-0.2	BH349	0-0.2	8/04/2021	Fill (Reworked Natural)		2d	11	<0.4	22	51	22	<0.1	13	88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH350 0.4-0.5	BH350	0.4-0.5	8/04/2021	Clay		2d	33	<0.4	35	33	17	<0.1	18	85	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH350 0-0.2	BH350	0-0.2	8/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH351 0-0.2	BH351	0-0.2	8/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH352 0.3-0.4	BH352	0.3-0.4	8/04/2021	Clay		2d	-	-	-	-	-	-	-	-	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH353 0-0.1	BH353	0-0.1	8/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH354 0.9-1	BH354	0.9-1	8/04/2021	Clay		2d	-	-	-	-	-	-	-	-	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH354 0-0.2	BH354	0-0.2	8/04/2021	Fill (Reworked Natural)		2d	13	<0.4	18	42	19	<0.1	9.7	72	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH355 0.4-0.5	BH355	0.4-0.5	8/04/2021	Clay		2d	15	<0.4	24	25	15	<0.1	8.8	46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH355 0-0.2	BH355	0-0.2	8/04/2021	Fill (Reworked Natural)		2d	21	<0.4	27	40	23	<0.1	11	97	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH360 0-0.1	BH360	0-0.1	7/04/2021	Fill (Reworked Natural)		2d	12	<0.4	21	71	20	<0.1	14	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH361 0-0.1	BH361	0-0.1	8/04/2021	Fill (Reworked Natural)		2d	11	<0.4	23	72	24	<0.1	12	140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH363 0-0.1	BH363	0-0.1	7/04/2021	Fill (Reworked Natural)		2d	11	<0.4	23	68	25	<0.1	12	140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH364 0-0.1	BH364	0-0.1	7/04/2021	Fill (Reworked Natural)		2d	13	<0.4	19	23	23	<0.1	10	36	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH365 0-0.2	BH365	0-0.2	7/04/2021	Fill (Reworked Natural)		6a	-	-	-	-	-	-	-	-	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH365 0-0.2	BH365	0-0.2	15/04/2021	Fill (Reworked Natural)		6a	9.7	<0.4	17	79	22	<0.1	13	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH366 0.2-0.6	BH366	0.2-0.6	7/04/2021	Clay		2d	29	<0.4	25	54	21	<0.1	23	110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH367 0-0.1	BH367	0-0.1	7/04/2021	Fill (Reworked Natural)		2d	16	<0.4	22	58	23	<0.1	14	100	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH369 0-0.1	BH369	0-0.1	8/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH369 0-0.5	BH369	0-0.5	7/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH371 0-0.1	BH371	0-0.1	7/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH372 0-0.1	BH372	0-0.1	8/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH373 0.3-0.4	BH373	0.3-0.4	8/04/2021	Clay		2d	7	<0.4	21	28	13	<0.1	6.3	33	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH375 0.3-0.4	BH375	0.3-0.4	8/04/2021	Fill (Reworked Natural)		3b	-	-	-	-	-	-	-	-	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH375 0-0.1	BH375	0-0.1	8/04/2021	Fill (Reworked Natural)		3b	13	<0.4	23	74	22	<0.1	17	110	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH377 0-0.1	BH377	0-0.1	8/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH379 0-0.1	BH379	0-0.1	8/04/2021	Fill (Reworked Natural)		2d	18	<0.4	25	43	28	<0.1	15	77	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH384 0-0.1	BH384	0-0.1	7/04/2021	Fill (Reworked Natural)		2d	17	<0.4	26	83	25	<0.1	14	110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH385 0-0.1	BH385	0-0.1	7/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH386 0.5-0.6	BH386	0.5-0.6	8/04/2021	Clay		2d	10	<0.4	20	64	22	<0.1	11	140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH387 0-0.1	BH387	0-0.1	7/04/2021	Fill (Reworked Natural)		2d	17	<0.4	30	65	29	<0.1	14	140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH388 0-0.1	BH388	0-0.1	7/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH389 0-0.1	BH389	0-0.1	7/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH392_0.0-0.1	BH392	0-0.1	13/04/2021	Fill		5a	13	<0.4	28	23	22	<0.1	11	80	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH393_0.0-0.1	BH393	0-0.1	13/04/2021	Fill		5a	<2	<0.4	83	13	5.8	<0.1	90	72	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH394_0.0-0.1	BH394	0-0.1	13/04/2021	Clayey Silt		5a	9.8	<0.4	22	26	26	<0.1	11	120	<20	<20	140	200	340	<20	310	<100	310	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH399 0-0.1	BH399	0-0.1	14/04/2021	Fill (Reworked Natural)		4b	-	-	-	-	-	-	-	-	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH406 0.15-0.3	BH406	0.15-0.3	15/04/2021	Clayey Silt		1a	11	<0.4	18	81	24	<0.1	13	110	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH407 0-0.1	BH407	0-0.1	15/04/2021	Fill		1a	10	<0.4	20	63	25	<0.1	14	100	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH408 0-0.1	BH408	0-0.1	15/04/2021	Fill		1a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH409 0-0.15	BH409	0-0.15	15/04/2021	Fill		1a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH410 0.2-0.5	BH410	0.2-0.5	15/04/2021	Clayey Silt		1a	8.7	<0.4	16	79	20	<0.1	13	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH410 0-0.2	BH410	0-0.2	15/04/2021	Fill		1a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH411 0-0.2	BH411	0-0.2	15/04/2021	Clayey Silt		1a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH412 0-0.1	BH412	0-0.1	14/04/2021	Fill		1b	7.8	<0.4	31	46	33	<0.1	14	130	<20	<20	<50	57	57	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH412 0-0.4	BH412	0-0.4	14/04/2021	Fill		1b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH413 0-1	BH413	0-1	14/04/2021	Fill		1b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH414 0-0.1	BH414	0-0.1	14/04/2021	Fill		1b	7.1	<0.4	33	25	36	<0.1	14	80	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH414 0-0.2	BH414	0-0.2	14/04/2021	Fill		1b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH415 0-0.2	BH415	0-0.2	14/04/2021	Fill		1b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH416 0-0.1	BH416	0-0.1	14/04/2021	Fill		1b	6.9	<0.4	34	59	48	<0.1	20	160	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH416 0-0.2	BH416	0-0.2	14/04/2021	Fill		1b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH417 0-0.1	BH417	0-0.1	14/04/2021	Fill		1b	4.5	<0.4	25	47	61	<0.1	24	350	<20	42	300	250	592	<20	52	480	200	732	<20	52	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH417 0-0.2	BH417	0-0.2	14/04/2021	Fill		1b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH418 0-0.1	BH418	0-0.1	15/04/2021	Fill		1b	6.5	<0.4	25	47	36	<0.1	16	130	<20	<20	60	62	122	<20	<50	100	<100	100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH418 0-0.3	BH418	0-0.3	15/04/2021	Fill		1b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH419 0-0.15	BH419	0-0.15	15/04/2021	Fill		1b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH420 0-0.1	BH420	0-0.1	15/04/2021	Fill		1b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH421 0-0.1	BH421	0-0.1	15/04/2021	Fill		1b	5.3	<0.4	16	62	19	<0.1	16	94	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH422-0-0.1	BH422	0-0.1	12/04/2021	Fill (Reworked Natural)		1c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH423-0-0.1	BH423	0-0.1	12/04/2021	Fill (Reworked Natural)		1c	8.5	<0.4	25	21	26	<0.1	13	44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH424-0-0.1	BH424	0-0.1	12/04/2021	Fill (Reworked Natural)		1c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH425-0-0.2	BH425	0-0.2	12/04/2021	Fill (Reworked Natural)		1c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH426-0-0.1	BH426	0-0.1	12/04/2021	Fill (Reworked Natural)		1c	7.5	<0.4	25	22	26	<0.1	14	48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH427-0.3-0.4	BH427	0.3-0.4	12/04/2021	Clay		1c	-	-	-	-	-	-	-	-	<20	<20	<50	52	52	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH427-0-0.2	BH427	0-0.2	12/04/2021	Fill (Reworked Natural)		1c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH428-0.3-0.4	BH428	0.3-0.4	12/04/2021	Clay		1c	8.6	<0.4	23	18	26	<0.1	14	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH428-0-0.15	BH428	0-0.15	12/04/2021	Fill (Reworked Natural)		1c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH429-0-0.2	BH429	0-0.2	12/04/2021	Fill (Reworked Natural)		1c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH430 0-0.2	BH430	0-0.2	12/04/2021	Fill (Reworked Natural)		1c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH431 0-0.2	BH431	0-0.2	12/04/2021	Fill (Reworked Natural)		1c	6.9	<0.4	22	17	24	<0.1	12	38	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH432 0.5-0.6	BH432	0.5-0.6	15/04/2021	Fill (Reworked Natural)		1d	13	<0.4	20	10	17	<0.1	11	31	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH432 0-0.3	BH432	0-0.3	15/04/2021	Fill		1d	8	<0.4	20	51	22	<0.1	33	74	<20	<100	330	520	850	<20	<250	700	<500	700	<20	<250	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH434_0.0-0.15	BH434	0-0.15	9/04/2021	Fill (Reworked Natural)		1e/4f	7.7	<0.4	19	36	19	<0.1	13	83	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH435_0.0-0.1	BH435	0-0.1	9/04/2021	Fill (Reworked Natural)		1e/4f	-	-	-	-	-	-	-	-	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH436_0.0-0.15	BH436	0-0.15	9/04/2021	Fill (Reworked Natural)		1e/4f	-	-	-	-	-	-	-	-	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH437_0.0-0.2	BH437	0-0.2	9/04/2021	Fill (Reworked Natural)		1e/4f	8.1	<0.4	22	43	22	<0.1	16	99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH437_0.3-0.4	BH437	0.3-0.4	9/04/2021	Clay		1e/4f	-	-	-	-	-	-	-	-	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH438_0.0-0.2	BH438	0-0.2	9/04/2021	Fill (Reworked Natural)		1e/4f	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH439_0.0-0.15	BH439	0-0.15	9/04/2021	Fill (Reworked Natural)		1e/4f	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH440_0.0-0.2	BH440	0-0.2	9/04/2021	Fill (Reworked Natural)		1e/4f	-	-	-	-	-	-	-	-	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH440_0.4-0.5	BH440	0.4-0.5	9/04/2021	Clay		1e/4f	9.3	<0.4	21	41	23	<0.1	15	92	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH441_0.0-0.2	BH441	0-0.2	9/04/2021	Fill (Reworked Natural)		1e/4f	9.2	<0.4	22	42	25	<0.1	16	94	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH442_0.0-0.1	BH442	0-0.1	9/04/2021	Fill (Reworked Natural)		1e/4f	5.5	<0.4	15	24	16	<0.1	11	46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH443_0.0-0.3	BH443	0-0.3	9/04/2021	Fill (Reworked Natural)		1e/4f	5.4	<0.4	13	28	15	<0.1	9.9	64	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
BH444_0.0-0.3	BH444	0-0.3	9/04/2021	Fill (Reworked Natural)			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH445_0.4-0.6	BH445	0.4-0.6	9/04/2021	Clay			7.5	<0.4	24	38	21	<0.1	16	73	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5

Table A - Soil
Project Number: 66105
Project Name: Aldington Road

	Metals & Metalloids								TPHs (NEPC 1999)					TRHs (NEPC 2013)							BTEXN						
	Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc	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 - MAH
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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	5	5	5	0.1	5	5	20	20	50	50	50	20	50	100	100	100	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[41]		100	4	40		650[42]				10000[42]								10	288	600			1000	
NSW 2014 General Solid Waste SCC1 (with leached)	500	100	1900[41]		1500	50	1050		650[43]				10000[43]								18	518	1080			1800	

Field ID	Location	Sample Depth Range	Sampled Date Time	Matrix Description	Monitoring Round	Monitoring Zone																							
BH446_0.0-0.2	BH446	0-0.2	9/04/2021	Fill (Reworked Natural)		1e/4f	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH447_0.0-0.15	BH447	0-0.15	9/04/2021	Fill (Reworked Natural)		1e/4f	7.4	<0.4	23	32	20	<0.1	13	58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA10-Soil			14/04/2021				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA12-Soil			15/03/2021				<4	<0.4	9	30	9	<0.1	40	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC01-SOIL	TP216		12/04/2021			2a/7b	5.3	<0.4	17	21	17	<0.1	9.6	40	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
QC02-SOIL	BH298		12/04/2021			2b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC03-SOIL	BH203		12/04/2021			4a	8.7	<0.4	27	27	23	<0.1	13	53	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
QC04-SOIL	BH431		12/04/2021			1c	10	<0.4	28	21	34	<0.1	14	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	<0.5
QC05_SOIL	TP147		13/04/2021			7a	11	<0.4	26	31	23	<0.1	14	59	<20	<20	<50	<50	<50	28	<50	<100	<100	<100	28	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
QC06_SOIL	TP309		13/04/2021			5a	7.6	<0.4	11	8.7	10	<0.1	5.2	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	<0.5
QC07_SOIL	TP395		13/04/2021			6c	5.4	<0.4	19	36	22	<0.1	22	95	<20	<20	61	72	133	<20	<50	120	<100	120	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
QC08_SOIL	TP260		13/04/2021			3a	9.8	<0.4	31	27	22	<0.1	17	79	<20	<20	<50	53	53	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
QC09 - SOIL	BH354		15/04/2021			2d	9.3	<0.4	20	29	22	<0.1	11	73	<20	26	85	110	221	<20	<50	160	<100	160	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
QC10 - SOIL	BH415		15/04/2021			1b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC11 - SOIL	BH421		15/04/2021			1b	5.8	<0.4	21	84	20	0.1	19	140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC12 - SOIL	BH329		15/04/2021			4e	2.9	<0.4	20	35	25	<0.1	31	94	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP101 0-0.1	TP101	0-0.1	12/04/2021	Clayey Silt		7a	8.6	<0.4	20	33	23	<0.1	17	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP102 0-0.1	TP102	0-0.1	12/04/2021	Clayey Silt		7a	-	-	-	-	-	-	-	-	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
TP104 0-0.1	TP104	0-0.1	12/04/2021	Clayey Silt		7a	-	-	-	-	-	-	-	-	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
TP106 0-0.1	TP106	0-0.1	12/04/2021	Clayey Silt		7a	7.1	<0.4	22	23	22	<0.1	23	65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP107 0-0.1	TP107	0-0.1	12/04/2021	Clayey Silt		7a	-	-	-	-	-	-	-	-	<20	<20	<50	140	140	<20	<50	140	170	310	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
TP108 0.2-0.3	TP108	0.2-0.3	12/04/2021	Clay		7a	4.6	<0.4	24	30	13	<0.1	10	42	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP112 0-0.1	TP112	0-0.1	12/04/2021	Clayey Silt		7a	6.6	<0.4	27	22	19	<0.1	13	38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP114 0-0.1	TP114	0-0.1	12/04/2021	Clayey Silt		7a	7.9	<0.4	18	25	22	<0.1	13	55	<20	<20	<50	55	55	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
TP115 0-0.1	TP115	0-0.1	12/04/2021	Clayey Silt		7a	6	<0.4	16	27	21	<0.1	20	69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP116 0-0.1	TP116	0-0.1	12/04/2021	Clayey Silt		7a	-	-	-	-	-	-	-	-	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
TP117 0-0.1	TP117	0-0.1	12/04/2021	Clayey Silt		7a	9	<0.4	21	18	30	<0.1	12	44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP118 0-0.1	TP118	0-0.1	12/04/2021	Clayey Silt		7a	7.6	<0.4	15	16	20	<0.1	13	40	<20	<20	<50	74	74	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
TP119 0-0.1	TP119	0-0.1	12/04/2021	Clayey Silt		7a	-	-	-	-	-	-	-	-	<20	<20	54	71	125	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
TP120 0-0.1	TP120	0-0.1	12/04/2021	Clayey Silt		7a	-	-	-	-	-	-	-	-	<20	<20	<50	65	65	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
TP124 0_0-0.1	TP124	0-0.1	13/04/2021	Clayey Silt		7a	10	<0.4	24	26	26	<0.1	14	56	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
TP126_0.0-0.1	TP126	0-0.1	13/04/2021	Clayey Silt		7a	13	<0.4	23	23	19	<0.1	10	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP127 0.0-0.1	TP127	0-0.1	13/04/2021	Clayey Silt		7b	6.9	<0.4	16	35	24	<0.1	9.6	47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP128_0.0-0.1	TP128	0-0.1	13/04/2021	Clayey Silt		7b	13	<0.4	15	12	22	<0.1	22	51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP129_0.0-0.1	TP129	0-0.1	13/04/2021	Clayey Silt		7a	11	<0.4	29	13	23	<0.1	8.3	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP129_0.2-0.3	TP129	0.2-0.3	13/04/2021	Clay		7a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP130_0.0-0.1	TP130	0-0.1	13/04/2021	Clayey Silt		7a	-	-	-	-	-	-	-	-	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
TP131_0.0-0.1	TP131	0-0.1	13/04/2021	Clayey Silt		7a	10	<0.4	30	21	30	<0.1	12	41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP132 0-0.1	TP132	0-0.1	12/04/2021	Clayey Silt		7a	8.2	<0.4	25	29	27	<0.1	16	69	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
TP133 0-0.1	TP133	0-0.1	12/04/2021	Clayey Silt		7a	12	<0.4	36	25	35	<0.1	17	55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP135 0-0.1	TP135	0-0.1	12/04/2021	Clayey Silt		7b	7.1	<0.4	23	25	17	<0.1	13	38	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
TP136 0-0.1	TP136	0-0.1	12/04/2021	Clayey Silt		7a	12	<0.4	26	25	29	<0.1	15	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP137 0-0.1	TP137	0-0.1	12/04/2021	Clayey Silt		7a	-	-	-	-	-	-	-	-	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
TP138_0.0-0.1	TP138	0-0.1	13/04/2021	Clayey Silt		7a	11	<0.4	24	42	25	<0.1	14	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP139 0-0.1	TP139	0-0.1	13/04/2021	Clayey Silt		7a	11	<0.4	24	24	20	<0.1	10	51	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
TP140_0.0-0.1	TP140	0-0.1	13/04/2021	Clayey Silt		7a	-	-	-	-	-	-	-	-	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
TP141_0.3-0.4	TP141	0.3-0.4	13/04/2021	Clay		7a	-	-	-	-	-	-	-	-	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
TP142_0.0-0.1	TP142	0-0.1	13/04/2021	Clayey Silt		7a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP142_0.2-0.3	TP142	0.2-0.3	13/04/2021	Clay		7a	16	<0.4	25	27	20	<0.1	7.1	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP143 0.0-0.1	TP143	0-0.1	13/04/2021	Clayey Silt		7a	-	-	-	-	-	-	-	-	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
TP144_0.0-0.1	TP144	0-0.1	13/04/2021	Clayey Silt		7a	11	<0.4	11	13	17	<0.1	9	38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP145_0.0-0.1	TP145	0-0.1	13/04/2021	Clayey Silt		7a	-	-	-	-	-	-	-	-	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
TP146_0.0-0.1	TP146	0-0.1	13/04/2021	Clayey Silt		7a	9.4	<0.4	19	30	27	<0.1	15	73	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
TP147 0.0-0.1	TP147	0-0.1	13/04/2021	Clayey Silt		7a	11	<0.4	25	30	26	<0.1	14	60	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
TP149 0-0.1	TP149	0-0.1	13/04/2021	Clayey Silt		7a	11	<0.4	18	9.2	15	<0.1	7.9	22	<20	<100	<250	<250	<250	<20	<250	<500	<500	<500	<20	<250	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
TP150_0.0-0.1	TP150	0-0.1	13/04/2021	Clayey Silt		7a	9.4	<0.4	22	23	24	<0.1	11	37	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
TP150_0.2-0.3	TP150	0.2-0.3	13/04/2021	Clay		7a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP151_0.0-0.1	TP151	0-0.1	13/04/2021	Clayey Silt		7a	-	-	-	-	-	-	-	-	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
TP152_0.0-0.1	TP152	0-0.1	13/04/2021	Clayey Silt		7a	-	-	-	-	-	-	-	-	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
TP152_0.3-0.4	TP152	0.3-0.4	13/04/2021	Clay		7a	22	<0.4	30	18	19	<0.1	7.2	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP153_0.0-0.1	TP153	0-0.1	13/04/2021	Clayey Silt		7a	-	-	-	-	-	-	-	-	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
TP154_0.0-0.1	TP154	0-0.1	13/04/2021	Clayey Silt		7a	-	-	-	-	-	-	-	-	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
TP156 0-0.1	TP156	0-0.1	12/04/2021	Clayey Silt		7a	12	<0.4	22	19	29	<0.1	10	31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP157 0-0.1	TP157	0-0.1	12/04/2021	Clayey Silt		7a	18	<0.4	55	21	36	<0.1	13	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP201 0.5-0.6	TP201	0.5-0.6	9/04/2021	Clay		4a	2.7	<0.4	18	34	13	<0.1	20	72	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
TP201 0-0.2	TP201	0-0.2	9/04/2021	Fill (Reworked Natural)		4a	7.7	<0.4	21	27	19	<0.1	21	68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP201 0-0.2AQ	TP201	0-0.2	9/04/2021	Fill (Reworked Natural)		4a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP204 0-0.1	TP204	0-0.1	9/04/2021	Fill		4a	<2	<0.4	14	33	8.4	<0.1	16	51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP205 0-0.2	TP205	0-0.2	1/04/2021	Fill		4a	9.7	<0.4	19	28	33	<0.1	19	76	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
TP211 0-0.1	TP211	0-0.1	9/04/2021	Fill (Reworked Natural)		2a	9	<0.4	19	28	42	0.2	12	120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP212 0.5-0.6	TP212	0.5-0.6	1/04/2021	Fill		2a	8.8	<0.4	25	32	42	<0.1	17	82	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP212 2.6-2.9	TP212	2.6-2.9	1/04/2021	Clay		2a	9.2	<0.4	20	34	17	<0.1	21	67	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
TP215-1.7-1.8	TP215	1.7-1.8	9/04/2021	Clay		2a	-	-	-	-	-	-	-	-	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
TP216 0.4-0.5	TP216	0.4-0.5	12/04/2021	Fill (Reworked Natural)		2a/7b	12	<0.4	23	22	34	<0.1	9.7	77	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
TP220 0-0.1	TP220	0-0.1	7/04/2021	Fill (Reworked Natural)		2a	23	<0.4	44	64	37	<0.1	25	110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP222 0.4-0.5	TP222	0.4-0.5	7/04/2021	Clay		2a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP223 0-0.1	TP223	0-0.1	12/04/2021	Fill (Reworked Natural)		2a	<2	<0.4	<5	<5	<5	<0.1	<5	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP224 0-0.1	TP224	0-0.1	12/04/2021	Fill (Reworked Natural)		2a	-	-	-	-	-	-	-	-	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
TP227 0.4-0.5	TP227	0.4-0.5	7/04/2021	Clay		2a	11	<0.4	20	31	16	<0.1	10	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP235_0.0-0.05	TP235	0-0.05	13/04/2021	Fill		3a	6.3	<0.4	34	21	20	<0.1	12	36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP236_0.0-0.1	TP236	0-0.1	13/04/2021	Fill (Reworked Natural)		3a	8.9	<0.4	24	24	18	<0.1	9.1	60	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
TP260_0.0-0.1	TP260	0-0.1	13/04/2021	Fill		3a	7	<0.4	24	27	21	<0.1	11	70	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
TP260_0.2-0.3	TP260	0.2-0.3	13/04/2021	Fill		3a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP309 0.0-0.2	TP309	0-0.2	13/04/2021	Fill (Reworked Natural)		5a	14	<0.4	20	17	16	<0.1	8.8	39	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
TP310 0.0-0.2	TP310	0-0.2	13/04/2021	Fill (Reworked Natural)		4d	4.8	<0.4	15	18	15	<0.1	16	39	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP331 0.0-0.1	TP331	0-0.1	13/04/2021	Clayey Silt		2d	14	<0.4	24	29	36	<0.1	16	73	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP390_0.0-0.1	TP390	0-0.1	13/04/2021	Fill		7a	5	<0.4	17	21	20	<0.1	17	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP391 0.0-0.1	TP391	0-0.1	13/04/2021	Fill		6c	4.9	<0.4	14	13	13	<0.1	7.7	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	<0.5
TP391_0.5-0.6	TP391	0.5-0.6	13/04/2021	Fill (Reworked Natural)		6c	-	-	-	-	-	-	-	-	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
TP395 0.0-0.1	TP395	0-0.1	13/04/2021	Fill		6c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP395_0.3-0.4	TP395	0.3-0.4	13/04/2021	Fill		6c	6.5	<0.4	20	31	22	<0.1	19	68	<20	<20	240	160	400	<20	<50	450	110	560	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
TP396_0.0-0.1	TP396	0-0.1	13/04/2021	Fill (Reworked Natural)		6c	3.9	<0.4	18	41	27	<0.1	15	89	<20	<20	74	94	168	<20	<50	140	<100	140	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
TP396_0.4-0.5	TP396	0.4-0.5	13/04/2021	Clay		6c	3.8	<0.4	18	41	13	<0.1	14	81	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP397_0.0-0.1	TP397	0-0.1	13/04/2021	Fill		6c	-	-	-	-	-	-	-	-	<20	<20	77	69	146	<20	<50	130	<100	130	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
TP397_0.3-0.4	TP397	0.3-0.4	13/04/2021	Fill		6c	4.6	<0.4	18	88	78	<0.1	27	270	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP398_0.0-0.2	TP398	0-0.2	13/04/2021	Fill		6c	2	<0.4	9.5	29	14	<0.1	20	45	<20	<200	7200	1800	9000	<20	<500	9500	1200	10,700	<20	<500	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
TP398_0.3-0.4			13/04/2021	Clay			-	-	-	-	-	-	-	-	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	-	-	-	-	-	-	<0.5
TP400 0-0.3	TP400	0-0.3	9/04/2021	Clayey Silt		1a	-	-	-	-	-	-	-	-	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
TP401 0-0.3	TP401	0-0.3	9/04/2021	Clayey Silt		1a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP402 0-0.3	TP402	0-0.3	9/04/2021	Clayey Silt		1a	8.6	<0.4	22	31	29	<0.1	23	74	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP403 0-0.3	TP403	0-0.3	9/04/2021	Fill		1a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP404 0-0.4	TP404	0-0.4	9/04/2021	Fill		1a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP405 0-0.4	TP405	0-0.4	9/04/2021	Fill		1a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP445 1-1.8	TP445	1-1.8	8/04/2021	Clay		1e/4f	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table A - Soil
Project Number: 66105
Project Name: Aldington Road

	Metals & Metalloids								TPHs (NEPC 1999)					TRHs (NEPC 2013)							BTEXN						
	Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc	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	EthyBenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Naphthalene - MAH
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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	5	5	5	0.1	5	5	20	20	50	50	50	20	50	100	100	100	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[#1]		100	4	40		650[#1]				10000[#2]								10	288	600			1000	
NSW 2014 General Solid Waste SCC1 (with leached)	500	100	1900[#1]		1500	50	1050		650[#1]				10000[#2]								18	518	1080			1800	

Field ID	Location	Sample Depth Range	Sampled Date Time	Matrix Description	Monitoring Round	Monitoring Zone																							
TP448 0-0.3	TP448	0-0.3	9/04/2021	Fill (Reworked Natural)		1e/4f	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP449 0.3-0.9	TP449	0.3-0.9	8/04/2021	Fill		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP449 1.2-1.3	TP449	1.2-1.3	8/04/2021	Clay		1f/3c	12	<0.4	21	23	28	<0.1	7.2	30	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
TP450 2-2.5	TP450	2-2.5	8/04/2021	Fill		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP451 1-2	TP451	1-2	8/04/2021	Fill		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP452 1.1-1.2	TP452	1.1-1.2	8/04/2021	Fill		1f/3c	11	<0.4	21	24	29	<0.1	9.7	33	<100	<20	<50	<50	<50	<100	<50	<100	<100	<100	<100	<50	<0.5	<0.5	<0.5	<0.5	<1	<1.5	<2.5
TP452 1-2	TP452	1-2	8/04/2021	Fill		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP452 2.4-2.5	TP452	2.4-2.5	8/04/2021	Clay		1f/3c	9.5	<0.4	20	18	23	<0.1	7.1	23	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
TP453 0-0.9	TP453	0-0.9	9/04/2021	Fill		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP454 0.7-1.2	TP454	0.7-1.2	8/04/2021	Fill		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP454 1.4-1.5	TP454	1.4-1.5	8/04/2021	Clay		1f/3c	8.5	<0.4	15	23	12	<0.1	11	41	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
TP456 0-0.1	TP456	0-0.1	8/04/2021	Fill		1f/3c	13	<0.4	24	35	25	<0.1	16	58	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
TP456 2.8-3	TP456	2.8-3	8/04/2021	Fill		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP457 2.5-2.6	TP457	2.5-2.6	8/04/2021	Clay		1f/3c	5.9	<0.4	11	35	17	<0.1	11	63	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP457 2-2.5	TP457	2-2.5	8/04/2021	Fill		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP458 0-0.9	TP458	0-0.9	9/04/2021	Fill		1e/4f	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP459 1.4-2.4	TP459	1.4-2.4	8/04/2021	Fill		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP460 2-2.6	TP460	2-2.6	8/04/2021	Fill		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP461 1-2	TP461	1-2	8/04/2021	Fill		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP461 2.4-2.5	TP461	2.4-2.5	8/04/2021	Clay		1f/3c	8.7	<0.4	19	27	15	<0.1	15	45	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
TP462 2-3	TP462	2-3	9/04/2021	Fill		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP463 0.8-1.8	TP463	0.8-1.8	9/04/2021	Fill		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP463 1.8-2.8	TP463		9/04/2021	Fill		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP463 2.8-3.8	TP463	2.8-3.8	9/04/2021	Fill		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP463 4.3-4.4	TP463	4.3-4.4	9/04/2021	Clay		1f/3c	14	<0.4	23	59	23	<0.1	29	110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP464 1.6-2.3	TP464	1.6-2.3	9/04/2021	Fill		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Env Stds Comments
#1:Trigger value adopted from Chromium VI
#2:Approximate range of petroleum hydrocarbon fractions: petrol C6–C9, kerosene C10–C18, diesel C12–C18, and lubricating oils above C18. Refer to NSW Waste Criteria Nov 2014 p.12 footnote 7
#3:There may be a need for the laboratory to concentrate the sample to achieve the TCLP limit value for benzo(a)pyrene with confidence. Refer to NSW Waste Criteria Nov 2014 p.11 footnote 2
#4:Polychlorinated biphenyls must be managed in accordance with the EPA's polychlorinated biphenyl (PCB) chemical control order 1997. Refer to NSW Waste Criteria Nov 2014 p.12 footnote 8
#5:Refer to NSW Waste Criteria Nov 2014 p.17 footnote 13
#6:Calculated from Hazardous Waste: Identification and Listing (USEPA 2012a). Refer to NSW Waste Criteria Nov 2014 p.16 footnote 3, 4
#7:Refer to NSW Waste Criteria Nov 2014 p.17 footnote 12, EPA Chemical Control Order 1997, clause 4.13

Data Comments
#1 AF:Chrysotile asbestos detected in compressed fibre cement fragment.Approximate raw weight of AF = 0.00030g*Estimated asbestos content in AF = 0.000060g*Total estimated asbestos concentration in AF = 0.0000078% w/w*No asbestos detected at the reporting limit of 0.001% w/w.*Organic fibre detected.
#2 ACM:Chrysotile asbestos detected in fibre cement fragments.Approximate raw weight of ACM = 4.8gTotal estimated asbestos content in ACM = 0.24g*Total estimated asbestos concentration in ACM = 0.036% w/w*Organic fibre detected.No trace asbestos detected.
#3 AF:Chrysotile asbestos detected in compressed fibre cement fragment.No asbestos detected at the reporting limit of 0.001% w/w.*
#4 No asbestos detected at the reporting limit of 0.001% w/w.*Organic fibre detected.No trace asbestos detected.
#5 No asbestos detected at the reporting limit of 0.001% w/w.Organic fibre detected.No trace asbestos detected.
#6 No asbestos detected at the reporting limit of 0.01% w/w.Organic fibre detected.No trace asbestos detected.
#7 ACM:Chrysotile asbestos detected in fibre cement fragments.
#8 No respirable fibres detected.
#9 Chrysotile asbestos detected.
#10 Organic fibres detected.
#11 60x40x5
#12 Nil

Table A - Soil
Project Number: 66105
Project Name: Aldington Road

												PAH													
												Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(a)pyrene TEQ (LOR)	Benzo(a)pyrene TEQ calc (Half)	Benzo(a)pyrene TEQ calc (Zero)	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene - PAH	Phenanthrene	Pyrene	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
EQL												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	0.5	0.5
NSW 2014 General Solid Waste CT1 (No Leaching)																0.8[#3]														
NSW 2014 General Solid Waste SCC1 (with leached)																$10^{[#6]}$														
Field ID	**Location**	**Sample_Depth_Range**	**Sampled_Date_Time**	**Matrix_Description**	**Monitoring_Round**	**Monitoring Zone**																								
BH111-0-0.1	BH111	0-0.1	12/04/2021			7a	<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	<0.5	<0.5	<0.5	<0.5
BH122 0-0.2	BH122	0-0.2	15/04/2021	Clayey Silt		7a	<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	<0.5	<0.5	<0.5	<0.5
BH123 0-0.2	BH123	0-0.2	15/04/2021	Clayey Silt		7a	<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	<0.5	<0.5	<0.5	<0.5
BH158 0-0.2	BH158	0-0.2	15/04/2021	Clayey Silt		7a	<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	<0.5	<0.5	<0.5	<0.5
BH159 0-0.2	BH159	0-0.2	15/04/2021	Clayey Silt		7a	<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	<0.5	<0.5	<0.5	<0.5
BH161 0-0.2	BH161	0-0.2	15/04/2021	Clayey Silt		7a	<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	<0.5	<0.5	<0.5	<0.5
BH162 0.4-0.5	BH162	0.4-0.5	15/04/2021	Clay		7a	<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	<0.5	<0.5	<0.5	<0.5
BH162 0-0.2	BH162	0-0.2	15/04/2021	Clayey Silt		7a	<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	<0.5	<0.5	<0.5	<0.5
BH164 0.4-0.5	BH164	0.4-0.5	15/04/2021	Clay		7a	<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	<0.5	<0.5	<0.5	<0.5
BH165 0-0.2	BH165	0-0.2	15/04/2021	Clayey Silt		7a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH166 0-0.2	BH166	0-0.2	15/04/2021	Clayey Silt		7a	<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	<0.5	<0.5	<0.5	<0.5
BH167 0-0.2	BH167	0-0.2	15/04/2021	Clayey Silt		7a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH169 0-0.1	BH169	0-0.1	8/04/2021	Clayey Silt		7a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH170 0-0.1	BH170	0-0.1	8/04/2021	Clayey Silt		7a	<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	<0.5	<0.5	<0.5	<0.5
BH171 0-0.1	BH171	0-0.1	8/04/2021	Clayey Silt		7a	<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	<0.5	<0.5	<0.5	<0.5
BH172 0.4-0.5	BH172	0.4-0.5	8/04/2021	Clay		7a	<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	<0.5	<0.5	<0.5	<0.5
BH172 0-0.1	BH172	0-0.1	8/04/2021	Clayey Silt		7a	<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	<0.5	<0.5	<0.5	<0.5
BH175 0-0.1	BH175	0-0.1	8/04/2021	Clayey Silt		7a	<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	<0.5	<0.5	<0.5	<0.5
BH177 0.4-0.5	BH177	0.4-0.5	8/04/2021	Clay		7a	<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	<0.5	<0.5	<0.5	<0.5
BH206 0.4-0.5	BH206	0.4-0.5	12/04/2021	Clay		2a	<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	<0.5	<0.5	<0.5	<0.5
BH207-0.4-0.5	BH207	0.4-0.5	12/04/2021	Clay		2a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH209-0-0.1	BH209	0-0.1	12/04/2021	Fill (Reworked Natural)		2a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH210-0-0.1	BH210	0-0.1	12/04/2021	Fill (Reworked Natural)		2a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH217-0-0.1	BH217	0-0.1	12/04/2021	Fill (Reworked Natural)		2a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH218-0-0.2	BH218	0-0.2	12/04/2021	Fill (Reworked Natural)		2a	<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	<0.5	<0.5	<0.5	<0.5
BH228-0-0.1	BH228	0-0.1	12/04/2021	Fill (Reworked Natural)		2b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH229-0-0.1	BH229	0-0.1	12/04/2021	Fill (Reworked Natural)		2b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH230-0-0.1	BH230	0-0.1	12/04/2021	Fill (Reworked Natural)		2b	<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	<0.5	<0.5	<0.5	<0.5
BH239_0-0.1	BH239	0-0.1	13/04/2021	Fill (Reworked Natural)		2b	<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	<0.5	<0.5	<0.5	<0.5
BH239_0.4-0.5	BH239	0.4-0.5	13/04/2021	Clay		2b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH240_0.0-0.1	BH240	0-0.1	13/04/2021	Fill (Reworked Natural)		2b	<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	<0.5	<0.5	<0.5	<0.5
BH241_0.0-0.1	BH241	0-0.1	13/04/2021	Fill (Reworked Natural)		2b	<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	<0.5	<0.5	<0.5	<0.5
BH242_0.0-0.1	BH242	0-0.1	13/04/2021	Fill (Reworked Natural)		2b	<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	<0.5	<0.5	<0.5	<0.5
BH244 0.2-0.3	BH244	0.2-0.3	15/04/2021	Clay		2b	<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	<0.5	<0.5	<0.5	<0.5
BH244 0-0.1	BH244	0-0.1	15/04/2021	Fill (Reworked Natural)		2b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH248 0-0.1	BH248	0-0.1	15/04/2021	Fill (Reworked Natural)		6b	<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	<0.5	<0.5	<0.5	<0.5
BH249 0-0.2	BH249	0-0.2	15/04/2021	Fill (Reworked Natural)		6b	<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	<0.5	<0.5	<0.5	<0.5
BH250 0-0.2	BH250	0-0.2	15/04/2021	Fill (Reworked Natural)		6b	<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	<0.5	<0.5	<0.5	<0.5
BH251 0-0.1	BH251	0-0.1	15/04/2021	Fill (Reworked Natural)		3a	<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	<0.5	<0.5	<0.5	<0.5
BH252 0-0.1	BH252	0-0.1	15/04/2021	Fill (Reworked Natural)		3a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH253 0-0.1	BH253	0-0.1	15/04/2021	Fill		4c	<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	<0.5	<0.5	<0.5	<0.5
BH254 0-0.1	BH254	0-0.1	15/04/2021	Fill		3a/4c	<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	<0.5	<0.5	<0.5	<0.5
BH255 0-0.1	BH255	0-0.1	15/04/2021	Fill		4c	<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	<0.5	<0.5	<0.5	<0.5
BH256 0-0.1	BH256	0-0.1	15/04/2021	Fill		3a/4c	<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	<0.5	<0.5	<0.5	<0.5
BH257 0-0.1	BH257	0-0.1	15/04/2021	Fill		3a	<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	<0.5	<0.5	<0.5	<0.5
BH267-0-0.1	BH267	0-0.1	12/04/2021	Fill (Reworked Natural)		2b	<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	<0.5	<0.5	<0.5	<0.5
BH268-0-0.1	BH268	0-0.1	12/04/2021	Fill (Reworked Natural)		2b	<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	<0.5	<0.5	<0.5	<0.5
BH269-0.4-0.5	BH269	0.4-0.5	12/04/2021	Clay		2b	<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	<0.5	<0.5	<0.5	<0.5
BH270-0-0.1	BH270	0-0.1	12/04/2021	Fill (Reworked Natural)		2b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH271 0-0.1	BH271	0-0.1	14/04/2021	Fill (Reworked Natural)		4b	<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	<0.5	<0.5	<0.5	<0.5
BH272 0.4-0.5	BH272	0.4-0.5	14/04/2021	Clay		4b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH272 0-0.1	BH272	0-0.1	14/04/2021	Fill (Reworked Natural)		4b	<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	<0.5	<0.5	<0.5	<0.5
BH273 0.4-0.5	BH273	0.4-0.5	9/04/2021	Clay		2b	<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	<0.5	<0.5	<0.5	<0.5
BH273 0-0.2	BH273	0-0.2	9/04/2021	Fill (Reworked Natural)		2b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH274 0-0.2	BH274	0-0.2	9/04/2021	Fill (Reworked Natural)		2b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH275 0-0.2	BH275	0-0.2	9/04/2021	Fill (Reworked Natural)		2b	<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	<0.5	<0.5	<0.5	<0.5
BH276 0.4-0.5	BH276	0.4-0.5	9/04/2021	Clay		2b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH277_0.0-0.1	BH277	0-0.1	13/04/2021	Fill (Reworked Natural)		2b	<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	<0.5	<0.5	<0.5	<0.5
BH277_0.4-0.5	BH277	0.4-0.5	13/04/2021	Clay		2b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH278_0.0-0.1	BH278	0-0.1	13/04/2021	Fill (Reworked Natural)		2b	<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	<0.5	<0.5	<0.5	<0.5
BH278_0.4-0.5	BH278	0.4-0.5	13/04/2021	Clay		2b	<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	<0.5	<0.5	<0.5	<0.5
BH279_0.0-0.1	BH279	0-0.1	13/04/2021	Fill (Reworked Natural)		2b	<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	<0.5	<0.5	<0.5	<0.5
BH279_0.4-0.5	BH279	0.4-0.5	13/04/2021	Clay		2b	<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	<0.5	<0.5	<0.5	<0.5
BH280_0.0-0.1	BH280	0-0.1	13/04/2021	Fill (Reworked Natural)		2b	<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	<0.5	<0.5	<0.5	<0.5
BH281 0.1-0.2	BH281	0.1-0.2	15/04/2021	Clay		2b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH282 0.2-0.3	BH282	0.2-0.3	15/04/2021	Clay		2b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH282 0-0.1	BH282	0-0.1	15/04/2021	Fill (Reworked Natural)		2b	<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	<0.5	<0.5	<0.5	<0.5
BH283 0.2-0.3	BH283	0.2-0.3	15/04/2021	Fill		2b	<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	<0.5	<0.5	<0.5	<0.5
BH284 0.2-0.3	BH284	0.2-0.3	14/04/2021	Fill		2b	<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	<0.5	<0.5	<0.5	<0.5
BH285 0.2-0.3	BH285	0.2-0.3	14/04/2021	Fill		2b	<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	<0.5	<0.5	<0.5	<0.5
BH286 0.3-0.4	BH286	0.3-0.4	15/04/2021	Fill		2b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH288 0.1-0.2	BH288	0.1-0.2	15/04/2021	Fill (Reworked Natural)		2b	<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	<0.5	<0.5	<0.5	<0.5
BH289_0.0-0.1	BH289	0-0.1	13/04/2021	Fill (Reworked Natural)		2b	<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	<0.5	<0.5	<0.5	<0.5
BH290_0.0-0.1	BH290	0-0.1	13/04/2021	Fill (Reworked Natural)		2b	<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	<0.5	<0.5	<0.5	<0.5
BH291_0.0-0.1	BH291	0-0.1	13/04/2021	Fill (Reworked Natural)		2b	<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	<0.5	<0.5	<0.5	<0.5
BH291_0.4-0.5	BH291	0.4-0.5	13/04/2021	Clay		2b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH292_0.0-0.1	BH292	0-0.1	13/04/2021	Fill (Reworked Natural)		2b	<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	<0.5	<0.5	<0.5	<0.5
BH292_0.4-0.5	BH292	0.4-0.5	13/04/2021	Clay		2b	<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	<0.5	<0.5	<0.5	<0.5
BH293 0.6-0.7	BH293	0.6-0.7	9/04/2021	Clay		2b	<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	<0.5	<0.5	<0.5	<0.5
BH294 0-0.1	BH294	0-0.1	14/04/2021	Fill (Reworked Natural)		2b	<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	<0.5	<0.5	<0.5	<0.5
BH295 0-0.1	BH295	0-0.1	14/04/2021	Fill (Reworked Natural)		2b	<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	<0.5	<0.5	<0.5	<0.5
BH296 0-0.1	BH296	0-0.1	14/04/2021	Fill (Reworked Natural)		2b	<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	<0.5	<0.5	<0.5	<0.5
BH297 0.4-0.5	BH297	0.4-0.5	12/04/2021	Clay		2b	<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	<0.5	<0.5	<0.5	<0.5
BH298 0-0.1	BH298	0-0.1	12/04/2021	Fill (Reworked Natural)		2b	<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	<0.5	<0.5	<0.5	<0.5
BH300-0-0.1	BH300	0-0.1	12/04/2021	Fill (Reworked Natural)		2b	<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	<0.5	<0.5	<0.5	<0.5
BH307 0-0.15	BH307	0-0.15	15/04/2021	Fill (Reworked Natural)		4d	<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	<0.5	<0.5	<0.5	<0.5
BH308 0.4-0.5	BH308	0.4-0.5	15/04/2021	Clay		5a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH308 0-0.1	BH308	0-0.1	14/04/2021	Fill (Reworked Natural)		5a	<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	<0.5	<0.5	<0.5	<0.5
BH311 0.2-0.5	BH311	0.2-0.5	15/04/2021	Clay		4d	<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	<0.5	<0.5	<0.5	<0.5
BH313 0-0.1

Table A - Soil
Project Number: 66105
Project Name: Aldington Road

	PAH																					
	Acenaphthene	Acenaphthylene	Anthracene	Benz[a]anthracene	Benzo[a]pyrene	Benzo[a]pyrene TEQ (LOR)	Benzo[a]pyrene TEQ calc (Half)	Benzo[a]pyrene TEQ calc (Zero)	Benzo[b]fluoranthene	Benzo[g,h,i]perylene	Benzo[k]fluoranthene	Chrysene	Dibenz[a,h]anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene - PAH	Phenanthrene	Pyrene	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
EQL	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	0.5	0.5	0.5
NSW 2014 General Solid Waste CT1 (No Leaching)					0.8[#3]															
NSW 2014 General Solid Waste SCC1 (with leached)					$10^{[#6]}$															

Field ID	Location	Sample Depth Range	Sampled Date Time	Matrix Description	Monitoring Round	Monitoring Zone																			
BH330 0-0.2	BH330	0-0.2	15/04/2021	Fill		4e	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH331 0-0.1	BH331	0-0.1	8/04/2021	Fill (Reworked Natural)		7a	<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
BH334 0.4-0.5	BH334	0.4-0.5	8/04/2021	Clay		2d	<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
BH334 0-0.2	BH334	0-0.2	8/04/2021	Fill (Reworked Natural)		2d	<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
BH335 0.4-0.5	BH335	0.4-0.5	8/04/2021	Clay		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH335 0-0.2	BH335	0-0.2	8/04/2021	Fill (Reworked Natural)		2d	<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
BH336 0.4-0.5	BH336	0.4-0.5	8/04/2021	Clay		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH338 0-0.1	BH338	0-0.1	8/04/2021	Fill (Reworked Natural)		2d	<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
BH339 0-0.1	BH339	0-0.1	7/04/2021	Fill (Reworked Natural)		2d	<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
BH340 0-0.2	BH340	0-0.2	7/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH341 0-0.2	BH341	0-0.2	7/04/2021	Fill (Reworked Natural)		2d	<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
BH344 0-0.2	BH344	0-0.2	7/04/2021	Fill (Reworked Natural)		2d	<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
BH345 0-0.1	BH345	0-0.1	8/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH346 0.4-0.5	BH346	0.4-0.5	8/04/2021	Clay		2d	<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
BH347 0-0.2	BH347	0-0.2	8/04/2021	Fill (Reworked Natural)		2d	<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
BH348 0.4-0.5	BH348	0.4-0.5	8/04/2021	Clay		2d	<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
BH348 0-0.2	BH348	0-0.2	8/04/2021	Fill (Reworked Natural)		2d	<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
BH349 0-0.2	BH349	0-0.2	8/04/2021	Fill (Reworked Natural)		2d	<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
BH350 0.4-0.5	BH350	0.4-0.5	8/04/2021	Clay		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH350 0-0.2	BH350	0-0.2	8/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH351 0-0.2	BH351	0-0.2	8/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH352 0.3-0.4	BH352	0.3-0.4	8/04/2021	Clay		2d	<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
BH353 0-0.1	BH353	0-0.1	8/04/2021	Fill (Reworked Natural)		2d	<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
BH354 0.9-1	BH354	0.9-1	8/04/2021	Clay		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH354 0-0.2	BH354	0-0.2	8/04/2021	Fill (Reworked Natural)		2d	<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
BH355 0.4-0.5	BH355	0.4-0.5	8/04/2021	Clay		2d	<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
BH355 0-0.2	BH355	0-0.2	8/04/2021	Fill (Reworked Natural)		2d	<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
BH360 0-0.1	BH360	0-0.1	7/04/2021	Fill (Reworked Natural)		2d	<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
BH361 0-0.1	BH361	0-0.1	8/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH363 0-0.1	BH363	0-0.1	7/04/2021	Fill (Reworked Natural)		2d	<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
BH364 0-0.1	BH364	0-0.1	7/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH365 0-0.2	BH365	0-0.2	7/04/2021	Fill (Reworked Natural)		6a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH365 0-0.2	BH365	0-0.2	15/04/2021	Fill (Reworked Natural)		6a	<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
BH366 0.2-0.6	BH366	0.2-0.6	7/04/2021	Clay		2d	<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
BH367 0-0.1	BH367	0-0.1	7/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH369 0-0.1	BH369	0-0.1	8/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH369 0-0.5	BH369	0-0.5	7/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH371 0-0.1	BH371	0-0.1	7/04/2021	Fill (Reworked Natural)		2d	<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
BH372 0-0.1	BH372	0-0.1	8/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH373 0.3-0.4	BH373	0.3-0.4	8/04/2021	Clay		2d	<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
BH375 0.3-0.4	BH375	0.3-0.4	8/04/2021	Fill (Reworked Natural)		3b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH375 0-0.1	BH375	0-0.1	8/04/2021	Fill (Reworked Natural)		3b	<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
BH377 0-0.1	BH377	0-0.1	8/04/2021	Fill (Reworked Natural)		2d	<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
BH379 0-0.1	BH379	0-0.1	8/04/2021	Fill (Reworked Natural)		2d	<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
BH384 0-0.1	BH384	0-0.1	7/04/2021	Fill (Reworked Natural)		2d	<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
BH385 0-0.1	BH385	0-0.1	7/04/2021	Fill (Reworked Natural)		2d	<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
BH386 0.5-0.6	BH386	0.5-0.6	8/04/2021	Clay		2d	<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
BH387 0-0.1	BH387	0-0.1	7/04/2021	Fill (Reworked Natural)		2d	<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
BH388 0-0.1	BH388	0-0.1	7/04/2021	Fill (Reworked Natural)		2d	<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
BH389 0-0.1	BH389	0-0.1	7/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH392_0.0-0.1	BH392	0-0.1	13/04/2021	Fill		5a	<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
BH393_0.0-0.1	BH393	0-0.1	13/04/2021	Fill		5a	<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
BH394_0.0-0.1	BH394	0-0.1	13/04/2021	Clayey Silt		5a	<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
BH399 0-0.1	BH399	0-0.1	14/04/2021	Fill (Reworked Natural)		4b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH406 0.15-0.3	BH406	0.15-0.3	15/04/2021	Clayey Silt		1a	<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
BH407 0-0.1	BH407	0-0.1	15/04/2021	Fill		1a	<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
BH408 0-0.1	BH408	0-0.1	15/04/2021	Fill		1a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH409 0-0.15	BH409	0-0.15	15/04/2021	Fill		1a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH410 0.2-0.5	BH410	0.2-0.5	15/04/2021	Clayey Silt		1a	<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
BH410 0-0.2	BH410	0-0.2	15/04/2021	Fill		1a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH411 0-0.2	BH411	0-0.2	15/04/2021	Clayey Silt		1a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH412 0-0.1	BH412	0-0.1	14/04/2021	Fill		1b	<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
BH412 0-0.4	BH412	0-0.4	14/04/2021	Fill		1b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH413 0-1	BH413	0-1	14/04/2021	Fill		1b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH414 0-0.1	BH414	0-0.1	14/04/2021	Fill		1b	<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
BH414 0-0.2	BH414	0-0.2	14/04/2021	Fill		1b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH415 0-0.2	BH415	0-0.2	14/04/2021	Fill		1b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH416 0-0.1	BH416	0-0.1	14/04/2021	Fill		1b	<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	0.8	<0.5	<0.5	<0.5	0.5	0.8	2.6
BH416 0-0.2	BH416	0-0.2	14/04/2021	Fill		1b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH417 0-0.1	BH417	0-0.1	14/04/2021	Fill		1b	<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
BH417 0-0.2	BH417	0-0.2	14/04/2021	Fill		1b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH418 0-0.1	BH418	0-0.1	15/04/2021	Fill		1b	<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
BH418 0-0.3	BH418	0-0.3	15/04/2021	Fill		1b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH419 0-0.15	BH419	0-0.15	15/04/2021	Fill		1b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH420 0-0.1	BH420	0-0.1	15/04/2021	Fill		1b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH421 0-0.1	BH421	0-0.1	15/04/2021	Fill		1b	<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
BH422-0-0.1	BH422	0-0.1	12/04/2021	Fill (Reworked Natural)		1c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH423-0-0.1	BH423	0-0.1	12/04/2021	Fill (Reworked Natural)		1c	<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
BH424-0-0.1	BH424	0-0.1	12/04/2021	Fill (Reworked Natural)		1c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH425-0-0.2	BH425	0-0.2	12/04/2021	Fill (Reworked Natural)		1c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH426-0-0.1	BH426	0-0.1	12/04/2021	Fill (Reworked Natural)		1c	<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
BH427-0.3-0.4	BH427	0.3-0.4	12/04/2021	Clay		1c	<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
BH427-0-0.2	BH427	0-0.2	12/04/2021	Fill (Reworked Natural)		1c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH428-0.3-0.4	BH428	0.3-0.4	12/04/2021	Clay		1c	<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
BH428-0.0-0.15	BH428	0-0.15	12/04/2021	Fill (Reworked Natural)		1c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH429-0-0.2	BH429	0-0.2	12/04/2021	Fill (Reworked Natural)		1c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH430 0-0.2	BH430	0-0.2	12/04/2021	Fill (Reworked Natural)		1c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH431 0-0.2	BH431	0-0.2	12/04/2021	Fill (Reworked Natural)		1c	<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
BH432 0.5-0.6	BH432	0.5-0.6	15/04/2021	Fill (Reworked Natural)		1d	<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
BH432 0-0.3	BH432	0-0.3	15/04/2021	Fill		1d	<0.5	<0.5	<0.5	0.8	0.8	1.6	1.3	1	<0.5	0.9	0.7	0.6	<0.5	1.2	<0.5	0.6	<0.5	<0.5	1.1	6.7
BH434_0.0-0.15	BH434	0-0.15	9/04/2021	Fill (Reworked Natural)		1e/4f	<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
BH435_0.0-0.1	BH435	0-0.1	9/04/2021	Fill (Reworked Natural)		1e/4f	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH436_0.0-0.15	BH436	0-0.15	9/04/2021	Fill (Reworked Natural)		1e/4f	<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
BH437_0.0-0.2	BH437	0-0.2	9/04/2021	Fill (Reworked Natural)		1e/4f	<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
BH437_0.3-0.4	BH437	0.3-0.4	9/04/2021	Clay		1e/4f	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH438_0.0-0.2	BH438	0-0.2	9/04/2021	Fill (Reworked Natural)		1e/4f	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH439_0.0-0.15	BH439	0-0.15	9/04/2021	Fill (Reworked Natural)		1e/4f	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH440_0.0-0.2	BH440	0-0.2	9/04/2021	Fill (Reworked Natural)		1e/4f	<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
BH440_0.4-0.5	BH440	0.4-0.5	9/04/2021	Clay		1e/4f	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH441_0.0-0.2	BH441	0-0.2	9/04/2021	Fill (Reworked Natural)		1e/4f	<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
BH442_0.0-0.1	BH442	0-0.1	9/04/2021	Fill (Reworked Natural)		1e/4f	<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
BH443_0.0-0.3	BH443	0-0.3	9/04/2021	Fill (Reworked Natural)		1e/4f	<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
BH444_0.0-0.3	BH444	0-0.3	9/04/2021	Fill (Reworked Natural)			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH445_0.4-0.6	BH445	0.4-0.6	9/04/2021	Clay			<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

Table A - Soil
Project Number: 66105
Project Name: Aldington Road

								PAH																
								Acenaphthene	Acenaphthylene	Anthracene	Benz[a]anthracene	Benzo[a]pyrene	Benzo[a]pyrene TEQ (LOR)	Benzo[a]pyrene TEQ calc (Half)	Benzo[a]pyrene TEQ calc (Zero)	Benzo[b]fluoranthene	Benzo[g,h,i]perylene	Benzo[k]fluoranthene	Chrysene	Dibenz[a,h]anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene - PAH	Phenanthrene	Pyrene	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
EQL								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	0.5	0.5
NSW 2014 General Solid Waste CT1 (No Leaching)												0.8[#3]														
NSW 2014 General Solid Waste SCC1 (with leached)												$10^{[#6]}$														
Field ID	**Location**	**Sample Depth Range**	**Sampled Date Time**	**Matrix Description**	**Monitoring Round**	**Monitoring Zone**																				
BH446_0.0-0.2	BH446	0-0.2	9/04/2021	Fill (Reworked Natural)		1e/4f		<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
BH447_0.0-0.15	BH447	0-0.15	9/04/2021	Fill (Reworked Natural)		1e/4f		<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
QA10-Soil			14/04/2021					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA12-Soil			15/03/2021					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC01-SOIL	TP216		12/04/2021			2a/7b		<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
QC02-SOIL	BH298		12/04/2021			2b		<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
QC03-SOIL	BH203		12/04/2021			4a		<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
QC04-SOIL	BH431		12/04/2021			1c		<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
QC05_SOIL	TP147		13/04/2021			7a		<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
QC06_SOIL	TP309		13/04/2021			5a		<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
QC07_SOIL	TP395		13/04/2021			6c		<0.5	<0.5	<0.5	0.8	0.7	1.5	1.2	0.9	0.7	0.5	0.6	0.9	<0.5	2.1	<0.5	<0.5	1.2	1.8	9.3
QC08_SOIL	TP260		13/04/2021			3a		<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
QC09 - SOIL	BH354		15/04/2021			2d		<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
QC10 - SOIL	BH415		15/04/2021			1b		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC11 - SOIL	BH421		15/04/2021			1b		<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	0.8	<0.5	0.8	
QC12 - SOIL	BH329		15/04/2021			4e		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP101 0-0.1	TP101	0-0.1	12/04/2021	Clayey Silt		7a		<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
TP102 0-0.1	TP102	0-0.1	12/04/2021	Clayey Silt		7a		<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
TP104 0-0.1	TP104	0-0.1	12/04/2021	Clayey Silt		7a		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP106 0-0.1	TP106	0-0.1	12/04/2021	Clayey Silt		7a		<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
TP107 0-0.1	TP107	0-0.1	12/04/2021	Clayey Silt		7a		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP108 0.2-0.3	TP108	0.2-0.3	12/04/2021	Clay		7a		<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
TP112 0-0.1	TP112	0-0.1	12/04/2021	Clayey Silt		7a		<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
TP114 0-0.1	TP114	0-0.1	12/04/2021	Clayey Silt		7a		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP115 0-0.1	TP115	0-0.1	12/04/2021	Clayey Silt		7a		<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
TP116 0-0.1	TP116	0-0.1	12/04/2021	Clayey Silt		7a		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP117 0-0.1	TP117	0-0.1	12/04/2021	Clayey Silt		7a		<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
TP118 0-0.1	TP118	0-0.1	12/04/2021	Clayey Silt		7a		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP119 0-0.1	TP119	0-0.1	12/04/2021	Clayey Silt		7a		<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
TP120 0-0.1	TP120	0-0.1	12/04/2021	Clayey Silt		7a		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP124_0.0-0.1	TP124	0-0.1	13/04/2021	Clayey Silt		7a		<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
TP126_0.0-0.1	TP126	0-0.1	13/04/2021	Clayey Silt		7a		<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
TP127 0.0-0.1	TP127	0-0.1	13/04/2021	Clayey Silt		7b		<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
TP128_0.0-0.1	TP128	0-0.1	13/04/2021	Clayey Silt		7b		<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
TP129_0.0-0.1	TP129	0-0.1	13/04/2021	Clayey Silt		7a		<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
TP129_0.2-0.3	TP129	0.2-0.3	13/04/2021	Clay		7a		<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
TP130_0.0-0.1	TP130	0-0.1	13/04/2021	Clayey Silt		7a		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP131_0.0-0.1	TP131	0-0.1	13/04/2021	Clayey Silt		7a		<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
TP132 0-0.1	TP132	0-0.1	12/04/2021	Clayey Silt		7a		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP133 0-0.1	TP133	0-0.1	12/04/2021	Clayey Silt		7a		<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
TP135 0-0.1	TP135	0-0.1	12/04/2021	Clayey Silt		7b		<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
TP136 0-0.1	TP136	0-0.1	12/04/2021	Clayey Silt		7a		<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
TP137 0-0.1	TP137	0-0.1	12/04/2021	Clayey Silt		7a		<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
TP138_0.0-0.1	TP138	0-0.1	13/04/2021	Clayey Silt		7a		<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
TP139_0.0-0.1	TP139	0-0.1	13/04/2021	Clayey Silt		7a		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP140_0.0-0.1	TP140	0-0.1	13/04/2021	Clayey Silt		7a		<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
TP141_0.3-0.4	TP141	0.3-0.4	13/04/2021	Clay		7a		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP142_0.0-0.1	TP142	0-0.1	13/04/2021	Clayey Silt		7a		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP142_0.2-0.3	TP142	0.2-0.3	13/04/2021	Clay		7a		<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
TP143_0.0-0.1	TP143	0-0.1	13/04/2021	Clayey Silt		7a		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP144_0.0-0.1	TP144	0-0.1	13/04/2021	Clayey Silt		7a		<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
TP145_0.0-0.1	TP145	0-0.1	13/04/2021	Clayey Silt		7a		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP146_0.0-0.1	TP146	0-0.1	13/04/2021	Clayey Silt		7a		<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
TP147_0.0-0.1	TP147	0-0.1	13/04/2021	Clayey Silt		7a		<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
TP149_0.0-0.1	TP149	0-0.1	13/04/2021	Clayey Silt		7a		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP150_0.0-0.1	TP150	0-0.1	13/04/2021	Clayey Silt		7a		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP150_0.2-0.3	TP150	0.2-0.3	13/04/2021	Clay		7a		<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
TP151_0.0-0.1	TP151	0-0.1	13/04/2021	Clayey Silt		7a		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP152_0.0-0.1	TP152	0-0.1	13/04/2021	Clayey Silt		7a		<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
TP152_0.3-0.4	TP152	0.3-0.4	13/04/2021	Clay		7a		<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
TP153_0.0-0.1	TP153	0-0.1	13/04/2021	Clayey Silt		7a		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP154_0.0-0.1	TP154	0-0.1	13/04/2021	Clayey Silt		7a		<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
TP156 0-0.1	TP156	0-0.1	12/04/2021	Clayey Silt		7a		<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
TP157 0-0.1	TP157	0-0.1	12/04/2021	Clayey Silt		7a		<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
TP201 0.5-0.6	TP201	0.5-0.6	9/04/2021	Clay		4a		<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
TP201 0-0.2	TP201	0-0.2	9/04/2021	Fill (Reworked Natural)		4a		<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
TP201 0-0.2AQ	TP201	0-0.2	9/04/2021	Fill (Reworked Natural)		4a		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP204 0-0.1	TP204	0-0.1	9/04/2021	Fill		4a		<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
TP205 0-0.2	TP205	0-0.2	1/04/2021	Fill		4a		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP211 0-0.1	TP211	0-0.1	9/04/2021	Fill (Reworked Natural)		2a		<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
TP212 0.5-0.6	TP212	0.5-0.6	1/04/2021	Fill		2a		<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
TP212 2.6-2.9	TP212	2.6-2.9	1/04/2021	Clay		2a		<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
TP215-1.7-1.8	TP215	1.7-1.8	9/04/2021	Clay		2a		<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
TP216 0.4-0.5	TP216	0.4-0.5	12/04/2021	Fill (Reworked Natural)		2a/7b		<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
TP220 0-0.1	TP220	0-0.1	7/04/2021	Fill (Reworked Natural)		2a		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP222 0.4-0.5	TP222	0.4-0.5	7/04/2021	Clay		2a		<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
TP223 0-0.1	TP223	0-0.1	12/04/2021	Fill (Reworked Natural)		2a		<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
TP224 0-0.1	TP224	0-0.1	12/04/2021	Fill (Reworked Natural)		2a		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP227 0.4-0.5	TP227	0.4-0.5	7/04/2021	Clay		2a		<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
TP235_0.0-0.05	TP235	0-0.05	13/04/2021	Fill		3a		<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
TP236_0.0-0.1	TP236	0-0.1	13/04/2021	Fill (Reworked Natural)		3a		<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
TP260_0.0-0.1	TP260	0-0.1	13/04/2021	Fill		3a		<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
TP260_0.2-0.3	TP260	0.2-0.3	13/04/2021	Fill		3a		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP309_0.0-0.2	TP309	0-0.2	13/04/2021	Fill (Reworked Natural)		5a		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP310_0.0-0.2	TP310	0-0.2	13/04/2021	Fill (Reworked Natural)		4d		<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
TP331_0.0-0.1	TP331	0-0.1	13/04/2021	Clayey Silt		2d		<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
TP390_0.0-0.1	TP390	0-0.1	13/04/2021	Fill		7a		<1	<1	<1	<2	<2	3.7	<2	<2	1.2	1.1	1.3	<2	<1	1.1	<1	<2	<1	<1	1.3	6
TP391_0.0-0.1	TP391	0-0.1	13/04/2021	Fill		6c		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP391_0.5-0.6	TP391	0.5-0.6	13/04/2021	Fill (Reworked Natural)		6c		<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
TP395_0.0-0.1	TP395	0-0.1	13/04/2021	Fill		6c		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP395_0.3-0.4	TP395	0.3-0.4	13/04/2021	Fill		6c		2.5	<0.5	5.1	19	17	26	26	26	18	12	12	17	2.8	47	1.6	8.7	<0.5	32	38	232.7
TP396_0.0-0.1	TP396	0-0.1	13/04/2021	Fill (Reworked Natural)		6c		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP396_0.4-0.5	TP396	0.4-0.5	13/04/2021	Clay		6c		<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
TP397_0.0-0.1	TP397	0-0.1	13/04/2021	Fill		6c		<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
TP397_0.3-0.4	TP397	0.3-0.4	13/04/2021	Fill		6c		<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
TP398_0.0-0.2	TP398	0-0.2	13/04/2021	Fill		6c		21	0.5	78	220	210	340	340	340	190	190	150	210	57	560	12	160	0.9	270	480	2809.4
TP398_0.3-0.4			13/04/2021	Clay				<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
TP400 0-0.3	TP400	0-0.3	9/04/2021	Clayey Silt		1a		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP401 0-0.3	TP401	0-0.3	9/04/2021	Clayey Silt		1a		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP402 0-0.3	TP402	0-0.3	9/04/2021	Clayey Silt		1a		<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
TP403 0-0.3	TP403	0-0.3	9/04/2021	Fill		1a		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP404 0-0.4	TP404	0-0.4	9/04/2021	Fill		1a		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP405 0-0.4	TP405	0-0.4	9/04/2021	Fill		1a		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP445 1-1.8	TP445	1-1.8	8/04/2021	Clay		1e/4f		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table A - Soil
Project Number: 66105
Project Name: Aldington Road

							PAH																	
							Acenaphthene	Acenaphthylene	Anthracene	Benz[a]anthracene	Benzo(a)pyrene	Benzo(a)pyrene TEQ (LOR)	Benzo(a)pyrene TEQ calc (Half)	Benzo(a)pyrene TEQ calc (Zero)	Benzo(b)fluoranthene	Benzo(g,h,j)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene - PAH	Phenanthrene	Pyrene	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
EQL							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	0.5	0.5	0.5
NSW 2014 General Solid Waste CT1 (No Leaching)											0.8[#3]															
NSW 2014 General Solid Waste SCC1 (with leached)											$10^{[#6]}$															
Field ID	**Location**	**Sample Depth Range**	**Sampled Date Time**	**Matrix Description**	**Monitoring Round**	**Monitoring Zone**																				
TP448 0-0.3	TP448	0-0.3	9/04/2021	Fill (Reworked Natural)		1e/4f	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP449 0.3-0.9	TP449	0.3-0.9	8/04/2021	Fill		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP449 1.2-1.3	TP449	1.2-1.3	8/04/2021	Clay		1f/3c	<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
TP450 2-2.5	TP450	2-2.5	8/04/2021	Fill		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP451 1-2	TP451	1-2	8/04/2021	Fill		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP452 1.1-1.2	TP452	1.1-1.2	8/04/2021	Fill		1f/3c	<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
TP452 1-2	TP452	1-2	8/04/2021	Fill		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP452 2.4-2.5	TP452	2.4-2.5	8/04/2021	Clay		1f/3c	<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
TP453 0-0.9	TP453	0-0.9	9/04/2021	Fill		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP454 0.7-1.2	TP454	0.7-1.2	8/04/2021	Fill		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP454 1.4-1.5	TP454	1.4-1.5	8/04/2021	Clay		1f/3c	<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
TP456 0-0.1	TP456	0-0.1	8/04/2021	Fill		1f/3c	<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
TP456 2.8-3	TP456	2.8-3	8/04/2021	Fill		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP457 2.5-2.6	TP457	2.5-2.6	8/04/2021	Clay		1f/3c	<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
TP457 2-2.5	TP457	2-2.5	8/04/2021	Fill		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP458 0-0.9	TP458	0-0.9	9/04/2021	Fill		1e/4f	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP459 1.4-2.4	TP459	1.4-2.4	8/04/2021	Fill		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP460 2-2.6	TP460	2-2.6	8/04/2021	Fill		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP461 1-2	TP461	1-2	8/04/2021	Fill		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP461 2.4-2.5	TP461	2.4-2.5	8/04/2021	Clay		1f/3c	<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
TP462 2-3	TP462	2-3	9/04/2021	Fill		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP463 0.8-1.8	TP463	0.8-1.8	9/04/2021	Fill		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP463 1.8-2.8	TP463		9/04/2021	Fill		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP463 2.8-3.8	TP463	2.8-3.8	9/04/2021	Fill		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP463 4.3-4.4	TP463	4.3-4.4	9/04/2021	Clay		1f/3c	<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
TP464 1.6-2.3	TP464	1.6-2.3	9/04/2021	Fill		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Env Stds Comments
#1:Trigger value adopted from Chromium VI
#2:Approximate range of petroleum hydrocarbon fractions: petrol C6–C9, kerosene C10–C18, diesel C12–C18, and lubricating oils above C18. Refer to NSW W
#3:There may be a need for the laboratory to concentrate the sample to achieve the TCLP limit value for benzo(a)pyrene with confidence. Refer to NSW Waste
#4:Polychlorinated biphenyls must be managed in accordance with the EPA's polychlorinated biphenyl (PCB) chemical control order 1997. Refer to NSW Waste
#5:Refer to NSW Waste Criteria Nov 2014 p.17 footnote 13
#6:Calculated from Hazardous Waste: Identification and Listing (USEPA 2012a). Refer to NSW Waste Criteria Nov 2014 p.16 footnote 3, 4
#7:Refer to NSW Waste Criteria Nov 2014 p.17 footnote 12, EPA Chemical Control Order 1997, clause 4.13

Data Comments
#1 AF:Chrysotile asbestos detected in compressed fibre cement fragment.Approximate raw weight of AF = 0.00030g*Estimated asbestos content in AF = 0.00
#2 ACM:Chrysotile asbestos detected in fibre cement fragments.Approximate raw weight of ACM = 4.8gTotal estimated asbestos content in ACM = 0.24g*Tot
#3 AF:Chrysotile asbestos detected in compressed fibre cement fragment.No asbestos detected at the reporting limit of 0.001% w/w.*
#4 No asbestos detected at the reporting limit of 0.001% w/w.*Organic fibre detected.No trace asbestos detected.
#5 No asbestos detected at the reporting limit of 0.001% w/w.Organic fibre detected.No trace asbestos detected.
#6 No asbestos detected at the reporting limit of 0.01% w/w.Organic fibre detected.No trace asbestos detected.
#7 ACM:Chrysotile asbestos detected in fibre cement fragments.
#8 No respirable fibres detected.
#9 Chrysotile asbestos detected.
#10 Organic fibres detected.
#11 60x40x5
#12 Nil

Table A - Soil
Project Number: 66105
Project Name: Aldington Road

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Table A - Soil
Project Number: 66105
Project Name: Aldington Road

												Organochlorine Pesticides																				Polychlorinated Biphenyls							
												Pentachlorophenol	4,4-DDE	a-BHC	b-BHC	d-BHC	g-BHC (Lindane)	Aldrin	Dieldrin	Aldrin + Dieldrin	Chlordane	DDT	DDD	DDT+DDE+DDD	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor Epoxide	Methoxychlor	Toxaphene	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	PCBs (Sum of total)
EQL												mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
												1	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.1	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.2	0.1	0.5	0.1	0.5	0.5	0.5	0.5	0.5	0.5
NSW 2014 General Solid Waste CT1 (No Leaching)																																										<50[#]
NSW 2014 General Solid Waste SCC1 (with leached)																																										<50[#]
Field ID	**Location**	**Sample Depth Range**	**Sampled Date Time**	**Matrix Description**	**Monitoring Round**	**Monitoring Zone**																																				
BH330 0-0.2	BH330	0-0.2	15/04/2021	Fill		4e	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH331 0-0.1	BH331	0-0.1	8/04/2021	Fill (Reworked Natural)		7a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH334 0.4-0.5	BH334	0.4-0.5	8/04/2021	Clay		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH334 0-0.2	BH334	0-0.2	8/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH335 0.4-0.5	BH335	0.4-0.5	8/04/2021	Clay		2d	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<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	<0.2	<0.1	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH335 0-0.2	BH335	0-0.2	8/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH336 0.4-0.5	BH336	0.4-0.5	8/04/2021	Clay		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH338 0-0.1	BH338	0-0.1	8/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH339 0-0.1	BH339	0-0.1	7/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH340 0-0.2	BH340	0-0.2	7/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH341 0-0.2	BH341	0-0.2	7/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH344 0-0.2	BH344	0-0.2	7/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH345 0-0.1	BH345	0-0.1	8/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH346 0.4-0.5	BH346	0.4-0.5	8/04/2021	Clay		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH347 0-0.2	BH347	0-0.2	8/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH348 0.4-0.5	BH348	0.4-0.5	8/04/2021	Clay		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH348 0-0.2	BH348	0-0.2	8/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH349 0-0.2	BH349	0-0.2	8/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH350 0.4-0.5	BH350	0.4-0.5	8/04/2021	Clay		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH350 0-0.2	BH350	0-0.2	8/04/2021	Fill (Reworked Natural)		2d	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<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	<0.2	<0.1	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH351 0-0.2	BH351	0-0.2	8/04/2021	Fill (Reworked Natural)		2d	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<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	<0.2	<0.1	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH352 0.3-0.4	BH352	0.3-0.4	8/04/2021	Clay		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH353 0-0.1	BH353	0-0.1	8/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH354 0.9-1	BH354	0.9-1	8/04/2021	Clay		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH354 0-0.2	BH354	0-0.2	8/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH355 0.4-0.5	BH355	0.4-0.5	8/04/2021	Clay		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH355 0-0.2	BH355	0-0.2	8/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH360 0-0.1	BH360	0-0.1	7/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH361 0-0.1	BH361	0-0.1	8/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH363 0-0.1	BH363	0-0.1	7/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH364 0-0.1	BH364	0-0.1	7/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH365 0-0.2	BH365	0-0.2	7/04/2021	Fill (Reworked Natural)		6a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH365 0-0.2	BH365	0-0.2	15/04/2021	Fill (Reworked Natural)		6a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH366 0.2-0.6	BH366	0.2-0.6	7/04/2021	Clay		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH367 0-0.1	BH367	0-0.1	7/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH369 0-0.1	BH369	0-0.1	8/04/2021	Fill (Reworked Natural)		2d	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<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	<0.2	<0.1	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH369 0-0.5	BH369	0-0.5	7/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH371 0-0.1	BH371	0-0.1	7/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH372 0-0.1	BH372	0-0.1	8/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH373 0.3-0.4	BH373	0.3-0.4	8/04/2021	Clay		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH375 0.3-0.4	BH375	0.3-0.4	8/04/2021	Fill (Reworked Natural)		3b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH375 0-0.1	BH375	0-0.1	8/04/2021	Fill (Reworked Natural)		3b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH377 0-0.1	BH377	0-0.1	8/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH379 0-0.1	BH379	0-0.1	8/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH384 0-0.1	BH384	0-0.1	7/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH385 0-0.1	BH385	0-0.1	7/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH386 0.5-0.6	BH386	0.5-0.6	8/04/2021	Clay		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH387 0-0.1	BH387	0-0.1	7/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH388 0-0.1	BH388	0-0.1	7/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH389 0-0.1	BH389	0-0.1	7/04/2021	Fill (Reworked Natural)		2d	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<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	<0.2	<0.1	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH392_0.0-0.1	BH392	0-0.1	13/04/2021	Fill		5a	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH393_0.0-0.1	BH393	0-0.1	13/04/2021	Fill		5a	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH394_0.0-0.1	BH394	0-0.1	13/04/2021	Clayey Silt		5a	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH399 0-0.1	BH399	0-0.1	14/04/2021	Fill (Reworked Natural)		4b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH406 0.15-0.3	BH406	0.15-0.3	15/04/2021	Clayey Silt		1a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH407 0-0.1	BH407	0-0.1	15/04/2021	Fill		1a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH408 0-0.1	BH408	0-0.1	15/04/2021	Fill		1a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH409 0-0.15	BH409	0-0.15	15/04/2021	Fill		1a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH410 0.2-0.5	BH410	0.2-0.5	15/04/2021	Clayey Silt		1a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH410 0-0.2	BH410	0-0.2	15/04/2021	Fill		1a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH411 0-0.2	BH411	0-0.2	15/04/2021	Clayey Silt		1a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH412 0-0.1	BH412	0-0.1	14/04/2021	Fill		1b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH412 0-0.4	BH412	0-0.4	14/04/2021	Fill		1b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH413 0-1	BH413	0-1	14/04/2021	Fill		1b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH414 0-0.1	BH414	0-0.1	14/04/2021	Fill		1b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH414 0-0.2	BH414	0-0.2	14/04/2021	Fill		1b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH415 0-0.2	BH415	0-0.2	14/04/2021	Fill		1b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH416 0-0.1	BH416	0-0.1	14/04/2021	Fill		1b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH416 0-0.2	BH416	0-0.2	14/04/2021	Fill		1b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH417 0-0.1	BH417	0-0.1	14/04/2021	Fill		1b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH417 0-0.2	BH417	0-0.2	14/04/2021	Fill		1b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH418 0-0.1	BH418	0-0.1	15/04/2021	Fill		1b	-	0.14	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	0.08	<0.05	0.22	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH418 0-0.3	BH418	0-0.3	15/04/2021	Fill		1b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH419 0-0.15	BH419	0-0.15	15/04/2021	Fill		1b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH420 0-0.1	BH420	0-0.1	15/04/2021	Fill		1b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH421 0-0.1	BH421	0-0.1	15/04/2021	Fill		1b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH422-0-0.1	BH422	0-0.1	12/04/2021	Fill (Reworked Natural)		1c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH423-0-0.1	BH423	0-0.1	12/04/2021	Fill (Reworked Natural)		1c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH424-0-0.1	BH424	0-0.1	12/04/2021	Fill (Reworked Natural)		1c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH425-0-0.2	BH425	0-0.2	12/04/2021	Fill (Reworked Natural)		1c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH426-0-0.1	BH426	0-0.1	12/04/2021	Fill (Reworked Natural)		1c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH427-0.3-0.4	BH427	0.3-0.4	12/04/2021	Clay		1c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH427-0-0.2	BH427	0-0.2	12/04/2021	Fill (Reworked Natural)		1c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH428-0.3-0.4	BH428	0.3-0.4	12/04/2021	Clay		1c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH428-0-0.15	BH428	0-0.15	12/04/2021	Fill (Reworked Natural)		1c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH429-0-0.2	BH429	0-0.2	12/04/2021	Fill (Reworked Natural)		1c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH430 0-0.2	BH430	0-0.2	12/04/2021	Fill (Reworked Natural)		1c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH431 0-0.2	BH431	0-0.2	12/04/2021	Fill (Reworked Natural)		1c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH432 0.5-0.6	BH432	0.5-0.6	15/04/2021	Fill (Reworked Natural)		1d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH432 0-0.3	BH432	0-0.3	15/04/2021	Fill		1d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH434_0.0-0.15	BH434	0-0.15	9/04/2021	Fill (Reworked Natural)		1e/4f	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH435_0.0-0.1	BH435	0-0.1	9/04/2021	Fill (Reworked Natural)		1e/4f	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH436_0.0-0.15	BH436	0-0.15	9/04/2021	Fill (Reworked Natural)		1e/4f	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH437_0.0-0.2	BH437	0-0.2	9/04/2021	Fill (Reworked Natural)		1e/4f	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH437_0.3-0.4	BH437	0.3-0.4	9/04/2021	Clay		1e/4f	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH438_0.0-0.2	BH438	0-0.2	9/04/2021	Fill (Reworked Natural)		1e/4f	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH439_0.0-0.15	BH439	0-0.15	9/04/2021	Fill (Reworked Natural)		1e/4f	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH440_0.0-0.2	BH440	0-0.2	9/04/2021	Fill (Reworked Natural)		1e/4f	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH440_0.4-0.5	BH440	0.4-0.5	9/04/2021	Clay		1e/4f	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH441_0.0-0.2	BH441	0-0.2	9/04/2021	Fill (Reworked Natural)		1e/4f	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH442_0.0-0.1	BH442	0-0.1	9/04/2021	Fill (Reworked Natural)		1e/4f	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<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	<0.2	<0.1	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH443_0.0-0.3	BH443	0-0.3	9/04/2021	Fill (Reworked Natural)		1e/4f	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH444_0.0-0.3	BH444	0-0.3	9/04/2021	Fill (Reworked Natural)			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH445_0.4-0.6	BH445	0.4-0.6	9/04/2021	Clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table A - Soil
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	Organochlorine Pesticides																								Polychlorinated Biphenyls							
	Pentachlorophenol	4,4-DDE	a-BHC	b-BHC	d-BHC	g-BHC (Lindane)	Aldrin	Dieldrin	Aldrin + Dieldrin	Chlordane	DDT	DDD	DDT+DDE+DDD	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor Epoxide	Methoxychlor	Toxaphene	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	PCBs (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	1	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.1	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.2	0.1	0.5	0.1	0.5	0.5	0.5	0.5	0.5	0.5
NSW 2014 General Solid Waste CT1 (No Leaching)																															<50[#3]
NSW 2014 General Solid Waste SCC1 (with leached)																															<50[#7]

Field ID	Location	Sample Depth Range	Sampled Date Time	Matrix Description	Monitoring Round	Monitoring Zone																											
TP448 0-0.3	TP448	0-0.3	9/04/2021	Fill (Reworked Natural)		1e/4f	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP449 0.3-0.9	TP449	0.3-0.9	8/04/2021	Fill		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP449 1.2-1.3	TP449	1.2-1.3	8/04/2021	Clay		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP450 2-2.5	TP450	2-2.5	8/04/2021	Fill		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP451 1-2	TP451	1-2	8/04/2021	Fill		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP452 1.1-1.2	TP452	1.1-1.2	8/04/2021	Fill		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP452 1-2	TP452	1-2	8/04/2021	Fill		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP452 2.4-2.5	TP452	2.4-2.5	8/04/2021	Clay		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP453 0-0.9	TP453	0-0.9	9/04/2021	Fill		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP454 0.7-1.2	TP454	0.7-1.2	8/04/2021	Fill		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP454 1.4-1.5	TP454	1.4-1.5	8/04/2021	Clay		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP456 0-0.1	TP456	0-0.1	8/04/2021	Fill		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP456 2.8-3	TP456	2.8-3	8/04/2021	Fill		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP457 2.5-2.6	TP457	2.5-2.6	8/04/2021	Clay		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP457 2-2.5	TP457	2-2.5	8/04/2021	Fill		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP458 0-0.9	TP458	0-0.9	9/04/2021	Fill		1e/4f	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP459 1.4-2.4	TP459	1.4-2.4	8/04/2021	Fill		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP460 2-2.6	TP460	2-2.6	8/04/2021	Fill		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP461 1-2	TP461	1-2	8/04/2021	Fill		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP461 2.4-2.5	TP461	2.4-2.5	8/04/2021	Clay		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP462 2-3	TP462	2-3	9/04/2021	Fill		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP463 0.8-1.8	TP463	0.8-1.8	9/04/2021	Fill		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP463 1.8-2.8	TP463		9/04/2021	Fill		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP463 2.8-3.8	TP463	2.8-3.8	9/04/2021	Fill		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP463 4.3-4.4	TP463	4.3-4.4	9/04/2021	Clay		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP464 1.6-2.3	TP464	1.6-2.3	9/04/2021	Fill		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Env Stds Comments
#1:Trigger value adopted from Chromium VI
#2:Approximate range of petroleum hydrocarbon fractions: petrol C6–C9, kerosene C10–C18, diesel C12–C18, and lubricating oils above C18. Refer to NSW W
#3:There may be a need for the laboratory to concentrate the sample to achieve the TCLP limit value for benzo(a)pyrene with confidence. Refer to NSW Waste
#4:Polychlorinated biphenyls must be managed in accordance with the EPA's polychlorinated biphenyl (PCB) chemical control order 1997. Refer to NSW Waste
#5:Refer to NSW Waste Criteria Nov 2014 p.17 footnote 13
#6:Calculated from Hazardous Waste: Identification and Listing (USEPA 2012a). Refer to NSW Waste Criteria Nov 2014 p.16 footnote 3, 4
#7:Refer to NSW Waste Criteria Nov 2014 p.17 footnote 12, EPA Chemical Control Order 1997, clause 4.13

Data Comments
#1 AF:Chrysotile asbestos detected in compressed fibre cement fragment.Approximate raw weight of AF = 0.00030g*Estimated asbestos content in AF = 0.00
#2 ACM:Chrysotile asbestos detected in fibre cement fragments.Approximate raw weight of ACM = 4.8gTotal estimated asbestos content in ACM = 0.24g*Tot
#3 AF:Chrysotile asbestos detected in compressed fibre cement fragment.No asbestos detected at the reporting limit of 0.001% w/w.*
#4 No asbestos detected at the reporting limit of 0.001% w/w.*Organic fibre detected.No trace asbestos detected.
#5 No asbestos detected at the reporting limit of 0.001% w/w.Organic fibre detected.No trace asbestos detected.
#6 No asbestos detected at the reporting limit of 0.01% w/w.Organic fibre detected.No trace asbestos detected.
#7 ACM:Chrysotile asbestos detected in fibre cement fragments.
#8 No respirable fibres detected.
#9 Chrysotile asbestos detected.
#10 Organic fibres detected.
#11 60x40x5
#12 Nil

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							Chlorinated Benzenes	Herbicides & Fungicides										Ionic Balance			PA VIC - IWRG62		Particle Size
							Hexachlorobenzene	2,4,5-TP (Silvex)	2,4,5-Trichlorophenoxy Acetic Acid	2,4,5-Trichlorophenoxy Butanoic Acid	2,4-Dichloroprop	2-Methyl-4-Chlorophenoxy Butanoic Acid	2-Methyl-4-chlorophenoxyacetic acid	4-(2,4-Dichlorophenoxy)butyric Acid (2,4-DB)	Dicamba	Dinoseb	Fenoprop	Mecoprop	CEC	Conductivity (1:5 aqueous extract)	pH (Aqueous extract)	Organochlorine Pesticides EPAVic	Other Organochlorine Pesticides EPAVic	% Clay*
							mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	MEQ/100G	US/CM	pH Units	mg/kg	mg/kg	%
EQL							0.05	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.05	10	0.1	0.1	0.1	1
NSW 2014 General Solid Waste CT1 (No Leaching)																	200							
NSW 2014 General Solid Waste SCC1 (with leached)																	360							
Field ID	**Location**	**Sample_Depth_Range**	**Sampled_Date_Time**	**Matrix_Description**	**Monitoring_Round**	**Monitoring Zone**																		
BH111-0-0.1	BH111	0-0.1	12/04/2021			7a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH122 0-0.2	BH122	0-0.2	15/04/2021	Clayey Silt		7a	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	<0.2	<0.2	-
BH123 0-0.2	BH123	0-0.2	15/04/2021	Clayey Silt		7a	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	<0.2	<0.2	-
BH158 0-0.2	BH158	0-0.2	15/04/2021	Clayey Silt		7a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH159 0-0.2	BH159	0-0.2	15/04/2021	Clayey Silt		7a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH161 0-0.2	BH161	0-0.2	15/04/2021	Clayey Silt		7a	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.2	<0.2	-
BH162 0.4-0.5	BH162	0.4-0.5	15/04/2021	Clay		7a	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
BH162 0-0.2	BH162	0-0.2	15/04/2021	Clayey Silt		7a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH164 0.4-0.5	BH164	0.4-0.5	15/04/2021	Clay		7a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH165 0-0.2	BH165	0-0.2	15/04/2021	Clayey Silt		7a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH166 0-0.2	BH166	0-0.2	15/04/2021	Clayey Silt		7a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH167 0-0.2	BH167	0-0.2	15/04/2021	Clayey Silt		7a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH169 0-0.1	BH169	0-0.1	8/04/2021	Clayey Silt		7a	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
BH170 0-0.1	BH170	0-0.1	8/04/2021	Clayey Silt		7a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH171 0-0.1	BH171	0-0.1	8/04/2021	Clayey Silt		7a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH172 0.4-0.5	BH172	0.4-0.5	8/04/2021	Clay		7a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH172 0-0.1	BH172	0-0.1	8/04/2021	Clayey Silt		7a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH175 0-0.1	BH175	0-0.1	8/04/2021	Clayey Silt		7a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH177 0.4-0.5	BH177	0.4-0.5	8/04/2021	Clay		7a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH206-0.4-0.5	BH206	0.4-0.5	12/04/2021	Clay		2a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH207-0.4-0.5	BH207	0.4-0.5	12/04/2021	Clay		2a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.2	-	-	-
BH209-0-0.1	BH209	0-0.1	12/04/2021	Fill (Reworked Natural)		2a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH210-0-0.1	BH210	0-0.1	12/04/2021	Fill (Reworked Natural)		2a	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.2	<0.2	-
BH217-0-0.1	BH217	0-0.1	12/04/2021	Fill (Reworked Natural)		2a	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
BH218-0-0.2	BH218	0-0.2	12/04/2021	Fill (Reworked Natural)		2a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH228-0-0.1	BH228	0-0.1	12/04/2021	Fill (Reworked Natural)		2b	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.3	4.4	-
BH229-0-0.1	BH229	0-0.1	12/04/2021	Fill (Reworked Natural)		2b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH230-0-0.1	BH230	0-0.1	12/04/2021	Fill (Reworked Natural)		2b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH239_0.0-0.1	BH239	0-0.1	13/04/2021	Fill (Reworked Natural)		2b	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
BH239_0.4-0.5	BH239	0.4-0.5	13/04/2021	Clay		2b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH240_0.0-0.1	BH240	0-0.1	13/04/2021	Fill (Reworked Natural)		2b	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
BH241_0.0-0.1	BH241	0-0.1	13/04/2021	Fill (Reworked Natural)		2b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH242_0.0-0.1	BH242	0-0.1	13/04/2021	Fill (Reworked Natural)		2b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH244 0.2-0.3	BH244	0.2-0.3	15/04/2021	Clay		2b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH244 0-0.1	BH244	0-0.1	15/04/2021	Fill (Reworked Natural)		2b	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
BH248 0-0.1	BH248	0-0.1	15/04/2021	Fill (Reworked Natural)		6b	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.2	<0.2	-
BH249 0-0.2	BH249	0-0.2	15/04/2021	Fill (Reworked Natural)		6b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH250 0-0.2	BH250	0-0.2	15/04/2021	Fill (Reworked Natural)		6b	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
BH251 0-0.1	BH251	0-0.1	15/04/2021	Fill (Reworked Natural)		3a	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
BH252 0-0.1	BH252	0-0.1	15/04/2021	Fill (Reworked Natural)		3a	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
BH253 0-0.1	BH253	0-0.1	15/04/2021	Fill		4c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH254 0-0.1	BH254	0-0.1	15/04/2021	Fill		3a/4c	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	<0.2	<0.2	-
BH255 0-0.1	BH255	0-0.1	15/04/2021	Fill		4c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH256 0-0.1	BH256	0-0.1	15/04/2021	Fill		3a/4c	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	<0.2	<0.2	-
BH257 0-0.1	BH257	0-0.1	15/04/2021	Fill		3a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH267-0-0.1	BH267	0-0.1	12/04/2021	Fill (Reworked Natural)		2b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH268-0-0.1	BH268	0-0.1	12/04/2021	Fill (Reworked Natural)		2b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH269-0.4-0.5	BH269	0.4-0.5	12/04/2021	Clay		2b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH270-0-0.1	BH270	0-0.1	12/04/2021	Fill (Reworked Natural)		2b	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.2	<0.2	-
BH271 0-0.1	BH271	0-0.1	14/04/2021	Fill (Reworked Natural)		4b	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.2	<0.2	-
BH272 0.4-0.5	BH272	0.4-0.5	14/04/2021	Clay		4b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH272 0-0.1	BH272	0-0.1	14/04/2021	Fill (Reworked Natural)		4b	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.2	<0.2	-
BH273 0.4-0.5	BH273	0.4-0.5	9/04/2021	Clay		2b	-	-	-	-	-	-	-	-	-	-	-	-	56	70	5.7	-	-	37
BH273 0-0.2	BH273	0-0.2	9/04/2021	Fill (Reworked Natural)		2b	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	<0.2	<0.2	-
BH274 0-0.2	BH274	0-0.2	9/04/2021	Fill (Reworked Natural)		2b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH275 0-0.2	BH275	0-0.2	9/04/2021	Fill (Reworked Natural)		2b	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
BH276 0.4-0.5	BH276	0.4-0.5	9/04/2021	Clay		2b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH277_0.0-0.1	BH277	0-0.1	13/04/2021	Fill (Reworked Natural)		2b	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	<0.2	<0.2	-
BH277_0.4-0.5	BH277	0.4-0.5	13/04/2021	Clay		2b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH278_0.0-0.1	BH278	0-0.1	13/04/2021	Fill (Reworked Natural)		2b	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
BH278_0.4-0.5	BH278	0.4-0.5	13/04/2021	Clay		2b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH279_0.0-0.1	BH279	0-0.1	13/04/2021	Fill (Reworked Natural)		2b	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
BH279_0.4-0.5	BH279	0.4-0.5	13/04/2021	Clay		2b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH280_0.0-0.1	BH280	0-0.1	13/04/2021	Fill (Reworked Natural)		2b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH281 0.1-0.2	BH281	0.1-0.2	15/04/2021	Clay		2b	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.2	<0.2	-
BH282 0.2-0.3	BH282	0.2-0.3	15/04/2021	Clay		2b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH282 0-0.1	BH282	0-0.1	15/04/2021	Fill (Reworked Natural)		2b	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	<0.2	<0.2	-
BH283 0.2-0.3	BH283	0.2-0.3	15/04/2021	Fill		2b	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.2	<0.2	-
BH284 0.2-0.3	BH284	0.2-0.3	14/04/2021	Fill		2b	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.2	<0.2	-
BH285 0.2-0.3	BH285	0.2-0.3	14/04/2021	Fill		2b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH286 0.3-0.4	BH286	0.3-0.4	15/04/2021	Fill		2b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH288 0.1-0.2	BH288	0.1-0.2	15/04/2021	Fill (Reworked Natural)		2b	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.2	<0.2	-
BH289_0.0-0.1	BH289	0-0.1	13/04/2021	Fill (Reworked Natural)		2b	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
BH290_0.0-0.1	BH290	0-0.1	13/04/2021	Fill (Reworked Natural)		2b	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.2	<0.2	-
BH291_0.0-0.1	BH291	0-0.1	13/04/2021	Fill (Reworked Natural)		2b	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.2	<0.2	-
BH291_0.4-0.5	BH291	0.4-0.5	13/04/2021	Clay		2b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH292_0.0-0.1	BH292	0-0.1	13/04/2021	Fill (Reworked Natural)		2b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH292_0.4-0.5	BH292	0.4-0.5	13/04/2021	Clay		2b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH293 0.6-0.7	BH293	0.6-0.7	9/04/2021	Clay		2b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH294 0-0.1	BH294	0-0.1	14/04/2021	Fill (Reworked Natural)		2b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH295 0-0.1	BH295	0-0.1	14/04/2021	Fill (Reworked Natural)		2b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH296 0-0.1	BH296	0-0.1	14/04/2021	Fill (Reworked Natural)		2b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH297 0.4-0.5	BH297	0.4-0.5	12/04/2021	Clay		2b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH298 0-0.1	BH298	0-0.1	12/04/2021	Fill (Reworked Natural)		2b	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	<0.2	<0.2	-
BH300-0-0.1	BH300	0-0.1	12/04/2021	Fill (Reworked Natural)		2b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH307 0-0.15	BH307	0-0.15	15/04/2021	Fill (Reworked Natural)		4d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH308 0.4-0.5	BH308	0.4-0.5	15/04/2021	Clay		5a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH308 0-0.1	BH308	0-0.1	14/04/2021	Fill (Reworked Natural)		5a	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.2	<0.2	-
BH311 0.2-0.5	BH311	0.2-0.5	15/04/2021	Clay		4d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH313 0-0.1	BH313	0-0.1	15/04/2021	Clayey Silt		4e	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH314 0-0.1	BH314	0-0.1	15/04/2021	Clayey Silt		4e	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH315 0-0.1	BH315	0-0.1	15/04/2021	Clayey Silt		4e	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH316 0-0.2	BH316	0-0.2	15/04/2021	Fill (Reworked Natural)		4e	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH317 0-0.2	BH317	0-0.2	15/04/2021	Fill (Reworked Natural)		4e	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH318 0-0.2	BH318	0-0.2	15/04/2021	Clayey Silt		4e	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.2	<0.2	-
BH321 0-0.1	BH321	0-0.1	15/04/2021	Fill		4e	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH322 0.4-0.5	BH322	0.4-0.5	15/04/2021	Clay		4e	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH323 0.4-0.5	BH323	0.4-0.5	15/04/2021	Clay		4e	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH323 0-0.1	BH323	0-0.1	15/04/2021	Fill (Reworked Natural)		4e	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH324 0-0.2	BH324	0-0.2	15/04/2021	Fill (Reworked Natural)		4e	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH326 0-0.1	BH326	0-0.1	15/04/2021	Clayey Silt		4e	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH327 0-0.1	BH327	0-0.1	15/04/2021	Clayey Silt		4e	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH328 0-0.1	BH328	0-0.1	15/04/2021	Fill		4e	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.2	<0.2	-
BH329 0.5-0.6	BH329	0.5-0.6	15/04/2021	Clay		4e	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH329 0-0.1	BH329	0-0.1	15/04/2021	Fill		4e	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table A - Soil
Project Number: 66105
Project Name: Aldington Road

	Chlorinated Benzenes	Herbicides & Fungicides											Ionic Balance			PA VIC - IWRG62		Particle Size
	Hexachlorobenzene	2,4,5-TP (Silvex)	2,4,5-Trichlorophenoxy Acetic Acid	2,4-Dichloroprop	2-Methyl-4-Chlorophenoxy Butanoic Acid	2-Methyl-4-chlorophenoxyacetic acid	4-(2,4-Dichlorophenoxy)butyric Acid (2,4-DB)	Dicamba	Dinoseb	Hedonal	Mecoprop	CEC	Conductivity (1:5 aqueous extract)	pH (Aqueous extract)	Organochlorine Pesticides EPAVic	Other Organochlorine Pesticides EPAVic	% Clay*
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	MEQ/100G	US/CM	pH Units	mg/kg	mg/kg	%
EQL	0.05	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.05	10	0.1	0.1	0.1	1
NSW 2014 General Solid Waste CT1 (No Leaching)										200							
NSW 2014 General Solid Waste SCC1 (with leached)										360							

Field ID	Location	Sample Depth Range	Sampled Date Time	Matrix Description	Monitoring Round	Monitoring Zone																
BH330 0-0.2	BH330	0-0.2	15/04/2021	Fill		4e	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH331 0-0.1	BH331	0-0.1	8/04/2021	Fill (Reworked Natural)		7a	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
BH334 0.4-0.5	BH334	0.4-0.5	8/04/2021	Clay		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH334 0-0.2	BH334	0-0.2	8/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH335 0.4-0.5	BH335	0.4-0.5	8/04/2021	Clay		2d	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.2	<0.2	-
BH335 0-0.2	BH335	0-0.2	8/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH336 0.4-0.5	BH336	0.4-0.5	8/04/2021	Clay		2d	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
BH338 0-0.1	BH338	0-0.1	8/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH339 0-0.1	BH339	0-0.1	7/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH340 0-0.2	BH340	0-0.2	7/04/2021	Fill (Reworked Natural)		2d	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
BH341 0-0.2	BH341	0-0.2	7/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH344 0-0.2	BH344	0-0.2	7/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH345 0-0.1	BH345	0-0.1	8/04/2021	Fill (Reworked Natural)		2d	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
BH346 0.4-0.5	BH346	0.4-0.5	8/04/2021	Clay		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH347 0-0.2	BH347	0-0.2	8/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH348 0.4-0.5	BH348	0.4-0.5	8/04/2021	Clay		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH348 0-0.2	BH348	0-0.2	8/04/2021	Fill (Reworked Natural)		2d	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
BH349 0-0.2	BH349	0-0.2	8/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH350 0.4-0.5	BH350	0.4-0.5	8/04/2021	Clay		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH350 0-0.2	BH350	0-0.2	8/04/2021	Fill (Reworked Natural)		2d	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.2	<0.2	-
BH351 0-0.2	BH351	0-0.2	8/04/2021	Fill (Reworked Natural)		2d	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.2	<0.2	-
BH352 0.3-0.4	BH352	0.3-0.4	8/04/2021	Clay		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH353 0-0.1	BH353	0-0.1	8/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH354 0.9-1	BH354	0.9-1	8/04/2021	Clay		2d	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
BH354 0-0.2	BH354	0-0.2	8/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH355 0.4-0.5	BH355	0.4-0.5	8/04/2021	Clay		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH355 0-0.2	BH355	0-0.2	8/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH360 0-0.1	BH360	0-0.1	7/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH361 0-0.1	BH361	0-0.1	8/04/2021	Fill (Reworked Natural)		2d	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
BH363 0-0.1	BH363	0-0.1	7/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH364 0-0.1	BH364	0-0.1	7/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH365 0-0.2	BH365	0-0.2	7/04/2021	Fill (Reworked Natural)		6a	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
BH365 0-0.2	BH365	0-0.2	15/04/2021	Fill (Reworked Natural)		6a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH366 0.2-0.6	BH366	0.2-0.6	7/04/2021	Clay		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH367 0-0.1	BH367	0-0.1	7/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH369 0-0.1	BH369	0-0.1	8/04/2021	Fill (Reworked Natural)		2d	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.2	<0.2	-
BH369 0-0.5	BH369	0-0.5	7/04/2021	Fill (Reworked Natural)		2d	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
BH371 0-0.1	BH371	0-0.1	7/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH372 0-0.1	BH372	0-0.1	8/04/2021	Fill (Reworked Natural)		2d	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
BH373 0.3-0.4	BH373	0.3-0.4	8/04/2021	Clay		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH373 0-0.1	BH373	0-0.1	8/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH375 0-0.1	BH375	0-0.1	8/04/2021	Fill (Reworked Natural)		3b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH377 0-0.1	BH377	0-0.1	8/04/2021	Fill (Reworked Natural)		2d	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
BH379 0-0.1	BH379	0-0.1	8/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH384 0-0.1	BH384	0-0.1	7/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH385 0-0.1	BH385	0-0.1	7/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH386 0.5-0.6	BH386	0.5-0.6	8/04/2021	Clay		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH387 0-0.1	BH387	0-0.1	7/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH388 0-0.1	BH388	0-0.1	7/04/2021	Fill (Reworked Natural)		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH389 0-0.1	BH389	0-0.1	7/04/2021	Fill (Reworked Natural)		2d	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.2	<0.2	-
BH392_0-0-0.1	BH392	0-0.1	13/04/2021	Fill		5a	-	-	-	-	-	-	-	-	<20	-	-	-	-	-	-	-	-
BH393_0-0-0.1	BH393	0-0.1	13/04/2021	Fill		5a	-	-	-	-	-	-	-	-	<20	-	-	-	-	-	-	-	-
BH394_0-0-0.1	BH394	0-0.1	13/04/2021	Clayey Silt		5a	-	-	-	-	-	-	-	-	<20	-	-	-	-	-	-	-	-
BH399 0-0.1	BH399	0-0.1	14/04/2021	Fill (Reworked Natural)		4b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH406 0.15-0.3	BH406	0.15-0.3	15/04/2021	Clayey Silt		1a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH407 0-0.1	BH407	0-0.1	15/04/2021	Fill		1a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH408 0-0.1	BH408	0-0.1	15/04/2021	Fill		1a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH409 0-0.15	BH409	0-0.15	15/04/2021	Fill		1a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH410 0.2-0.5	BH410	0.2-0.5	15/04/2021	Clayey Silt		1a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH410 0-0.2	BH410	0-0.2	15/04/2021	Fill		1a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH411 0-0.2	BH411	0-0.2	15/04/2021	Clayey Silt		1a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH412 0-0.1	BH412	0-0.1	14/04/2021	Fill		1b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH412 0-0.4	BH412	0-0.4	14/04/2021	Fill		1b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH413 0-1	BH413	0-1	14/04/2021	Fill		1b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH414 0-0.1	BH414	0-0.1	14/04/2021	Fill		1b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH414 0-0.2	BH414	0-0.2	14/04/2021	Fill		1b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH415 0-0.2	BH415	0-0.2	14/04/2021	Fill		1b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH416 0-0.1	BH416	0-0.1	14/04/2021	Fill		1b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH416 0-0.2	BH416	0-0.2	14/04/2021	Fill		1b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH417 0-0.1	BH417	0-0.1	14/04/2021	Fill		1b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH417 0-0.2	BH417	0-0.2	14/04/2021	Fill		1b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH418 0-0.1	BH418	0-0.1	15/04/2021	Fill		1b	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	0.22	<0.2	-
BH418 0-0.3	BH418	0-0.3	15/04/2021	Fill		1b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH419 0-0.15	BH419	0-0.15	15/04/2021	Fill		1b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH420 0-0.1	BH420	0-0.1	15/04/2021	Fill		1b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH421 0-0.1	BH421	0-0.1	15/04/2021	Fill		1b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH422-0-0.1	BH422	0-0.1	12/04/2021	Fill (Reworked Natural)		1c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH423-0-0.1	BH423	0-0.1	12/04/2021	Fill (Reworked Natural)		1c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH424-0-0.1	BH424	0-0.1	12/04/2021	Fill (Reworked Natural)		1c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH425-0-0.2	BH425	0-0.2	12/04/2021	Fill (Reworked Natural)		1c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH426-0-0.1	BH426	0-0.1	12/04/2021	Fill (Reworked Natural)		1c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH427-0.3-0.4	BH427	0.3-0.4	12/04/2021	Clay		1c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH427-0-0.2	BH427	0-0.2	12/04/2021	Fill (Reworked Natural)		1c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH428-0.3-0.4	BH428	0.3-0.4	12/04/2021	Clay		1c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH428-0-0.15	BH428	0-0.15	12/04/2021	Fill (Reworked Natural)		1c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH429-0-0.2	BH429	0-0.2	12/04/2021	Fill (Reworked Natural)		1c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH430 0-0.2	BH430	0-0.2	12/04/2021	Fill (Reworked Natural)		1c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH431 0-0.2	BH431	0-0.2	12/04/2021	Fill (Reworked Natural)		1c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH432 0.5-0.6	BH432	0.5-0.6	15/04/2021	Fill (Reworked Natural)		1d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH432 0-0.3	BH432	0-0.3	15/04/2021	Fill		1d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH434_0-0-0.15	BH434	0-0.15	9/04/2021	Fill (Reworked Natural)		1e/4f	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH435_0-0-0.1	BH435	0-0.1	9/04/2021	Fill (Reworked Natural)		1e/4f	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH436_0-0-0.15	BH436	0-0.15	9/04/2021	Fill (Reworked Natural)		1e/4f	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH437_0-0-0.2	BH437	0-0.2	9/04/2021	Fill (Reworked Natural)		1e/4f	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH437_0.3-0.4	BH437	0.3-0.4	9/04/2021	Clay		1e/4f	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH438_0-0-0.2	BH438	0-0.2	9/04/2021	Fill (Reworked Natural)		1e/4f	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH439_0-0-0.15	BH439	0-0.15	9/04/2021	Fill (Reworked Natural)		1e/4f	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH440_0-0-0.2	BH440	0-0.2	9/04/2021	Fill (Reworked Natural)		1e/4f	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH440_0.4-0.5	BH440	0.4-0.5	9/04/2021	Clay		1e/4f	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH441_0-0-0.2	BH441	0-0.2	9/04/2021	Fill (Reworked Natural)		1e/4f	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH442_0-0-0.1	BH442	0-0.1	9/04/2021	Fill (Reworked Natural)		1e/4f	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.2	<0.2	-
BH443_0-0-0.3	BH443	0-0.3	9/04/2021	Fill (Reworked Natural)		1e/4f	-	-	-	-	-	-	-	-	<20	-	-	-	-	-	-	-	-
BH444_0-0-0.3	BH444	0-0.3	9/04/2021	Fill (Reworked Natural)			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH445_0.4-0.6	BH445	0.4-0.6	9/04/2021	Clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table A - Soil
Project Number: 66105
Project Name: Aldington Road

		Chlorinated Benzenes	Herbicides & Fungicides										Ionic Balance			PA VIC - IWRG62		Particle Size
		Hexachlorobenzene	2,4,5-TP (Silvex)	2,4,5-Trichlorophenoxy Acetic Acid	2,4,5-Trichlorophenoxy Butanoic Acid	2,4-Dichloroprop	2-Methyl-4-Chlorophenoxy Butanoic Acid	2-Methyl-4-chlorophenoxyacetic acid	4-(2,4-Dichlorophenoxy)butyric Acid (2,4-DB)	Dicamba	Dinoseb	Hedonal	Mecoprop	CEC	Conductivity (1:5 aqueous extract)	pH (Aqueous extract)	Organochlorine Pesticides EPAVic	Other Organochlorine Pesticides EPAVic	% Clay*
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	MEQ/100G	US/CM	pH Units	mg/kg	mg/kg	%
EQL		0.05	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.05	10	0.1	0.1	0.1	1
NSW 2014 General Solid Waste CT1 (No Leaching)												200							
NSW 2014 General Solid Waste SCC1 (with leached)												360							
Field ID	**Location**	**Sample Depth Range**	**Sampled Date Time**	**Matrix Description**	**Monitoring Round**	**Monitoring Zone**													
BH446_0.0-0.2	BH446	0-0.2	9/04/2021	Fill (Reworked Natural)		1e/4f	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH447_0.0-0.15	BH447	0-0.15	9/04/2021	Fill (Reworked Natural)		1e/4f	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA10-Soil			14/04/2021				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA12-Soil			15/03/2021				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC01-SOIL	TP216		12/04/2021			2a/7b	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.2	<0.2	-
QC02-SOIL	BH298		12/04/2021			2b	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	<0.2	<0.2	-
QC03-SOIL	BH203		12/04/2021			4a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC04-SOIL	BH431		12/04/2021			1c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC05_SOIL	TP147		13/04/2021			7a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC06_SOIL	TP309		13/04/2021			5a	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
QC07_SOIL	TP395		13/04/2021			6c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC08_SOIL	TP260		13/04/2021			3a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC09 - SOIL	BH354		15/04/2021			2d	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	<0.2	<0.2	-
QC10 - SOIL	BH415		15/04/2021			1b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC11 - SOIL	BH421		15/04/2021			1b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC12 - SOIL	BH329		15/04/2021			4e	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP101 0-0.1	TP101	0-0.1	12/04/2021	Clayey Silt		7a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP102 0-0.1	TP102	0-0.1	12/04/2021	Clayey Silt		7a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP104 0-0.1	TP104	0-0.1	12/04/2021	Clayey Silt		7a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP106 0-0.1	TP106	0-0.1	12/04/2021	Clayey Silt		7a	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.2	<0.2	-
TP107 0-0.1	TP107	0-0.1	12/04/2021	Clayey Silt		7a	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
TP108 0.2-0.3	TP108	0.2-0.3	12/04/2021	Clay		7a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP112 0-0.1	TP112	0-0.1	12/04/2021	Clayey Silt		7a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP114 0-0.1	TP114	0-0.1	12/04/2021	Clayey Silt		7a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP115 0-0.1	TP115	0-0.1	12/04/2021	Clayey Silt		7a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP116 0-0.1	TP116	0-0.1	12/04/2021	Clayey Silt		7a	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	<0.2	<0.2	-
TP117 0-0.1	TP117	0-0.1	12/04/2021	Clayey Silt		7a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP118 0-0.1	TP118	0-0.1	12/04/2021	Clayey Silt		7a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP119 0-0.1	TP119	0-0.1	12/04/2021	Clayey Silt		7a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP120 0-0.1	TP120	0-0.1	12/04/2021	Clayey Silt		7a	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
TP124_0.0-0.1	TP124	0-0.1	13/04/2021	Clayey Silt		7a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP126_0.0-0.1	TP126	0-0.1	13/04/2021	Clayey Silt		7a	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
TP127 0.0-0.1	TP127	0-0.1	13/04/2021	Clayey Silt		7b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP128_0.0-0.1	TP128	0-0.1	13/04/2021	Clayey Silt		7b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP129_0.0-0.1	TP129	0-0.1	13/04/2021	Clayey Silt		7a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP129_0.2-0.3	TP129	0.2-0.3	13/04/2021	Clay		7a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP130_0.0-0.1	TP130	0-0.1	13/04/2021	Clayey Silt		7a	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
TP131_0.0-0.1	TP131	0-0.1	13/04/2021	Clayey Silt		7a	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	<0.2	<0.2	-
TP132 0-0.1	TP132	0-0.1	12/04/2021	Clayey Silt		7a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP133 0-0.1	TP133	0-0.1	12/04/2021	Clayey Silt		7a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP135 0-0.1	TP135	0-0.1	12/04/2021	Clayey Silt		7b	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP136 0-0.1	TP136	0-0.1	12/04/2021	Clayey Silt		7a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP137 0-0.1	TP137	0-0.1	12/04/2021	Clayey Silt		7a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP138_0.0-0.1	TP138	0-0.1	13/04/2021	Clayey Silt		7a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP139_0.0-0.1	TP139	0-0.1	13/04/2021	Clayey Silt		7a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP140_0.0-0.1	TP140	0-0.1	13/04/2021	Clayey Silt		7a	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
TP141_0.3-0.4	TP141	0.3-0.4	13/04/2021	Clay		7a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP142_0.0-0.1	TP142	0-0.1	13/04/2021	Clayey Silt		7a	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.2	<0.2	-
TP142_0.2-0.3	TP142	0.2-0.3	13/04/2021	Clay		7a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP143 0.0-0.1	TP143	0-0.1	13/04/2021	Clayey Silt		7a	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
TP144_0.0-0.1	TP144	0-0.1	13/04/2021	Clayey Silt		7a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP145_0.0-0.1	TP145	0-0.1	13/04/2021	Clayey Silt		7a	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	<0.2	<0.2	-
TP146_0.0-0.1	TP146	0-0.1	13/04/2021	Clayey Silt		7a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP147 0.0-0.1	TP147	0-0.1	13/04/2021	Clayey Silt		7a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP149_0.0-0.1	TP149	0-0.1	13/04/2021	Clayey Silt		7a	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
TP150_0.0-0.1	TP150	0-0.1	13/04/2021	Clayey Silt		7a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP150_0.2-0.3	TP150	0.2-0.3	13/04/2021	Clay		7a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP151_0.0-0.1	TP151	0-0.1	13/04/2021	Clayey Silt		7a	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.2	<0.2	-
TP152_0.0-0.1	TP152	0-0.1	13/04/2021	Clayey Silt		7a	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
TP152_0.3-0.4	TP152	0.3-0.4	13/04/2021	Clay		7a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP153_0.0-0.1	TP153	0-0.1	13/04/2021	Clayey Silt		7a	-	-	-	-	-	-	-	-	-	<20	-	-	-	-	-	-	-	-
TP154_0.0-0.1	TP154	0-0.1	13/04/2021	Clayey Silt		7a	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.2	<0.2	-
TP156 0-0.1	TP156	0-0.1	12/04/2021	Clayey Silt		7a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP157 0-0.1	TP157	0-0.1	12/04/2021	Clayey Silt		7a	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
TP201 0.5-0.6	TP201	0.5-0.6	9/04/2021	Clay		4a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP201 0-0.2	TP201	0-0.2	9/04/2021	Fill (Reworked Natural)		4a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP201 0-0.2AQ	TP201	0-0.2	9/04/2021	Fill (Reworked Natural)		4a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP204 0-0.1	TP204	0-0.1	9/04/2021	Fill		4a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP205 0-0.2	TP205	0-0.2	1/04/2021	Fill		4a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP211 0-0.1	TP211	0-0.1	9/04/2021	Fill (Reworked Natural)		2a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP212 0.5-0.6	TP212	0.5-0.6	1/04/2021	Fill		2a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP212 2.6-2.9	TP212	2.6-2.9	1/04/2021	Clay		2a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP215-1.7-1.8	TP215	1.7-1.8	9/04/2021	Clay		2a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP216 0.4-0.5	TP216	0.4-0.5	12/04/2021	Fill (Reworked Natural)		2a/7b	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.2	<0.2	-
TP220 0-0.1	TP220	0-0.1	7/04/2021	Fill (Reworked Natural)		2a	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
TP222 0.4-0.5	TP222	0.4-0.5	7/04/2021	Clay		2a	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
TP223 0-0.1	TP223	0-0.1	12/04/2021	Fill (Reworked Natural)		2a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP224 0-0.1	TP224	0-0.1	12/04/2021	Fill (Reworked Natural)		2a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP227 0.4-0.5	TP227	0.4-0.5	7/04/2021	Clay		2a	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
TP235_0.0-0.05	TP235	0-0.05	13/04/2021	Fill		3a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP236_0.0-0.1	TP236	0-0.1	13/04/2021	Fill (Reworked Natural)		3a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP260_0.0-0.1	TP260	0-0.1	13/04/2021	Fill		3a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP260_0.2-0.3	TP260	0.2-0.3	13/04/2021	Fill		3a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP309_0.0-0.2	TP309	0-0.2	13/04/2021	Fill (Reworked Natural)		5a	-	-	-	-	-	-	-	-	-	<20	-	-	-	-	-	-	-	-
TP310_0.0-0.2	TP310	0-0.2	13/04/2021	Fill (Reworked Natural)		4d	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.2	<0.2	-
TP331_0.0-0.1	TP331	0-0.1	13/04/2021	Clayey Silt		2d	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP390_0.0-0.1	TP390	0-0.1	13/04/2021	Fill		7a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP391_0.0-0.1	TP391	0-0.1	13/04/2021	Fill		6c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP391_0.5-0.6	TP391	0.5-0.6	13/04/2021	Fill (Reworked Natural)		6c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP395_0.0-0.1	TP395	0-0.1	13/04/2021	Fill		6c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP395_0.3-0.4	TP395	0.3-0.4	13/04/2021	Fill		6c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP396_0.0-0.1	TP396	0-0.1	13/04/2021	Fill (Reworked Natural)		6c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP396_0.4-0.5	TP396	0.4-0.5	13/04/2021	Clay		6c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP397_0.0-0.1	TP397	0-0.1	13/04/2021	Fill		6c	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.2	<0.2	-
TP397_0.3-0.4	TP397	0.3-0.4	13/04/2021	Fill		6c	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.2	<0.2	-
TP398_0.0-0.2	TP398	0-0.2	13/04/2021	Fill		6c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP398_0.3-0.4			13/04/2021	Clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP400 0-0.3	TP400	0-0.3	9/04/2021	Clayey Silt		1a	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.2	<0.2	-
TP401 0-0.3	TP401	0-0.3	9/04/2021	Clayey Silt		1a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP402 0-0.3	TP402	0-0.3	9/04/2021	Clayey Silt		1a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP403 0-0.3	TP403	0-0.3	9/04/2021	Fill		1a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP404 0-0.4	TP404	0-0.4	9/04/2021	Fill		1a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP405 0-0.4	TP405	0-0.4	9/04/2021	Fill		1a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP445 1-1.8	TP445	1-1.8	8/04/2021	Clay		1e/4f	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table A - Soil
Project Number: 66105
Project Name: Aldington Road

	Chlorinated Benzenes	Herbicides & Fungicides											Ionic Balance			PA VIC - IWRG62		Particle Size
	Hexachlorobenzene	2,4,5-TP (Silvex)	2,4,5-Trichlorophenoxy Acetic Acid	2,4,5-Trichlorophenoxy Acetic Acid	2-Methyl-4-Chlorophenoxy Butanoic Acid	2-Methyl-4-chlorophenoxyacetic acid	4-(2,4-Dichlorophenoxy)Butyric Acid (2,4-DB)	Dicamba	Dinoseb	Hedonal	Mecoprop	CEC	Conductivity (1:5 aqueous extract)	pH (Aqueous extract)	Organochlorine Pesticides EPAVic	Other Organochlorine Pesticides EPAVic	% Clay*
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	MEQ/100G	US/CM	pH Units	mg/kg	mg/kg	%
EQL	0.05	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.05	10	0.1	0.1	0.1	1
NSW 2014 General Solid Waste CT1 (No Leaching)										200							
NSW 2014 General Solid Waste SCC1 (with leached)										360							

Field ID	Location	Sample Depth Range	Sampled Date Time	Matrix Description	Monitoring Round	Monitoring Zone															
TP448 0-0.3	TP448	0-0.3	9/04/2021	Fill (Reworked Natural)		1e/4f	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP449 0.3-0.9	TP449	0.3-0.9	8/04/2021	Fill		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP449 1.2-1.3	TP449	1.2-1.3	8/04/2021	Clay		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP450 2-2.5	TP450	2-2.5	8/04/2021	Fill		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP451 1-2	TP451	1-2	8/04/2021	Fill		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP452 1.1-1.2	TP452	1.1-1.2	8/04/2021	Fill		1f/3c	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
TP452 1-2	TP452	1-2	8/04/2021	Fill		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP452 2.4-2.5	TP452	2.4-2.5	8/04/2021	Clay		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP453 0-0.9	TP453	0-0.9	9/04/2021	Fill		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP454 0.7-1.2	TP454	0.7-1.2	8/04/2021	Fill		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP454 1.4-1.5	TP454	1.4-1.5	8/04/2021	Clay		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP456 0-0.1	TP456	0-0.1	8/04/2021	Fill		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP456 2.8-3	TP456	2.8-3	8/04/2021	Fill		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP457 2.5-2.6	TP457	2.5-2.6	8/04/2021	Clay		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP457 2-2.5	TP457	2-2.5	8/04/2021	Fill		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP458 0-0.9	TP458	0-0.9	9/04/2021	Fill		1e/4f	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP459 1.4-2.4	TP459	1.4-2.4	8/04/2021	Fill		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP460 2-2.6	TP460	2-2.6	8/04/2021	Fill		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP461 1-2	TP461	1-2	8/04/2021	Fill		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP461 2.4-2.5	TP461	2.4-2.5	8/04/2021	Clay		1f/3c	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
TP462 2-3	TP462	2-3	9/04/2021	Fill		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP463 0.8-1.8	TP463	0.8-1.8	9/04/2021	Fill		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP463 1.8-2.8	TP463		9/04/2021	Fill		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP463 2.8-3.8	TP463	2.8-3.8	9/04/2021	Fill		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP463 4.3-4.4	TP463	4.3-4.4	9/04/2021	Clay		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP464 1.6-2.3	TP464	1.6-2.3	9/04/2021	Fill		1f/3c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Env Stds Comments
#1:Trigger value adopted from Chromium VI
#2:Approximate range of petroleum hydrocarbon fractions: petrol C6–C9, kerosene C10–C18, diesel C12–C18, and lubricating oils above C18. Refer to NSW W
#3:There may be a need for the laboratory to concentrate the sample to achieve the TCLP limit value for benzo(a)pyrene with confidence. Refer to NSW Waste
#4:Polychlorinated biphenyls must be managed in accordance with the EPA's polychlorinated biphenyl (PCB) chemical control order 1997. Refer to NSW Waste
#5:Refer to NSW Waste Criteria Nov 2014 p.17 footnote 13
#6:Calculated from Hazardous Waste: Identification and Listing (USEPA 2012a). Refer to NSW Waste Criteria Nov 2014 p.16 footnote 3, 4
#7:Refer to NSW Waste Criteria Nov 2014 p.17 footnote 12, EPA Chemical Control Order 1997, clause 4.13

Data Comments
#1 AF:Chrysotile asbestos detected in compressed fibre cement fragment.Approximate raw weight of AF = 0.00030g*Estimated asbestos content in AF = 0.00
#2 ACM:Chrysotile asbestos detected in fibre cement fragments.Approximate raw weight of ACM = 4.8gTotal estimated asbestos content in ACM = 0.24g*Tot
#3 AF:Chrysotile asbestos detected in compressed fibre cement fragment.No asbestos detected at the reporting limit of 0.001% w/w.*
#4 No asbestos detected at the reporting limit of 0.001% w/w.*Organic fibre detected.No trace asbestos detected.
#5 No asbestos detected at the reporting limit of 0.001% w/w.Organic fibre detected.No trace asbestos detected.
#6 No asbestos detected at the reporting limit of 0.01% w/w.Organic fibre detected.No trace asbestos detected.
#7 ACM:Chrysotile asbestos detected in fibre cement fragments.
#8 No respirable fibres detected.
#9 Chrysotile asbestos detected.
#10 Organic fibres detected.
#11 60x40x5
#12 Nil

Table A - Soil
Project Number: 66105
Project Name: Aldington Road

| | | |

Table A - Soil
Project Number: 66105
Project Name: Aldington Road

| | | |

Table A - Soil
Project Number: 66105
Project Name: Aldington Road

| | | |

Table A - Soil
Project Number: 66105
Project Name: Aldington Road

| | | |

Table B - Asbestos
Project Number: 66105
Project Name: Aldington Road

| | | |

Attachment 4 - Laboratory Analysis Report and COCs

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 60482

PROJECT NAME: Kemps Creek DSI

DATE NEEDED BY: Standard TAT

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

LABORATORY BATCH NO.: #786563

SAMPLERS:

QC LEVEL: NEPM (2013)

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....rlill@jbsg.com.au; (3) .....cdagger@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs (low level)	EC, pH, alkalinity, Hardenss	Ammonia	Nitrite/Nitrate	pH/TSS	BTEX	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
	~~Soil~~															
Dam01_21	Water	7/4/21		1xA, 2xV, 1xM, 1xRe.Inorg, 1xInorg		x	x	x	x	x	x	x				
Dam02_21	↓	↓		↓		↓	↓	↓	↓	↓	↓	↓				
Dam03_21	↓	↓		↓		↓	↓	↓	↓	↓	↓	↓				
Dam04_21	↓	↓		↓		↓	↓	↓	↓	↓	↓	↓				
Dam05_21	↓	↓		↓		↓	↓	↓	↓	↓	↓	↓				
Dam06_21	↓	↓		↓		↓	↓	↓	↓	↓	↓	↓				Amber for Inorg. please.
QC01_SW	↓	↓		↓		↓	↓	↓	↓	↓	↓	↓				
TS	↓			2xV									x			
TB	↓			↓									x			

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Ryan Lill DATE: 7/4/21	CONSIGNMENT NOTE NO. courier	NAME: MR DATE: 12/4/21 4:48PM	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	OF: Eurofins	COOLER TEMP 7.6 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

eurofins | Environment Testing

ABN: 50 005 085 521 www.eurofins.com.au EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
2/91 Leach Highway
Kewdale WA 6105
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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:	Ryan Lill
Project name:	KEMPS CREEK DSI
Project ID:	60482
Turnaround time:	5 Day
Date/Time received	Apr 12, 2021 4:48 PM
Eurofins reference	786563

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 Sample Receipt : 7.6 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.
✓	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 Ryan Lill - rlill@jbsg.com.au.

eurofins | Environment Testing

ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
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Dandenong South VIC 3175
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Site # 1254 & 14271

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Unit F3, Building F
16 Mars Road
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2/91 Leach Highway
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Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786563
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 4:48 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Ammonia (as N)	Conductivity (at 25°C)	Nitrate (as N)	Nitrite (as N)	pH (at 25 °C)	Total Suspended Solids Dried at 103–105°C	Alkalinity (speciated)	BTEX	Hardness Set	BTEX	Eurofins Suite B7 (PAH trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217																
Brisbane Laboratory - NATA Site # 20794																
Perth Laboratory - NATA Site # 23736																
Mayfield Laboratory																
External Laboratory																
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**											
1	DAM01_21	Apr 07, 2021		Water	S21-Ap16481	X	X	X	X	X	X	X		X		X
2	DAM02_21	Apr 07, 2021		Water	S21-Ap16482	X	X	X	X	X	X	X		X		X
3	DAM03_21	Apr 07, 2021		Water	S21-Ap16483	X	X	X	X	X	X	X		X		X
4	DAM04_21	Apr 07, 2021		Water	S21-Ap16484	X	X	X	X	X	X	X		X		X
5	DAM05_21	Apr 07, 2021		Water	S21-Ap16485	X	X	X	X	X	X	X		X		X
6	DAM06_21	Apr 07, 2021		Water	S21-Ap16486	X	X	X	X	X	X	X		X		X
7	QC01_SW	Apr 07, 2021		Water	S21-Ap16487	X	X	X	X	X	X	X		X		X
8	TS	Apr 07, 2021		Water	S21-Ap16488										X	
9	TB	Apr 07, 2021		Water	S21-Ap16489								X			

eurofins | Environment Testing

ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

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Melbourne
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IANZ # 1290

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786563
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 4:48 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail	Ammonia (as N)	Conductivity (at 25°C)	Nitrate (as N)	Nitrite (as N)	pH (at 25 °C)	Total Suspended Solids Dried at 103–105°C	Alkalinity (speciated)	BTEX	Hardness Set	BTEX	Eurofins Suite B7 (PAH trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217											
Brisbane Laboratory - NATA Site # 20794											
Perth Laboratory - NATA Site # 23736											
Mayfield Laboratory											
External Laboratory											
Test Counts	7	7	7	7	7	7	7	1	7	1	7

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

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 and proficiency testing scheme providers reports.

Attention: **Ryan Lill**

Report **786563-W**
Project name KEMPS CREEK DSI
Project ID 60482
Received Date Apr 12, 2021

Client Sample ID			**DAM01_21**	**DAM02_21**	**DAM03_21**	**DAM04_21**
Sample Matrix			**Water**	**Water**	**Water**	**Water**
Eurofins Sample No.			**S21-Ap16481**	**S21-Ap16482**	**S21-Ap16483**	**S21-Ap16484**
Date Sampled			**Apr 07, 2021**	**Apr 07, 2021**	**Apr 07, 2021**	**Apr 07, 2021**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
TRH C10-C14	0.05	mg/L	< 0.05	< 0.05	< 0.05	0.08
TRH C15-C28	0.1	mg/L	< 0.1	< 0.1	< 0.1	0.1
TRH C29-C36	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH C10-C36 (Total)	0.1	mg/L	< 0.1	< 0.1	< 0.1	0.18
BTEX						
Benzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Toluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
o-Xylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Xylenes - Total*	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
4-Bromofluorobenzene (surr.)	1	%	88	79	74	68
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
TRH C6-C10	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
TRH C6-C10 less BTEX (F1)[N04]	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
TRH >C10-C16	0.05	mg/L	< 0.05	< 0.05	< 0.05	0.07
TRH >C10-C16 less Naphthalene (F2)[N01]	0.05	mg/L	< 0.05	< 0.05	< 0.05	0.07
TRH >C16-C34	0.1	mg/L	< 0.1	< 0.1	< 0.1	0.1
TRH >C34-C40	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH >C10-C40 (total)*	0.1	mg/L	< 0.1	< 0.1	< 0.1	0.17
Polycyclic Aromatic Hydrocarbons (Trace level)						
Acenaphthene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Acenaphthylene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Anthracene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benz(a)anthracene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(a)pyrene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(b&j)fluoranthene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(g.h.i)perylene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(k)fluoranthene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Chrysene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Dibenz(a.h)anthracene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Fluoranthene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Fluorene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Client Sample ID			DAM01_21	DAM02_21	DAM03_21	DAM04_21
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S21-Ap16481	S21-Ap16482	S21-Ap16483	S21-Ap16484
Date Sampled			Apr 07, 2021	Apr 07, 2021	Apr 07, 2021	Apr 07, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons (Trace level)						
Indeno(1.2.3-cd)pyrene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Naphthalene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Phenanthrene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pyrene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Total PAH*	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
2-Fluorobiphenyl (surr.)	1	%	62	81	100	91
p-Terphenyl-d14 (surr.)	1	%	91	95	116	110
Ammonia (as N)	0.01	mg/L	0.07	0.06	0.20	0.31
Conductivity (at 25°C)	10	uS/cm	490	120	330	310
Nitrate (as N)	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
Nitrite (as N)	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
pH (at 25 °C)	0.1	pH Units	7.3	7.1	7.8	7.3
Total Suspended Solids Dried at 103–105°C	1	mg/L	120	3.1	2.8	14
Alkalinity (speciated)						
Bicarbonate Alkalinity (as CaCO3)	20	mg/L	120	33	66	54
Carbonate Alkalinity (as CaCO3)	10	mg/L	< 10	< 10	< 10	< 10
Hydroxide Alkalinity (as CaCO3)	20	mg/L	< 20	< 20	< 20	< 20
Total Alkalinity (as CaCO3)	20	mg/L	120	33	66	54
Heavy Metals						
Arsenic	0.001	mg/L	0.001	< 0.001	0.002	0.002
Cadmium	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Chromium	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Copper	0.001	mg/L	0.001	0.002	0.003	0.001
Lead	0.001	mg/L	< 0.001	0.002	< 0.001	< 0.001
Mercury	0.0001	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nickel	0.001	mg/L	0.001	0.001	0.001	< 0.001
Zinc	0.005	mg/L	0.011	0.010	< 0.005	< 0.005
Alkali Metals						
Calcium	0.5	mg/L	60	13	13	10.0
Magnesium	0.5	mg/L	24	3.9	9.3	7.5
Hardness Set						
Hardness mg equivalent CaCO3/L	5	mg/L	250	47	71	56

Client Sample ID			DAM05_21	DAM06_21	QC01_SW	TS
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S21-Ap16485	S21-Ap16486	S21-Ap16487	S21-Ap16488
Date Sampled			Apr 07, 2021	Apr 07, 2021	Apr 07, 2021	Apr 07, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	0.02	mg/L	< 0.02	< 0.02	< 0.02	-
TRH C10-C14	0.05	mg/L	< 0.05	0.06	0.08	-
TRH C15-C28	0.1	mg/L	< 0.1	0.1	0.2	-
TRH C29-C36	0.1	mg/L	< 0.1	< 0.1	< 0.1	-
TRH C10-C36 (Total)	0.1	mg/L	< 0.1	0.16	0.28	-

Client Sample ID			DAM05_21	DAM06_21	QC01_SW	TS
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S21-Ap16485	S21-Ap16486	S21-Ap16487	S21-Ap16488
Date Sampled			Apr 07, 2021	Apr 07, 2021	Apr 07, 2021	Apr 07, 2021
Test/Reference	LOR	Unit				
BTEX						
Benzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Toluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
m&p-Xylenes	0.002	mg/L	< 0.002	< 0.002	< 0.002	-
o-Xylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Xylenes - Total*	0.003	mg/L	< 0.003	< 0.003	< 0.003	-
4-Bromofluorobenzene (surr.)	1	%	87	84	84	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.01	mg/L	< 0.01	< 0.01	< 0.01	-
TRH C6-C10	0.02	mg/L	< 0.02	< 0.02	< 0.02	-
TRH C6-C10 less BTEX (F1)[N04]	0.02	mg/L	< 0.02	< 0.02	< 0.02	-
TRH >C10-C16	0.05	mg/L	< 0.05	0.06	0.09	-
TRH >C10-C16 less Naphthalene (F2)[N01]	0.05	mg/L	< 0.05	0.06	0.09	-
TRH >C16-C34	0.1	mg/L	< 0.1	0.1	0.2	-
TRH >C34-C40	0.1	mg/L	< 0.1	< 0.1	< 0.1	-
TRH >C10-C40 (total)*	0.1	mg/L	< 0.1	0.16	0.29	-
Polycyclic Aromatic Hydrocarbons (Trace level)						
Acenaphthene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	-
Acenaphthylene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	-
Anthracene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	-
Benz(a)anthracene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	-
Benzo(a)pyrene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	-
Benzo(b&j)fluoranthene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	-
Benzo(g.h.i)perylene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	-
Benzo(k)fluoranthene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	-
Chrysene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	-
Dibenz(a.h)anthracene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	-
Fluoranthene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	-
Fluorene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	-
Indeno(1.2.3-cd)pyrene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	-
Naphthalene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	-
Phenanthrene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	-
Pyrene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	-
Total PAH*	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	-
2-Fluorobiphenyl (surr.)	1	%	92	88	95	-
p-Terphenyl-d14 (surr.)	1	%	114	117	129	-
Ammonia (as N)	0.01	mg/L	0.19	0.21	0.22	-
Conductivity (at 25°C)	10	uS/cm	1600	410	350	-
Nitrate (as N)	0.02	mg/L	< 0.02	< 0.02	< 0.02	-
Nitrite (as N)	0.02	mg/L	< 0.02	< 0.02	< 0.02	-
pH (at 25 °C)	0.1	pH Units	8.1	7.5	7.4	-
Total Suspended Solids Dried at 103–105°C	1	mg/L	73	54	31	-
Alkalinity (speciated)						
Bicarbonate Alkalinity (as CaCO3)	20	mg/L	190	64	61	-
Carbonate Alkalinity (as CaCO3)	10	mg/L	< 10	< 10	< 10	-
Hydroxide Alkalinity (as CaCO3)	20	mg/L	< 20	< 20	< 20	-
Total Alkalinity (as CaCO3)	20	mg/L	190	64	61	-

Client Sample ID			DAM05_21	DAM06_21	QC01_SW	TS
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S21-Ap16485	S21-Ap16486	S21-Ap16487	S21-Ap16488
Date Sampled			Apr 07, 2021	Apr 07, 2021	Apr 07, 2021	Apr 07, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	0.001	mg/L	< 0.001	0.003	0.002	-
Cadmium	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	-
Chromium	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Copper	0.001	mg/L	< 0.001	0.012	0.011	-
Lead	0.001	mg/L	< 0.001	0.001	< 0.001	-
Mercury	0.0001	mg/L	< 0.0001	< 0.0001	< 0.0001	-
Nickel	0.001	mg/L	< 0.001	0.003	0.003	-
Zinc	0.005	mg/L	0.007	0.016	0.016	-
Alkali Metals						
Calcium	0.5	mg/L	22	16	15	-
Magnesium	0.5	mg/L	25	9.7	8.3	-
Hardness Set						
Hardness mg equivalent CaCO3/L	5	mg/L	160	80	71	-
BTEX						
Benzene	1	%	-	-	-	79
Ethylbenzene	1	%	-	-	-	70
m&p-Xylenes	1	%	-	-	-	71
o-Xylene	1	%	-	-	-	70
Toluene	1	%	-	-	-	81
Xylenes - Total	1	%	-	-	-	70
4-Bromofluorobenzene (surr.)	1	%	-	-	-	76

Client Sample ID			TB
Sample Matrix			Water
Eurofins Sample No.			S21-Ap16489
Date Sampled			Apr 07, 2021
Test/Reference	LOR	Unit	
BTEX			
Benzene	0.001	mg/L	< 0.001
Toluene	0.001	mg/L	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002
o-Xylene	0.001	mg/L	< 0.001
Xylenes - Total*	0.003	mg/L	< 0.003
4-Bromofluorobenzene (surr.)	1	%	91

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
Eurofins Suite B7 (PAH trace level)			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	Apr 14, 2021	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Melbourne	Apr 14, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Apr 14, 2021	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Apr 14, 2021	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons (Trace level)	Melbourne	Apr 19, 2021	7 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water (trace)			
Metals M8	Melbourne	Apr 15, 2021	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Ammonia (as N)	Melbourne	Apr 14, 2021	28 Days
- Method: APHA 4500-NH3 Ammonia Nitrogen by FIA			
Conductivity (at 25°C)	Melbourne	Apr 14, 2021	28 Days
- Method: LTM-INO-4030 Conductivity			
Nitrate (as N)	Melbourne	Apr 14, 2021	28 Days
- Method: LTM-INO-4120 Analysis of NOx NO2 NH3 by FIA			
Nitrite (as N)	Melbourne	Apr 14, 2021	2 Days
- Method: LTM-INO-4120 Analysis of NOx NO2 NH3 by FIA			
pH (at 25 °C)	Melbourne	Apr 14, 2021	0 Hours
- Method: LTM-GEN-7090 pH in water by ISE			
Total Suspended Solids Dried at 103–105°C	Melbourne	Apr 14, 2021	7 Days
- Method: LTM-INO-4070 Analysis of Suspended Solids in Water by Gravimetry			
Alkalinity (speciated)	Melbourne	Apr 14, 2021	14 Days
- Method: LTM-INO-4250 Alkalinity by Electrometric Titration			
Hardness Set			
Calcium	Melbourne	Apr 15, 2021	180 Days
- Method:			
Magnesium	Melbourne	Apr 15, 2021	180 Days
- Method:			
Hardness mg equivalent CaCO3/L	Melbourne	Apr 15, 2021	28 Days
- Method:			

eurofins | Environment Testing

ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
2/91 Leach Highway
Kewdale WA 6105
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786563
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 4:48 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Ammonia (as N)	Conductivity (at 25°C)	Nitrate (as N)	Nitrite (as N)	pH (at 25 °C)	Total Suspended Solids Dried at 103–105°C	Alkalinity (speciated)	BTEX	Hardness Set	BTEX	Eurofins Suite B7 (PAH trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217																
Brisbane Laboratory - NATA Site # 20794																
Perth Laboratory - NATA Site # 23736																
Mayfield Laboratory																
External Laboratory																
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**											
1	DAM01_21	Apr 07, 2021		Water	S21-Ap16481	X	X	X	X	X	X	X		X		X
2	DAM02_21	Apr 07, 2021		Water	S21-Ap16482	X	X	X	X	X	X	X		X		X
3	DAM03_21	Apr 07, 2021		Water	S21-Ap16483	X	X	X	X	X	X	X		X		X
4	DAM04_21	Apr 07, 2021		Water	S21-Ap16484	X	X	X	X	X	X	X		X		X
5	DAM05_21	Apr 07, 2021		Water	S21-Ap16485	X	X	X	X	X	X	X		X		X
6	DAM06_21	Apr 07, 2021		Water	S21-Ap16486	X	X	X	X	X	X	X		X		X
7	QC01_SW	Apr 07, 2021		Water	S21-Ap16487	X	X	X	X	X	X	X		X		X
8	TS	Apr 07, 2021		Water	S21-Ap16488										X	
9	TB	Apr 07, 2021		Water	S21-Ap16489								X			

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
2/91 Leach Highway
Kewdale WA 6105
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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

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Received: Apr 12, 2021 4:48 PM
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Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail	Ammonia (as N)	Conductivity (at 25°C)	Nitrate (as N)	Nitrite (as N)	pH (at 25 °C)	Total Suspended Solids Dried at 103–105°C	Alkalinity (speciated)	BTEX	Hardness Set	BTEX	Eurofins Suite B7 (PAH trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217											
Brisbane Laboratory - NATA Site # 20794											
Perth Laboratory - NATA Site # 23736											
Mayfield Laboratory											
External Laboratory											
Test Counts	7	7	7	7	7	7	7	1	7	1	7

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.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
ug/L: micrograms per litre
ppm: Parts per million
ppb: Parts per billion
%: Percentage
org/100mL: Organisms per 100 millilitres
NTU: Nephelometric Turbidity Units
MPN/100mL: Most Probable Number of organisms per 100 millilitres

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 and 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.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
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 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

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, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene 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 Aroclor 1260 in Matrix Spikes and LCS.
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 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 - 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	< 0.01			0.01	Pass	
TRH C6-C10	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 (Trace level)							
Acenaphthene	mg/L	< 0.00001			0.00001	Pass	
Acenaphthylene	mg/L	< 0.00001			0.00001	Pass	
Anthracene	mg/L	< 0.00001			0.00001	Pass	
Benz(a)anthracene	mg/L	< 0.00001			0.00001	Pass	
Benzo(a)pyrene	mg/L	< 0.00001			0.00001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.00001			0.00001	Pass	
Benzo(g.h.i)perylene	mg/L	< 0.00001			0.00001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.00001			0.00001	Pass	
Chrysene	mg/L	< 0.00001			0.00001	Pass	
Dibenz(a.h)anthracene	mg/L	< 0.00001			0.00001	Pass	
Fluoranthene	mg/L	< 0.00001			0.00001	Pass	
Fluorene	mg/L	< 0.00001			0.00001	Pass	
Indeno(1.2.3-cd)pyrene	mg/L	< 0.00001			0.00001	Pass	
Naphthalene	mg/L	< 0.00001			0.00001	Pass	
Phenanthrene	mg/L	< 0.00001			0.00001	Pass	
Pyrene	mg/L	< 0.00001			0.00001	Pass	
Method Blank							
Ammonia (as N)	mg/L	< 0.01			0.01	Pass	
Conductivity (at 25°C)	uS/cm	< 10			10	Pass	
Nitrate (as N)	mg/L	< 0.02			0.02	Pass	
Nitrite (as N)	mg/L	< 0.02			0.02	Pass	
Total Suspended Solids Dried at 103–105°C	mg/L	< 1			1	Pass	
Method Blank							
Alkalinity (speciated)							
Bicarbonate Alkalinity (as CaCO3)	mg/L	< 20			20	Pass	
Carbonate Alkalinity (as CaCO3)	mg/L	< 10			10	Pass	
Hydroxide Alkalinity (as CaCO3)	mg/L	< 20			20	Pass	
Total Alkalinity (as CaCO3)	mg/L	< 20			20	Pass	
Method Blank							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Heavy Metals							
Arsenic	mg/L	< 0.001			0.001	Pass	
Cadmium	mg/L	< 0.0002			0.0002	Pass	
Chromium	mg/L	< 0.001			0.001	Pass	
Copper	mg/L	< 0.001			0.001	Pass	
Lead	mg/L	< 0.001			0.001	Pass	
Mercury	mg/L	< 0.0001			0.0001	Pass	
Nickel	mg/L	< 0.001			0.001	Pass	
Zinc	mg/L	< 0.005			0.005	Pass	
Method Blank							
Alkali Metals							
Calcium	mg/L	< 0.5			0.5	Pass	
Magnesium	mg/L	< 0.5			0.5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	86			70-130	Pass	
TRH C10-C14	%	112			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	92			70-130	Pass	
Toluene	%	88			70-130	Pass	
Ethylbenzene	%	78			70-130	Pass	
m&p-Xylenes	%	81			70-130	Pass	
Xylenes - Total*	%	81			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	94			70-130	Pass	
TRH C6-C10	%	83			70-130	Pass	
TRH >C10-C16	%	113			70-130	Pass	
LCS - % Recovery							
Ammonia (as N)	%	98			70-130	Pass	
Conductivity (at 25°C)	%	103			70-130	Pass	
Nitrate (as N)	%	97			70-130	Pass	
Nitrite (as N)	%	104			70-130	Pass	
Total Suspended Solids Dried at 103–105°C	%	85			70-130	Pass	
LCS - % Recovery							
Alkalinity (speciated)							
Carbonate Alkalinity (as CaCO3)	%	82			70-130	Pass	
Total Alkalinity (as CaCO3)	%	91			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	95			80-120	Pass	
Cadmium	%	94			80-120	Pass	
Chromium	%	97			80-120	Pass	
Copper	%	96			80-120	Pass	
Lead	%	96			80-120	Pass	
Mercury	%	94			80-120	Pass	
Nickel	%	95			80-120	Pass	
Zinc	%	101			80-120	Pass	
LCS - % Recovery							
Alkali Metals							
Calcium	%	97			80-120	Pass	
Magnesium	%	94			80-120	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	M21-Ap23187	NCP	%	91			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	M21-Ap23187	NCP	%	85			70-130	Pass	
Toluene	M21-Ap23187	NCP	%	85			70-130	Pass	
Ethylbenzene	M21-Ap23187	NCP	%	79			70-130	Pass	
m&p-Xylenes	M21-Ap23187	NCP	%	84			70-130	Pass	
o-Xylene	M21-Ap23187	NCP	%	80			70-130	Pass	
Xylenes - Total*	M21-Ap23187	NCP	%	83			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	M21-Ap23187	NCP	%	84			70-130	Pass	
TRH C6-C10	M21-Ap23187	NCP	%	87			70-130	Pass	
Spike - % Recovery									
				Result 1					
Ammonia (as N)	S21-Ap16970	NCP	%	94			70-130	Pass	
Nitrate (as N)	S21-Ap16970	NCP	%	98			70-130	Pass	
Nitrite (as N)	S21-Ap16970	NCP	%	105			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	P21-Ap16018	NCP	%	94			75-125	Pass	
Cadmium	P21-Ap16018	NCP	%	90			75-125	Pass	
Chromium	P21-Ap16018	NCP	%	92			75-125	Pass	
Copper	P21-Ap16018	NCP	%	91			75-125	Pass	
Lead	P21-Ap16018	NCP	%	89			75-125	Pass	
Mercury	P21-Ap16018	NCP	%	88			75-125	Pass	
Nickel	P21-Ap16018	NCP	%	90			75-125	Pass	
Zinc	P21-Ap16018	NCP	%	92			75-125	Pass	
Spike - % Recovery									
				Result 1					
Total Suspended Solids Dried at 103–105°C	M21-Ap21456	NCP	%	67			70-130	Fail	Q08
Spike - % Recovery									
Alkali Metals				Result 1					
Calcium	S21-Ap16484	CP	%	88			75-125	Pass	
Magnesium	S21-Ap16484	CP	%	85			75-125	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	M21-Ap23470	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH C10-C14	B21-Ap14039	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH C15-C28	B21-Ap14039	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH C29-C36	B21-Ap14039	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	M21-Ap23470	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Toluene	M21-Ap23470	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Ethylbenzene	M21-Ap23470	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
m&p-Xylenes	M21-Ap23470	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
o-Xylene	M21-Ap23470	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Xylenes - Total*	M21-Ap23470	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	

Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	M21-Ap23470	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
TRH C6-C10	M21-Ap23470	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH >C10-C16	B21-Ap14039	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH >C16-C34	B21-Ap14039	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH >C34-C40	B21-Ap14039	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Ammonia (as N)	S21-Ap16481	CP	mg/L	0.07	0.11	42	30%	Fail	Q15
Conductivity (at 25°C)	M21-Ap19918	NCP	uS/cm	3600	3900	7.0	30%	Pass	
Nitrate (as N)	S21-Ap16481	CP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
Nitrite (as N)	S21-Ap16481	CP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
pH (at 25 °C)	P21-Ap16085	NCP	pH Units	6.9	7.0	pass	30%	Pass	
Duplicate									
Alkalinity (speciated)				Result 1	Result 2	RPD			
Bicarbonate Alkalinity (as CaCO3)	M21-Ap19918	NCP	mg/L	510	520	3.0	30%	Pass	
Carbonate Alkalinity (as CaCO3)	M21-Ap19918	NCP	mg/L	< 10	< 10	<1	30%	Pass	
Hydroxide Alkalinity (as CaCO3)	M21-Ap19918	NCP	mg/L	< 20	< 20	<1	30%	Pass	
Total Alkalinity (as CaCO3)	M21-Ap19918	NCP	mg/L	510	520	3.0	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	P21-Ap16018	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Cadmium	P21-Ap16018	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Chromium	P21-Ap16018	NCP	mg/L	0.002	0.002	8.0	30%	Pass	
Copper	P21-Ap16018	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Lead	P21-Ap16018	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Mercury	P21-Ap16018	NCP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel	P21-Ap16018	NCP	mg/L	0.002	0.002	10	30%	Pass	
Zinc	P21-Ap16018	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Total Suspended Solids Dried at 103–105°C	M21-Ap21029	NCP	mg/L	13	12	9.0	30%	Pass	
Duplicate									
Alkali Metals				Result 1	Result 2	RPD			
Calcium	S21-Ap16484	CP	mg/L	10.0	9.2	8.0	30%	Pass	
Magnesium	S21-Ap16484	CP	mg/L	7.5	7.3	3.0	30%	Pass	

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

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.
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 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
Emily Rosenberg	Senior Analyst-Metal (VIC)
Joseph Edouard	Senior Analyst-Organic (VIC)
Scott Beddoes	Senior Analyst-Inorganic (VIC)
Vivian Wang	Senior Analyst-Volatile (VIC)

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

PROJECT NO.: 60482	LABORATORY BATCH NO.: # 786577
PROJECT NAME: Kemps Creek DSI	SAMPLERS:
DATE NEEDED BY: Standard TAT	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) .....rlill@jbsg.com.au; (3) .....cdagger@jbsg.com.au	

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs	Asbestos	OCPs/PCBs	Phenols	Herbicides	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
	~~Soil~~															
RINO70421	Water	7-4-21		2xV, 1xA, 1xM		x	x	x								
RINO80421	↓	8-4-21		↓		x	x	x								
RINO90421	↓	9-4-21		↓		x	x	x								

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Ryan DATE: 12-4-21	CONSIGNMENT NOTE NO. Courier	NAME: MVR	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 12/4/21 4:48PM	COOLER TEMP 7.6 deg C
		OF: Eurofins	
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

eurofins | Environment Testing

ABN: 50 005 085 521 www.eurofins.com.au EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
2/91 Leach Highway
Kewdale WA 6105
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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:	Ryan Lill
Project name:	KEMPS CREEK DSI
Project ID:	60482
Turnaround time:	5 Day
Date/Time received	Apr 12, 2021 4:48 PM
Eurofins reference	786577

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 Sample Receipt : 7.6 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.
✓	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 Ryan Lill - rlill@jbsg.com.au.

Global Leader - Results you can trust

eurofins | Environment Testing

ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
2/91 Leach Highway
Kewdale WA 6105
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786577
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 4:48 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Eurofins Suite B7
Melbourne Laboratory - NATA Site # 1254 & 14271						
Sydney Laboratory - NATA Site # 18217						X
Brisbane Laboratory - NATA Site # 20794						
Perth Laboratory - NATA Site # 23736						
Mayfield Laboratory						
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	RIN070421	Apr 07, 2021		Water	S21-Ap16719	X
2	RIN080421	Apr 08, 2021		Water	S21-Ap16720	X
3	RIN090421	Apr 09, 2021		Water	S21-Ap16721	X
Test Counts						3

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

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 and proficiency testing scheme providers reports.

Attention: **Ryan Lill**

Report **786577-W**
Project name KEMPS CREEK DSI
Project ID 60482
Received Date Apr 12, 2021

Client Sample ID			**RIN070421**	**RIN080421**	**RIN090421**
Sample Matrix			**Water**	**Water**	**Water**
Eurofins Sample No.			**S21-Ap16719**	**S21-Ap16720**	**S21-Ap16721**
Date Sampled			**Apr 07, 2021**	**Apr 08, 2021**	**Apr 09, 2021**
Test/Reference	LOR	Unit			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions					
TRH C6-C9	0.02	mg/L	< 0.02	< 0.02	< 0.02
TRH C10-C14	0.05	mg/L	< 0.05	< 0.05	< 0.05
TRH C15-C28	0.1	mg/L	< 0.1	< 0.1	< 0.1
TRH C29-C36	0.1	mg/L	< 0.1	< 0.1	< 0.1
TRH C10-C36 (Total)	0.1	mg/L	< 0.1	< 0.1	< 0.1
BTEX					
Benzene	0.001	mg/L	< 0.001	< 0.001	< 0.001
Toluene	0.001	mg/L	< 0.001	< 0.001	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002	< 0.002	< 0.002
o-Xylene	0.001	mg/L	< 0.001	< 0.001	< 0.001
Xylenes - Total*	0.003	mg/L	< 0.003	< 0.003	< 0.003
4-Bromofluorobenzene (surr.)	1	%	86	68	96
Total Recoverable Hydrocarbons - 2013 NEPM Fractions					
Naphthalene[N02]	0.01	mg/L	< 0.01	< 0.01	< 0.01
TRH C6-C10	0.02	mg/L	< 0.02	< 0.02	< 0.02
TRH C6-C10 less BTEX (F1)[N04]	0.02	mg/L	< 0.02	< 0.02	< 0.02
TRH >C10-C16	0.05	mg/L	< 0.05	< 0.05	< 0.05
TRH >C10-C16 less Naphthalene (F2)[N01]	0.05	mg/L	< 0.05	< 0.05	< 0.05
TRH >C16-C34	0.1	mg/L	< 0.1	< 0.1	< 0.1
TRH >C34-C40	0.1	mg/L	< 0.1	< 0.1	< 0.1
TRH >C10-C40 (total)*	0.1	mg/L	< 0.1	< 0.1	< 0.1
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	< 0.001	< 0.001	< 0.001
Fluorene	0.001	mg/L	< 0.001	< 0.001	< 0.001

Client Sample ID			RIN070421	RIN080421	RIN090421
Sample Matrix			Water	Water	Water
Eurofins Sample No.			S21-Ap16719	S21-Ap16720	S21-Ap16721
Date Sampled			Apr 07, 2021	Apr 08, 2021	Apr 09, 2021
Test/Reference	LOR	Unit			
Polycyclic Aromatic Hydrocarbons					
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	< 0.001	< 0.001
Pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001
Total PAH*	0.001	mg/L	< 0.001	< 0.001	< 0.001
2-Fluorobiphenyl (surr.)	1	%	84	114	94
p-Terphenyl-d14 (surr.)	1	%	61	112	59
Heavy Metals					
Arsenic	0.001	mg/L	< 0.001	< 0.001	< 0.001
Cadmium	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002
Chromium	0.001	mg/L	< 0.001	< 0.001	< 0.001
Copper	0.001	mg/L	0.002	0.002	0.002
Lead	0.001	mg/L	< 0.001	< 0.001	< 0.001
Mercury	0.0001	mg/L	< 0.0001	< 0.0001	< 0.0001
Nickel	0.001	mg/L	0.004	0.004	0.004
Zinc	0.005	mg/L	0.016	0.015	0.016

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	Apr 12, 2021	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Apr 12, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Apr 12, 2021	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Apr 19, 2021	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons	Sydney	Apr 12, 2021	7 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Metals M8	Sydney	Apr 19, 2021	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
2/91 Leach Highway
Kewdale WA 6105
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786577
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 4:48 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Eurofins Suite B7
Melbourne Laboratory - NATA Site # 1254 & 14271						
Sydney Laboratory - NATA Site # 18217						X
Brisbane Laboratory - NATA Site # 20794						
Perth Laboratory - NATA Site # 23736						
Mayfield Laboratory						
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	RIN070421	Apr 07, 2021		Water	S21-Ap16719	X
2	RIN080421	Apr 08, 2021		Water	S21-Ap16720	X
3	RIN090421	Apr 09, 2021		Water	S21-Ap16721	X
Test Counts						3

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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.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram | **mg/L:** milligrams per litre | **ug/L:** micrograms per litre

ppm: Parts per million | **ppb:** Parts per billion | **%:** Percentage

org/100mL: Organisms per 100 millilitres | **NTU:** Nephelometric Turbidity Units | **MPN/100mL:** Most Probable Number of organisms per 100 millilitres

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 and 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.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
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 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

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, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene 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 Aroclor 1260 in Matrix Spikes and LCS.
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 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 - 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	< 0.01			0.01	Pass	
TRH C6-C10	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	< 0.001			0.001	Pass	
Cadmium	mg/L	< 0.0002			0.0002	Pass	
Chromium	mg/L	< 0.001			0.001	Pass	
Copper	mg/L	< 0.001			0.001	Pass	
Lead	mg/L	< 0.001			0.001	Pass	
Mercury	mg/L	< 0.0001			0.0001	Pass	
Nickel	mg/L	< 0.001			0.001	Pass	
Zinc	mg/L	< 0.005			0.005	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	122			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
TRH C10-C14	%	74			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	95			70-130	Pass	
Toluene	%	93			70-130	Pass	
Ethylbenzene	%	93			70-130	Pass	
m&p-Xylenes	%	91			70-130	Pass	
o-Xylene	%	96			70-130	Pass	
Xylenes - Total*	%	93			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	103			70-130	Pass	
TRH C6-C10	%	123			70-130	Pass	
TRH >C10-C16	%	77			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	99			70-130	Pass	
Acenaphthylene	%	120			70-130	Pass	
Anthracene	%	104			70-130	Pass	
Benzo(k)fluoranthene	%	71			70-130	Pass	
Fluoranthene	%	92			70-130	Pass	
Fluorene	%	104			70-130	Pass	
Phenanthrene	%	113			70-130	Pass	
Pyrene	%	93			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	97			80-120	Pass	
Cadmium	%	101			80-120	Pass	
Chromium	%	99			80-120	Pass	
Copper	%	98			80-120	Pass	
Lead	%	98			80-120	Pass	
Mercury	%	95			80-120	Pass	
Nickel	%	101			80-120	Pass	
Zinc	%	100			80-120	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 C10-C14	S21-Ap11278	NCP	%	70			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH >C10-C16	S21-Ap11317	NCP	%	71			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1	Result 2	RPD	Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S21-Ap18891	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S21-Ap18891	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Toluene	S21-Ap18891	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Ethylbenzene	S21-Ap18891	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
m&p-Xylenes	S21-Ap18891	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
o-Xylene	S21-Ap18891	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Xylenes - Total*	S21-Ap18891	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	

Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S21-Ap18891	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
TRH C6-C10	S21-Ap18891	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-Ap16719	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Cadmium	S21-Ap16719	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Chromium	S21-Ap16719	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Copper	S21-Ap16719	CP	mg/L	0.002	0.002	6.0	30%	Pass	
Lead	S21-Ap16719	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Mercury	S21-Ap16719	CP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel	S21-Ap16719	CP	mg/L	0.004	0.004	3.0	30%	Pass	
Zinc	S21-Ap16719	CP	mg/L	0.016	0.015	4.0	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-Ap16720	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Cadmium	S21-Ap16720	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Chromium	S21-Ap16720	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Copper	S21-Ap16720	CP	mg/L	0.002	0.002	5.0	30%	Pass	
Lead	S21-Ap16720	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Mercury	S21-Ap16720	CP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel	S21-Ap16720	CP	mg/L	0.004	0.004	1.0	30%	Pass	
Zinc	S21-Ap16720	CP	mg/L	0.015	0.016	3.0	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C10-C14	S21-Ap16721	CP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH C15-C28	S21-Ap16721	CP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH C29-C36	S21-Ap16721	CP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
TRH >C10-C16	S21-Ap16721	CP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH >C16-C34	S21-Ap16721	CP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH >C34-C40	S21-Ap16721	CP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-Ap16721	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Cadmium	S21-Ap16721	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Chromium	S21-Ap16721	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Copper	S21-Ap16721	CP	mg/L	0.002	0.002	4.0	30%	Pass	
Lead	S21-Ap16721	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Mercury	S21-Ap16721	CP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel	S21-Ap16721	CP	mg/L	0.004	0.004	4.0	30%	Pass	
Zinc	S21-Ap16721	CP	mg/L	0.016	0.016	2.0	30%	Pass	

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

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:

Ursula Long	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)
John Nguyen	Senior Analyst-Metal (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.: 60482

PROJECT NAME: Kemps Creek DSI

DATE NEEDED BY: Standard TAT

LABORATORY BATCH NO.: # 786579

SAMPLERS:

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) .....rlill@jbsg.com.au; (3) .....cdagger@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs (low level)	EC, pH, alkalinity, Hardenss	Ammonia	Nitrite/Nitrate	pH/TSS	BTEX	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
MW01	~~Soil~~ Water			2x V, 1x A, 1x M, 1x Inorg		x	x	x	x	~~x~~	~~x~~	~~x~~				
MW02				↓		x	x	x	x							
MW05				2x V		x	x	x	x							
~~RIN~~TS													x			
TB				~~2x V, 1x A, 1x M, 1x Inorg~~ 2x V									x			
QC01-GW				2x V, 1x A, 1x M, 1x Inorg		x	x	x	x							

RELINQUISHED BY:

NAME: Kylan Lill DATE: 12/4/21

OF: JBS&G

NAME: DATE:

OF:

METHOD OF SHIPMENT:

CONSIGNMENT NOTE NO. courier

TRANSPORT CO.

CONSIGNMENT NOTE NO.

TRANSPORT CO

RECEIVED BY:

NAME: MR

DATE: 12/4/21 4:48PM

OF: Envirolab

NAME: DATE:

OF:

FOR RECEIVING LAB USE ONLY:

COOLER SEAL – Yes..... No ..... Intact ..... Broken .....

COOLER TEMP 12.7 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

eurofins | Environment Testing

ABN: 50 005 085 521 www.eurofins.com.au EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
2/91 Leach Highway
Kewdale WA 6105
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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:	Ryan Lill
Project name:	KEMPS CREEK DSI
Project ID:	60482
Turnaround time:	5 Day
Date/Time received	Apr 12, 2021 4:48 PM
Eurofins reference	786579

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 Sample Receipt : 12.7 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.
✓	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

Sample RIN120421 received as extra and logged on hold.

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 Ryan Lill - rlill@jbsg.com.au.

Global Leader - Results you can trust

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
2/91 Leach Highway
Kewdale WA 6105
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786579
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 4:48 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Conductivity (at 25°C)	HOLD	pH (at 25 °C)	Alkalinity (speciated)	BTEX	Hardness Set	BTEX	Eurofins Suite B7 (PAH trace level)	Eurofins Suite B7 (filtered metals/PAH trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217														
Brisbane Laboratory - NATA Site # 20794														
Perth Laboratory - NATA Site # 23736														
Mayfield Laboratory														
External Laboratory														
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**									
1	MW01	Apr 12, 2021		Water	S21-Ap16756	X		X	X		X		X	
2	MW02	Apr 12, 2021		Water	S21-Ap16757	X		X	X		X		X	
3	MW05	Apr 12, 2021		Water	S21-Ap16758	X		X	X		X		X	
4	QC01_GW	Apr 12, 2021		Water	S21-Ap16759	X		X	X		X			X
5	TS	Apr 12, 2021		Water	S21-Ap16760							X		
6	TB	Apr 12, 2021		Water	S21-Ap16761					X				
7	RIN120421	Apr 12, 2021		Water	S21-Ap16762		X							
Test Counts						4	1	4	4	1	4	1	3	1

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

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 and proficiency testing scheme providers reports.

Attention: **Ryan Lill**

Report **786579-W**
Project name KEMPS CREEK DSI
Project ID 60482
Received Date Apr 12, 2021

Client Sample ID			**MW01**	**MW02**	**MW05**	**QC01_GW**
Sample Matrix			**Water**	**Water**	**Water**	**Water**
Eurofins Sample No.			**S21-Ap16756**	**S21-Ap16757**	**S21-Ap16758**	**S21-Ap16759**
Date Sampled			**Apr 12, 2021**	**Apr 12, 2021**	**Apr 12, 2021**	**Apr 12, 2021**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
TRH C10-C14	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
TRH C15-C28	0.1	mg/L	0.4	< 0.1	< 0.1	< 0.1
TRH C29-C36	0.1	mg/L	0.2	< 0.1	< 0.1	< 0.1
TRH C10-C36 (Total)	0.1	mg/L	0.6	< 0.1	< 0.1	< 0.1
BTEX						
Benzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Toluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002	< 0.002	< 0.002	< 0.002
o-Xylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Xylenes - Total*	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
4-Bromofluorobenzene (surr.)	1	%	88	91	92	86
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.01	mg/L	< 0.01	< 0.01	< 0.01	< 0.01
TRH C6-C10	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
TRH C6-C10 less BTEX (F1)[N04]	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
TRH >C10-C16	0.05	mg/L	0.06	< 0.05	< 0.05	< 0.05
TRH >C10-C16 less Naphthalene (F2)[N01]	0.05	mg/L	0.06	< 0.05	< 0.05	< 0.05
TRH >C16-C34	0.1	mg/L	0.5	< 0.1	< 0.1	< 0.1
TRH >C34-C40	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH >C10-C40 (total)*	0.1	mg/L	0.56	< 0.1	< 0.1	< 0.1
Polycyclic Aromatic Hydrocarbons (Trace level)						
Acenaphthene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Acenaphthylene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Anthracene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benz(a)anthracene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(a)pyrene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(b&j)fluoranthene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(g.h.i)perylene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(k)fluoranthene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Chrysene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Dibenz(a.h)anthracene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Fluoranthene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Fluorene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001

Client Sample ID			MW01	MW02	MW05	QC01_GW
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S21-Ap16756	S21-Ap16757	S21-Ap16758	S21-Ap16759
Date Sampled			Apr 12, 2021	Apr 12, 2021	Apr 12, 2021	Apr 12, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons (Trace level)						
Indeno(1.2.3-cd)pyrene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Naphthalene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Phenanthrene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pyrene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Total PAH*	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
2-Fluorobiphenyl (surr.)	1	%	94	58	87	74
p-Terphenyl-d14 (surr.)	1	%	144	73	118	95
Conductivity (at 25°C)	10	uS/cm	24000	17000	4000	4100
pH (at 25 °C)	0.1	pH Units	7.9	8.1	8.3	8.2
Alkalinity (speciated)						
Bicarbonate Alkalinity (as CaCO3)	20	mg/L	1400	950	1300	1300
Carbonate Alkalinity (as CaCO3)	10	mg/L	< 10	< 10	< 10	< 10
Hydroxide Alkalinity (as CaCO3)	20	mg/L	< 20	< 20	< 20	< 20
Total Alkalinity (as CaCO3)	20	mg/L	1400	950	1300	1300
Heavy Metals						
Arsenic	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Arsenic (filtered)	0.001	mg/L	-	-	-	< 0.001
Cadmium	0.0002	mg/L	0.0002	< 0.0002	< 0.0002	-
Cadmium (filtered)	0.0002	mg/L	-	-	-	< 0.0002
Chromium	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Chromium (filtered)	0.001	mg/L	-	-	-	< 0.001
Copper	0.001	mg/L	0.009	< 0.001	< 0.001	-
Copper (filtered)	0.001	mg/L	-	-	-	< 0.001
Lead	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Lead (filtered)	0.001	mg/L	-	-	-	< 0.001
Mercury	0.0001	mg/L	< 0.0001	< 0.0001	< 0.0001	-
Mercury (filtered)	0.0001	mg/L	-	-	-	< 0.0001
Nickel	0.001	mg/L	0.004	< 0.001	< 0.001	-
Nickel (filtered)	0.001	mg/L	-	-	-	< 0.001
Zinc	0.005	mg/L	0.029	< 0.005	< 0.005	-
Zinc (filtered)	0.005	mg/L	-	-	-	< 0.005
Alkali Metals						
Calcium	0.5	mg/L	230	190	14	6.9
Magnesium	0.5	mg/L	780	420	72	57
Hardness Set						
Hardness mg equivalent CaCO3/L	5	mg/L	3800	2200	330	250

Client Sample ID			TS	TB
Sample Matrix			Water	Water
Eurofins Sample No.			S21-Ap16760	S21-Ap16761
Date Sampled			Apr 12, 2021	Apr 12, 2021
Test/Reference	LOR	Unit		
BTEX				
Benzene	0.001	mg/L	-	< 0.001
Toluene	0.001	mg/L	-	< 0.001
Ethylbenzene	0.001	mg/L	-	< 0.001
m&p-Xylenes	0.002	mg/L	-	< 0.002
o-Xylene	0.001	mg/L	-	< 0.001
Xylenes - Total*	0.003	mg/L	-	< 0.003
4-Bromofluorobenzene (surr.)	1	%	-	79
BTEX				
Benzene	1	%	96	-
Ethylbenzene	1	%	88	-
m&p-Xylenes	1	%	93	-
o-Xylene	1	%	91	-
Toluene	1	%	100	-
Xylenes - Total	1	%	91	-
4-Bromofluorobenzene (surr.)	1	%	85	-

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
Eurofins Suite B7 (filtered metals/PAH trace level)			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	Apr 14, 2021	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Melbourne	Apr 14, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Apr 14, 2021	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Apr 14, 2021	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons (Trace level)	Melbourne	Apr 19, 2021	7 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water (trace)			
Metals M8 filtered	Melbourne	Apr 15, 2021	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Conductivity (at 25°C)	Melbourne	Apr 14, 2021	28 Days
- Method: LTM-INO-4030 Conductivity			
pH (at 25 °C)	Melbourne	Apr 14, 2021	0 Hours
- Method: LTM-GEN-7090 pH in water by ISE			
Alkalinity (speciated)	Melbourne	Apr 14, 2021	14 Days
- Method: LTM-INO-4250 Alkalinity by Electrometric Titration			
Hardness Set			
Calcium	Melbourne	Apr 15, 2021	180 Days
- Method:			
Magnesium	Melbourne	Apr 15, 2021	180 Days
- Method:			
Hardness mg equivalent CaCO3/L	Melbourne	Apr 15, 2021	28 Days
- Method:			
Eurofins Suite B7 (PAH trace level)			
Metals M8	Melbourne	Apr 15, 2021	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			

eurofins | Environment Testing

ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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
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Perth
2/91 Leach Highway
Kewdale WA 6105
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786579
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 4:48 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Conductivity (at 25°C)	HOLD	pH (at 25 °C)	Alkalinity (speciated)	BTEX	Hardness Set	BTEX	Eurofins Suite B7 (PAH trace level)	Eurofins Suite B7 (filtered metals/PAH trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA Site # 18217														
Brisbane Laboratory - NATA Site # 20794														
Perth Laboratory - NATA Site # 23736														
Mayfield Laboratory														
External Laboratory														
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**									
1	MW01	Apr 12, 2021		Water	S21-Ap16756	X		X	X		X		X	
2	MW02	Apr 12, 2021		Water	S21-Ap16757	X		X	X		X		X	
3	MW05	Apr 12, 2021		Water	S21-Ap16758	X		X	X		X		X	
4	QC01_GW	Apr 12, 2021		Water	S21-Ap16759	X		X	X		X			X
5	TS	Apr 12, 2021		Water	S21-Ap16760							X		
6	TB	Apr 12, 2021		Water	S21-Ap16761					X				
7	RIN120421	Apr 12, 2021		Water	S21-Ap16762		X							
Test Counts						4	1	4	4	1	4	1	3	1

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.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

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 and 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.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
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 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

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, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene 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 Aroclor 1260 in Matrix Spikes and LCS.
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 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 - 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	< 0.01			0.01	Pass	
TRH C6-C10	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							
Conductivity (at 25°C)	uS/cm	< 10			10	Pass	
Method Blank							
Alkalinity (speciated)							
Bicarbonate Alkalinity (as CaCO3)	mg/L	< 20			20	Pass	
Carbonate Alkalinity (as CaCO3)	mg/L	< 10			10	Pass	
Hydroxide Alkalinity (as CaCO3)	mg/L	< 20			20	Pass	
Total Alkalinity (as CaCO3)	mg/L	< 20			20	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.001			0.001	Pass	
Arsenic (filtered)	mg/L	< 0.001			0.001	Pass	
Cadmium	mg/L	< 0.0002			0.0002	Pass	
Cadmium (filtered)	mg/L	< 0.0002			0.0002	Pass	
Chromium	mg/L	< 0.001			0.001	Pass	
Chromium (filtered)	mg/L	< 0.001			0.001	Pass	
Copper	mg/L	< 0.001			0.001	Pass	
Copper (filtered)	mg/L	< 0.001			0.001	Pass	
Lead	mg/L	< 0.001			0.001	Pass	
Lead (filtered)	mg/L	< 0.001			0.001	Pass	
Mercury	mg/L	< 0.0001			0.0001	Pass	
Mercury (filtered)	mg/L	< 0.0001			0.0001	Pass	
Nickel	mg/L	< 0.001			0.001	Pass	
Nickel (filtered)	mg/L	< 0.001			0.001	Pass	
Zinc	mg/L	< 0.005			0.005	Pass	
Zinc (filtered)	mg/L	< 0.005			0.005	Pass	
Method Blank							
Alkali Metals							
Calcium	mg/L	< 0.5			0.5	Pass	
Magnesium	mg/L	< 0.5			0.5	Pass	
LCS - % Recovery							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	86			70-130	Pass	
TRH C10-C14	%	114			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	92			70-130	Pass	
Toluene	%	88			70-130	Pass	
Ethylbenzene	%	78			70-130	Pass	
m&p-Xylenes	%	81			70-130	Pass	
Xylenes - Total*	%	81			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	94			70-130	Pass	
TRH C6-C10	%	83			70-130	Pass	
TRH >C10-C16	%	109			70-130	Pass	
LCS - % Recovery							
Conductivity (at 25°C)	%	103			70-130	Pass	
LCS - % Recovery							
Alkalinity (speciated)							
Carbonate Alkalinity (as CaCO3)	%	82			70-130	Pass	
Total Alkalinity (as CaCO3)	%	91			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	95			80-120	Pass	
Cadmium	%	96			80-120	Pass	
Chromium	%	95			80-120	Pass	
Copper	%	97			80-120	Pass	
Lead	%	95			80-120	Pass	
Mercury	%	96			80-120	Pass	
Nickel	%	96			80-120	Pass	
Zinc	%	102			80-120	Pass	
LCS - % Recovery							
Alkali Metals							
Calcium	%	92			80-120	Pass	
Magnesium	%	95			80-120	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	M21-Ap23187	NCP	%	91			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	M21-Ap23187	NCP	%	85			70-130	Pass	
Toluene	M21-Ap23187	NCP	%	85			70-130	Pass	
Ethylbenzene	M21-Ap23187	NCP	%	79			70-130	Pass	
m&p-Xylenes	M21-Ap23187	NCP	%	84			70-130	Pass	
o-Xylene	M21-Ap23187	NCP	%	80			70-130	Pass	
Xylenes - Total*	M21-Ap23187	NCP	%	83			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	M21-Ap23187	NCP	%	84			70-130	Pass	
TRH C6-C10	M21-Ap23187	NCP	%	87			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S21-Ap16756	CP	%	89			75-125	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Cadmium	S21-Ap16756	CP	%	78			75-125	Pass	
Chromium	S21-Ap16756	CP	%	82			75-125	Pass	
Copper	S21-Ap16756	CP	%	78			75-125	Pass	
Lead	S21-Ap16756	CP	%	78			75-125	Pass	
Mercury	S21-Ap16756	CP	%	82			75-125	Pass	
Nickel	S21-Ap16756	CP	%	79			75-125	Pass	
Zinc	S21-Ap16756	CP	%	75			75-125	Pass	
Spike - % Recovery									
Alkali Metals				Result 1					
Calcium	S21-Ap16484	NCP	%	88			75-125	Pass	
Magnesium	S21-Ap16484	NCP	%	85			75-125	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic (filtered)	S21-Ap16759	CP	%	96			75-125	Pass	
Cadmium (filtered)	S21-Ap16759	CP	%	82			75-125	Pass	
Chromium (filtered)	S21-Ap16759	CP	%	85			75-125	Pass	
Copper (filtered)	S21-Ap16759	CP	%	83			75-125	Pass	
Lead (filtered)	S21-Ap16759	CP	%	83			75-125	Pass	
Mercury (filtered)	S21-Ap16759	CP	%	80			75-125	Pass	
Nickel (filtered)	S21-Ap16759	CP	%	83			75-125	Pass	
Zinc (filtered)	S21-Ap16759	CP	%	85			75-125	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	M21-Ap23470	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH C10-C14	B21-Ap14039	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH C15-C28	B21-Ap14039	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH C29-C36	B21-Ap14039	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	M21-Ap23470	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Toluene	M21-Ap23470	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Ethylbenzene	M21-Ap23470	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
m&p-Xylenes	M21-Ap23470	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
o-Xylene	M21-Ap23470	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Xylenes - Total*	M21-Ap23470	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	M21-Ap23470	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
TRH C6-C10	M21-Ap23470	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH >C10-C16	B21-Ap14039	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH >C16-C34	B21-Ap14039	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH >C34-C40	B21-Ap14039	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Conductivity (at 25°C)	M21-Ap19918	NCP	uS/cm	3600	3900	7.0	30%	Pass	
pH (at 25 °C)	P21-Ap16085	NCP	pH Units	6.9	7.0	pass	30%	Pass	
Duplicate									
Alkalinity (speciated)				Result 1	Result 2	RPD			
Bicarbonate Alkalinity (as CaCO3)	M21-Ap19918	NCP	mg/L	510	520	3.0	30%	Pass	
Carbonate Alkalinity (as CaCO3)	M21-Ap19918	NCP	mg/L	< 10	< 10	<1	30%	Pass	
Hydroxide Alkalinity (as CaCO3)	M21-Ap19918	NCP	mg/L	< 20	< 20	<1	30%	Pass	
Total Alkalinity (as CaCO3)	M21-Ap19918	NCP	mg/L	510	520	3.0	30%	Pass	

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-Ap16756	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Cadmium	S21-Ap16756	CP	mg/L	0.0002	< 0.0002	4.0	30%	Pass	
Chromium	S21-Ap16756	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Copper	S21-Ap16756	CP	mg/L	0.009	0.008	6.0	30%	Pass	
Lead	S21-Ap16756	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Mercury	S21-Ap16756	CP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel	S21-Ap16756	CP	mg/L	0.004	0.004	2.0	30%	Pass	
Zinc	S21-Ap16756	CP	mg/L	0.029	0.028	5.0	30%	Pass	
Duplicate									
Alkali Metals				Result 1	Result 2	RPD			
Calcium	S21-Ap16484	NCP	mg/L	10	9.2	8.0	30%	Pass	
Magnesium	S21-Ap16484	NCP	mg/L	7.5	7.3	3.0	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic (filtered)	S21-Ap16759	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Cadmium (filtered)	S21-Ap16759	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Chromium (filtered)	S21-Ap16759	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Copper (filtered)	S21-Ap16759	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Lead (filtered)	S21-Ap16759	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Mercury (filtered)	S21-Ap16759	CP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel (filtered)	S21-Ap16759	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Zinc (filtered)	S21-Ap16759	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
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.

Authorised by:

Ursula Long	Analytical Services Manager
Emily Rosenberg	Senior Analyst-Metal (VIC)
Joseph Edouard	Senior Analyst-Organic (VIC)
Scott Beddoes	Senior Analyst-Inorganic (VIC)
Vivian Wang	Senior Analyst-Volatile (VIC)

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.: 60482 | LABORATORY BATCH NO.:

PROJECT NAME: Kemps Creek DSI | SAMPLERS:

DATE NEEDED BY: Standard TAT | 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) .....rlill@jbsg.com.au; (3) .....cdagger@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs	Asbestos	OCPs/PCBs	Phenols	Herbicides	PFAS	CEC, pH, Clay	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
	Soil																
BH273 0.0-0.2		9/4/21		J+B						X		X					
BH273 0.4-0.5				J		X		X						X			
BH274 0.0-0.2				J+B													
BH274 0.4-0.5				J													
BH275 0.0-0.2				J+B		X		X				X					
BH275 0.4-0.5				J													
BH276 0.0-0.2				J+B													
BH276 0.4-0.5				J		X	X										
BH277 0.0-0.2				J+B													
BH277 0.6-0.7				J		X		X									
TP214 0.0-0.1				J+B													
TP214 0.4-0.5				J			~~X~~	~~X~~						~~X~~			
TP215 0.0-0.1				J+B													
TP215 0.4-0.5				~~J~~ J		~~X~~		~~X~~									
TP215 1.0-1.1				J													
TP215 1.7-1.8				J			X	X									
TP219 0.0-0.1				J+B													
TP219 0.4-0.5				J													

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Ryan Lill DATE: 12-4-21	CONSIGNMENT NOTE NO.	NAME: GTN	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 12/4/21 6:38pm i-5%	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 - Generic

786604

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 60482

PROJECT NAME: Kemps Creek DSI

DATE NEEDED BY: Standard TAT

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

LABORATORY BATCH NO.:

SAMPLERS:

QC LEVEL: NEPM (2013)

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....rill@jbsg.com.au; (3) .....cdagger@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs	Asbestos	OCPs/PCBs	Phenols	Herbicides	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
TP201 0-0.2 AQ	Soil	9-4-21		DAQ B					X							
TP201 0-0.2				AD or		X		X								
TP201 0.5-0.6				D		X	X	X								
TP400 0-0.3	AQ			AQ B					X							
TP 400 0-0.3	D			D			X			X						
TP 400 0.4-0.6				D												
TP 401 0-0.3				AQ B					X							
TP 401 0-0.3				D		X	X	X								
TP 401 0.4-0.6				D												
TP 402 0-0.3				AQ B					X							
TP 402 0-0.3				D		X		X								
TP 402 0.4-0.6				D												
TP 405 0-0.4				AQ B					X							
TP 408 0-0.9				AQ B												
TP 404 0-0.4				AQ B					X							
TP 403 0-0.3				AQ B					X							
TP 204 0-0.1				B		E	E	X								
TP 204 0-0.1				D		X		X								
TP 204 0.4-0.5				D												
TP 408 0-0.2	V	V														

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Ryan Gill DATE: 12-4-21	CONSIGNMENT NOTE NO.	NAME: GTW	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 12/4/21 6:38pm 1.5°C	
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

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 60482 | LABORATORY BATCH NO.:

PROJECT NAME: Kemps Creek DSI | SAMPLERS:

DATE NEEDED BY: Standard TAT | 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) .....rlill@jbsg.com.au; (3) .....cdagger@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs	Asbestos	OCPs/PCBs	Phenols	Herbicides	PFAS	8/27 x	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
TP212 2.6-2.4	Soil	1/4/21		J		x	x	x					-				
TP212 2.0-2.1	↓	↓		J													
TP212 1.0-1.1				J													
TP212 0.0-0.1				B					x								
TP212 0.5-0.6				J													
TP212 0.0-0.1				J		x		x									
~~TP 204 0.0-0.1~~				~~B+J~~													
~~TP 204 0.4-0.5~~				~~J~~													
TP 204 0.4-0.5				J													
TP 205 0.0-0.2	↓	↓		BTJ		x	x										
TS	Water	9/4/21		2xV										x			
TB	↓	↓		2xV										x			

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: [signature] DATE: 12.4.21	CONSIGNMENT NOTE NO.	NAME: GHV	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 12/4/21 6:38pm	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	OF: ISQ	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; F = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO Forms013 – Chain of Custody – Generic

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 60482	LABORATORY BATCH NO.:
PROJECT NAME: Kemps Creek DSI	SAMPLERS:
DATE NEEDED BY: Standard TAT	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) .....rlill@jbsg.com.au; (3) .....cdagger@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs	Asbestos	OCPs/PCBs	Phenols	Herbicides	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
	Soil															
TP 220 0.0-0.1		7/4/21		J+B		X						X				
TP 220 0.4-0.5				J												
TP 226 0.0-0.2				J+D												
TP 226 0.4-0.5				J												
TP 222 0.1-0.2				J+D												
TP 222 0.4-0.5				J				X				X				
TP 227 0.0-0.1				J+D												
TP 227 0.4-0.5	↓			J		X		X				X				

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Ryan Lill DATE: 12-4-21	CONSIGNMENT NOTE NO.	NAME: GTD	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 12/4/21 6:38pm 1.5°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 - Generic

CHAIN OF CUSTODY

PROJECT NO.: 60482	LABORATORY BATCH NO.:
PROJECT NAME: Kemps Creek DSI	SAMPLERS:
DATE NEEDED BY: Standard TAT	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) .....rlill@jbsg.com.au; (3) .....cdagger@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs	Asbestos	OCPs/PCBs	Phenols	Herbicides	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
TP 464 | -1.6	Soil	9/4/21														
TP 464 1.6-2.3									X							
TP 464 2.3-3.4																
TP 465 -0.9									X							
TP 462 0-1.0																
TP 462 1.0-2.0																
TP 462 2.0-3.0									X							
TP 462 3.0-3.8																
TP 463 0-0.8																
TP 463 0.8-1.8									X							
TP 463 1.8-2.8																
TP 463 2.8-3.8									X							
TP 463 3.8-4.2																
TP 463 4.2-4.7																
TP 463 4.3-4.4						X		X								
TP 478 0-0.3									X							
TP 211-0.0-0.1						X		X								
TP 211-0.6-0.7																
TP212 0.5-0.6																
TP 212 0.0-0.01	V	V														

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Ryan Lill DATE: 12-4-21	CONSIGNMENT NOTE NO.	NAME: GTN	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 12/4/21 6:38pm 1.5°	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	OF: 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

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 60482

PROJECT NAME: Kemps Creek DSI

DATE NEEDED BY: Standard TAT

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

LABORATORY BATCH NO.:

SAMPLERS:

QC LEVEL: NEPM (2013)

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....rlill@jbsg.com.au; (3) .....cdagger@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs	Asbestos	OCPs/PCBs	Phenols	Herbicides	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
BH434_0.0-0.15	Soil	9-4-21		J+B		x		x	x							
↓ 0.2-0.3	↓	↓		J												
BH435_0.0-0.1				J+B			x		x							
↓ 0.3-0.4				J												
BH436_0.0-0.15				J+B			x	x	x							
↓ 0.2-0.3				J												
BH437_0.0-0.2				J+B		x		x	x							
↓ 0.3-0.4				J			x									
BH438_0.0-0.2				J+B					x							
↓ 0.2-0.4				J												
BH439_0.0-0.15				J+B		x	x		x							
↓ 0.2-0.4				J												
BH440_0.0-0.2				J+B			x	x	x							
↓ 0.4-0.5				J		x										
BH441_0.0-0.2				J+B		x		x	x							
↓ 0.3-0.4				J												
BH442_0.0-0.1				J+B		x		x	x	x						
↓ 0.3-0.4				J												
BH443_0.0-0.3				J+B		x	x	x	x		x					
↓ 0.5-0.6	↓	↓		J												

RELINQUISHED BY:

NAME: Ryan Lill DATE: 9-4-21

OF: JBS&G

NAME: DATE:

OF:

METHOD OF SHIPMENT:

CONSIGNMENT NOTE NO.

TRANSPORT CO.

CONSIGNMENT NOTE NO.

TRANSPORT CO

RECEIVED BY:

NAME: Lina P - 14/04

DATE:

OF: Eurofins 10:21

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 – Generic

186604

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 60482

PROJECT NAME: Kemps Creek DSI

DATE NEEDED BY: Standard TAT

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

LABORATORY BATCH NO.:

SAMPLERS:

QC LEVEL: NEPM (2013)

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....rlill@jbsg.com.au; (3) .....cdagger@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs	Asbestos	OCPs/PCBs	Phenols	Herbicides	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
BH444_0.0-0.3	Soil	9-4-21		J+B					X							
↓ -0.5-0.6	↓	↓		J												
BH445_0.0-0.2				J+B		~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~					
↓ -0.4-0.6				J												
BH446_0.0-0.2				J+B		X	X	X								
↓ 0.3-0.6				J				X	X							
BH447_0.0-0.15				J+B		X		X	X							
↓ 0.2-0.4				J												

RELINQUISHED BY:

NAME: Rylan Lill DATE: 9-4-21

OF: JBS&G

NAME: DATE:

OF:

METHOD OF SHIPMENT:

CONSIGNMENT NOTE NO.

TRANSPORT CO.

CONSIGNMENT NOTE NO.

TRANSPORT CO

RECEIVED BY:

NAME: DATE: 14/04

OF: Eurofins 10:21 AM

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 - Generic

786604

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ABN: 50 005 085 521 www.eurofins.com.au EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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:	Ryan Lill
Project name:	KEMPS CREEK DSI
Project ID:	60482
Turnaround time:	5 Day
Date/Time received	Apr 12, 2021 6:38 PM
Eurofins reference	786604

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 Sample Receipt : 1.5 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.
✓	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

Sample ID BH273 0-0.2 (bag) received as BH293 0-0.2, TP400 0-0.3 received as TP400 0-0.2 (bag) & TP400 0-0.1 (jar), labelled as per COC. TP401 0-0.3, TS/TB, TP212 1-1.1 not received, analysis cancelled. BH439_0.0-0.15 and BH439_0.2-0.4, jars not received, analysis cancelled. Sample ID TP200_0.4-0.5 (jar), TP213_0.3-0.4(jar), BH221_0.3-0.4-0.5 (jar), TP200_0.0-0.4AQ (bag), TP213_0.0-0.1 (jar+bag), TP214_0.0-0.2 (bag), BH221_0.0-0.1 (jar+bag), TP463_0.8-1.8 (bag), TP463_2.8-3.8AQ (bag) & TP464_0.0-1.0AQ (bag) received, not on COC, logged on hold. 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:

Ursula Long on phone : or by email: UrsulaLong@eurofins.com

Results will be delivered electronically via email to Ryan Lill - rlill@jbsg.com.au.

Global Leader - Results you can trust

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**															
1	BH273 0-0.2	Apr 09, 2021		Soil	S21-Ap17173							X		X	X					
2	BH273 0.4-0.5	Apr 09, 2021		Soil	S21-Ap17174	X				X	X		X		X	X				
3	BH274 0-0.2	Apr 09, 2021		Soil	S21-Ap17175								X		X					
4	BH275 0-0.2	Apr 09, 2021		Soil	S21-Ap17176						X	X	X		X					
5	BH276 0.4-0.5	Apr 09, 2021		Soil	S21-Ap17177										X				X	
6	BH293 0.6-0.7	Apr 09, 2021		Soil	S21-Ap17178						X		X		X					
7	TP215-1.7-1.8	Apr 09, 2021		Soil	S21-Ap17179						X				X			X		
8	TP201 0-0.2AQ	Apr 09, 2021		Soil	S21-Ap17180		X													

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
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NATA # 1261 Site # 18217

Brisbane
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NATA # 1261 Site # 20794

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
9	TP201 0-0.2	Apr 09, 2021		Soil	S21-Ap17181						X		X		X					
10	TP201 0.5-0.6	Apr 09, 2021		Soil	S21-Ap17182										X		X			
11	TP400 0-0.3	Apr 09, 2021		Soil	S21-Ap17183		X													
12	TP400 0-0.3	Apr 09, 2021		Soil	S21-Ap17184									X	X			X		
13	TP401 0-0.3	Apr 09, 2021		Soil	S21-Ap17185		X													
14	TP401 0-0.3	Apr 09, 2021		Soil	S21-Ap17186			X												
15	TP402 0-0.3	Apr 09, 2021		Soil	S21-Ap17187		X													
16	TP402 0-0.3	Apr 09, 2021		Soil	S21-Ap17188						X		X		X					
17	TP405 0-0.4	Apr 09, 2021		Soil	S21-Ap17189		X													
18	TP404 0-0.4	Apr 09, 2021		Soil	S21-Ap17190		X													
19	TP403 0-0.3	Apr 09, 2021		Soil	S21-Ap17191		X													

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
20	TP204 0-0.1	Apr 09, 2021		Soil	S21-Ap17192		X													
21	TP204 0-0.1	Apr 09, 2021		Soil	S21-Ap17193						X		X		X					
22	TP212 2.6-2.9	Apr 01, 2021		Soil	S21-Ap17194										X		X			
23	TP212 1-1.1	Apr 01, 2021		Soil	S21-Ap17195		X													
24	TP212 0.5-0.6	Apr 01, 2021		Soil	S21-Ap17196						X		X		X					
25	TP205 0-0.2	Apr 01, 2021		Soil	S21-Ap17197										X				X	
26	TRIP SPIKE	Apr 09, 2021		Water	S21-Ap17198			X												
27	TRIP BLANK	Apr 09, 2021		Water	S21-Ap17199			X												
28	TP220 0-0.1	Apr 07, 2021		Soil	S21-Ap17200							X	X		X					
29	TP222 0.4-0.5	Apr 07, 2021		Soil	S21-Ap17201						X	X			X					
30	TP227 0.4-0.5	Apr 07, 2021		Soil	S21-Ap17202						X	X	X		X					

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
31	TP464 1.6-2.3	Apr 09, 2021		Soil	S21-Ap17203		X													
32	TP453 0-0.9	Apr 09, 2021		Soil	S21-Ap17204		X													
33	TP462 2-3	Apr 09, 2021		Soil	S21-Ap17205		X													
34	TP463 0.8-1.8	Apr 09, 2021		Soil	S21-Ap17206		X													
35	TP463 2.8-3.8	Apr 09, 2021		Soil	S21-Ap17207		X													
36	TP463 4.3-4.4	Apr 09, 2021		Soil	S21-Ap17208						X		X		X					
37	TP448 0-0.3	Apr 09, 2021		Soil	S21-Ap17209		X													
38	TP211 0-0.1	Apr 09, 2021		Soil	S21-Ap17210						X		X		X					
39	BH274 0.4-0.5	Apr 09, 2021		Soil	S21-Ap17211				X											
40	BH275 0.4-0.5	Apr 09, 2021		Soil	S21-Ap17212				X											
41	BH276 0-0.2	Apr 09, 2021		Soil	S21-Ap17213				X											

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
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Phone : +61 7 3902 4600
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Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
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Phone : +61 2 4968 8448

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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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
42	BH273 0-0.2	Apr 09, 2021		Soil	S21-Ap17214				X											
43	TP214-0-0.1	Apr 09, 2021		Soil	S21-Ap17215				X											
44	TP214-0.4-0.5	Apr 09, 2021		Soil	S21-Ap17216				X											
45	TP215-0-0.1	Apr 09, 2021		Soil	S21-Ap17217				X											
46	TP215-0.4-0.5	Apr 09, 2021		Soil	S21-Ap17218				X											
47	TP215-1-1	Apr 09, 2021		Soil	S21-Ap17219				X											
48	TP219-0-0.1	Apr 09, 2021		Soil	S21-Ap17220				X											
49	TP219-0.4-0.5	Apr 09, 2021		Soil	S21-Ap17221				X											
50	TP400 0.4-0.6	Apr 09, 2021		Soil	S21-Ap17222				X											
51	TP401 0.4-0.6	Apr 09, 2021		Soil	S21-Ap17223				X											
52	TP402 0.4-0.6	Apr 09, 2021		Soil	S21-Ap17224				X											

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
53	TP458 0-0.9	Apr 09, 2021		Soil	S21-Ap17225				X											
54	TP204 0.4-0.5	Apr 09, 2021		Soil	S21-Ap17226				X											
55	TP212 1-1.1	Apr 01, 2021		Soil	S21-Ap17227			X												
56	TP212 1-1.1	Apr 01, 2021		Soil	S21-Ap17228				X											
57	TP212 2-2.1	Apr 01, 2021		Soil	S21-Ap17229				X											
58	TP212 0-0.1	Apr 01, 2021		Soil	S21-Ap17230				X											
59	TP205 0.4-0.5	Apr 01, 2021		Soil	S21-Ap17231				X											
60	TP220 0.4-0.5	Apr 07, 2021		Soil	S21-Ap17232				X											
61	TP226 0.1-0.2	Apr 07, 2021		Soil	S21-Ap17233				X											
62	TP226 0.4-0.5	Apr 07, 2021		Soil	S21-Ap17234				X											
63	TP222 0.1-0.2	Apr 07, 2021		Soil	S21-Ap17235				X											

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Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
64	TP227 0-0.1	Apr 07, 2021		Soil	S21-Ap17236				X											
65	TP464 1-1.6	Apr 09, 2021		Soil	S21-Ap17237				X											
66	TP464 2.3-2.4	Apr 09, 2021		Soil	S21-Ap17238				X											
67	TP462 0-1	Apr 09, 2021		Soil	S21-Ap17239				X											
68	TP462 1-2	Apr 09, 2021		Soil	S21-Ap17240				X											
69	TP462 3-3.8	Apr 09, 2021		Soil	S21-Ap17241				X											
70	TP463 0-0.8	Apr 09, 2021		Soil	S21-Ap17242				X											
71	TP463 1.8-2.8	Apr 09, 2021		Soil	S21-Ap17243				X											
72	TP463 3.8-4.2	Apr 09, 2021		Soil	S21-Ap17244				X											
73	TP463 4.2-4.7	Apr 09, 2021		Soil	S21-Ap17245				X											
74	TP211 0.6-0.7	Apr 09, 2021		Soil	S21-Ap17246				X											

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Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
75	TP212 0.5-0.6	Apr 09, 2021		Soil	S21-Ap17247				X											
76	TP212 0-0.01	Apr 09, 2021		Soil	S21-Ap17248				X											
77	BH434_0.0-0.15	Apr 09, 2021		Soil	S21-Ap20355		X				X		X		X					
78	BH435_0.0-0.1	Apr 09, 2021		Soil	S21-Ap20356		X								X			X		
79	BH436_0.0-0.15	Apr 09, 2021		Soil	S21-Ap20357		X				X				X			X		
80	BH437_0.0-0.2	Apr 09, 2021		Soil	S21-Ap20358		X				X		X		X					
81	BH437_0.3-0.4	Apr 09, 2021		Soil	S21-Ap20359										X			X		
82	BH438_0.0-0.2	Apr 09, 2021		Soil	S21-Ap20360		X													
83	BH439_0.0-0.15	Apr 09, 2021		Soil	S21-Ap20361		X													

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
84	BH440_0.0-0.2	Apr 09, 2021		Soil	S21-Ap20362		X				X				X			X		
85	BH440_0.4-0.5	Apr 09, 2021		Soil	S21-Ap20363								X		X					
86	BH441_0.0-0.2	Apr 09, 2021		Soil	S21-Ap20364						X		X		X					
87	BH442_0.0-0.1	Apr 09, 2021		Soil	S21-Ap20365		X				X		X	X	X					
88	BH443_0.0-0.3	Apr 09, 2021		Soil	S21-Ap20366		X								X					X
89	BH444_0.0-0.3	Apr 09, 2021		Soil	S21-Ap20367		X													
90	BH445_0.4-0.6	Apr 09, 2021		Soil	S21-Ap20368										X		X			
91	BH446_0.0-0.2	Apr 09, 2021		Soil	S21-Ap20369		X				X				X					
92	BH447_0.0-0.15	Apr 09, 2021		Soil	S21-Ap20370		X				X		X		X					
93	BH434_0.2-0.3	Apr 09, 2021		Soil	S21-Ap20371				X											

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
94	BH435_0.3-0.4	Apr 09, 2021		Soil	S21-Ap20372				X											
95	BH436_0.2-0.3	Apr 09, 2021		Soil	S21-Ap20373				X											
96	BH438_0.2-0.4	Apr 09, 2021		Soil	S21-Ap20374				X											
97	BH439_0.2-0.4	Apr 09, 2021		Soil	S21-Ap20375				X											
98	BH441_0.3-0.4	Apr 09, 2021		Soil	S21-Ap20376				X											
99	BH442_0.3-0.4	Apr 09, 2021		Soil	S21-Ap20377				X											
100	BH443_0.5-0.6	Apr 09, 2021		Soil	S21-Ap20378				X											
101	BH444_0.5-0.6	Apr 09, 2021		Soil	S21-Ap20379				X											
102	BH446_0.3-0.6	Apr 09, 2021		Soil	S21-Ap20380				X											
103	BH447_0.2-0.4	Apr 09, 2021		Soil	S21-Ap20381				X											
104	BH445_0.0-0.2	Apr 09, 2021		Soil	S21-Ap20549				X											

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Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
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1/21 Smallwood Place
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Phone : +61 7 3902 4600
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Perth
46-48 Banksia Road
Welshpool WA 6106
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Site # 23736

Newcastle
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Phone : +61 2 4968 8448

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Christchurch
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Phone : 0800 856 450
IANZ # 1290

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Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
105	TP200_0.4-0.5	Apr 09, 2021		Soil	S21-Ap22373				X											
106	TP213_0.3-0.4	Apr 09, 2021		Soil	S21-Ap22374				X											
107	BH221_0.3-0.4-0.5	Apr 09, 2021		Soil	S21-Ap22375				X											
108	TP200_0.0-0.4AQ	Apr 09, 2021		Soil	S21-Ap22376				X											
109	TP213_0.0-0.1	Apr 09, 2021		Soil	S21-Ap22377				X											
110	TP214_0.0-0.2	Apr 09, 2021		Soil	S21-Ap22378				X											
111	BH221_0.0-0.1	Apr 09, 2021		Soil	S21-Ap22379				X											
112	TP463_0.8-1.8	Apr 09, 2021		Soil	S21-Ap22380				X											
113	TP463_2.8-3.8AQ	Apr 09, 2021		Soil	S21-Ap22381				X											

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
114	TP464_0.0-1.0AQ	Apr 09, 2021		Soil	S21-Ap22382				X											
Test Counts						1	27	6	59	1	20	5	18	3	33	1	5	6	2	1

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 and proficiency testing scheme providers reports.

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention:	Ryan Lill
Report	786604-AID
Project Name	KEMPS CREEK DSI
Project ID	60482
Received Date	Apr 12, 2021
Date Reported	Apr 21, 2021

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.*

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 and proficiency testing scheme providers reports.

Project Name KEMPS CREEK DSI
Project ID 60482
Date Sampled Apr 09, 2021
Report 786604-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
TP201 0-0.2AQ	21-Ap17180	Apr 09, 2021	Approximate Sample 312g 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.
TP400 0-0.3	21-Ap17183	Apr 09, 2021	Approximate Sample 498g 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.
TP401 0-0.3	21-Ap17185	Apr 09, 2021	Approximate Sample 429g 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.
TP402 0-0.3	21-Ap17187	Apr 09, 2021	Approximate Sample 344g 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.
TP405 0-0.4	21-Ap17189	Apr 09, 2021	Approximate Sample 623g 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.
TP404 0-0.4	21-Ap17190	Apr 09, 2021	Approximate Sample 542g 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.
TP403 0-0.3	21-Ap17191	Apr 09, 2021	Approximate Sample 422g 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.
TP204 0-0.1	21-Ap17192	Apr 09, 2021	Approximate Sample 684g Sample consisted of: Brown coarse-grained soil, coal 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
TP464 1.6-2.3	21-Ap17203	Apr 09, 2021	Approximate Sample 464g 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.
TP453 0-0.9	21-Ap17204	Apr 09, 2021	Approximate Sample 319g 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.
TP462 2-3	21-Ap17205	Apr 09, 2021	Approximate Sample 487g 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.
TP463 0.8-1.8	21-Ap17206	Apr 09, 2021	Approximate Sample 48g / 60x40x5mm Sample consisted of: Grey compressed fibre cement material	Chrysotile asbestos detected.
TP463 2.8-3.8	21-Ap17207	Apr 09, 2021	Approximate Sample 488g 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.
TP448 0-0.3	21-Ap17209	Apr 09, 2021	Approximate Sample 378g 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.
BH434_0.0-0.15	21-Ap20355	Apr 09, 2021	Approximate Sample 436g 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.
BH435_0.0-0.1	21-Ap20356	Apr 09, 2021	Approximate Sample 451g 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.
BH436_0.0-0.15	21-Ap20357	Apr 09, 2021	Approximate Sample 362g 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.
BH437_0.0-0.2	21-Ap20358	Apr 09, 2021	Approximate Sample 531g 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.
BH438_0.0-0.2	21-Ap20360	Apr 09, 2021	Approximate Sample 385g 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.
BH439_0.0-0.15	21-Ap20361	Apr 09, 2021	Approximate Sample 353g 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.
BH440_0.0-0.2	21-Ap20362	Apr 09, 2021	Approximate Sample 373g 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
BH442_0.0-0.1	21-Ap20365	Apr 09, 2021	Approximate Sample 361g 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.
BH443_0.0-0.3	21-Ap20366	Apr 09, 2021	Approximate Sample 453g 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.
BH444_0.0-0.3	21-Ap20367	Apr 09, 2021	Approximate Sample 429g 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.
BH446_0.0-0.2	21-Ap20369	Apr 09, 2021	Approximate Sample 395g 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.
BH447_0.0-0.15	21-Ap20370	Apr 09, 2021	Approximate Sample 361g 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	Apr 14, 2021	Indefinite

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**															
1	BH273 0-0.2	Apr 09, 2021		Soil	S21-Ap17173							X		X	X					
2	BH273 0.4-0.5	Apr 09, 2021		Soil	S21-Ap17174	X				X	X		X		X	X				
3	BH274 0-0.2	Apr 09, 2021		Soil	S21-Ap17175								X		X					
4	BH275 0-0.2	Apr 09, 2021		Soil	S21-Ap17176						X	X	X		X					
5	BH276 0.4-0.5	Apr 09, 2021		Soil	S21-Ap17177										X				X	
6	BH293 0.6-0.7	Apr 09, 2021		Soil	S21-Ap17178						X		X		X					
7	TP215-1.7-1.8	Apr 09, 2021		Soil	S21-Ap17179						X				X			X		
8	TP201 0-0.2AQ	Apr 09, 2021		Soil	S21-Ap17180		X													

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
9	TP201 0-0.2	Apr 09, 2021		Soil	S21-Ap17181						X		X		X					
10	TP201 0.5-0.6	Apr 09, 2021		Soil	S21-Ap17182										X		X			
11	TP400 0-0.3	Apr 09, 2021		Soil	S21-Ap17183		X													
12	TP400 0-0.3	Apr 09, 2021		Soil	S21-Ap17184									X	X			X		
13	TP401 0-0.3	Apr 09, 2021		Soil	S21-Ap17185		X													
14	TP401 0-0.3	Apr 09, 2021		Soil	S21-Ap17186			X												
15	TP402 0-0.3	Apr 09, 2021		Soil	S21-Ap17187		X													
16	TP402 0-0.3	Apr 09, 2021		Soil	S21-Ap17188						X		X		X					
17	TP405 0-0.4	Apr 09, 2021		Soil	S21-Ap17189		X													
18	TP404 0-0.4	Apr 09, 2021		Soil	S21-Ap17190		X													
19	TP403 0-0.3	Apr 09, 2021		Soil	S21-Ap17191		X													

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
20	TP204 0-0.1	Apr 09, 2021		Soil	S21-Ap17192		X													
21	TP204 0-0.1	Apr 09, 2021		Soil	S21-Ap17193						X		X		X					
22	TP212 2.6-2.9	Apr 01, 2021		Soil	S21-Ap17194										X		X			
23	TP212 1-1.1	Apr 01, 2021		Soil	S21-Ap17195			X												
24	TP212 0.5-0.6	Apr 01, 2021		Soil	S21-Ap17196						X		X		X					
25	TP205 0-0.2	Apr 01, 2021		Soil	S21-Ap17197										X				X	
26	TRIP SPIKE	Apr 09, 2021		Water	S21-Ap17198			X												
27	TRIP BLANK	Apr 09, 2021		Water	S21-Ap17199			X												
28	TP220 0-0.1	Apr 07, 2021		Soil	S21-Ap17200							X	X		X					
29	TP222 0.4-0.5	Apr 07, 2021		Soil	S21-Ap17201						X	X			X					
30	TP227 0.4-0.5	Apr 07, 2021		Soil	S21-Ap17202						X	X	X		X					

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
31	TP464 1.6-2.3	Apr 09, 2021		Soil	S21-Ap17203		X													
32	TP453 0-0.9	Apr 09, 2021		Soil	S21-Ap17204		X													
33	TP462 2-3	Apr 09, 2021		Soil	S21-Ap17205		X													
34	TP463 0.8-1.8	Apr 09, 2021		Soil	S21-Ap17206		X													
35	TP463 2.8-3.8	Apr 09, 2021		Soil	S21-Ap17207		X													
36	TP463 4.3-4.4	Apr 09, 2021		Soil	S21-Ap17208						X		X		X					
37	TP448 0-0.3	Apr 09, 2021		Soil	S21-Ap17209		X													
38	TP211 0-0.1	Apr 09, 2021		Soil	S21-Ap17210						X		X		X					
39	BH274 0.4-0.5	Apr 09, 2021		Soil	S21-Ap17211				X											
40	BH275 0.4-0.5	Apr 09, 2021		Soil	S21-Ap17212				X											
41	BH276 0-0.2	Apr 09, 2021		Soil	S21-Ap17213				X											

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
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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Phone : +61 7 3902 4600
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Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
42	BH273 0-0.2	Apr 09, 2021		Soil	S21-Ap17214				X											
43	TP214-0-0.1	Apr 09, 2021		Soil	S21-Ap17215				X											
44	TP214-0.4-0.5	Apr 09, 2021		Soil	S21-Ap17216				X											
45	TP215-0-0.1	Apr 09, 2021		Soil	S21-Ap17217				X											
46	TP215-0.4-0.5	Apr 09, 2021		Soil	S21-Ap17218				X											
47	TP215-1-1	Apr 09, 2021		Soil	S21-Ap17219				X											
48	TP219-0-0.1	Apr 09, 2021		Soil	S21-Ap17220				X											
49	TP219-0.4-0.5	Apr 09, 2021		Soil	S21-Ap17221				X											
50	TP400 0.4-0.6	Apr 09, 2021		Soil	S21-Ap17222				X											
51	TP401 0.4-0.6	Apr 09, 2021		Soil	S21-Ap17223				X											
52	TP402 0.4-0.6	Apr 09, 2021		Soil	S21-Ap17224				X											

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

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Unit F3, Building F
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Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
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PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
53	TP458 0-0.9	Apr 09, 2021		Soil	S21-Ap17225				X											
54	TP204 0.4-0.5	Apr 09, 2021		Soil	S21-Ap17226				X											
55	TP212 1-1.1	Apr 01, 2021		Soil	S21-Ap17227			X												
56	TP212 1-1.1	Apr 01, 2021		Soil	S21-Ap17228				X											
57	TP212 2-2.1	Apr 01, 2021		Soil	S21-Ap17229				X											
58	TP212 0-0.1	Apr 01, 2021		Soil	S21-Ap17230				X											
59	TP205 0.4-0.5	Apr 01, 2021		Soil	S21-Ap17231				X											
60	TP220 0.4-0.5	Apr 07, 2021		Soil	S21-Ap17232				X											
61	TP226 0.1-0.2	Apr 07, 2021		Soil	S21-Ap17233				X											
62	TP226 0.4-0.5	Apr 07, 2021		Soil	S21-Ap17234				X											
63	TP222 0.1-0.2	Apr 07, 2021		Soil	S21-Ap17235				X											

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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
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Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
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Site # 23736

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Rolleston, Christchurch 7675
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IANZ # 1290

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Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
64	TP227 0-0.1	Apr 07, 2021		Soil	S21-Ap17236				X											
65	TP464 1-1.6	Apr 09, 2021		Soil	S21-Ap17237				X											
66	TP464 2.3-2.4	Apr 09, 2021		Soil	S21-Ap17238				X											
67	TP462 0-1	Apr 09, 2021		Soil	S21-Ap17239				X											
68	TP462 1-2	Apr 09, 2021		Soil	S21-Ap17240				X											
69	TP462 3-3.8	Apr 09, 2021		Soil	S21-Ap17241				X											
70	TP463 0-0.8	Apr 09, 2021		Soil	S21-Ap17242				X											
71	TP463 1.8-2.8	Apr 09, 2021		Soil	S21-Ap17243				X											
72	TP463 3.8-4.2	Apr 09, 2021		Soil	S21-Ap17244				X											
73	TP463 4.2-4.7	Apr 09, 2021		Soil	S21-Ap17245				X											
74	TP211 0.6-0.7	Apr 09, 2021		Soil	S21-Ap17246				X											

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Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

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1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

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35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
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Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
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IANZ # 1290

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Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
75	TP212 0.5-0.6	Apr 09, 2021		Soil	S21-Ap17247				X											
76	TP212 0-0.01	Apr 09, 2021		Soil	S21-Ap17248				X											
77	BH434_0.0-0.15	Apr 09, 2021		Soil	S21-Ap20355		X				X		X		X					
78	BH435_0.0-0.1	Apr 09, 2021		Soil	S21-Ap20356		X								X			X		
79	BH436_0.0-0.15	Apr 09, 2021		Soil	S21-Ap20357		X				X				X			X		
80	BH437_0.0-0.2	Apr 09, 2021		Soil	S21-Ap20358		X				X		X		X					
81	BH437_0.3-0.4	Apr 09, 2021		Soil	S21-Ap20359										X			X		
82	BH438_0.0-0.2	Apr 09, 2021		Soil	S21-Ap20360		X													
83	BH439_0.0-0.15	Apr 09, 2021		Soil	S21-Ap20361		X													

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Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
84	BH440_0.0-0.2	Apr 09, 2021		Soil	S21-Ap20362		X				X				X			X		
85	BH440_0.4-0.5	Apr 09, 2021		Soil	S21-Ap20363								X		X					
86	BH441_0.0-0.2	Apr 09, 2021		Soil	S21-Ap20364						X		X		X					
87	BH442_0.0-0.1	Apr 09, 2021		Soil	S21-Ap20365		X				X		X	X	X					
88	BH443_0.0-0.3	Apr 09, 2021		Soil	S21-Ap20366		X								X					X
89	BH444_0.0-0.3	Apr 09, 2021		Soil	S21-Ap20367		X													
90	BH445_0.4-0.6	Apr 09, 2021		Soil	S21-Ap20368										X		X			
91	BH446_0.0-0.2	Apr 09, 2021		Soil	S21-Ap20369		X				X				X					
92	BH447_0.0-0.15	Apr 09, 2021		Soil	S21-Ap20370		X				X		X		X					
93	BH434_0.2-0.3	Apr 09, 2021		Soil	S21-Ap20371				X											

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Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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
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Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
94	BH435_0.3-0.4	Apr 09, 2021		Soil	S21-Ap20372				X											
95	BH436_0.2-0.3	Apr 09, 2021		Soil	S21-Ap20373				X											
96	BH438_0.2-0.4	Apr 09, 2021		Soil	S21-Ap20374				X											
97	BH439_0.2-0.4	Apr 09, 2021		Soil	S21-Ap20375				X											
98	BH441_0.3-0.4	Apr 09, 2021		Soil	S21-Ap20376				X											
99	BH442_0.3-0.4	Apr 09, 2021		Soil	S21-Ap20377				X											
100	BH443_0.5-0.6	Apr 09, 2021		Soil	S21-Ap20378				X											
101	BH444_0.5-0.6	Apr 09, 2021		Soil	S21-Ap20379				X											
102	BH446_0.3-0.6	Apr 09, 2021		Soil	S21-Ap20380				X											
103	BH447_0.2-0.4	Apr 09, 2021		Soil	S21-Ap20381				X											
104	BH445_0.0-0.2	Apr 09, 2021		Soil	S21-Ap20549				X											

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Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
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NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
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Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
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Site # 23736

Newcastle
4/52 Industrial Drive
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Phone : +61 2 4968 8448

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Address: Level 1, 50 Margaret St
Sydney
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Project Name: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
105	TP200_0.4-0.5	Apr 09, 2021		Soil	S21-Ap22373				X											
106	TP213_0.3-0.4	Apr 09, 2021		Soil	S21-Ap22374				X											
107	BH221_0.3-0.4-0.5	Apr 09, 2021		Soil	S21-Ap22375				X											
108	TP200_0.0-0.4AQ	Apr 09, 2021		Soil	S21-Ap22376				X											
109	TP213_0.0-0.1	Apr 09, 2021		Soil	S21-Ap22377				X											
110	TP214_0.0-0.2	Apr 09, 2021		Soil	S21-Ap22378				X											
111	BH221_0.0-0.1	Apr 09, 2021		Soil	S21-Ap22379				X											
112	TP463_0.8-1.8	Apr 09, 2021		Soil	S21-Ap22380				X											
113	TP463_2.8-3.8AQ	Apr 09, 2021		Soil	S21-Ap22381				X											

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Australia

Melbourne
6 Monterey Road
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Sydney
NSW 2000

Project Name: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
114	TP464_0.0-1.0AQ	Apr 09, 2021		Soil	S21-Ap22382				X											
Test Counts						1	26	7	59	1	20	5	18	3	33	1	5	6	2	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 blue colour, 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 '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 Advice.

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: weight for weight basis	grams per kilogram
Filter loading:	fibres/100 graticule areas
Reported Concentration:	fibres/mL
Flowrate:	L/min

Terms

Dry	Sample is dried by heating prior to analysis
LOR	Limit of Reporting
COC	Chain of Custody
SRA	Sample Receipt Advice
ISO	International Standards Organisation
AS	Australian Standards
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 (2009), including supporting document Recommended Procedures for Laboratory Analysis of Asbestos in Soil (2011)
NEPM	National Environment Protection (Assessment of Site Contamination) Measure, 2013 (as amended)
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded and/or sound condition. For the purposes of the NEPM, ACM is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
AF	Asbestos Fines. Asbestos containing materials, including friable, weathered and bonded materials, able to pass a 7mm x 7mm sieve. Considered under the NEPM as equivalent to “non-bonded / friable”.
FA	Fibrous Asbestos. Asbestos containing materials in a friable and/or severely weathered condition. For the purposes of the NEPM, FA is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
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.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres in the matrix.

Comments

Ap17180 to Ap17187, Ap17190,Ap17191, Ap17203 to Ap20357, Ap20360 o Ap20370: 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	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
N/A	Not applicable

Asbestos Counter/Identifier:

Chamath JHM Annakkage	Senior Analyst-Asbestos (NSW)

Authorised by:

Sayeed Abu	Senior Analyst-Asbestos (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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JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

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 and proficiency testing scheme providers reports.

Attention: **Ryan Lill**

Report **786604-S**
Project name KEMPS CREEK DSI
Project ID 60482
Received Date Apr 12, 2021

Client Sample ID			**BH273 0-0.2**	**BH273 0.4-0.5**	**BH274 0-0.2**	**BH275 0-0.2**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**S21-Ap17173**	**S21-Ap17174**	**S21-Ap17175**	**S21-Ap17176**
Date Sampled			**Apr 09, 2021**	**Apr 09, 2021**	**Apr 09, 2021**	**Apr 09, 2021**
Test/Reference	LOR	Unit				
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	0.08	-	-	-
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	0.1	mg/kg	< 0.1	-	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	0.08	-	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2	-	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2	-	-	-
Dibutylchlorendate (surr.)	1	%	75	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	90	-	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1221	0.1	mg/kg	< 0.1	-	-	-
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	-	-	-

Client Sample ID			BH273 0-0.2	BH273 0.4-0.5	BH274 0-0.2	BH275 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17173	S21-Ap17174	S21-Ap17175	S21-Ap17176
Date Sampled			Apr 09, 2021	Apr 09, 2021	Apr 09, 2021	Apr 09, 2021
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Total PCB*	0.5	mg/kg	< 0.5	-	-	-
Dibutylchlorendate (surr.)	1	%	75	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	90	-	-	-
Acid Herbicides						
2.4-D	0.5	mg/kg	< 0.5	-	-	< 0.5
2.4-DB	0.5	mg/kg	< 0.5	-	-	< 0.5
2.4.5-T	0.5	mg/kg	< 0.5	-	-	< 0.5
2.4.5-TP	0.5	mg/kg	< 0.5	-	-	< 0.5
Actril (loxynil)	0.5	mg/kg	< 0.5	-	-	< 0.5
Dicamba	0.5	mg/kg	< 0.5	-	-	< 0.5
Dichlorprop	0.5	mg/kg	< 0.5	-	-	< 0.5
Dinitro-o-cresol	0.5	mg/kg	< 0.5	-	-	< 0.5
Dinoseb	0.5	mg/kg	< 0.5	-	-	< 0.5
MCPA	0.5	mg/kg	< 0.5	-	-	< 0.5
MCPB	0.5	mg/kg	< 0.5	-	-	< 0.5
Mecoprop	0.5	mg/kg	< 0.5	-	-	< 0.5
Warfarin (surr.)	1	%	61	-	-	64
% Moisture	1	%	20	18	17	19
% Clay	1	%	-	37	-	-
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	-	70	-	-
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	-	5.7	-	-
Polycyclic Aromatic Hydrocarbons						
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
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
2-Fluorobiphenyl (surr.)	1	%	-	80	-	79
p-Terphenyl-d14 (surr.)	1	%	-	98	-	99

Client Sample ID			BH273 0-0.2	BH273 0.4-0.5	BH274 0-0.2	BH275 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17173	S21-Ap17174	S21-Ap17175	S21-Ap17176
Date Sampled			Apr 09, 2021	Apr 09, 2021	Apr 09, 2021	Apr 09, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	-	6.8	11	11
Cadmium	0.4	mg/kg	-	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	-	20	36	28
Copper	5	mg/kg	-	18	30	41
Lead	5	mg/kg	-	14	26	17
Mercury	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	-	< 5	15	8.7
Zinc	5	mg/kg	-	19	62	58
Cation Exchange Capacity						
Cation Exchange Capacity	0.05	meq/100g	-	56	-	-

Client Sample ID			BH276 0.4-0.5	BH293 0.6-0.7	TP215-1.7-1.8	TP201 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17177	S21-Ap17178	S21-Ap17179	S21-Ap17181
Date Sampled			Apr 09, 2021	Apr 09, 2021	Apr 09, 2021	Apr 09, 2021
Test/Reference	LOR	Unit				
% Moisture	1	%	21	16	15	22
Polycyclic Aromatic Hydrocarbons						
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
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
2-Fluorobiphenyl (surr.)	1	%	-	75	77	80
p-Terphenyl-d14 (surr.)	1	%	-	96	99	101
Heavy Metals						
Arsenic	2	mg/kg	14	11	-	7.7
Cadmium	0.4	mg/kg	< 0.4	< 0.4	-	< 0.4
Chromium	5	mg/kg	29	25	-	21
Copper	5	mg/kg	24	21	-	27
Lead	5	mg/kg	18	25	-	19
Mercury	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1

Client Sample ID			BH276 0.4-0.5	BH293 0.6-0.7	TP215-1.7-1.8	TP201 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17177	S21-Ap17178	S21-Ap17179	S21-Ap17181
Date Sampled			Apr 09, 2021	Apr 09, 2021	Apr 09, 2021	Apr 09, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Nickel	5	mg/kg	8.4	11	-	21
Zinc	5	mg/kg	37	39	-	68
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-C36 (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	%	INT	-	110	-
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	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	< 100	-

Client Sample ID			TP201 0.5-0.6	TP400 0-0.3	TP402 0-0.3	TP204 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17182	S21-Ap17184	S21-Ap17188	S21-Ap17193
Date Sampled			Apr 09, 2021	Apr 09, 2021	Apr 09, 2021	Apr 09, 2021
Test/Reference	LOR	Unit				
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	-	-

Client Sample ID			TP201 0.5-0.6	TP400 0-0.3	TP402 0-0.3	TP204 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17182	S21-Ap17184	S21-Ap17188	S21-Ap17193
Date Sampled			Apr 09, 2021	Apr 09, 2021	Apr 09, 2021	Apr 09, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
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	0.1	mg/kg	-	< 0.1	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.2	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.2	-	-
Dibutylchlorendate (surr.)	1	%	-	82	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	95	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	< 0.5	-	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	-
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	%	-	82	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	95	-	-
% Moisture	1	%	20	22	22	8.6
Polycyclic Aromatic Hydrocarbons						
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
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
2-Fluorobiphenyl (surr.)	1	%	76	-	83	93
p-Terphenyl-d14 (surr.)	1	%	93	-	101	104

Client Sample ID			TP201 0.5-0.6	TP400 0-0.3	TP402 0-0.3	TP204 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17182	S21-Ap17184	S21-Ap17188	S21-Ap17193
Date Sampled			Apr 09, 2021	Apr 09, 2021	Apr 09, 2021	Apr 09, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	2.7	-	8.6	< 2
Cadmium	0.4	mg/kg	< 0.4	-	< 0.4	< 0.4
Chromium	5	mg/kg	18	-	22	14
Copper	5	mg/kg	34	-	31	33
Lead	5	mg/kg	13	-	29	8.4
Mercury	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Nickel	5	mg/kg	20	-	23	16
Zinc	5	mg/kg	72	-	74	51
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-C36 (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	%	108	101	-	-
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	-	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	-	-

Client Sample ID			TP212 2.6-2.9	TP212 0.5-0.6	TP205 0-0.2	TP220 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17194	S21-Ap17196	S21-Ap17197	S21-Ap17200
Date Sampled			Apr 01, 2021	Apr 01, 2021	Apr 01, 2021	Apr 07, 2021
Test/Reference	LOR	Unit				
Acid Herbicides						
2.4-D	0.5	mg/kg	-	-	-	< 0.5
2.4-DB	0.5	mg/kg	-	-	-	< 0.5
2.4.5-T	0.5	mg/kg	-	-	-	< 0.5
2.4.5-TP	0.5	mg/kg	-	-	-	< 0.5
Actril (loxynil)	0.5	mg/kg	-	-	-	< 0.5
Dicamba	0.5	mg/kg	-	-	-	< 0.5
Dichlorprop	0.5	mg/kg	-	-	-	< 0.5
Dinitro-o-cresol	0.5	mg/kg	-	-	-	< 0.5
Dinoseb	0.5	mg/kg	-	-	-	< 0.5
MCPA	0.5	mg/kg	-	-	-	< 0.5

Client Sample ID			TP212 2.6-2.9	TP212 0.5-0.6	TP205 0-0.2	TP220 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17194	S21-Ap17196	S21-Ap17197	S21-Ap17200
Date Sampled			Apr 01, 2021	Apr 01, 2021	Apr 01, 2021	Apr 07, 2021
Test/Reference	LOR	Unit				
Acid Herbicides						
MCPB	0.5	mg/kg	-	-	-	< 0.5
Mecoprop	0.5	mg/kg	-	-	-	< 0.5
Warfarin (surr.)	1	%	-	-	-	67
% Moisture	1	%	14	18	8.3	18
Polycyclic Aromatic Hydrocarbons						
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	-	-
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	-	-
2-Fluorobiphenyl (surr.)	1	%	85	82	-	-
p-Terphenyl-d14 (surr.)	1	%	98	96	-	-
Heavy Metals						
Arsenic	2	mg/kg	9.2	8.8	9.7	23
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	20	25	19	44
Copper	5	mg/kg	34	32	28	64
Lead	5	mg/kg	17	42	33	37
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	21	17	19	25
Zinc	5	mg/kg	67	82	76	110
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-C36 (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	-

Client Sample ID			TP212 2.6-2.9	TP212 0.5-0.6	TP205 0-0.2	TP220 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17194	S21-Ap17196	S21-Ap17197	S21-Ap17200
Date Sampled			Apr 01, 2021	Apr 01, 2021	Apr 01, 2021	Apr 07, 2021
Test/Reference	LOR	Unit				
BTEX						
Xylenes - Total*	0.3	mg/kg	< 0.3	-	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	101	-	106	-
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	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	< 100	-

Client Sample ID			TP222 0.4-0.5	TP227 0.4-0.5	TP463 4.3-4.4	TP211 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17201	S21-Ap17202	S21-Ap17208	S21-Ap17210
Date Sampled			Apr 07, 2021	Apr 07, 2021	Apr 09, 2021	Apr 09, 2021
Test/Reference	LOR	Unit				
Acid Herbicides						
2.4-D	0.5	mg/kg	< 0.5	< 0.5	-	-
2.4-DB	0.5	mg/kg	< 0.5	< 0.5	-	-
2.4.5-T	0.5	mg/kg	< 0.5	< 0.5	-	-
2.4.5-TP	0.5	mg/kg	< 0.5	< 0.5	-	-
Actril (loxynil)	0.5	mg/kg	< 0.5	< 0.5	-	-
Dicamba	0.5	mg/kg	< 0.5	< 0.5	-	-
Dichlorprop	0.5	mg/kg	< 0.5	< 0.5	-	-
Dinitro-o-cresol	0.5	mg/kg	< 0.5	< 0.5	-	-
Dinoseb	0.5	mg/kg	< 0.5	< 0.5	-	-
MCPA	0.5	mg/kg	< 0.5	< 0.5	-	-
MCPB	0.5	mg/kg	< 0.5	< 0.5	-	-
Mecoprop	0.5	mg/kg	< 0.5	< 0.5	-	-
Warfarin (surr.)	1	%	61	77	-	-
% Moisture	1	%	29	19	20	11
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

Client Sample ID			TP222 0.4-0.5	TP227 0.4-0.5	TP463 4.3-4.4	TP211 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17201	S21-Ap17202	S21-Ap17208	S21-Ap17210
Date Sampled			Apr 07, 2021	Apr 07, 2021	Apr 09, 2021	Apr 09, 2021
Test/Reference	LOR	Unit				
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
2-Fluorobiphenyl (surr.)	1	%	84	88	85	84
p-Terphenyl-d14 (surr.)	1	%	100	99	99	99
Heavy Metals						
Arsenic	2	mg/kg	-	11	14	9.0
Cadmium	0.4	mg/kg	-	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	-	20	23	19
Copper	5	mg/kg	-	31	59	28
Lead	5	mg/kg	-	16	23	42
Mercury	0.1	mg/kg	-	< 0.1	< 0.1	0.2
Nickel	5	mg/kg	-	10	29	12
Zinc	5	mg/kg	-	45	110	120

Client Sample ID			BH434_0.0-0.15	BH435_0.0-0.1	BH436_0.0-0.15	BH437_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap20355	S21-Ap20356	S21-Ap20357	S21-Ap20358
Date Sampled			Apr 09, 2021	Apr 09, 2021	Apr 09, 2021	Apr 09, 2021
Test/Reference	LOR	Unit				
% Moisture	1	%	18	25	21	18
Polycyclic Aromatic Hydrocarbons						
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
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
2-Fluorobiphenyl (surr.)	1	%	84	-	81	76
p-Terphenyl-d14 (surr.)	1	%	96	-	97	93

Client Sample ID			BH434_0.0-0.15	BH435_0.0-0.1	BH436_0.0-0.15	BH437_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap20355	S21-Ap20356	S21-Ap20357	S21-Ap20358
Date Sampled			Apr 09, 2021	Apr 09, 2021	Apr 09, 2021	Apr 09, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	7.7	-	-	8.1
Cadmium	0.4	mg/kg	< 0.4	-	-	< 0.4
Chromium	5	mg/kg	19	-	-	22
Copper	5	mg/kg	36	-	-	43
Lead	5	mg/kg	19	-	-	22
Mercury	0.1	mg/kg	< 0.1	-	-	< 0.1
Nickel	5	mg/kg	13	-	-	16
Zinc	5	mg/kg	83	-	-	99
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-C36 (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	%	-	90	104	-
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	-
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	< 100	-

Client Sample ID			BH437_0.3-0.4	BH440_0.0-0.2	BH440_0.4-0.5	BH441_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap20359	S21-Ap20362	S21-Ap20363	S21-Ap20364
Date Sampled			Apr 09, 2021	Apr 09, 2021	Apr 09, 2021	Apr 09, 2021
Test/Reference	LOR	Unit				
% Moisture	1	%	17	28	17	22
Polycyclic Aromatic Hydrocarbons						
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
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

Client Sample ID			BH437_0.3-0.4	BH440_0.0-0.2	BH440_0.4-0.5	BH441_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap20359	S21-Ap20362	S21-Ap20363	S21-Ap20364
Date Sampled			Apr 09, 2021	Apr 09, 2021	Apr 09, 2021	Apr 09, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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
2-Fluorobiphenyl (surr.)	1	%	-	82	-	83
p-Terphenyl-d14 (surr.)	1	%	-	97	-	102
Heavy Metals						
Arsenic	2	mg/kg	-	-	9.3	9.2
Cadmium	0.4	mg/kg	-	-	< 0.4	< 0.4
Chromium	5	mg/kg	-	-	21	22
Copper	5	mg/kg	-	-	41	42
Lead	5	mg/kg	-	-	23	25
Mercury	0.1	mg/kg	-	-	< 0.1	< 0.1
Nickel	5	mg/kg	-	-	15	16
Zinc	5	mg/kg	-	-	92	94
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-C36 (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	%	79	103	-	-
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	-	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	-	-

Client Sample ID			BH442_0.0-0.1	BH443_0.0-0.3	BH445_0.4-0.6	BH446_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap20365	S21-Ap20366	S21-Ap20368	S21-Ap20369
Date Sampled			Apr 09, 2021	Apr 09, 2021	Apr 09, 2021	Apr 09, 2021
Test/Reference	LOR	Unit				
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	0.1	mg/kg	< 0.1	-	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2	-	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2	-	-	-
Dibutylchlorendate (surr.)	1	%	72	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	92	-	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1221	0.1	mg/kg	< 0.1	-	-	-
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	%	72	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	92	-	-	-
% Moisture	1	%	24	20	20	22
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

Client Sample ID			BH442_0.0-0.1	BH443_0.0-0.3	BH445_0.4-0.6	BH446_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap20365	S21-Ap20366	S21-Ap20368	S21-Ap20369
Date Sampled			Apr 09, 2021	Apr 09, 2021	Apr 09, 2021	Apr 09, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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	%	93	86	82	85
p-Terphenyl-d14 (surr.)	1	%	87	79	91	100
Heavy Metals						
Arsenic	2	mg/kg	5.5	5.4	7.5	-
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	-
Chromium	5	mg/kg	15	13	24	-
Copper	5	mg/kg	24	28	38	-
Lead	5	mg/kg	16	15	21	-
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Nickel	5	mg/kg	11	9.9	16	-
Zinc	5	mg/kg	46	64	73	-
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-C36 (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	%	-	64	101	-
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	-
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	< 100	-

Client Sample ID			BH442_0.0-0.1	BH443_0.0-0.3	BH445_0.4-0.6	BH446_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap20365	S21-Ap20366	S21-Ap20368	S21-Ap20369
Date Sampled			Apr 09, 2021	Apr 09, 2021	Apr 09, 2021	Apr 09, 2021
Test/Reference	LOR	Unit				
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	-	< 0.5	-	-
2.4-Dichlorophenol	0.5	mg/kg	-	< 0.5	-	-
2.4.5-Trichlorophenol	1	mg/kg	-	< 1	-	-
2.4.6-Trichlorophenol	1	mg/kg	-	< 1	-	-
2.6-Dichlorophenol	0.5	mg/kg	-	< 0.5	-	-
4-Chloro-3-methylphenol	1	mg/kg	-	< 1	-	-
Pentachlorophenol	1	mg/kg	-	< 1	-	-
Tetrachlorophenols - Total	10	mg/kg	-	< 10	-	-
Total Halogenated Phenol*	1	mg/kg	-	< 1	-	-
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	-	< 20	-	-
2-Methyl-4.6-dinitrophenol	5	mg/kg	-	< 5	-	-
2-Methylphenol (o-Cresol)	0.2	mg/kg	-	< 0.2	-	-
2-Nitrophenol	1	mg/kg	-	< 1	-	-
2.4-Dimethylphenol	0.5	mg/kg	-	< 0.5	-	-
2.4-Dinitrophenol	5	mg/kg	-	< 5	-	-
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	-	< 0.4	-	-
4-Nitrophenol	5	mg/kg	-	< 5	-	-
Dinoseb	20	mg/kg	-	< 20	-	-
Phenol	0.5	mg/kg	-	< 0.5	-	-
Total Non-Halogenated Phenol*	20	mg/kg	-	< 20	-	-
Phenol-d6 (surr.)	1	%	-	58	-	-

Client Sample ID			BH447_0.0-0.15
Sample Matrix			Soil
Eurofins Sample No.			S21-Ap20370
Date Sampled			Apr 09, 2021
Test/Reference	LOR	Unit	
% Moisture	1	%	24
Polycyclic Aromatic Hydrocarbons			
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
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

Client Sample ID			BH447_0.0-0.15
Sample Matrix			**Soil**
Eurofins Sample No.			**S21-Ap20370**
Date Sampled			**Apr 09, 2021**
Test/Reference	LOR	Unit	
Polycyclic Aromatic Hydrocarbons			
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
2-Fluorobiphenyl (surr.)	1	%	87
p-Terphenyl-d14 (surr.)	1	%	97
Heavy Metals			
Arsenic	2	mg/kg	7.4
Cadmium	0.4	mg/kg	< 0.4
Chromium	5	mg/kg	23
Copper	5	mg/kg	32
Lead	5	mg/kg	20
Mercury	0.1	mg/kg	< 0.1
Nickel	5	mg/kg	13
Zinc	5	mg/kg	58

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
Organochlorine Pesticides	Sydney	Apr 17, 2021	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Polychlorinated Biphenyls	Sydney	Apr 17, 2021	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Acid Herbicides	Melbourne	Apr 16, 2021	14 Days
- Method: LTM-ORG-2180 Phenoxy Acid Herbicides			
% Clay	Brisbane	Apr 19, 2021	14 Days
- Method: LTM-GEN-7040			
pH (1:5 Aqueous extract at 25°C as rec.)	Sydney	Apr 17, 2021	7 Days
- Method: LTM-GEN-7090 pH in soil by ISE			
% Moisture	Sydney	Apr 14, 2021	14 Days
- Method: LTM-GEN-7080 Moisture			
Conductivity (1:5 aqueous extract at 25°C as rec.)	Sydney	Apr 17, 2021	7 Days
- Method: LTM-INO-4030 Conductivity			
Cation Exchange Capacity	Melbourne	Apr 20, 2021	180 Days
- Method: LTM-MET-3060 Cation Exchange Capacity by bases & Exchangeable Sodium Percentage			
Polycyclic Aromatic Hydrocarbons	Sydney	Apr 17, 2021	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Metals M8	Sydney	Apr 17, 2021	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Apr 17, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Apr 17, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Apr 17, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Apr 17, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Phenols (Halogenated)	Sydney	Apr 17, 2021	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Phenols (non-Halogenated)	Sydney	Apr 17, 2021	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			

eurofins | Environment Testing

ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**															
1	BH273 0-0.2	Apr 09, 2021		Soil	S21-Ap17173							X		X	X					
2	BH273 0.4-0.5	Apr 09, 2021		Soil	S21-Ap17174	X				X	X		X		X	X				
3	BH274 0-0.2	Apr 09, 2021		Soil	S21-Ap17175								X		X					
4	BH275 0-0.2	Apr 09, 2021		Soil	S21-Ap17176						X	X	X		X					
5	BH276 0.4-0.5	Apr 09, 2021		Soil	S21-Ap17177										X				X	
6	BH293 0.6-0.7	Apr 09, 2021		Soil	S21-Ap17178						X		X		X					
7	TP215-1.7-1.8	Apr 09, 2021		Soil	S21-Ap17179						X				X			X		
8	TP201 0-0.2AQ	Apr 09, 2021		Soil	S21-Ap17180		X													

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
9	TP201 0-0.2	Apr 09, 2021		Soil	S21-Ap17181						X		X		X					
10	TP201 0.5-0.6	Apr 09, 2021		Soil	S21-Ap17182										X		X			
11	TP400 0-0.3	Apr 09, 2021		Soil	S21-Ap17183		X													
12	TP400 0-0.3	Apr 09, 2021		Soil	S21-Ap17184									X	X			X		
13	TP401 0-0.3	Apr 09, 2021		Soil	S21-Ap17185		X													
14	TP401 0-0.3	Apr 09, 2021		Soil	S21-Ap17186			X												
15	TP402 0-0.3	Apr 09, 2021		Soil	S21-Ap17187		X													
16	TP402 0-0.3	Apr 09, 2021		Soil	S21-Ap17188						X		X		X					
17	TP405 0-0.4	Apr 09, 2021		Soil	S21-Ap17189		X													
18	TP404 0-0.4	Apr 09, 2021		Soil	S21-Ap17190		X													
19	TP403 0-0.3	Apr 09, 2021		Soil	S21-Ap17191		X													

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
20	TP204 0-0.1	Apr 09, 2021		Soil	S21-Ap17192		X													
21	TP204 0-0.1	Apr 09, 2021		Soil	S21-Ap17193						X		X		X					
22	TP212 2.6-2.9	Apr 01, 2021		Soil	S21-Ap17194										X		X			
23	TP212 1-1.1	Apr 01, 2021		Soil	S21-Ap17195		X													
24	TP212 0.5-0.6	Apr 01, 2021		Soil	S21-Ap17196						X		X		X					
25	TP205 0-0.2	Apr 01, 2021		Soil	S21-Ap17197										X				X	
26	TRIP SPIKE	Apr 09, 2021		Water	S21-Ap17198			X												
27	TRIP BLANK	Apr 09, 2021		Water	S21-Ap17199			X												
28	TP220 0-0.1	Apr 07, 2021		Soil	S21-Ap17200							X	X		X					
29	TP222 0.4-0.5	Apr 07, 2021		Soil	S21-Ap17201						X	X			X					
30	TP227 0.4-0.5	Apr 07, 2021		Soil	S21-Ap17202						X	X	X		X					

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
31	TP464 1.6-2.3	Apr 09, 2021		Soil	S21-Ap17203		X													
32	TP453 0-0.9	Apr 09, 2021		Soil	S21-Ap17204		X													
33	TP462 2-3	Apr 09, 2021		Soil	S21-Ap17205		X													
34	TP463 0.8-1.8	Apr 09, 2021		Soil	S21-Ap17206		X													
35	TP463 2.8-3.8	Apr 09, 2021		Soil	S21-Ap17207		X													
36	TP463 4.3-4.4	Apr 09, 2021		Soil	S21-Ap17208						X		X		X					
37	TP448 0-0.3	Apr 09, 2021		Soil	S21-Ap17209		X													
38	TP211 0-0.1	Apr 09, 2021		Soil	S21-Ap17210						X		X		X					
39	BH274 0.4-0.5	Apr 09, 2021		Soil	S21-Ap17211				X											
40	BH275 0.4-0.5	Apr 09, 2021		Soil	S21-Ap17212				X											
41	BH276 0-0.2	Apr 09, 2021		Soil	S21-Ap17213				X											

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
42	BH273 0-0.2	Apr 09, 2021		Soil	S21-Ap17214				X											
43	TP214-0-0.1	Apr 09, 2021		Soil	S21-Ap17215				X											
44	TP214-0.4-0.5	Apr 09, 2021		Soil	S21-Ap17216				X											
45	TP215-0-0.1	Apr 09, 2021		Soil	S21-Ap17217				X											
46	TP215-0.4-0.5	Apr 09, 2021		Soil	S21-Ap17218				X											
47	TP215-1-1	Apr 09, 2021		Soil	S21-Ap17219				X											
48	TP219-0-0.1	Apr 09, 2021		Soil	S21-Ap17220				X											
49	TP219-0.4-0.5	Apr 09, 2021		Soil	S21-Ap17221				X											
50	TP400 0.4-0.6	Apr 09, 2021		Soil	S21-Ap17222				X											
51	TP401 0.4-0.6	Apr 09, 2021		Soil	S21-Ap17223				X											
52	TP402 0.4-0.6	Apr 09, 2021		Soil	S21-Ap17224				X											

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
53	TP458 0-0.9	Apr 09, 2021		Soil	S21-Ap17225				X											
54	TP204 0.4-0.5	Apr 09, 2021		Soil	S21-Ap17226				X											
55	TP212 1-1.1	Apr 01, 2021		Soil	S21-Ap17227			X												
56	TP212 1-1.1	Apr 01, 2021		Soil	S21-Ap17228				X											
57	TP212 2-2.1	Apr 01, 2021		Soil	S21-Ap17229				X											
58	TP212 0-0.1	Apr 01, 2021		Soil	S21-Ap17230				X											
59	TP205 0.4-0.5	Apr 01, 2021		Soil	S21-Ap17231				X											
60	TP220 0.4-0.5	Apr 07, 2021		Soil	S21-Ap17232				X											
61	TP226 0.1-0.2	Apr 07, 2021		Soil	S21-Ap17233				X											
62	TP226 0.4-0.5	Apr 07, 2021		Soil	S21-Ap17234				X											
63	TP222 0.1-0.2	Apr 07, 2021		Soil	S21-Ap17235				X											

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Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
64	TP227 0-0.1	Apr 07, 2021		Soil	S21-Ap17236				X											
65	TP464 1-1.6	Apr 09, 2021		Soil	S21-Ap17237				X											
66	TP464 2.3-2.4	Apr 09, 2021		Soil	S21-Ap17238				X											
67	TP462 0-1	Apr 09, 2021		Soil	S21-Ap17239				X											
68	TP462 1-2	Apr 09, 2021		Soil	S21-Ap17240				X											
69	TP462 3-3.8	Apr 09, 2021		Soil	S21-Ap17241				X											
70	TP463 0-0.8	Apr 09, 2021		Soil	S21-Ap17242				X											
71	TP463 1.8-2.8	Apr 09, 2021		Soil	S21-Ap17243				X											
72	TP463 3.8-4.2	Apr 09, 2021		Soil	S21-Ap17244				X											
73	TP463 4.2-4.7	Apr 09, 2021		Soil	S21-Ap17245				X											
74	TP211 0.6-0.7	Apr 09, 2021		Soil	S21-Ap17246				X											

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
75	TP212 0.5-0.6	Apr 09, 2021		Soil	S21-Ap17247				X											
76	TP212 0-0.01	Apr 09, 2021		Soil	S21-Ap17248				X											
77	BH434_0.0-0.15	Apr 09, 2021		Soil	S21-Ap20355		X				X		X		X					
78	BH435_0.0-0.1	Apr 09, 2021		Soil	S21-Ap20356		X								X			X		
79	BH436_0.0-0.15	Apr 09, 2021		Soil	S21-Ap20357		X				X				X			X		
80	BH437_0.0-0.2	Apr 09, 2021		Soil	S21-Ap20358		X				X		X		X					
81	BH437_0.3-0.4	Apr 09, 2021		Soil	S21-Ap20359										X			X		
82	BH438_0.0-0.2	Apr 09, 2021		Soil	S21-Ap20360		X													
83	BH439_0.0-0.15	Apr 09, 2021		Soil	S21-Ap20361		X													

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
84	BH440_0.0-0.2	Apr 09, 2021		Soil	S21-Ap20362		X				X				X			X		
85	BH440_0.4-0.5	Apr 09, 2021		Soil	S21-Ap20363								X		X					
86	BH441_0.0-0.2	Apr 09, 2021		Soil	S21-Ap20364						X		X		X					
87	BH442_0.0-0.1	Apr 09, 2021		Soil	S21-Ap20365		X				X		X	X	X					
88	BH443_0.0-0.3	Apr 09, 2021		Soil	S21-Ap20366		X								X					X
89	BH444_0.0-0.3	Apr 09, 2021		Soil	S21-Ap20367		X													
90	BH445_0.4-0.6	Apr 09, 2021		Soil	S21-Ap20368										X		X			
91	BH446_0.0-0.2	Apr 09, 2021		Soil	S21-Ap20369		X				X				X					
92	BH447_0.0-0.15	Apr 09, 2021		Soil	S21-Ap20370		X				X		X		X					
93	BH434_0.2-0.3	Apr 09, 2021		Soil	S21-Ap20371				X											

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
94	BH435_0.3-0.4	Apr 09, 2021		Soil	S21-Ap20372				X											
95	BH436_0.2-0.3	Apr 09, 2021		Soil	S21-Ap20373				X											
96	BH438_0.2-0.4	Apr 09, 2021		Soil	S21-Ap20374				X											
97	BH439_0.2-0.4	Apr 09, 2021		Soil	S21-Ap20375				X											
98	BH441_0.3-0.4	Apr 09, 2021		Soil	S21-Ap20376				X											
99	BH442_0.3-0.4	Apr 09, 2021		Soil	S21-Ap20377				X											
100	BH443_0.5-0.6	Apr 09, 2021		Soil	S21-Ap20378				X											
101	BH444_0.5-0.6	Apr 09, 2021		Soil	S21-Ap20379				X											
102	BH446_0.3-0.6	Apr 09, 2021		Soil	S21-Ap20380				X											
103	BH447_0.2-0.4	Apr 09, 2021		Soil	S21-Ap20381				X											
104	BH445_0.0-0.2	Apr 09, 2021		Soil	S21-Ap20549				X											

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
105	TP200_0.4-0.5	Apr 09, 2021		Soil	S21-Ap22373				X											
106	TP213_0.3-0.4	Apr 09, 2021		Soil	S21-Ap22374				X											
107	BH221_0.3-0.4-0.5	Apr 09, 2021		Soil	S21-Ap22375				X											
108	TP200_0.0-0.4AQ	Apr 09, 2021		Soil	S21-Ap22376				X											
109	TP213_0.0-0.1	Apr 09, 2021		Soil	S21-Ap22377				X											
110	TP214_0.0-0.2	Apr 09, 2021		Soil	S21-Ap22378				X											
111	BH221_0.0-0.1	Apr 09, 2021		Soil	S21-Ap22379				X											
112	TP463_0.8-1.8	Apr 09, 2021		Soil	S21-Ap22380				X											
113	TP463_2.8-3.8AQ	Apr 09, 2021		Soil	S21-Ap22381				X											

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786604
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:38 PM
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Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B6	Eurofins Suite B7A
Melbourne Laboratory - NATA Site # 1254 & 14271												X				X				
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X														
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
114	TP464_0.0-1.0AQ	Apr 09, 2021		Soil	S21-Ap22382				X											
Test Counts						1	27	6	59	1	20	5	18	3	33	1	5	6	2	1

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.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

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 and 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.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
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 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

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, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene 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 Aroclor 1260 in Matrix Spikes and LCS.
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 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							
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	
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	< 0.1			0.1	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.5			0.5	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	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							
Conductivity (1:5 aqueous extract at 25°C as rec.)	uS/cm	< 10			10	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	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
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	
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 >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							
Phenols (Halogenated)							
2-Chlorophenol	mg/kg	< 0.5			0.5	Pass	
2.4-Dichlorophenol	mg/kg	< 0.5			0.5	Pass	
2.4.5-Trichlorophenol	mg/kg	< 1			1	Pass	
2.4.6-Trichlorophenol	mg/kg	< 1			1	Pass	
2.6-Dichlorophenol	mg/kg	< 0.5			0.5	Pass	
4-Chloro-3-methylphenol	mg/kg	< 1			1	Pass	
Pentachlorophenol	mg/kg	< 1			1	Pass	
Tetrachlorophenols - Total	mg/kg	< 10			10	Pass	
Method Blank							
Phenols (non-Halogenated)							
2-Cyclohexyl-4.6-dinitrophenol	mg/kg	< 20			20	Pass	
2-Methyl-4.6-dinitrophenol	mg/kg	< 5			5	Pass	
2-Methylphenol (o-Cresol)	mg/kg	< 0.2			0.2	Pass	
2-Nitrophenol	mg/kg	< 1			1	Pass	
2.4-Dimethylphenol	mg/kg	< 0.5			0.5	Pass	
2.4-Dinitrophenol	mg/kg	< 5			5	Pass	
3&4-Methylphenol (m&p-Cresol)	mg/kg	< 0.4			0.4	Pass	
4-Nitrophenol	mg/kg	< 5			5	Pass	
Dinoseb	mg/kg	< 20			20	Pass	
Phenol	mg/kg	< 0.5			0.5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	92			70-130	Pass	
4.4'-DDD	%	83			70-130	Pass	
4.4'-DDE	%	89			70-130	Pass	
4.4'-DDT	%	90			70-130	Pass	
a-BHC	%	93			70-130	Pass	
Aldrin	%	88			70-130	Pass	
b-BHC	%	96			70-130	Pass	
d-BHC	%	98			70-130	Pass	
Dieldrin	%	93			70-130	Pass	
Endosulfan I	%	89			70-130	Pass	
Endosulfan II	%	111			70-130	Pass	
Endosulfan sulphate	%	78			70-130	Pass	
Endrin	%	90			70-130	Pass	
Endrin aldehyde	%	84			70-130	Pass	
Endrin ketone	%	91			70-130	Pass	
g-BHC (Lindane)	%	94			70-130	Pass	
Heptachlor	%	89			70-130	Pass	
Heptachlor epoxide	%	95			70-130	Pass	
Hexachlorobenzene	%	75			70-130	Pass	
Methoxychlor	%	84			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1016	%	78			70-130	Pass	
Aroclor-1260	%	95			70-130	Pass	
LCS - % Recovery							
Conductivity (1:5 aqueous extract at 25°C as rec.)	%	99			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	84			70-130	Pass	
Acenaphthylene	%	92			70-130	Pass	
Anthracene	%	86			70-130	Pass	
Benz(a)anthracene	%	95			70-130	Pass	
Benzo(a)pyrene	%	104			70-130	Pass	
Benzo(b&j)fluoranthene	%	111			70-130	Pass	
Benzo(g.h.i)perylene	%	93			70-130	Pass	
Benzo(k)fluoranthene	%	82			70-130	Pass	
Chrysene	%	91			70-130	Pass	
Dibenz(a.h)anthracene	%	90			70-130	Pass	
Fluoranthene	%	97			70-130	Pass	
Fluorene	%	88			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	86			70-130	Pass	
Naphthalene	%	94			70-130	Pass	
Phenanthrene	%	86			70-130	Pass	
Pyrene	%	97			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	108			80-120	Pass	
Cadmium	%	107			80-120	Pass	
Chromium	%	107			80-120	Pass	
Copper	%	105			80-120	Pass	
Lead	%	109			80-120	Pass	
Mercury	%	118			80-120	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Nickel	%	106			80-120	Pass	
Zinc	%	106			80-120	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	101			70-130	Pass	
TRH C10-C14	%	95			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	101			70-130	Pass	
Toluene	%	104			70-130	Pass	
Ethylbenzene	%	101			70-130	Pass	
m&p-Xylenes	%	108			70-130	Pass	
o-Xylene	%	105			70-130	Pass	
Xylenes - Total*	%	107			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	70			70-130	Pass	
TRH C6-C10	%	99			70-130	Pass	
TRH >C10-C16	%	92			70-130	Pass	
LCS - % Recovery							
Phenols (Halogenated)							
2-Chlorophenol	%	82			30-130	Pass	
2.4-Dichlorophenol	%	80			30-130	Pass	
2.4.6-Trichlorophenol	%	75			30-130	Pass	
2.6-Dichlorophenol	%	87			30-130	Pass	
LCS - % Recovery							
Phenols (non-Halogenated)							
2-Methylphenol (o-Cresol)	%	75			30-130	Pass	
2-Nitrophenol	%	76			30-130	Pass	
3&4-Methylphenol (m&p-Cresol)	%	74			30-130	Pass	
Phenol	%	78			30-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S21-Ap17173	CP	%	92			70-130	Pass	
4.4'-DDD	S21-Ap17173	CP	%	91			70-130	Pass	
4.4'-DDE	S21-Ap17173	CP	%	90			70-130	Pass	
4.4'-DDT	S21-Ap17173	CP	%	87			70-130	Pass	
a-BHC	S21-Ap17173	CP	%	89			70-130	Pass	
Aldrin	S21-Ap17173	CP	%	85			70-130	Pass	
b-BHC	S21-Ap17173	CP	%	92			70-130	Pass	
d-BHC	S21-Ap17173	CP	%	94			70-130	Pass	
Dieldrin	S21-Ap17173	CP	%	93			70-130	Pass	
Endosulfan I	S21-Ap17173	CP	%	86			70-130	Pass	
Endosulfan II	S21-Ap17173	CP	%	97			70-130	Pass	
Endosulfan sulphate	S21-Ap17173	CP	%	85			70-130	Pass	
Endrin	S21-Ap17173	CP	%	93			70-130	Pass	
Endrin aldehyde	S21-Ap17173	CP	%	73			70-130	Pass	
Endrin ketone	S21-Ap17173	CP	%	90			70-130	Pass	
g-BHC (Lindane)	S21-Ap17173	CP	%	94			70-130	Pass	
Heptachlor	S21-Ap17173	CP	%	88			70-130	Pass	
Heptachlor epoxide	S21-Ap17173	CP	%	92			70-130	Pass	
Hexachlorobenzene	S21-Ap17173	CP	%	78			70-130	Pass	
Methoxychlor	S21-Ap17173	CP	%	80			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1016	S21-Ap19189	NCP	%	86			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S21-Ap17173	CP	%	99			70-130	Pass	
Acenaphthylene	S21-Ap17173	CP	%	93			70-130	Pass	
Anthracene	S21-Ap17173	CP	%	92			70-130	Pass	
Benz(a)anthracene	S21-Ap17173	CP	%	84			70-130	Pass	
Benzo(a)pyrene	S21-Ap17173	CP	%	86			70-130	Pass	
Benzo(b&j)fluoranthene	S21-Ap17173	CP	%	91			70-130	Pass	
Benzo(k)fluoranthene	S21-Ap17173	CP	%	92			70-130	Pass	
Chrysene	S21-Ap17173	CP	%	99			70-130	Pass	
Dibenz(a.h)anthracene	S21-Ap17173	CP	%	85			70-130	Pass	
Fluoranthene	S21-Ap17173	CP	%	97			70-130	Pass	
Fluorene	S21-Ap17173	CP	%	99			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S21-Ap17173	CP	%	81			70-130	Pass	
Naphthalene	S21-Ap17173	CP	%	96			70-130	Pass	
Phenanthrene	S21-Ap17173	CP	%	100			70-130	Pass	
Pyrene	S21-Ap17173	CP	%	98			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S21-Ap25272	NCP	%	90			75-125	Pass	
Cadmium	S21-Ap25272	NCP	%	97			75-125	Pass	
Chromium	S21-Ap25272	NCP	%	77			75-125	Pass	
Copper	S21-Ap25272	NCP	%	75			75-125	Pass	
Lead	S21-Ap25272	NCP	%	75			75-125	Pass	
Mercury	S21-Ap25272	NCP	%	82			75-125	Pass	
Nickel	S21-Ap25272	NCP	%	78			75-125	Pass	
Zinc	S21-Ap16694	NCP	%	122			75-125	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S21-Ap19128	NCP	%	89			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S21-Ap19128	NCP	%	101			70-130	Pass	
Toluene	S21-Ap19128	NCP	%	105			70-130	Pass	
Ethylbenzene	S21-Ap19128	NCP	%	102			70-130	Pass	
m&p-Xylenes	S21-Ap19128	NCP	%	104			70-130	Pass	
o-Xylene	S21-Ap19128	NCP	%	105			70-130	Pass	
Xylenes - Total*	S21-Ap19128	NCP	%	105			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S21-Ap24490	NCP	%	113			70-130	Pass	
TRH C6-C10	S21-Ap19128	NCP	%	85			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C10-C14	S21-Ap17179	CP	%	75			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH >C10-C16	S21-Ap17179	CP	%	72			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S21-Ap17210	CP	%	86			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Acenaphthylene	S21-Ap17210	CP	%	91			70-130	Pass	
Anthracene	S21-Ap17210	CP	%	85			70-130	Pass	
Benz(a)anthracene	S21-Ap17210	CP	%	97			70-130	Pass	
Benzo(a)pyrene	S21-Ap17210	CP	%	103			70-130	Pass	
Benzo(b&j)fluoranthene	S21-Ap17210	CP	%	112			70-130	Pass	
Benzo(g.h.i)perylene	S21-Ap17210	CP	%	88			70-130	Pass	
Benzo(k)fluoranthene	S21-Ap17210	CP	%	85			70-130	Pass	
Chrysene	S21-Ap17210	CP	%	93			70-130	Pass	
Dibenz(a.h)anthracene	S21-Ap17210	CP	%	96			70-130	Pass	
Fluoranthene	S21-Ap17210	CP	%	99			70-130	Pass	
Fluorene	S21-Ap17210	CP	%	90			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S21-Ap17210	CP	%	95			70-130	Pass	
Naphthalene	S21-Ap17210	CP	%	95			70-130	Pass	
Phenanthrene	S21-Ap17210	CP	%	86			70-130	Pass	
Pyrene	S21-Ap17210	CP	%	98			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	S21-Ap13529	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S21-Ap13529	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S21-Ap13529	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S21-Ap13529	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-BHC	S21-Ap13529	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S21-Ap13529	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	S21-Ap13529	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-BHC	S21-Ap13529	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S21-Ap13529	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S21-Ap13529	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S21-Ap13529	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S21-Ap13529	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S21-Ap13529	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S21-Ap13529	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S21-Ap13529	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	S21-Ap13529	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S21-Ap13529	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S21-Ap13529	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S21-Ap13529	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S21-Ap13529	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	S21-Ap13529	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1221	S21-Ap13529	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	S21-Ap13529	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1242	S21-Ap13529	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1248	S21-Ap13529	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1254	S21-Ap13529	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1260	S21-Ap13529	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Conductivity (1:5 aqueous extract at 25°C as rec.)	S21-Ap16725	NCP	uS/cm	780	780	<1	30%	Pass	
pH (1:5 Aqueous extract at 25°C as rec.)	S21-Ap16725	NCP	pH Units	8.2	8.1	<1	30%	Pass	

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-Ap17177	CP	mg/kg	14	11	20	30%	Pass	
Cadmium	S21-Ap17177	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S21-Ap17177	CP	mg/kg	29	24	20	30%	Pass	
Copper	S21-Ap17177	CP	mg/kg	24	20	18	30%	Pass	
Lead	S21-Ap17177	CP	mg/kg	18	15	18	30%	Pass	
Mercury	S21-Ap17177	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S21-Ap17177	CP	mg/kg	8.4	6.4	27	30%	Pass	
Zinc	S21-Ap17177	CP	mg/kg	37	31	19	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C10-C14	S21-Ap10200	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S21-Ap10200	NCP	mg/kg	61	64	5.0	30%	Pass	
TRH C29-C36	S21-Ap10200	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
TRH >C10-C16	S21-Ap10200	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S21-Ap10200	NCP	mg/kg	100	110	2.0	30%	Pass	
TRH >C34-C40	S21-Ap10200	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S21-Ap17178	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S21-Ap17178	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S21-Ap17178	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S21-Ap17178	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S21-Ap17178	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S21-Ap17178	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S21-Ap17178	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S21-Ap17178	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S21-Ap17178	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S21-Ap17178	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S21-Ap17178	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S21-Ap17178	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S21-Ap17178	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S21-Ap17178	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S21-Ap17178	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S21-Ap17178	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-Ap17184	CP	%	22	22	1.0	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-Ap17210	CP	%	11	10	5.0	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S21-Ap20366	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S21-Ap20366	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S21-Ap20366	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S21-Ap20366	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S21-Ap20366	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S21-Ap20366	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S21-Ap20366	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	

Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S21-Ap20366	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S21-Ap20366	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S21-Ap20369	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S21-Ap20369	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S21-Ap20369	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S21-Ap20369	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S21-Ap20369	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S21-Ap20369	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S21-Ap20369	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S21-Ap20369	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S21-Ap20369	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S21-Ap20369	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S21-Ap20369	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S21-Ap20369	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S21-Ap20369	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S21-Ap20369	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S21-Ap20369	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S21-Ap20369	CP	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
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

Authorised by:

Ursula Long	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)
Charl Du Preez	Senior Analyst-Inorganic (NSW)
Emily Rosenberg	Senior Analyst-Metal (VIC)
John Nguyen	Senior Analyst-Metal (NSW)
Jonathon Angell	Senior Analyst-Inorganic (QLD)
Joseph Edouard	Senior Analyst-Organic (VIC)

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.: 60482	LABORATORY BATCH NO.:
PROJECT NAME: Kemps Creek DSI	SAMPLERS:
DATE NEEDED BY: Standard TAT	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) .....rili@jbsg.com.au; (3) .....cdagger@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs	Asbestos	OCPs/PCBs	Phenols	Herbicides	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
	Soil	8/4/21														
BH354 -0.0-0.2				J+B		x		x								
BH354 - 0.4-0.5				J+B												
BH354 - 0.7-1.0				J			x					x				
BH355 - 0.0-0.2				J+B												
BH355 - 0.4-0.5				J		x		x								
BH 351 - 0.0-0.2				J+B						x						
BH 351 - 0.4-0.5				J												
BH355 - 0.0-0.2				J+B		x		x								
BH355 - 0.4-0.5				J												
BH354 - 0.0-0.2				J+B		x		x								
BH354 - 0.4-0.5				J												
BH354 - 0.0-0.2				J+B			x					x				
BH354 - 0.4-0.5				J												
BH349 - 0.0-0.2				J+B		x		x								
BH349 - 0.4-0.5				J												
BH350 - 0.0-0.2				J+B			x									
BH350 - 0.4-0.5				J		x										
FC1	V	V		B												

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 8/4/21 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: NC DATE: 8/4 9:02AM 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

1.1°C 786610

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 60482	LABORATORY BATCH NO.:
PROJECT NAME: Kemps Creek DSI	SAMPLERS:
DATE NEEDED BY: Standard TAT	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) .....rlill@jbsg.com.au; (3) .....cdagger@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs	Asbestos	OCPs/PCBs	Phenols	Herbicides	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
BH339_0.0-0.1	Soil	7/4/21		J+B			x	x								
" _0.4-0.5	"			J												
BH340-0.0-0.2	"			J+B								x				
" -0.2-0.5	"			J												
BH341-0.0-0.2	"			J+B		x		x								
" -0.2-0.5	"			J												
BH365-0.0-0.2	"			J+B			x					x				
" -0.2-0.6	"			J												
BH366-0.0-0.2	"			J+B												
" -0.2-0.6	"			J		x		x								
BH369-0.0-0.5	"			J+B			x					x				
" -0.5-1.1	"			J			x									
BH343-0.0-0.2	"			J+B												
" -0.2-0.5	"			J												
BH344-0.0-0.2	"			J+B			x	x								
" -0.2-0.6	"			J												
BH345_0.0-0.1	"			J		x		x								
" 0.3-0.4	"			J												
BH347-0.1-0.2	"			J+B		x		x								
" 0.3-0.4	"			J												

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Kyan Lill DATE: 8/4/21	CONSIGNMENT NOTE NO.	NAME: NC DATE: 12/4 9:02AM	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

IMSO Forms013 – Chain of Custody - Generic

1.1°C 786610

CHAIN OF CUSTODY

PROJECT NO.: 60482	LABORATORY BATCH NO.:
PROJECT NAME: Kemps Creek DSI	SAMPLERS:
DATE NEEDED BY: Standard TAT	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) .....rlill@jbsg.com.au; (3) .....cdagger@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs	Asbestos	OCPs/PCBs	Phenols	Herbicides	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
[illegible] 0-0.2	Soil	8/4/21		J, ice		✓		✓								
[illegible] 0.0-0.2				J, ice												
[illegible] 0.0-0.2				J, ice												
[illegible] 0.4-0.5						✓		✓								
[illegible] 0.4-0.5																
[illegible] 0.4-0.5																
[illegible] 0.4-0.5						✓						✓				
[illegible] 0.0-0.2				J, ice												
[illegible] 0.0-0.0				J, ice						✓						
0.5-0.6				J												
[illegible]				J, ice		✓						✓				
[illegible] C3-0.4				J												
[illegible] 0.0-0.1				J, ice			✓	✓								
0.3-0.4				J												
[illegible]				J, ice		✓				✓						
0.3-0.4				J												
[illegible] 0.0-0.1				J, ice												
0.5-0.6				J		✓		✓								
[illegible] 0.0-0.1				J, ice												
0.4-0.5	V	V		J												

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: [illegible] DATE: 8/4/21	CONSIGNMENT NOTE NO.	NAME: NC DATE: 12/4 9:02AM	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

IMSO Forms013 – Chain of Custody - Generic

1.1°C 786610

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 60482	LABORATORY BATCH NO.:
PROJECT NAME: Kemps Creek DSI	SAMPLERS:
DATE NEEDED BY: Standard TAT	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) .....rlill@jbsg.com.au; (3) .....cdagger@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs	Asbestos	OCPs/PCBs	Phenols	Herbicides	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
BH172 0.4-0.5	Soil	5/4/21		J		x	x	x								
BH 173 0-0.1	"	"		JB												
BH173 0.4-0.5				J												
BH 177 0-0.1				JB												
" " 0.4-0.5				J		x		x					x			
BH178 0-0.1				JB												
" " 0.3-0.5				J												
BH345 0.0-0.2				JB		x		x		x			x			
BH 332 0-0.1				JB												
BH 332 0.5-0.6				JB												
BH348 0.4-0.5				J		x	x	x								
BH 335 0.0-0.2				JB												
BH 335 0.4-0.5				J			x			x						
BH 334 0.0-0.2				JB												
BH 334 0.4-0.5				J		x	x	x		x						
BH 349 0.0-0.2				JB												
BH 349 0.4-0.5				J												
BH350 0.0-0.2				JB			x			x						
BH 350 0.4-0.5				J												
BH 351 0.0-0.2				JB												

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Kiran Lill DATE: 8/4/21	CONSIGNMENT NOTE NO.	NAME: NC DATE: 12/4 9:02AM	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

IMSO Forms013 – Chain of Custody - Generic

1.1°C 786610

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 60482	LABORATORY BATCH NO.:
PROJECT NAME: Kemps Creek DSI	SAMPLERS:
DATE NEEDED BY: Standard TAT	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) .....rlill@jbsg.com.au; (3) .....cdagger@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs	Asbestos	OCPs/PCBs	Phenols	Herbicides	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
BH1352 0.3-0.4	Soil	5/7/21		J			X	X								
BH356 0-0.1		"		JB												
" 0.3-0.4				J												
BH372 0-0.1				JB								X				
" " 0.3-0.4				J												
BH358 0-0.1				JB												
" " 0.3-0.4				J												
BH379 0-0.1				JB		X		X								
" " 0.3-0.4				J												
BH373 0-0.1				JB												
" " 0.3-0.4				J		X	X	X								
BH383 0-0.1				JB												
" " 0.3-0.4				J												
BH377 0-0.1				JB			X	X				X				
" " 0.3-0.4				J												
BH356 0-0.1				JB												
" " 0.3-0.4				J												
BH171 0-0.1				JB		X		X								
" 0.4-0.5				J												
BH1172 0-0.1	V	V		JB		X	X	X								

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Kyan Lill DATE: 8/4/21	CONSIGNMENT NOTE NO.	NAME: NC	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 12/4 9.02AM	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	OF: NAME: DATE:	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 Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Generic

1.1°C 786616

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 60482	LABORATORY BATCH NO.:
PROJECT NAME: Kemps Creek DSI	SAMPLERS:
DATE NEEDED BY: Standard TAT	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) .....rlill@jbsg.com.au; (3) .....cdagger@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs/~~Low level~~	EC, pH, alkalinity, ~~Hardness~~	~~Ammonia~~	~~Nitrite/Nitrate~~	pH/EC	PAHs	Asbestos	OCPs/PCBs	Herbicides	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
BH175 0-0.1	Soil			JB		x		/					x						
" " 0.4-0.5	Soil			J															
BH176 0-0.1				JB															
" " 0.4-0.5				J															
BH174 0-0.1				JB															
" " 0.4-0.5				J															
BH169 ~~0-0.1~~ 0-0.1				JB			x									x			
" " 0.4-0.5				J															
BH170 ~~0-0.1~~ 0-0.1				JB		x		~~x~~					x						
" " 0.4-0.5				J															
BH331 0-0.1				JB		x							x			x			
" " 0.3-0.4	↓			J															
" " Frag	Fragment			J															
BH375 0-0.1	Soil			JB		x	x												
" " 0.3-0.4				~~B~~J															
BH378 0-0.1				JB															
" " 0.3-0.4				~~B~~J															
BH353 0-0.1				JB		x	x												
" " 0.3-0.4				~~B~~J															
BH352 0-0.1				JB															

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Ryan Lill DATE: 8/4/21	CONSIGNMENT NOTE NO.	NAME: NC	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 12/4 9:00AM	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 - Generic

1.1°C 786610

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 60482	LABORATORY BATCH NO.:
PROJECT NAME: Kemps Creek DSI	SAMPLERS:
DATE NEEDED BY: Standard TAT	QC LEVEL: NEPM (2013)

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

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COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	~~PAHs (low level)~~	~~EC, pH, alkalinity, Hardness~~	~~Ammonia~~	~~Nitrite/Nitrate~~	~~pH/EC~~	PAHs	Asbestos	OCPs/PCBs	Herbicides	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
BH 354 0.0-0.1	Soil	07/4/21		J+B		✓		✓					✓						
BH 371 0.0-0.1				J+B			✓						✓						
BH 360 0-0.1				J+B		✓		✓					✓						
BH 358 0-0.1				J+B			✓						✓						
BH 364 0-0.1				J+B											✓				
BH 367 0-0.1				J+B		✓	✓												
BH 372 0-0.1				J+B															
BH 364 0-0.1				J+B		✓	✓												
BH 355 0-0.1				J+B			✓	✓					✓						
BH 370 0-0.1				J+B															
BH 374 0.3-0.4				B															
BH 371 0.3-0.4				B															
BH 360 0.3-0.4				B															
BH 388 0.3-0.4				B															
BH 384 0.3-0.4				B															
BH 377 0.3-0.4				B															
BH 342 0.3-0.4				B															
BH 364 0.3-0.4				B															
BH 366 0.3-0.4				B															
BH 370 0.3-0.4				B															

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Ryan Lill DATE: 7/4/21	CONSIGNMENT NOTE NO.	NAME: NC	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 7/4 9:02 AM	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 Forms013 – Chain of Custody - Generic

1.1°C 786610

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 60482	LABORATORY BATCH NO.:
PROJECT NAME: Kemps Creek DSI	SAMPLERS:
DATE NEEDED BY: Standard TAT	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) .....rlill@jbsg.com.au; (3) .....cdagger@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs	Asbestos	OCPs/PCBs	Phenols	Herbicides	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
TP450_0.0-1.0	Soil	8/4/21		S												
TP450_2.0-2.5									X							
TP450_1.0-2.0																
TP459_0.0-0.4																
TP454_0.0-0.7																
TP444_0.0-0.8																
TP452_0.0-1.0																
TP452_0.0-0.1																
TP451_1.0-2.0									X							
TP451_2.0-2.8																
TP457_2.0-2.5									X							
TP457_1.0-2.0																
TP460_1.0-2.0																
TP451_2.8-3.8																
TP452_1.0-2.0									X							
TP457_0.0-1.0																
TP456_1.0-2.0																
TP461_0.0-1.0																
TP461_2.0-2.6									X							
TP460_2.6-2.8	↓			↓												

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: [signature] DATE: 8/4/21	CONSIGNMENT NOTE NO.	NAME: NC	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 9/4/21 9:02 AM	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	OF: NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

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IMSO Forms013 – Chain of Custody - Generic

1.1°C 786610

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 60482	LABORATORY BATCH NO.:
PROJECT NAME: Kemps Creek DSI	SAMPLERS:
DATE NEEDED BY: Standard TAT	QC LEVEL: NEPM (2013)

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COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs	Asbestos	OCPs/PCBs	Phenols	Herbicides	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
TP449-0.3-0.9	Soil	5/4/21		J					X							
TP461-1.0-2.0									X							
TP454-0.7-1.2									X							
TP451-0.0-1.0																
TP456-0.0-1.0																
TP460-0.0-1.0																
TP452-3.0-3.5																
TP456-2.8-3.0									X							
TP455-0.0-0.1				J												
TP455-2.4-2.5						X	X	X								
TP460-0.0-0.1																
TP456-0.0-0.1						X	X	X								
TP460-2.6-2.8																
TP451-2.8-3.0																
TP452-1.1-1.2						X	X	X			X					
TP449-1.0-1.1																
TP454-1.4-1.5						X	X	X								
TP457-0.0-0.1																
TP461-2.4-2.5						X	X	X			X					
TP451-0.0-0.1	V	V		V												

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Lupin Lill DATE: 8/4/21	CONSIGNMENT NOTE NO.	NAME: VC	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 12/4 9:02AM	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	OF: NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

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IMSO Forms013 – Chain of Custody - Generic

1.1°C 786610

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 60482	LABORATORY BATCH NO.:
PROJECT NAME: Kemps Creek DSI	SAMPLERS:
DATE NEEDED BY: Standard TAT	QC LEVEL: NEPM (2013)

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

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COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs	Asbestos	OCPs/PCBs	Phenols	Herbicides	PFAS	ETEX	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
TP457_2.5-2.	Soil	8/4/21		J		x		x									
TP450_2.5-2.				↓													
TP459_1.2-1.3	↓			↓		x	x	x									
TP357_0.0-0.1				K													
TP358_0.0-0.1				B													
TP455 1.0-1.0																	
TP455 1.8-1.8									x								
TP455 2.0-2.05																	
TP455 2.5-3.5	↓	↓		↓													
BH351 0.4-0.5				J													
BH355 0.0-0.2				J B		x		x									
BH355 0.4-0.5				J													
TS	Water	8/4/21		V										X			
TB	↓			V										X			
TP459 0.4-1.4	Soil			B													
TP459 1.4-2.4									x								
TP459 0.0-0.4	↓	↓		↓													

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Ryan Cull DATE: 8/4/21	CONSIGNMENT NOTE NO.	NAME: DC	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 12/4 9:00AM	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

DGC 1.1°C 786610

eurofins | Environment Testing

ABN: 50 005 085 521 www.eurofins.com.au EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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:	Ryan Lill
Project name:	KEMPS CREEK DSI
Project ID:	60482
Turnaround time:	5 Day
Date/Time received	Apr 12, 2021 9:02 AM
Eurofins reference	786610

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 Sample Receipt : 1.1 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

Samples BH369 0.5-0.6 not received, switched from hold to cancelled. Samples TP495 0.0-0.4, BH351 0.1-0.2, BH335 0.0-0.2, BH348 0.0-0.2, BH350 0.0-0.2, BH335 0.0-0.2, BH386 0.0-0.1, BH344 0.0 - 0.2, BH348 0.4-0.5, BH334 0.4-0.5, BH335 0.4-0.5, BH349 0.4-0.5, BH350 0.4-0.5, BH351 0.4-0.5 and BH355 0.4-0.5 appeared multiple times on the COC, samples logged with all analysis. PFAS analysis cancelled due to incorrect containers. Samples BHX (jar), BH380 0.0-0.1 (bag), BH362 (bag) and a blank bag received not on COC, logged on hold.

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 Ryan Lill - rlill@jbsg.com.au.

eurofins | Environment Testing

ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

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NATA # 1261 Site # 18217

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NATA # 1261 Site # 20794

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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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786610
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 9:02 AM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	BTEX	Suite B13: OCP/PCB	Moisture Set	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B4	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**													
1	BH354 0-0.2	Apr 08, 2021		Soil	S21-Ap17340				X		X			X				
2	BH354 0.9-1	Apr 08, 2021		Soil	S21-Ap17341					X				X		X		
3	BH355 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17342				X		X			X				
4	BH351 0-0.2	Apr 08, 2021		Soil	S21-Ap17343								X	X				
5	BH335 0-0.2	Apr 08, 2021		Soil	S21-Ap17344				X		X			X				
6	BH334 0-0.2	Apr 08, 2021		Soil	S21-Ap17345				X		X			X				
7	BH348 0-0.2	Apr 08, 2021		Soil	S21-Ap17346					X				X	X			
8	BH349 0-0.2	Apr 08, 2021		Soil	S21-Ap17347				X		X			X				
9	BH350 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17349						X			X				

eurofins | Environment Testing

ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

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Site # 23736

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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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786610
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 9:02 AM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	BTEX	Suite B13: OCP/PCB	Moisture Set	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B4	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
10	BH339 0-0.1	Apr 07, 2021		Soil	S21-Ap17350									X			X	
11	BH340 0-0.2	Apr 07, 2021		Soil	S21-Ap17351					X				X				
12	BH341 0-0.2	Apr 07, 2021		Soil	S21-Ap17352				X		X			X				
13	BH365 0-0.2	Apr 07, 2021		Soil	S21-Ap17353					X				X		X		
14	BH366 0.2-0.6	Apr 07, 2021		Soil	S21-Ap17354				X		X			X				
15	BH369 0-0.5	Apr 07, 2021		Soil	S21-Ap17355					X				X		X		
16	BH344 0-0.2	Apr 07, 2021		Soil	S21-Ap17356									X			X	
17	BH363 0-0.1	Apr 07, 2021		Soil	S21-Ap17357				X		X			X				
18	BH387 0-0.1	Apr 07, 2021		Soil	S21-Ap17358				X		X			X				
19	BH347 0-0.2	Apr 08, 2021		Soil	S21-Ap17359				X		X			X				
20	BH346 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17360				X		X			X				

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Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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

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Address: Level 1, 50 Margaret St
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Project Name: KEMPS CREEK DSI
Project ID: 60482

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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
21	BH336 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17361					X	X			X				
22	BH369 0-0.1	Apr 08, 2021		Soil	S21-Ap17362								X	X				
23	BH345 0-0.1	Apr 08, 2021		Soil	S21-Ap17363					X	X			X				
24	BH338 0-0.1	Apr 08, 2021		Soil	S21-Ap17364									X			X	
25	BH361 0-0.1	Apr 08, 2021		Soil	S21-Ap17365					X	X			X				
26	BH386 0.5-0.6	Apr 08, 2021		Soil	S21-Ap17366				X		X			X				
27	BH172 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17367									X	X			
28	BH177 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17368				X		X			X				
29	BH348 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17370									X	X			
30	BH335 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17371								X	X		X		
31	BH334 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17372									X	X			

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Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
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IANZ # 1327

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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
32	BH350 0-0.2	Apr 08, 2021		Soil	S21-Ap17373								X	X		X		
33	BH352 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17374									X			X	
34	BH372 0-0.1	Apr 08, 2021		Soil	S21-Ap17375					X				X				
35	BH379 0-0.1	Apr 08, 2021		Soil	S21-Ap17376				X		X			X				
36	BH373 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17377									X	X			
37	BH377 0-0.1	Apr 08, 2021		Soil	S21-Ap17378					X				X			X	
38	BH171 0-0.1	Apr 08, 2021		Soil	S21-Ap17379				X		X			X				
39	BH172 0-0.1	Apr 08, 2021		Soil	S21-Ap17380									X	X			
40	BH175 0-0.1	Apr 08, 2021		Soil	S21-Ap17381				X		X			X				
41	BH169 0-0.1	Apr 08, 2021		Soil	S21-Ap17382					X				X		X		
42	BH170 0-0.1	Apr 08, 2021		Soil	S21-Ap17383				X		X			X				

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Australia

Melbourne
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Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

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Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
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IANZ # 1327

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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
43	BH331 0-0.1	Apr 08, 2021		Soil	S21-Ap17384				X	X	X			X				
44	BH375 0-0.1	Apr 08, 2021		Soil	S21-Ap17385									X			X	
45	BH353 0-0.1	Apr 08, 2021		Soil	S21-Ap17386									X			X	
46	BH384 0-0.1	Apr 07, 2021		Soil	S21-Ap17387				X		X			X				
47	BH371 0-0.1	Apr 07, 2021		Soil	S21-Ap17388									X			X	
48	BH360 0-0.1	Apr 07, 2021		Soil	S21-Ap17389				X		X			X				
49	BH388 0-0.1	Apr 07, 2021		Soil	S21-Ap17390									X			X	
50	BH389 0-0.1	Apr 07, 2021		Soil	S21-Ap17391								X	X				
51	BH367 0-0.1	Apr 07, 2021		Soil	S21-Ap17392						X			X		X		
52	BH364 0-0.1	Apr 07, 2021		Soil	S21-Ap17393						X			X		X		
53	BH385 0-0.1	Apr 07, 2021		Soil	S21-Ap17394									X			X	

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Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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
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Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
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IANZ # 1327

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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
54	TP450 2-2.5	Apr 08, 2021		Soil	S21-Ap17395	X												
55	TP451 1-2	Apr 08, 2021		Soil	S21-Ap17396	X												
56	TP457 2-2.5	Apr 08, 2021		Soil	S21-Ap17397	X												
57	TP452 1-2	Apr 08, 2021		Soil	S21-Ap17398	X												
58	TP460 2-2.6	Apr 08, 2021		Soil	S21-Ap17399	X												
59	TP449 0.3-0.9	Apr 08, 2021		Soil	S21-Ap17400	X												
60	TP461 1-2	Apr 08, 2021		Soil	S21-Ap17401	X												
61	TP454 0.7-1.2	Apr 08, 2021		Soil	S21-Ap17402	X												
62	TP456 2.8-3	Apr 08, 2021		Soil	S21-Ap17403	X												
63	TP452 2.4-2.5	Apr 08, 2021		Soil	S21-Ap17404									X	X			
64	TP456 0-0.1	Apr 08, 2021		Soil	S21-Ap17405									X	X			

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Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
65	TP452 1.1-1.2	Apr 08, 2021		Soil	S21-Ap17406					X				X	X			
66	TP454 1.4-1.5	Apr 08, 2021		Soil	S21-Ap17407									X	X			
67	TP461 2.4-2.5	Apr 08, 2021		Soil	S21-Ap17408					X				X	X			
68	TP457 2.5-2.6	Apr 08, 2021		Soil	S21-Ap17409				X		X			X				
69	TP449 1.2-1.3	Apr 08, 2021		Soil	S21-Ap17410									X	X			
70	TP445 1-1.8	Apr 08, 2021		Soil	S21-Ap17411	X												
71	BH355 0-0.2	Apr 08, 2021		Soil	S21-Ap17412				X		X			X				
72	TS	Apr 08, 2021		Water	S21-Ap17413													X
73	TB	Apr 08, 2021		Water	S21-Ap17414							X						
74	TP459 1.4-2.4	Apr 08, 2021		Soil	S21-Ap17415	X												
75	BH354 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17416			X										

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Australia

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Sydney
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Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
76	BH351 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17418			X										
77	BH349 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17422			X										
78	FC1	Apr 08, 2021		Building Materials	S21-Ap17423			X										
79	BH339 0.4-0.5	Apr 07, 2021		Soil	S21-Ap17424			X										
80	BH340 0.2-0.5	Apr 07, 2021		Soil	S21-Ap17425			X										
81	BH341 0.2-0.5	Apr 07, 2021		Soil	S21-Ap17426			X										
82	BH365 0.2-0.6	Apr 07, 2021		Soil	S21-Ap17427			X										
83	BH366 0-0.2	Apr 07, 2021		Soil	S21-Ap17428			X										
84	BH369 0.6-1.1	Apr 07, 2021		Soil	S21-Ap17429			X										
85	BH343 0-0.2	Apr 07, 2021		Soil	S21-Ap17430			X										

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Site # 1254 & 14271

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Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
86	BH343 0.2-0.5	Apr 07, 2021		Soil	S21-Ap17431			X										
87	BH344 0.2-0.6	Apr 07, 2021		Soil	S21-Ap17432			X										
88	BH363 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17433			X										
89	BH387 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17434			X										
90	BH337 0-0.2	Apr 08, 2021		Soil	S21-Ap17435			X										
91	BH346 0-0.2	Apr 08, 2021		Soil	S21-Ap17436			X										
92	BH347 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17437			X										
93	BH337 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17438			X										
94	BH336 0-0.2	Apr 08, 2021		Soil	S21-Ap17439			X										
95	BH369 0.5-0.6	Apr 08, 2021		Soil	S21-Ap17440		X											
96	BH345 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17441			X										

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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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786610
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 9:02 AM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	BTEX	Suite B13: OCP/PCB	Moisture Set	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B4	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
97	BH338 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17442			X										
98	BH361 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17443			X										
99	BH386 0-0.1	Apr 08, 2021		Soil	S21-Ap17444			X										
100	BH362 0-0.1	Apr 08, 2021		Soil	S21-Ap17445			X										
101	BH362 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17446			X										
102	BH173 0-0.1	Apr 08, 2021		Soil	S21-Ap17447			X										
103	BH173 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17448			X										
104	BH177 0-0.1	Apr 08, 2021		Soil	S21-Ap17449			X										
105	BH178 0-0.1	Apr 08, 2021		Soil	S21-Ap17450			X										
106	BH178 0.3-..5	Apr 08, 2021		Soil	S21-Ap17451			X										
107	BH332 0-0.1	Apr 08, 2021		Soil	S21-Ap17452			X										

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Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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
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Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
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Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
108	BH332 0.5-0.6	Apr 08, 2021		Soil	S21-Ap17453			X										
109	BH349 0-0.2	Apr 08, 2021		Soil	S21-Ap17456			X										
110	BH356 0-0.1	Apr 08, 2021		Soil	S21-Ap17460			X										
111	BH356 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17461			X										
112	BH372 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17462			X										
113	BH382 0-0.1	Apr 08, 2021		Soil	S21-Ap17463			X										
114	BH382 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17464			X										
115	BH379 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17465			X										
116	BH373 0-0.1	Apr 08, 2021		Soil	S21-Ap17466			X										
117	BH383 0-0.1	Apr 08, 2021		Soil	S21-Ap17467			X										
118	BH383 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17468			X										

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Australia

Melbourne
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Dandenong South VIC 3175
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NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
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Murarrie QLD 4172
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Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
119	BH377 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17469			X										
120	BH386 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17471			X										
121	BH171 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17472			X										
122	BH175 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17473			X										
123	BH176 0-0.1	Apr 08, 2021		Soil	S21-Ap17474			X										
124	BH176 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17475			X										
125	BH174 0-0.1	Apr 08, 2021		Soil	S21-Ap17476			X										
126	BH174 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17477			X										
127	BH169 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17478			X										
128	BH170 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17479			X										
129	BH331 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17480			X										

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Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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
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Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
35 O'Rorke Road
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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
130	BH331 FRAG	Apr 08, 2021		Building Materials	S21-Ap17481			X										
131	BH375 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17482			X										
132	BH378 0-0.1	Apr 08, 2021		Soil	S21-Ap17483			X										
133	BH378 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17484			X										
134	BH353 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17485			X										
135	BH352 0-0.1	Apr 08, 2021		Soil	S21-Ap17486			X										
136	BH342 0-0.1	Apr 07, 2021		Soil	S21-Ap17487			X										
137	BH370 0-0.1	Apr 07, 2021		Soil	S21-Ap17488			X										
138	BH384 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17489			X										
139	BH371 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17490			X										

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Sydney
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Perth
46-48 Banksia Road
Welshpool WA 6106
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NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
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Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
140	BH360 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17491			X										
141	BH388 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17492			X										
142	BH389 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17493			X										
143	BH367 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17494			X										
144	BH342 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17495			X										
145	BH364 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17496			X										
146	BH386 0.5-0.7	Apr 07, 2021		Soil	S21-Ap17497			X										
147	BH370 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17498			X										
148	TP450 0-1	Apr 08, 2021		Soil	S21-Ap17499			X										
149	TP450 1-2	Apr 08, 2021		Soil	S21-Ap17500			X										
150	TP459 0-0.4	Apr 08, 2021		Soil	S21-Ap17501			X										

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Australia

Melbourne
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Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
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Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
35 O'Rorke Road
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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
151	TP454 0-0.7	Apr 08, 2021		Soil	S21-Ap17502			X										
152	TP444 0-0.3	Apr 08, 2021		Soil	S21-Ap17503			X										
153	TP452 0-1	Apr 08, 2021		Soil	S21-Ap17504			X										
154	TP452 0-0.1	Apr 08, 2021		Soil	S21-Ap17505			X										
155	TP451 2-2.8	Apr 08, 2021		Soil	S21-Ap17506			X										
156	TP457 1-2	Apr 08, 2021		Soil	S21-Ap17507			X										
157	TP460 1-2	Apr 08, 2021		Soil	S21-Ap17508			X										
158	TP451 2.8-3.8	Apr 08, 2021		Soil	S21-Ap17509			X										
159	TP457 0-1	Apr 08, 2021		Soil	S21-Ap17510			X										
160	TP456 1-2	Apr 08, 2021		Soil	S21-Ap17511			X										
161	TP461 0-1	Apr 08, 2021		Soil	S21-Ap17512			X										

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16 Mars Road
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Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
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Mayfield Laboratory																		
External Laboratory																		
162	TP460 2.6-2.8	Apr 08, 2021		Soil	S21-Ap17513			X										
163	TP451 0-1	Apr 08, 2021		Soil	S21-Ap17514			X										
164	TP456 0-1	Apr 08, 2021		Soil	S21-Ap17515			X										
165	TP460 0-1	Apr 08, 2021		Soil	S21-Ap17516			X										
166	TP456 0.3-3.5	Apr 08, 2021		Soil	S21-Ap17517			X										
167	TP452 0-0.1	Apr 08, 2021		Soil	S21-Ap17518			X										
168	TP460 0-0.1	Apr 08, 2021		Soil	S21-Ap17519			X										
169	TP460 2.6-2.8	Apr 08, 2021		Soil	S21-Ap17520			X										
170	TP451 2.8-3	Apr 08, 2021		Soil	S21-Ap17521			X										
171	TP449 1-1.1	Apr 08, 2021		Soil	S21-Ap17522			X										
172	TP457 0-0.1	Apr 08, 2021		Soil	S21-Ap17523			X										

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Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
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Mayfield Laboratory																		
External Laboratory																		
173	TP451 0-0.1	Apr 08, 2021		Soil	S21-Ap17524			X										
174	TP450 2.5-2.6	Apr 08, 2021		Soil	S21-Ap17525			X										
175	TP357 0-0.1	Apr 08, 2021		Soil	S21-Ap17526			X										
176	TP358 0-0.1	Apr 08, 2021		Soil	S21-Ap17527			X										
177	TP445 0-1	Apr 08, 2021		Soil	S21-Ap17528			X										
178	TP445 1.8-2.5	Apr 08, 2021		Soil	S21-Ap17529			X										
179	TP445 2.5-3.5	Apr 08, 2021		Soil	S21-Ap17530			X										
180	TP459 0.4-1.4	Apr 08, 2021		Soil	S21-Ap17533			X										
181	BHX	Apr 08, 2021		Soil	S21-Ap19659			X										
182	BH380 0.0-0.1	Apr 08, 2021		Soil	S21-Ap19660			X										
183	BH362	Apr 08, 2021		Soil	S21-Ap19661			X										

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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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786610
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 9:02 AM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	BTEX	Suite B13: OCP/PCB	Moisture Set	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B4	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
184	BLANK	Apr 08, 2021		Soil	S21-Ap19662			X										
Test Counts						11	1	109	22	14	28	1	5	61	12	8	10	1

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 and proficiency testing scheme providers reports.

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention:	Ryan Lill
Report	786610-AID
Project Name	KEMPS CREEK DSI
Project ID	60482
Received Date	Apr 12, 2021
Date Reported	Apr 20, 2021

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.*

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Project Name KEMPS CREEK DSI
Project ID 60482
Date Sampled Apr 08, 2021
Report 786610-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
TP450 2-2.5	21-Ap17395	Apr 08, 2021	Approximate Sample 404g 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.
TP451 1-2	21-Ap17396	Apr 08, 2021	Approximate Sample 522g 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.
TP457 2-2.5	21-Ap17397	Apr 08, 2021	Approximate Sample 405g 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.
TP452 1-2	21-Ap17398	Apr 08, 2021	Approximate Sample 435g 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.
TP460 2-2.6	21-Ap17399	Apr 08, 2021	Approximate Sample 525g 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.
TP449 0.3-0.9	21-Ap17400	Apr 08, 2021	Approximate Sample 478g 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.
TP461 1-2	21-Ap17401	Apr 08, 2021	Approximate Sample 470g Sample consisted of: Brown coarse-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP454 0.7-1.2	21-Ap17402	Apr 08, 2021	Approximate Sample 442g Sample consisted of: Brown coarse-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
TP456 2.8-3	21-Ap17403	Apr 08, 2021	Approximate Sample 418g 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.
TP445 1-1.8	21-Ap17411	Apr 08, 2021	Approximate Sample 513g Sample consisted of: Brown coarse-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP459 1.4-2.4	21-Ap17415	Apr 08, 2021	Approximate Sample 522g 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.

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	Apr 13, 2021	Indefinite

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
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Murarrie QLD 4172
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Perth
46-48 Banksia Road
Welshpool WA 6106
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Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**													
1	BH354 0-0.2	Apr 08, 2021		Soil	S21-Ap17340				X		X			X				
2	BH354 0.9-1	Apr 08, 2021		Soil	S21-Ap17341					X				X		X		
3	BH355 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17342				X		X			X				
4	BH351 0-0.2	Apr 08, 2021		Soil	S21-Ap17343								X	X				
5	BH335 0-0.2	Apr 08, 2021		Soil	S21-Ap17344				X		X			X				
6	BH334 0-0.2	Apr 08, 2021		Soil	S21-Ap17345				X		X			X				
7	BH348 0-0.2	Apr 08, 2021		Soil	S21-Ap17346					X				X	X			
8	BH349 0-0.2	Apr 08, 2021		Soil	S21-Ap17347				X		X			X				
9	BH350 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17349						X			X				

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Australia

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Phone : +61 2 4968 8448

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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
10	BH339 0-0.1	Apr 07, 2021		Soil	S21-Ap17350									X			X	
11	BH340 0-0.2	Apr 07, 2021		Soil	S21-Ap17351					X				X				
12	BH341 0-0.2	Apr 07, 2021		Soil	S21-Ap17352				X		X			X				
13	BH365 0-0.2	Apr 07, 2021		Soil	S21-Ap17353					X				X		X		
14	BH366 0.2-0.6	Apr 07, 2021		Soil	S21-Ap17354				X		X			X				
15	BH369 0-0.5	Apr 07, 2021		Soil	S21-Ap17355					X				X		X		
16	BH344 0-0.2	Apr 07, 2021		Soil	S21-Ap17356									X			X	
17	BH363 0-0.1	Apr 07, 2021		Soil	S21-Ap17357				X		X			X				
18	BH387 0-0.1	Apr 07, 2021		Soil	S21-Ap17358				X		X			X				
19	BH347 0-0.2	Apr 08, 2021		Soil	S21-Ap17359				X		X			X				
20	BH346 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17360				X		X			X				

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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
21	BH336 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17361					X	X			X				
22	BH369 0-0.1	Apr 08, 2021		Soil	S21-Ap17362								X	X				
23	BH345 0-0.1	Apr 08, 2021		Soil	S21-Ap17363					X	X			X				
24	BH338 0-0.1	Apr 08, 2021		Soil	S21-Ap17364									X			X	
25	BH361 0-0.1	Apr 08, 2021		Soil	S21-Ap17365					X	X			X				
26	BH386 0.5-0.6	Apr 08, 2021		Soil	S21-Ap17366				X		X			X				
27	BH172 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17367									X	X			
28	BH177 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17368				X		X			X				
29	BH348 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17370									X	X			
30	BH335 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17371								X	X		X		
31	BH334 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17372									X	X			

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Australia

Melbourne
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Sydney
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Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
32	BH350 0-0.2	Apr 08, 2021		Soil	S21-Ap17373								X	X		X		
33	BH352 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17374									X			X	
34	BH372 0-0.1	Apr 08, 2021		Soil	S21-Ap17375					X				X				
35	BH379 0-0.1	Apr 08, 2021		Soil	S21-Ap17376				X		X			X				
36	BH373 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17377									X	X			
37	BH377 0-0.1	Apr 08, 2021		Soil	S21-Ap17378					X				X			X	
38	BH171 0-0.1	Apr 08, 2021		Soil	S21-Ap17379				X		X			X				
39	BH172 0-0.1	Apr 08, 2021		Soil	S21-Ap17380									X	X			
40	BH175 0-0.1	Apr 08, 2021		Soil	S21-Ap17381				X		X			X				
41	BH169 0-0.1	Apr 08, 2021		Soil	S21-Ap17382					X				X		X		
42	BH170 0-0.1	Apr 08, 2021		Soil	S21-Ap17383				X		X			X				

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Australia

Melbourne
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Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
43	BH331 0-0.1	Apr 08, 2021		Soil	S21-Ap17384				X	X	X			X				
44	BH375 0-0.1	Apr 08, 2021		Soil	S21-Ap17385									X			X	
45	BH353 0-0.1	Apr 08, 2021		Soil	S21-Ap17386									X			X	
46	BH384 0-0.1	Apr 07, 2021		Soil	S21-Ap17387				X		X			X				
47	BH371 0-0.1	Apr 07, 2021		Soil	S21-Ap17388									X			X	
48	BH360 0-0.1	Apr 07, 2021		Soil	S21-Ap17389				X		X			X				
49	BH388 0-0.1	Apr 07, 2021		Soil	S21-Ap17390									X			X	
50	BH389 0-0.1	Apr 07, 2021		Soil	S21-Ap17391								X	X				
51	BH367 0-0.1	Apr 07, 2021		Soil	S21-Ap17392						X			X		X		
52	BH364 0-0.1	Apr 07, 2021		Soil	S21-Ap17393						X			X		X		
53	BH385 0-0.1	Apr 07, 2021		Soil	S21-Ap17394									X			X	

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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
54	TP450 2-2.5	Apr 08, 2021		Soil	S21-Ap17395	X												
55	TP451 1-2	Apr 08, 2021		Soil	S21-Ap17396	X												
56	TP457 2-2.5	Apr 08, 2021		Soil	S21-Ap17397	X												
57	TP452 1-2	Apr 08, 2021		Soil	S21-Ap17398	X												
58	TP460 2-2.6	Apr 08, 2021		Soil	S21-Ap17399	X												
59	TP449 0.3-0.9	Apr 08, 2021		Soil	S21-Ap17400	X												
60	TP461 1-2	Apr 08, 2021		Soil	S21-Ap17401	X												
61	TP454 0.7-1.2	Apr 08, 2021		Soil	S21-Ap17402	X												
62	TP456 2.8-3	Apr 08, 2021		Soil	S21-Ap17403	X												
63	TP452 2.4-2.5	Apr 08, 2021		Soil	S21-Ap17404									X	X			
64	TP456 0-0.1	Apr 08, 2021		Soil	S21-Ap17405									X	X			

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Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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
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Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
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IANZ # 1327

Christchurch
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Rolleston, Christchurch 7675
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IANZ # 1290

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NSW 2000

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Order No.:
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Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
65	TP452 1.1-1.2	Apr 08, 2021		Soil	S21-Ap17406					X				X	X			
66	TP454 1.4-1.5	Apr 08, 2021		Soil	S21-Ap17407									X	X			
67	TP461 2.4-2.5	Apr 08, 2021		Soil	S21-Ap17408					X				X	X			
68	TP457 2.5-2.6	Apr 08, 2021		Soil	S21-Ap17409				X		X			X				
69	TP449 1.2-1.3	Apr 08, 2021		Soil	S21-Ap17410									X	X			
70	TP445 1-1.8	Apr 08, 2021		Soil	S21-Ap17411	X												
71	BH355 0-0.2	Apr 08, 2021		Soil	S21-Ap17412				X		X			X				
72	TS	Apr 08, 2021		Water	S21-Ap17413													X
73	TB	Apr 08, 2021		Water	S21-Ap17414							X						
74	TP459 1.4-2.4	Apr 08, 2021		Soil	S21-Ap17415	X												
75	BH354 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17416			X										

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Australia

Melbourne
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NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
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Murarrie QLD 4172
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Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
35 O'Rorke Road
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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
76	BH351 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17418			X										
77	BH349 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17422			X										
78	FC1	Apr 08, 2021		Building Materials	S21-Ap17423			X										
79	BH339 0.4-0.5	Apr 07, 2021		Soil	S21-Ap17424			X										
80	BH340 0.2-0.5	Apr 07, 2021		Soil	S21-Ap17425			X										
81	BH341 0.2-0.5	Apr 07, 2021		Soil	S21-Ap17426			X										
82	BH365 0.2-0.6	Apr 07, 2021		Soil	S21-Ap17427			X										
83	BH366 0-0.2	Apr 07, 2021		Soil	S21-Ap17428			X										
84	BH369 0.6-1.1	Apr 07, 2021		Soil	S21-Ap17429			X										
85	BH343 0-0.2	Apr 07, 2021		Soil	S21-Ap17430			X										

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Australia

Melbourne
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Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
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Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
86	BH343 0.2-0.5	Apr 07, 2021		Soil	S21-Ap17431			X										
87	BH344 0.2-0.6	Apr 07, 2021		Soil	S21-Ap17432			X										
88	BH363 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17433			X										
89	BH387 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17434			X										
90	BH337 0-0.2	Apr 08, 2021		Soil	S21-Ap17435			X										
91	BH346 0-0.2	Apr 08, 2021		Soil	S21-Ap17436			X										
92	BH347 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17437			X										
93	BH337 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17438			X										
94	BH336 0-0.2	Apr 08, 2021		Soil	S21-Ap17439			X										
95	BH369 0.5-0.6	Apr 08, 2021		Soil	S21-Ap17440		X											
96	BH345 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17441			X										

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Australia

Melbourne
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Dandenong South VIC 3175
Phone : +61 3 8564 5000
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Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

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Perth
46-48 Banksia Road
Welshpool WA 6106
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NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
35 O'Rorke Road
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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
97	BH338 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17442			X										
98	BH361 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17443			X										
99	BH386 0-0.1	Apr 08, 2021		Soil	S21-Ap17444			X										
100	BH362 0-0.1	Apr 08, 2021		Soil	S21-Ap17445			X										
101	BH362 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17446			X										
102	BH173 0-0.1	Apr 08, 2021		Soil	S21-Ap17447			X										
103	BH173 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17448			X										
104	BH177 0-0.1	Apr 08, 2021		Soil	S21-Ap17449			X										
105	BH178 0-0.1	Apr 08, 2021		Soil	S21-Ap17450			X										
106	BH178 0.3-..5	Apr 08, 2021		Soil	S21-Ap17451			X										
107	BH332 0-0.1	Apr 08, 2021		Soil	S21-Ap17452			X										

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Australia

Melbourne
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Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
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IANZ # 1327

Christchurch
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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
108	BH332 0.5-0.6	Apr 08, 2021		Soil	S21-Ap17453			X										
109	BH349 0-0.2	Apr 08, 2021		Soil	S21-Ap17456			X										
110	BH356 0-0.1	Apr 08, 2021		Soil	S21-Ap17460			X										
111	BH356 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17461			X										
112	BH372 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17462			X										
113	BH382 0-0.1	Apr 08, 2021		Soil	S21-Ap17463			X										
114	BH382 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17464			X										
115	BH379 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17465			X										
116	BH373 0-0.1	Apr 08, 2021		Soil	S21-Ap17466			X										
117	BH383 0-0.1	Apr 08, 2021		Soil	S21-Ap17467			X										
118	BH383 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17468			X										

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Site # 1254 & 14271

Sydney
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Perth
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Newcastle
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Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
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Mayfield Laboratory																		
External Laboratory																		
119	BH377 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17469			X										
120	BH386 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17471			X										
121	BH171 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17472			X										
122	BH175 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17473			X										
123	BH176 0-0.1	Apr 08, 2021		Soil	S21-Ap17474			X										
124	BH176 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17475			X										
125	BH174 0-0.1	Apr 08, 2021		Soil	S21-Ap17476			X										
126	BH174 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17477			X										
127	BH169 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17478			X										
128	BH170 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17479			X										
129	BH331 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17480			X										

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Australia

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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
130	BH331 FRAG	Apr 08, 2021		Building Materials	S21-Ap17481			X										
131	BH375 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17482			X										
132	BH378 0-0.1	Apr 08, 2021		Soil	S21-Ap17483			X										
133	BH378 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17484			X										
134	BH353 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17485			X										
135	BH352 0-0.1	Apr 08, 2021		Soil	S21-Ap17486			X										
136	BH342 0-0.1	Apr 07, 2021		Soil	S21-Ap17487			X										
137	BH370 0-0.1	Apr 07, 2021		Soil	S21-Ap17488			X										
138	BH384 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17489			X										
139	BH371 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17490			X										

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Sample Detail						Asbestos - WA guidelines	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	BTEX	Suite B13: OCP/PCB	Moisture Set	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B4	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
140	BH360 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17491			X										
141	BH388 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17492			X										
142	BH389 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17493			X										
143	BH367 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17494			X										
144	BH342 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17495			X										
145	BH364 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17496			X										
146	BH386 0.5-0.7	Apr 07, 2021		Soil	S21-Ap17497			X										
147	BH370 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17498			X										
148	TP450 0-1	Apr 08, 2021		Soil	S21-Ap17499			X										
149	TP450 1-2	Apr 08, 2021		Soil	S21-Ap17500			X										
150	TP459 0-0.4	Apr 08, 2021		Soil	S21-Ap17501			X										

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786610
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 9:02 AM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	BTEX	Suite B13: OCP/PCB	Moisture Set	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B4	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
151	TP454 0-0.7	Apr 08, 2021		Soil	S21-Ap17502			X										
152	TP444 0-0.3	Apr 08, 2021		Soil	S21-Ap17503			X										
153	TP452 0-1	Apr 08, 2021		Soil	S21-Ap17504			X										
154	TP452 0-0.1	Apr 08, 2021		Soil	S21-Ap17505			X										
155	TP451 2-2.8	Apr 08, 2021		Soil	S21-Ap17506			X										
156	TP457 1-2	Apr 08, 2021		Soil	S21-Ap17507			X										
157	TP460 1-2	Apr 08, 2021		Soil	S21-Ap17508			X										
158	TP451 2.8-3.8	Apr 08, 2021		Soil	S21-Ap17509			X										
159	TP457 0-1	Apr 08, 2021		Soil	S21-Ap17510			X										
160	TP456 1-2	Apr 08, 2021		Soil	S21-Ap17511			X										
161	TP461 0-1	Apr 08, 2021		Soil	S21-Ap17512			X										

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Phone : +61 2 4968 8448

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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
162	TP460 2.6-2.8	Apr 08, 2021		Soil	S21-Ap17513			X										
163	TP451 0-1	Apr 08, 2021		Soil	S21-Ap17514			X										
164	TP456 0-1	Apr 08, 2021		Soil	S21-Ap17515			X										
165	TP460 0-1	Apr 08, 2021		Soil	S21-Ap17516			X										
166	TP456 0.3-3.5	Apr 08, 2021		Soil	S21-Ap17517			X										
167	TP452 0-0.1	Apr 08, 2021		Soil	S21-Ap17518			X										
168	TP460 0-0.1	Apr 08, 2021		Soil	S21-Ap17519			X										
169	TP460 2.6-2.8	Apr 08, 2021		Soil	S21-Ap17520			X										
170	TP451 2.8-3	Apr 08, 2021		Soil	S21-Ap17521			X										
171	TP449 1-1.1	Apr 08, 2021		Soil	S21-Ap17522			X										
172	TP457 0-0.1	Apr 08, 2021		Soil	S21-Ap17523			X										

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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
173	TP451 0-0.1	Apr 08, 2021		Soil	S21-Ap17524			X										
174	TP450 2.5-2.6	Apr 08, 2021		Soil	S21-Ap17525			X										
175	TP357 0-0.1	Apr 08, 2021		Soil	S21-Ap17526			X										
176	TP358 0-0.1	Apr 08, 2021		Soil	S21-Ap17527			X										
177	TP445 0-1	Apr 08, 2021		Soil	S21-Ap17528			X										
178	TP445 1.8-2.5	Apr 08, 2021		Soil	S21-Ap17529			X										
179	TP445 2.5-3.5	Apr 08, 2021		Soil	S21-Ap17530			X										
180	TP459 0.4-1.4	Apr 08, 2021		Soil	S21-Ap17533			X										
181	BHX	Apr 08, 2021		Soil	S21-Ap19659			X										
182	BH380 0.0-0.1	Apr 08, 2021		Soil	S21-Ap19660			X										
183	BH362	Apr 08, 2021		Soil	S21-Ap19661			X										

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Project ID: 60482

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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
184	BLANK	Apr 08, 2021		Soil	S21-Ap19662			X										
Test Counts						11	1	109	22	14	28	1	5	61	12	8	10	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 blue colour, 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 '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 Advice.

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: weight for weight basis	grams per kilogram
Filter loading:	fibres/100 graticule areas
Reported Concentration:	fibres/mL
Flowrate:	L/min

Terms

Dry	Sample is dried by heating prior to analysis
LOR	Limit of Reporting
COC	Chain of Custody
SRA	Sample Receipt Advice
ISO	International Standards Organisation
AS	Australian Standards
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 (2009), including supporting document Recommended Procedures for Laboratory Analysis of Asbestos in Soil (2011)
NEPM	National Environment Protection (Assessment of Site Contamination) Measure, 2013 (as amended)
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded and/or sound condition. For the purposes of the NEPM, ACM is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
AF	Asbestos Fines. Asbestos containing materials, including friable, weathered and bonded materials, able to pass a 7mm x 7mm sieve. Considered under the NEPM as equivalent to “non-bonded / friable”.
FA	Fibrous Asbestos. Asbestos containing materials in a friable and/or severely weathered condition. For the purposes of the NEPM, FA is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
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.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres in the matrix.

Comments

Ap17395, Ap17397, Ap17398, Ap17400 to Ap17403: 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	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
N/A	Not applicable

Asbestos Counter/Identifier:

Sayeed Abu	Senior Analyst-Asbestos (NSW)

Authorised by:

Chamath JHM Annakkage	Senior Analyst-Asbestos (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.

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.

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

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 and proficiency testing scheme providers reports.

Attention: **Ryan Lill**

Report **786610-S**
Project name KEMPS CREEK DSI
Project ID 60482
Received Date Apr 12, 2021

Client Sample ID			**BH354 0-0.2**	**BH354 0.9-1**	**BH355 0.4-0.5**	**BH351 0-0.2**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**S21-Ap17340**	**S21-Ap17341**	**S21-Ap17342**	**S21-Ap17343**
Date Sampled			**Apr 08, 2021**	**Apr 08, 2021**	**Apr 08, 2021**	**Apr 08, 2021**
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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	-
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	-
2-Fluorobiphenyl (surr.)	1	%	94	-	87	-
p-Terphenyl-d14 (surr.)	1	%	119	-	113	-
Heavy Metals						
Arsenic	2	mg/kg	13	-	15	-
Cadmium	0.4	mg/kg	< 0.4	-	< 0.4	-
Chromium	5	mg/kg	18	-	24	-
Copper	5	mg/kg	42	-	25	-
Lead	5	mg/kg	19	-	15	-
Mercury	0.1	mg/kg	< 0.1	-	< 0.1	-
Nickel	5	mg/kg	9.7	-	8.8	-
Zinc	5	mg/kg	72	-	46	-
% Moisture	1	%	22	18	21	21

Client Sample ID			BH354 0-0.2	BH354 0.9-1	BH355 0.4-0.5	BH351 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17340	S21-Ap17341	S21-Ap17342	S21-Ap17343
Date Sampled			Apr 08, 2021	Apr 08, 2021	Apr 08, 2021	Apr 08, 2021
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	-	< 50	-	-
TRH C29-C36	50	mg/kg	-	< 50	-	-
TRH C10-C36 (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	%	-	90	-	-
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	-	-
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	-	-
Acid Herbicides						
2.4-D	0.5	mg/kg	-	< 0.5	-	-
2.4-DB	0.5	mg/kg	-	< 0.5	-	-
2.4.5-T	0.5	mg/kg	-	< 0.5	-	-
2.4.5-TP	0.5	mg/kg	-	< 0.5	-	-
Actril (loxynil)	0.5	mg/kg	-	< 0.5	-	-
Dicamba	0.5	mg/kg	-	< 0.5	-	-
Dichlorprop	0.5	mg/kg	-	< 0.5	-	-
Dinitro-o-cresol	0.5	mg/kg	-	< 0.5	-	-
Dinoseb	0.5	mg/kg	-	< 0.5	-	-
MCPA	0.5	mg/kg	-	< 0.5	-	-
MCPB	0.5	mg/kg	-	< 0.5	-	-
Mecoprop	0.5	mg/kg	-	< 0.5	-	-
Warfarin (surr.)	1	%	-	61	-	-
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

Client Sample ID			BH354 0-0.2	BH354 0.9-1	BH355 0.4-0.5	BH351 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17340	S21-Ap17341	S21-Ap17342	S21-Ap17343
Date Sampled			Apr 08, 2021	Apr 08, 2021	Apr 08, 2021	Apr 08, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
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	0.1	mg/kg	-	-	-	< 0.1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	-	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	-	< 0.2
Dibutylchlorendate (surr.)	1	%	-	-	-	132
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	114
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1221	0.1	mg/kg	-	-	-	< 0.1
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	%	-	-	-	132
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	114

Client Sample ID			BH335 0-0.2	BH334 0-0.2	BH348 0-0.2	BH349 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17344	S21-Ap17345	S21-Ap17346	S21-Ap17347
Date Sampled			Apr 08, 2021	Apr 08, 2021	Apr 08, 2021	Apr 08, 2021
Test/Reference	LOR	Unit				
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

Client Sample ID			BH335 0-0.2	BH334 0-0.2	BH348 0-0.2	BH349 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17344	S21-Ap17345	S21-Ap17346	S21-Ap17347
Date Sampled			Apr 08, 2021	Apr 08, 2021	Apr 08, 2021	Apr 08, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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	%	79	89	74	82
p-Terphenyl-d14 (surr.)	1	%	92	99	84	93
Heavy Metals						
Arsenic	2	mg/kg	9.6	13	9.8	11
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	15	23	20	22
Copper	5	mg/kg	62	57	50	51
Lead	5	mg/kg	18	21	18	22
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	9.7	13	11	13
Zinc	5	mg/kg	54	100	86	88
% Moisture	1	%	19	21	19	18
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	-	< 20	-
TRH C10-C14	20	mg/kg	-	-	160	-
TRH C15-C28	50	mg/kg	-	-	670	-
TRH C29-C36	50	mg/kg	-	-	< 50	-
TRH C10-C36 (Total)	50	mg/kg	-	-	830	-
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	%	-	-	91	-
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	-	-	320	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	-	320	-
TRH >C16-C34	100	mg/kg	-	-	480	-
TRH >C34-C40	100	mg/kg	-	-	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	-	-	800	-
Acid Herbicides						
2.4-D	0.5	mg/kg	-	-	< 0.5	-
2.4-DB	0.5	mg/kg	-	-	< 0.5	-
2.4.5-T	0.5	mg/kg	-	-	< 0.5	-
2.4.5-TP	0.5	mg/kg	-	-	< 0.5	-
Actril (loxynil)	0.5	mg/kg	-	-	< 0.5	-
Dicamba	0.5	mg/kg	-	-	< 0.5	-
Dichlorprop	0.5	mg/kg	-	-	< 0.5	-

Client Sample ID			BH335 0-0.2	BH334 0-0.2	BH348 0-0.2	BH349 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17344	S21-Ap17345	S21-Ap17346	S21-Ap17347
Date Sampled			Apr 08, 2021	Apr 08, 2021	Apr 08, 2021	Apr 08, 2021
Test/Reference	LOR	Unit				
Acid Herbicides						
Dinitro-o-cresol	0.5	mg/kg	-	-	< 0.5	-
Dinoseb	0.5	mg/kg	-	-	< 0.5	-
MCPA	0.5	mg/kg	-	-	< 0.5	-
MCPB	0.5	mg/kg	-	-	< 0.5	-
Mecoprop	0.5	mg/kg	-	-	< 0.5	-
Warfarin (surr.)	1	%	-	-	57	-

Client Sample ID			BH350 0.4-0.5	BH339 0-0.1	BH340 0-0.2	BH341 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17349	S21-Ap17350	S21-Ap17351	S21-Ap17352
Date Sampled			Apr 08, 2021	Apr 07, 2021	Apr 07, 2021	Apr 07, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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
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
2-Fluorobiphenyl (surr.)	1	%	-	82	-	85
p-Terphenyl-d14 (surr.)	1	%	-	91	-	94
Heavy Metals						
Arsenic	2	mg/kg	33	-	-	21
Cadmium	0.4	mg/kg	< 0.4	-	-	< 0.4
Chromium	5	mg/kg	35	-	-	23
Copper	5	mg/kg	33	-	-	71
Lead	5	mg/kg	17	-	-	28
Mercury	0.1	mg/kg	< 0.1	-	-	< 0.1
Nickel	5	mg/kg	18	-	-	13
Zinc	5	mg/kg	85	-	-	100
% Moisture	1	%	28	18	18	15

Client Sample ID			BH350 0.4-0.5	BH339 0-0.1	BH340 0-0.2	BH341 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17349	S21-Ap17350	S21-Ap17351	S21-Ap17352
Date Sampled			Apr 08, 2021	Apr 07, 2021	Apr 07, 2021	Apr 07, 2021
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	-	< 50	-	-
TRH C29-C36	50	mg/kg	-	< 50	-	-
TRH C10-C36 (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	%	-	52	-	-
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	-	-
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	-	-
Acid Herbicides						
2.4-D	0.5	mg/kg	-	-	< 0.5	-
2.4-DB	0.5	mg/kg	-	-	< 0.5	-
2.4.5-T	0.5	mg/kg	-	-	< 0.5	-
2.4.5-TP	0.5	mg/kg	-	-	< 0.5	-
Actril (loxynil)	0.5	mg/kg	-	-	< 0.5	-
Dicamba	0.5	mg/kg	-	-	< 0.5	-
Dichlorprop	0.5	mg/kg	-	-	< 0.5	-
Dinitro-o-cresol	0.5	mg/kg	-	-	< 0.5	-
Dinoseb	0.5	mg/kg	-	-	< 0.5	-
MCPA	0.5	mg/kg	-	-	< 0.5	-
MCPB	0.5	mg/kg	-	-	< 0.5	-
Mecoprop	0.5	mg/kg	-	-	< 0.5	-
Warfarin (surr.)	1	%	-	-	64	-

Client Sample ID			BH365 0-0.2	BH366 0.2-0.6	BH369 0-0.5	BH344 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17353	S21-Ap17354	S21-Ap17355	S21-Ap17356
Date Sampled			Apr 07, 2021	Apr 07, 2021	Apr 07, 2021	Apr 07, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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
Acenaphthene	0.5	mg/kg	-	< 0.5	-	< 0.5
Acenaphthylene	0.5	mg/kg	-	< 0.5	-	< 0.5

Client Sample ID			BH365 0-0.2	BH366 0.2-0.6	BH369 0-0.5	BH344 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17353	S21-Ap17354	S21-Ap17355	S21-Ap17356
Date Sampled			Apr 07, 2021	Apr 07, 2021	Apr 07, 2021	Apr 07, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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
2-Fluorobiphenyl (surr.)	1	%	-	77	-	73
p-Terphenyl-d14 (surr.)	1	%	-	94	-	89
Heavy Metals						
Arsenic	2	mg/kg	-	29	-	-
Cadmium	0.4	mg/kg	-	< 0.4	-	-
Chromium	5	mg/kg	-	25	-	-
Copper	5	mg/kg	-	54	-	-
Lead	5	mg/kg	-	21	-	-
Mercury	0.1	mg/kg	-	< 0.1	-	-
Nickel	5	mg/kg	-	23	-	-
Zinc	5	mg/kg	-	110	-	-
% Moisture	1	%	18	18	22	23
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-C36 (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	%	114	-	83	96
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

Client Sample ID			BH365 0-0.2	BH366 0.2-0.6	BH369 0-0.5	BH344 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17353	S21-Ap17354	S21-Ap17355	S21-Ap17356
Date Sampled			Apr 07, 2021	Apr 07, 2021	Apr 07, 2021	Apr 07, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C34-C40	100	mg/kg	< 100	-	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	< 100	< 100
Acid Herbicides						
2.4-D	0.5	mg/kg	< 0.5	-	< 0.5	-
2.4-DB	0.5	mg/kg	< 0.5	-	< 0.5	-
2.4.5-T	0.5	mg/kg	< 0.5	-	< 0.5	-
2.4.5-TP	0.5	mg/kg	< 0.5	-	< 0.5	-
Actril (loxynil)	0.5	mg/kg	< 0.5	-	< 0.5	-
Dicamba	0.5	mg/kg	< 0.5	-	< 0.5	-
Dichlorprop	0.5	mg/kg	< 0.5	-	< 0.5	-
Dinitro-o-cresol	0.5	mg/kg	< 0.5	-	< 0.5	-
Dinoseb	0.5	mg/kg	< 0.5	-	< 0.5	-
MCPA	0.5	mg/kg	< 0.5	-	< 0.5	-
MCPB	0.5	mg/kg	< 0.5	-	< 0.5	-
Mecoprop	0.5	mg/kg	< 0.5	-	< 0.5	-
Warfarin (surr.)	1	%	68	-	67	-

Client Sample ID			BH363 0-0.1	BH387 0-0.1	BH347 0-0.2	BH346 0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17357	S21-Ap17358	S21-Ap17359	S21-Ap17360
Date Sampled			Apr 07, 2021	Apr 07, 2021	Apr 08, 2021	Apr 08, 2021
Test/Reference	LOR	Unit				
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	%	76	85	82	74
p-Terphenyl-d14 (surr.)	1	%	94	87	92	84

Client Sample ID			BH363 0-0.1	BH387 0-0.1	BH347 0-0.2	BH346 0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17357	S21-Ap17358	S21-Ap17359	S21-Ap17360
Date Sampled			Apr 07, 2021	Apr 07, 2021	Apr 08, 2021	Apr 08, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	11	17	8.8	11
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	23	30	19	24
Copper	5	mg/kg	68	65	53	42
Lead	5	mg/kg	25	29	17	19
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	12	14	11	15
Zinc	5	mg/kg	140	140	87	68
% Moisture	1	%	14	15	21	17

Client Sample ID			BH336 0.4-0.5	BH369 0-0.1	BH345 0-0.1	BH338 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17361	S21-Ap17362	S21-Ap17363	S21-Ap17364
Date Sampled			Apr 08, 2021	Apr 08, 2021	Apr 08, 2021	Apr 08, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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
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
2-Fluorobiphenyl (surr.)	1	%	-	-	-	76
p-Terphenyl-d14 (surr.)	1	%	-	-	-	86
Heavy Metals						
Arsenic	2	mg/kg	14	-	9.6	-
Cadmium	0.4	mg/kg	< 0.4	-	< 0.4	-
Chromium	5	mg/kg	19	-	20	-
Copper	5	mg/kg	45	-	67	-
Lead	5	mg/kg	21	-	22	-
Mercury	0.1	mg/kg	< 0.1	-	< 0.1	-
Nickel	5	mg/kg	14	-	12	-
Zinc	5	mg/kg	54	-	130	-

Client Sample ID			BH336 0.4-0.5	BH369 0-0.1	BH345 0-0.1	BH338 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17361	S21-Ap17362	S21-Ap17363	S21-Ap17364
Date Sampled			Apr 08, 2021	Apr 08, 2021	Apr 08, 2021	Apr 08, 2021
Test/Reference	LOR	Unit				
% Moisture	1	%	20	10	8.4	14
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-C36 (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	%	-	-	-	95
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
TRH >C10-C40 (total)*	100	mg/kg	-	-	-	< 100
Acid Herbicides						
2.4-D	0.5	mg/kg	< 0.5	-	< 0.5	-
2.4-DB	0.5	mg/kg	< 0.5	-	< 0.5	-
2.4.5-T	0.5	mg/kg	< 0.5	-	< 0.5	-
2.4.5-TP	0.5	mg/kg	< 0.5	-	< 0.5	-
Actril (loxynil)	0.5	mg/kg	< 0.5	-	< 0.5	-
Dicamba	0.5	mg/kg	< 0.5	-	< 0.5	-
Dichlorprop	0.5	mg/kg	< 0.5	-	< 0.5	-
Dinitro-o-cresol	0.5	mg/kg	< 0.5	-	< 0.5	-
Dinoseb	0.5	mg/kg	< 0.5	-	< 0.5	-
MCPA	0.5	mg/kg	< 0.5	-	< 0.5	-
MCPB	0.5	mg/kg	< 0.5	-	< 0.5	-
Mecoprop	0.5	mg/kg	< 0.5	-	< 0.5	-
Warfarin (surr.)	1	%	68	-	69	-
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			BH336 0.4-0.5	BH369 0-0.1	BH345 0-0.1	BH338 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17361	S21-Ap17362	S21-Ap17363	S21-Ap17364
Date Sampled			Apr 08, 2021	Apr 08, 2021	Apr 08, 2021	Apr 08, 2021
Test/Reference	LOR	Unit				
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	0.1	mg/kg	-	< 0.1	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.2	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.2	-	-
Dibutylchlorendate (surr.)	1	%	-	92	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	107	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	< 0.5	-	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	-
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	%	-	92	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	107	-	-

Client Sample ID			BH361 0-0.1	BH386 0.5-0.6	BH172 0.4-0.5	BH177 0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17365	S21-Ap17366	S21-Ap17367	S21-Ap17368
Date Sampled			Apr 08, 2021	Apr 08, 2021	Apr 08, 2021	Apr 08, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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
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

Client Sample ID			BH361 0-0.1	BH386 0.5-0.6	BH172 0.4-0.5	BH177 0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17365	S21-Ap17366	S21-Ap17367	S21-Ap17368
Date Sampled			Apr 08, 2021	Apr 08, 2021	Apr 08, 2021	Apr 08, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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
2-Fluorobiphenyl (surr.)	1	%	-	79	81	80
p-Terphenyl-d14 (surr.)	1	%	-	86	93	91
Heavy Metals						
Arsenic	2	mg/kg	11	10	20	12
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	23	20	19	26
Copper	5	mg/kg	72	64	19	33
Lead	5	mg/kg	24	22	15	14
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	12	11	12	18
Zinc	5	mg/kg	140	140	54	70
% Moisture	1	%	13	13	16	19
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-C36 (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	%	-	-	99	-
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	-
TRH >C10-C40 (total)*	100	mg/kg	-	-	< 100	-
Acid Herbicides						
2.4-D	0.5	mg/kg	< 0.5	-	-	-
2.4-DB	0.5	mg/kg	< 0.5	-	-	-
2.4.5-T	0.5	mg/kg	< 0.5	-	-	-
2.4.5-TP	0.5	mg/kg	< 0.5	-	-	-
Actril (loxynil)	0.5	mg/kg	< 0.5	-	-	-

Client Sample ID			BH361 0-0.1	BH386 0.5-0.6	BH172 0.4-0.5	BH177 0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17365	S21-Ap17366	S21-Ap17367	S21-Ap17368
Date Sampled			Apr 08, 2021	Apr 08, 2021	Apr 08, 2021	Apr 08, 2021
Test/Reference	LOR	Unit				
Acid Herbicides						
Dicamba	0.5	mg/kg	< 0.5	-	-	-
Dichlorprop	0.5	mg/kg	< 0.5	-	-	-
Dinitro-o-cresol	0.5	mg/kg	< 0.5	-	-	-
Dinoseb	0.5	mg/kg	< 0.5	-	-	-
MCPA	0.5	mg/kg	< 0.5	-	-	-
MCPB	0.5	mg/kg	< 0.5	-	-	-
Mecoprop	0.5	mg/kg	< 0.5	-	-	-
Warfarin (surr.)	1	%	62	-	-	-

Client Sample ID			BH348 0.4-0.5	BH335 0.4-0.5	BH334 0.4-0.5	BH350 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17370	S21-Ap17371	S21-Ap17372	S21-Ap17373
Date Sampled			Apr 08, 2021	Apr 08, 2021	Apr 08, 2021	Apr 08, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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	-
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	-
2-Fluorobiphenyl (surr.)	1	%	85	-	82	-
p-Terphenyl-d14 (surr.)	1	%	94	-	93	-
Heavy Metals						
Arsenic	2	mg/kg	9.5	-	9.4	-
Cadmium	0.4	mg/kg	< 0.4	-	< 0.4	-
Chromium	5	mg/kg	22	-	25	-
Copper	5	mg/kg	35	-	37	-
Lead	5	mg/kg	16	-	15	-
Mercury	0.1	mg/kg	< 0.1	-	< 0.1	-
Nickel	5	mg/kg	12	-	16	-
Zinc	5	mg/kg	51	-	71	-
% Moisture	1	%	18	21	22	20

Client Sample ID			BH348 0.4-0.5	BH335 0.4-0.5	BH334 0.4-0.5	BH350 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17370	S21-Ap17371	S21-Ap17372	S21-Ap17373
Date Sampled			Apr 08, 2021	Apr 08, 2021	Apr 08, 2021	Apr 08, 2021
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	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (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	%	96	72	95	62
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
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
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	0.1	mg/kg	-	< 0.1	-	< 0.1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.2	-	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.2	-	< 0.2
Dibutylchlorendate (surr.)	1	%	-	101	-	92
Tetrachloro-m-xylene (surr.)	1	%	-	92	-	89

Client Sample ID			BH348 0.4-0.5	BH335 0.4-0.5	BH334 0.4-0.5	BH350 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17370	S21-Ap17371	S21-Ap17372	S21-Ap17373
Date Sampled			Apr 08, 2021	Apr 08, 2021	Apr 08, 2021	Apr 08, 2021
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	< 0.5	-	< 0.5
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	< 0.1
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	%	-	101	-	92
Tetrachloro-m-xylene (surr.)	1	%	-	92	-	89

Client Sample ID			BH352 0.3-0.4	BH372 0-0.1	BH379 0-0.1	BH373 0.3-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17374	S21-Ap17375	S21-Ap17376	S21-Ap17377
Date Sampled			Apr 08, 2021	Apr 08, 2021	Apr 08, 2021	Apr 08, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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
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
2-Fluorobiphenyl (surr.)	1	%	83	-	85	84
p-Terphenyl-d14 (surr.)	1	%	97	-	95	95
Heavy Metals						
Arsenic	2	mg/kg	-	-	18	7.0
Cadmium	0.4	mg/kg	-	-	< 0.4	< 0.4
Chromium	5	mg/kg	-	-	25	21
Copper	5	mg/kg	-	-	43	28
Lead	5	mg/kg	-	-	28	13
Mercury	0.1	mg/kg	-	-	< 0.1	< 0.1
Nickel	5	mg/kg	-	-	15	6.3
Zinc	5	mg/kg	-	-	77	33

Client Sample ID			BH352 0.3-0.4	BH372 0-0.1	BH379 0-0.1	BH373 0.3-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17374	S21-Ap17375	S21-Ap17376	S21-Ap17377
Date Sampled			Apr 08, 2021	Apr 08, 2021	Apr 08, 2021	Apr 08, 2021
Test/Reference	LOR	Unit				
% Moisture	1	%	23	18	21	21
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-C36 (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	%	70	-	-	85
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
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	-	< 100
Acid Herbicides						
2.4-D	0.5	mg/kg	-	< 0.5	-	-
2.4-DB	0.5	mg/kg	-	< 0.5	-	-
2.4.5-T	0.5	mg/kg	-	< 0.5	-	-
2.4.5-TP	0.5	mg/kg	-	< 0.5	-	-
Actril (loxynil)	0.5	mg/kg	-	< 0.5	-	-
Dicamba	0.5	mg/kg	-	< 0.5	-	-
Dichlorprop	0.5	mg/kg	-	< 0.5	-	-
Dinitro-o-cresol	0.5	mg/kg	-	< 0.5	-	-
Dinoseb	0.5	mg/kg	-	< 0.5	-	-
MCPA	0.5	mg/kg	-	< 0.5	-	-
MCPB	0.5	mg/kg	-	< 0.5	-	-
Mecoprop	0.5	mg/kg	-	< 0.5	-	-
Warfarin (surr.)	1	%	-	99	-	-

Client Sample ID			BH377 0-0.1	BH171 0-0.1	BH172 0-0.1	BH175 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17378	S21-Ap17379	S21-Ap17380	S21-Ap17381
Date Sampled			Apr 08, 2021	Apr 08, 2021	Apr 08, 2021	Apr 08, 2021
Test/Reference	LOR	Unit				
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	%	92	96	81	106
p-Terphenyl-d14 (surr.)	1	%	96	106	95	92
Heavy Metals						
Arsenic	2	mg/kg	-	9.3	21	17
Cadmium	0.4	mg/kg	-	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	-	19	15	24
Copper	5	mg/kg	-	23	14	17
Lead	5	mg/kg	-	19	22	25
Mercury	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	-	13	18	9.1
Zinc	5	mg/kg	-	67	80	40
% Moisture	1	%	21	23	16	21
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-C36 (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	%	INT	-	84	-

Client Sample ID			BH377 0-0.1	BH171 0-0.1	BH172 0-0.1	BH175 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17378	S21-Ap17379	S21-Ap17380	S21-Ap17381
Date Sampled			Apr 08, 2021	Apr 08, 2021	Apr 08, 2021	Apr 08, 2021
Test/Reference	LOR	Unit				
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	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	< 100	-
Acid Herbicides						
2.4-D	0.5	mg/kg	< 0.5	-	-	-
2.4-DB	0.5	mg/kg	< 0.5	-	-	-
2.4.5-T	0.5	mg/kg	< 0.5	-	-	-
2.4.5-TP	0.5	mg/kg	< 0.5	-	-	-
Actril (loxynil)	0.5	mg/kg	< 0.5	-	-	-
Dicamba	0.5	mg/kg	< 0.5	-	-	-
Dichlorprop	0.5	mg/kg	< 0.5	-	-	-
Dinitro-o-cresol	0.5	mg/kg	< 0.5	-	-	-
Dinoseb	0.5	mg/kg	< 0.5	-	-	-
MCPA	0.5	mg/kg	< 0.5	-	-	-
MCPB	0.5	mg/kg	< 0.5	-	-	-
Mecoprop	0.5	mg/kg	< 0.5	-	-	-
Warfarin (surr.)	1	%	60	-	-	-

Client Sample ID			BH169 0-0.1	BH170 0-0.1	BH331 0-0.1	BH375 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17382	S21-Ap17383	S21-Ap17384	S21-Ap17385
Date Sampled			Apr 08, 2021	Apr 08, 2021	Apr 08, 2021	Apr 08, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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
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

Client Sample ID			BH169 0-0.1	BH170 0-0.1	BH331 0-0.1	BH375 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17382	S21-Ap17383	S21-Ap17384	S21-Ap17385
Date Sampled			Apr 08, 2021	Apr 08, 2021	Apr 08, 2021	Apr 08, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Total PAH*	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	87	89	86
p-Terphenyl-d14 (surr.)	1	%	-	103	99	91
Heavy Metals						
Arsenic	2	mg/kg	-	22	11	-
Cadmium	0.4	mg/kg	-	< 0.4	< 0.4	-
Chromium	5	mg/kg	-	19	24	-
Copper	5	mg/kg	-	22	48	-
Lead	5	mg/kg	-	21	20	-
Mercury	0.1	mg/kg	-	< 0.1	< 0.1	-
Nickel	5	mg/kg	-	15	12	-
Zinc	5	mg/kg	-	51	66	-
% Moisture	1	%	19	20	18	17
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-C36 (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	%	95	-	-	96
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
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	-	< 100
Acid Herbicides						
2.4-D	0.5	mg/kg	< 0.5	-	< 0.5	-
2.4-DB	0.5	mg/kg	< 0.5	-	< 0.5	-
2.4.5-T	0.5	mg/kg	< 0.5	-	< 0.5	-
2.4.5-TP	0.5	mg/kg	< 0.5	-	< 0.5	-
Actril (loxynil)	0.5	mg/kg	< 0.5	-	< 0.5	-
Dicamba	0.5	mg/kg	< 0.5	-	< 0.5	-
Dichlorprop	0.5	mg/kg	< 0.5	-	< 0.5	-
Dinitro-o-cresol	0.5	mg/kg	< 0.5	-	< 0.5	-
Dinoseb	0.5	mg/kg	< 0.5	-	< 0.5	-
MCPA	0.5	mg/kg	< 0.5	-	< 0.5	-
MCPB	0.5	mg/kg	< 0.5	-	< 0.5	-

Client Sample ID			BH169 0-0.1	BH170 0-0.1	BH331 0-0.1	BH375 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17382	S21-Ap17383	S21-Ap17384	S21-Ap17385
Date Sampled			Apr 08, 2021	Apr 08, 2021	Apr 08, 2021	Apr 08, 2021
Test/Reference	LOR	Unit				
Acid Herbicides						
Mecoprop	0.5	mg/kg	< 0.5	-	< 0.5	-
Warfarin (surr.)	1	%	62	-	66	-

Client Sample ID			BH353 0-0.1	BH384 0-0.1	BH371 0-0.1	BH360 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17386	S21-Ap17387	S21-Ap17388	S21-Ap17389
Date Sampled			Apr 08, 2021	Apr 07, 2021	Apr 07, 2021	Apr 07, 2021
Test/Reference	LOR	Unit				
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	%	81	83	82	85
p-Terphenyl-d14 (surr.)	1	%	93	92	96	95
Heavy Metals						
Arsenic	2	mg/kg	-	17	-	12
Cadmium	0.4	mg/kg	-	< 0.4	-	< 0.4
Chromium	5	mg/kg	-	26	-	21
Copper	5	mg/kg	-	83	-	71
Lead	5	mg/kg	-	25	-	20
Mercury	0.1	mg/kg	-	< 0.1	-	< 0.1
Nickel	5	mg/kg	-	14	-	14
Zinc	5	mg/kg	-	110	-	100
% Moisture	1	%	16	15	12	8.8
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-C36 (Total)	50	mg/kg	< 50	-	< 50	-

Client Sample ID			BH353 0-0.1	BH384 0-0.1	BH371 0-0.1	BH360 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17386	S21-Ap17387	S21-Ap17388	S21-Ap17389
Date Sampled			Apr 08, 2021	Apr 07, 2021	Apr 07, 2021	Apr 07, 2021
Test/Reference	LOR	Unit				
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	%	87	-	74	-
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	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	< 100	-

Client Sample ID			BH388 0-0.1	BH389 0-0.1	BH367 0-0.1	BH364 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17390	S21-Ap17391	S21-Ap17392	S21-Ap17393
Date Sampled			Apr 07, 2021	Apr 07, 2021	Apr 07, 2021	Apr 07, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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	-	-	-
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	-	-	-
2-Fluorobiphenyl (surr.)	1	%	74	-	-	-
p-Terphenyl-d14 (surr.)	1	%	83	-	-	-

Client Sample ID			BH388 0-0.1	BH389 0-0.1	BH367 0-0.1	BH364 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17390	S21-Ap17391	S21-Ap17392	S21-Ap17393
Date Sampled			Apr 07, 2021	Apr 07, 2021	Apr 07, 2021	Apr 07, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	-	-	16	13
Cadmium	0.4	mg/kg	-	-	< 0.4	< 0.4
Chromium	5	mg/kg	-	-	22	19
Copper	5	mg/kg	-	-	58	23
Lead	5	mg/kg	-	-	23	23
Mercury	0.1	mg/kg	-	-	< 0.1	< 0.1
Nickel	5	mg/kg	-	-	14	10
Zinc	5	mg/kg	-	-	100	36
% Moisture	1	%	17	14	14	20
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-C36 (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	%	91	-	100	60
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
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	< 100	< 100
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	-	-

Client Sample ID			BH388 0-0.1	BH389 0-0.1	BH367 0-0.1	BH364 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17390	S21-Ap17391	S21-Ap17392	S21-Ap17393
Date Sampled			Apr 07, 2021	Apr 07, 2021	Apr 07, 2021	Apr 07, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
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	0.1	mg/kg	-	< 0.1	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.2	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.2	-	-
Dibutylchlorendate (surr.)	1	%	-	123	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	103	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	< 0.5	-	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	-
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	%	-	123	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	103	-	-

Client Sample ID			BH385 0-0.1	TP452 2.4-2.5	TP456 0-0.1	[G01]TP452 1.1-1.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17394	S21-Ap17404	S21-Ap17405	S21-Ap17406
Date Sampled			Apr 07, 2021	Apr 08, 2021	Apr 08, 2021	Apr 08, 2021
Test/Reference	LOR	Unit				
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

Client Sample ID			BH385 0-0.1	TP452 2.4-2.5	TP456 0-0.1	G01 TP452 1.1-1.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17394	S21-Ap17404	S21-Ap17405	S21-Ap17406
Date Sampled			Apr 07, 2021	Apr 08, 2021	Apr 08, 2021	Apr 08, 2021
Test/Reference	LOR	Unit				
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	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	77	76	77	88
p-Terphenyl-d14 (surr.)	1	%	96	83	89	96
Heavy Metals						
Arsenic	2	mg/kg	-	9.5	13	11
Cadmium	0.4	mg/kg	-	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	-	20	24	21
Copper	5	mg/kg	-	18	35	24
Lead	5	mg/kg	-	23	25	29
Mercury	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	-	7.1	16	9.7
Zinc	5	mg/kg	-	23	58	33
% Moisture	1	%	16	31	17	27
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 100
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
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.5
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.5
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.5
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 1
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.5
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 1.5
4-Bromofluorobenzene (surr.)	1	%	67	136	67	65
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene N02	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 2.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 100
TRH C6-C10 less BTEX (F1) N04	20	mg/kg	< 20	< 20	< 20	< 100
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
Acid Herbicides						
2.4-D	0.5	mg/kg	-	-	-	< 0.5
2.4-DB	0.5	mg/kg	-	-	-	< 0.5
2.4.5-T	0.5	mg/kg	-	-	-	< 0.5
2.4.5-TP	0.5	mg/kg	-	-	-	< 0.5
Actril (loxynil)	0.5	mg/kg	-	-	-	< 0.5
Dicamba	0.5	mg/kg	-	-	-	< 0.5
Dichlorprop	0.5	mg/kg	-	-	-	< 0.5
Dinitro-o-cresol	0.5	mg/kg	-	-	-	< 0.5

Client Sample ID			BH385 0-0.1	TP452 2.4-2.5	TP456 0-0.1	G01 TP452 1.1-1.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17394	S21-Ap17404	S21-Ap17405	S21-Ap17406
Date Sampled			Apr 07, 2021	Apr 08, 2021	Apr 08, 2021	Apr 08, 2021
Test/Reference	LOR	Unit				
Acid Herbicides						
Dinoseb	0.5	mg/kg	-	-	-	< 0.5
MCPA	0.5	mg/kg	-	-	-	< 0.5
MCPB	0.5	mg/kg	-	-	-	< 0.5
Mecoprop	0.5	mg/kg	-	-	-	< 0.5
Warfarin (surr.)	1	%	-	-	-	63

Client Sample ID			TP454 1.4-1.5	TP461 2.4-2.5	TP457 2.5-2.6	TP449 1.2-1.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17407	S21-Ap17408	S21-Ap17409	S21-Ap17410
Date Sampled			Apr 08, 2021	Apr 08, 2021	Apr 08, 2021	Apr 08, 2021
Test/Reference	LOR	Unit				
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	%	80	84	80	78
p-Terphenyl-d14 (surr.)	1	%	95	100	95	87
Heavy Metals						
Arsenic	2	mg/kg	8.5	8.7	5.9	12
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	15	19	11	21
Copper	5	mg/kg	23	27	35	23
Lead	5	mg/kg	12	15	17	28
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	11	15	11	7.2
Zinc	5	mg/kg	41	45	63	30
% Moisture	1	%	20	17	12	24

Client Sample ID			TP454 1.4-1.5	TP461 2.4-2.5	TP457 2.5-2.6	TP449 1.2-1.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17407	S21-Ap17408	S21-Ap17409	S21-Ap17410
Date Sampled			Apr 08, 2021	Apr 08, 2021	Apr 08, 2021	Apr 08, 2021
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	< 50	-	< 50
TRH C10-C36 (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	%	81	95	-	67
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
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	-	< 100
Acid Herbicides						
2.4-D	0.5	mg/kg	-	< 0.5	-	-
2.4-DB	0.5	mg/kg	-	< 0.5	-	-
2.4.5-T	0.5	mg/kg	-	< 0.5	-	-
2.4.5-TP	0.5	mg/kg	-	< 0.5	-	-
Actril (loxynil)	0.5	mg/kg	-	< 0.5	-	-
Dicamba	0.5	mg/kg	-	< 0.5	-	-
Dichlorprop	0.5	mg/kg	-	< 0.5	-	-
Dinitro-o-cresol	0.5	mg/kg	-	< 0.5	-	-
Dinoseb	0.5	mg/kg	-	< 0.5	-	-
MCPA	0.5	mg/kg	-	< 0.5	-	-
MCPB	0.5	mg/kg	-	< 0.5	-	-
Mecoprop	0.5	mg/kg	-	< 0.5	-	-
Warfarin (surr.)	1	%	-	62	-	-

Client Sample ID			BH355 0-0.2
Sample Matrix			Soil
Eurofins Sample No.			S21-Ap17412
Date Sampled			Apr 08, 2021
Test/Reference	LOR	Unit	
Polycyclic Aromatic Hydrocarbons			
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
Acenaphthene	0.5	mg/kg	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5

Client Sample ID			BH355 0-0.2
Sample Matrix			**Soil**
Eurofins Sample No.			**S21-Ap17412**
Date Sampled			**Apr 08, 2021**
Test/Reference	LOR	Unit	
Polycyclic Aromatic Hydrocarbons			
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
2-Fluorobiphenyl (surr.)	1	%	85
p-Terphenyl-d14 (surr.)	1	%	105
Heavy Metals			
Arsenic	2	mg/kg	21
Cadmium	0.4	mg/kg	< 0.4
Chromium	5	mg/kg	27
Copper	5	mg/kg	40
Lead	5	mg/kg	23
Mercury	0.1	mg/kg	< 0.1
Nickel	5	mg/kg	11
Zinc	5	mg/kg	97
% Moisture	1	%	18

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
Eurofins Suite B4			
Polycyclic Aromatic Hydrocarbons	Sydney	Apr 18, 2021	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Apr 17, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Apr 17, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Apr 17, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Apr 17, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Metals M8	Sydney	Apr 19, 2021	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
% Moisture	Sydney	Apr 13, 2021	14 Days
- Method: LTM-GEN-7080 Moisture			
Acid Herbicides	Melbourne	Apr 16, 2021	14 Days
- Method: LTM-ORG-2180 Phenoxy Acid Herbicides			
Organochlorine Pesticides	Sydney	Apr 18, 2021	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Polychlorinated Biphenyls	Sydney	Apr 18, 2021	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
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Welshpool WA 6106
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Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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

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Sydney
NSW 2000

Project Name: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786610
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 9:02 AM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	BTEX	Suite B13: OCP/PCB	Moisture Set	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B4	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**													
1	BH354 0-0.2	Apr 08, 2021		Soil	S21-Ap17340				X		X			X				
2	BH354 0.9-1	Apr 08, 2021		Soil	S21-Ap17341					X				X		X		
3	BH355 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17342				X		X			X				
4	BH351 0-0.2	Apr 08, 2021		Soil	S21-Ap17343								X	X				
5	BH335 0-0.2	Apr 08, 2021		Soil	S21-Ap17344				X		X			X				
6	BH334 0-0.2	Apr 08, 2021		Soil	S21-Ap17345				X		X			X				
7	BH348 0-0.2	Apr 08, 2021		Soil	S21-Ap17346					X				X	X			
8	BH349 0-0.2	Apr 08, 2021		Soil	S21-Ap17347				X		X			X				
9	BH350 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17349						X			X				

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
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1/21 Smallwood Place
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Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
10	BH339 0-0.1	Apr 07, 2021		Soil	S21-Ap17350									X			X	
11	BH340 0-0.2	Apr 07, 2021		Soil	S21-Ap17351					X				X				
12	BH341 0-0.2	Apr 07, 2021		Soil	S21-Ap17352				X		X			X				
13	BH365 0-0.2	Apr 07, 2021		Soil	S21-Ap17353					X				X		X		
14	BH366 0.2-0.6	Apr 07, 2021		Soil	S21-Ap17354				X		X			X				
15	BH369 0-0.5	Apr 07, 2021		Soil	S21-Ap17355					X				X		X		
16	BH344 0-0.2	Apr 07, 2021		Soil	S21-Ap17356									X			X	
17	BH363 0-0.1	Apr 07, 2021		Soil	S21-Ap17357				X		X			X				
18	BH387 0-0.1	Apr 07, 2021		Soil	S21-Ap17358				X		X			X				
19	BH347 0-0.2	Apr 08, 2021		Soil	S21-Ap17359				X		X			X				
20	BH346 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17360				X		X			X				

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Australia

Melbourne
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NATA # 1261
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Sydney
Unit F3, Building F
16 Mars Road
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Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
21	BH336 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17361					X	X			X				
22	BH369 0-0.1	Apr 08, 2021		Soil	S21-Ap17362								X	X				
23	BH345 0-0.1	Apr 08, 2021		Soil	S21-Ap17363					X	X			X				
24	BH338 0-0.1	Apr 08, 2021		Soil	S21-Ap17364									X			X	
25	BH361 0-0.1	Apr 08, 2021		Soil	S21-Ap17365					X	X			X				
26	BH386 0.5-0.6	Apr 08, 2021		Soil	S21-Ap17366				X		X			X				
27	BH172 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17367									X	X			
28	BH177 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17368				X		X			X				
29	BH348 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17370									X	X			
30	BH335 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17371								X	X		X		
31	BH334 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17372									X	X			

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
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IANZ # 1327

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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
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Mayfield Laboratory																		
External Laboratory																		
32	BH350 0-0.2	Apr 08, 2021		Soil	S21-Ap17373								X	X		X		
33	BH352 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17374									X			X	
34	BH372 0-0.1	Apr 08, 2021		Soil	S21-Ap17375					X				X				
35	BH379 0-0.1	Apr 08, 2021		Soil	S21-Ap17376				X		X			X				
36	BH373 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17377									X	X			
37	BH377 0-0.1	Apr 08, 2021		Soil	S21-Ap17378					X				X			X	
38	BH171 0-0.1	Apr 08, 2021		Soil	S21-Ap17379				X		X			X				
39	BH172 0-0.1	Apr 08, 2021		Soil	S21-Ap17380									X	X			
40	BH175 0-0.1	Apr 08, 2021		Soil	S21-Ap17381				X		X			X				
41	BH169 0-0.1	Apr 08, 2021		Soil	S21-Ap17382					X				X		X		
42	BH170 0-0.1	Apr 08, 2021		Soil	S21-Ap17383				X		X			X				

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Australia

Melbourne
6 Monterey Road
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Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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16 Mars Road
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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
43	BH331 0-0.1	Apr 08, 2021		Soil	S21-Ap17384				X	X	X			X				
44	BH375 0-0.1	Apr 08, 2021		Soil	S21-Ap17385									X			X	
45	BH353 0-0.1	Apr 08, 2021		Soil	S21-Ap17386									X			X	
46	BH384 0-0.1	Apr 07, 2021		Soil	S21-Ap17387				X		X			X				
47	BH371 0-0.1	Apr 07, 2021		Soil	S21-Ap17388									X			X	
48	BH360 0-0.1	Apr 07, 2021		Soil	S21-Ap17389				X		X			X				
49	BH388 0-0.1	Apr 07, 2021		Soil	S21-Ap17390									X			X	
50	BH389 0-0.1	Apr 07, 2021		Soil	S21-Ap17391								X	X				
51	BH367 0-0.1	Apr 07, 2021		Soil	S21-Ap17392						X			X		X		
52	BH364 0-0.1	Apr 07, 2021		Soil	S21-Ap17393						X			X		X		
53	BH385 0-0.1	Apr 07, 2021		Soil	S21-Ap17394									X			X	

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Australia

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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
54	TP450 2-2.5	Apr 08, 2021		Soil	S21-Ap17395	X												
55	TP451 1-2	Apr 08, 2021		Soil	S21-Ap17396	X												
56	TP457 2-2.5	Apr 08, 2021		Soil	S21-Ap17397	X												
57	TP452 1-2	Apr 08, 2021		Soil	S21-Ap17398	X												
58	TP460 2-2.6	Apr 08, 2021		Soil	S21-Ap17399	X												
59	TP449 0.3-0.9	Apr 08, 2021		Soil	S21-Ap17400	X												
60	TP461 1-2	Apr 08, 2021		Soil	S21-Ap17401	X												
61	TP454 0.7-1.2	Apr 08, 2021		Soil	S21-Ap17402	X												
62	TP456 2.8-3	Apr 08, 2021		Soil	S21-Ap17403	X												
63	TP452 2.4-2.5	Apr 08, 2021		Soil	S21-Ap17404									X	X			
64	TP456 0-0.1	Apr 08, 2021		Soil	S21-Ap17405									X	X			

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Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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
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Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
35 O'Rorke Road
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Eurofins Analytical Services Manager : Ursula Long

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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
65	TP452 1.1-1.2	Apr 08, 2021		Soil	S21-Ap17406					X				X	X			
66	TP454 1.4-1.5	Apr 08, 2021		Soil	S21-Ap17407									X	X			
67	TP461 2.4-2.5	Apr 08, 2021		Soil	S21-Ap17408					X				X	X			
68	TP457 2.5-2.6	Apr 08, 2021		Soil	S21-Ap17409				X		X			X				
69	TP449 1.2-1.3	Apr 08, 2021		Soil	S21-Ap17410									X	X			
70	TP445 1-1.8	Apr 08, 2021		Soil	S21-Ap17411	X												
71	BH355 0-0.2	Apr 08, 2021		Soil	S21-Ap17412				X		X			X				
72	TS	Apr 08, 2021		Water	S21-Ap17413													X
73	TB	Apr 08, 2021		Water	S21-Ap17414							X						
74	TP459 1.4-2.4	Apr 08, 2021		Soil	S21-Ap17415	X												
75	BH354 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17416			X										

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NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
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Phone : +61 2 4968 8448

New Zealand

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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
76	BH351 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17418			X										
77	BH349 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17422			X										
78	FC1	Apr 08, 2021		Building Materials	S21-Ap17423			X										
79	BH339 0.4-0.5	Apr 07, 2021		Soil	S21-Ap17424			X										
80	BH340 0.2-0.5	Apr 07, 2021		Soil	S21-Ap17425			X										
81	BH341 0.2-0.5	Apr 07, 2021		Soil	S21-Ap17426			X										
82	BH365 0.2-0.6	Apr 07, 2021		Soil	S21-Ap17427			X										
83	BH366 0-0.2	Apr 07, 2021		Soil	S21-Ap17428			X										
84	BH369 0.6-1.1	Apr 07, 2021		Soil	S21-Ap17429			X										
85	BH343 0-0.2	Apr 07, 2021		Soil	S21-Ap17430			X										

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Australia

Melbourne
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Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
86	BH343 0.2-0.5	Apr 07, 2021		Soil	S21-Ap17431			X										
87	BH344 0.2-0.6	Apr 07, 2021		Soil	S21-Ap17432			X										
88	BH363 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17433			X										
89	BH387 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17434			X										
90	BH337 0-0.2	Apr 08, 2021		Soil	S21-Ap17435			X										
91	BH346 0-0.2	Apr 08, 2021		Soil	S21-Ap17436			X										
92	BH347 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17437			X										
93	BH337 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17438			X										
94	BH336 0-0.2	Apr 08, 2021		Soil	S21-Ap17439			X										
95	BH369 0.5-0.6	Apr 08, 2021		Soil	S21-Ap17440		X											
96	BH345 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17441			X										

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Australia

Melbourne
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Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
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Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
35 O'Rorke Road
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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
97	BH338 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17442			X										
98	BH361 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17443			X										
99	BH386 0-0.1	Apr 08, 2021		Soil	S21-Ap17444			X										
100	BH362 0-0.1	Apr 08, 2021		Soil	S21-Ap17445			X										
101	BH362 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17446			X										
102	BH173 0-0.1	Apr 08, 2021		Soil	S21-Ap17447			X										
103	BH173 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17448			X										
104	BH177 0-0.1	Apr 08, 2021		Soil	S21-Ap17449			X										
105	BH178 0-0.1	Apr 08, 2021		Soil	S21-Ap17450			X										
106	BH178 0.3-..5	Apr 08, 2021		Soil	S21-Ap17451			X										
107	BH332 0-0.1	Apr 08, 2021		Soil	S21-Ap17452			X										

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Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
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Mayfield Laboratory																		
External Laboratory																		
108	BH332 0.5-0.6	Apr 08, 2021		Soil	S21-Ap17453			X										
109	BH349 0-0.2	Apr 08, 2021		Soil	S21-Ap17456			X										
110	BH356 0-0.1	Apr 08, 2021		Soil	S21-Ap17460			X										
111	BH356 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17461			X										
112	BH372 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17462			X										
113	BH382 0-0.1	Apr 08, 2021		Soil	S21-Ap17463			X										
114	BH382 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17464			X										
115	BH379 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17465			X										
116	BH373 0-0.1	Apr 08, 2021		Soil	S21-Ap17466			X										
117	BH383 0-0.1	Apr 08, 2021		Soil	S21-Ap17467			X										
118	BH383 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17468			X										

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16 Mars Road
Lane Cove West NSW 2066
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Perth
46-48 Banksia Road
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Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
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Mayfield Laboratory																		
External Laboratory																		
119	BH377 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17469			X										
120	BH386 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17471			X										
121	BH171 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17472			X										
122	BH175 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17473			X										
123	BH176 0-0.1	Apr 08, 2021		Soil	S21-Ap17474			X										
124	BH176 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17475			X										
125	BH174 0-0.1	Apr 08, 2021		Soil	S21-Ap17476			X										
126	BH174 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17477			X										
127	BH169 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17478			X										
128	BH170 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17479			X										
129	BH331 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17480			X										

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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
130	BH331 FRAG	Apr 08, 2021		Building Materials	S21-Ap17481			X										
131	BH375 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17482			X										
132	BH378 0-0.1	Apr 08, 2021		Soil	S21-Ap17483			X										
133	BH378 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17484			X										
134	BH353 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17485			X										
135	BH352 0-0.1	Apr 08, 2021		Soil	S21-Ap17486			X										
136	BH342 0-0.1	Apr 07, 2021		Soil	S21-Ap17487			X										
137	BH370 0-0.1	Apr 07, 2021		Soil	S21-Ap17488			X										
138	BH384 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17489			X										
139	BH371 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17490			X										

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Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
140	BH360 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17491			X										
141	BH388 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17492			X										
142	BH389 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17493			X										
143	BH367 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17494			X										
144	BH342 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17495			X										
145	BH364 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17496			X										
146	BH386 0.5-0.7	Apr 07, 2021		Soil	S21-Ap17497			X										
147	BH370 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17498			X										
148	TP450 0-1	Apr 08, 2021		Soil	S21-Ap17499			X										
149	TP450 1-2	Apr 08, 2021		Soil	S21-Ap17500			X										
150	TP459 0-0.4	Apr 08, 2021		Soil	S21-Ap17501			X										

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
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Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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
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NSW 2000

Project Name: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786610
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 9:02 AM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	BTEX	Suite B13: OCP/PCB	Moisture Set	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B4	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
151	TP454 0-0.7	Apr 08, 2021		Soil	S21-Ap17502			X										
152	TP444 0-0.3	Apr 08, 2021		Soil	S21-Ap17503			X										
153	TP452 0-1	Apr 08, 2021		Soil	S21-Ap17504			X										
154	TP452 0-0.1	Apr 08, 2021		Soil	S21-Ap17505			X										
155	TP451 2-2.8	Apr 08, 2021		Soil	S21-Ap17506			X										
156	TP457 1-2	Apr 08, 2021		Soil	S21-Ap17507			X										
157	TP460 1-2	Apr 08, 2021		Soil	S21-Ap17508			X										
158	TP451 2.8-3.8	Apr 08, 2021		Soil	S21-Ap17509			X										
159	TP457 0-1	Apr 08, 2021		Soil	S21-Ap17510			X										
160	TP456 1-2	Apr 08, 2021		Soil	S21-Ap17511			X										
161	TP461 0-1	Apr 08, 2021		Soil	S21-Ap17512			X										

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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
162	TP460 2.6-2.8	Apr 08, 2021		Soil	S21-Ap17513			X										
163	TP451 0-1	Apr 08, 2021		Soil	S21-Ap17514			X										
164	TP456 0-1	Apr 08, 2021		Soil	S21-Ap17515			X										
165	TP460 0-1	Apr 08, 2021		Soil	S21-Ap17516			X										
166	TP456 0.3-3.5	Apr 08, 2021		Soil	S21-Ap17517			X										
167	TP452 0-0.1	Apr 08, 2021		Soil	S21-Ap17518			X										
168	TP460 0-0.1	Apr 08, 2021		Soil	S21-Ap17519			X										
169	TP460 2.6-2.8	Apr 08, 2021		Soil	S21-Ap17520			X										
170	TP451 2.8-3	Apr 08, 2021		Soil	S21-Ap17521			X										
171	TP449 1-1.1	Apr 08, 2021		Soil	S21-Ap17522			X										
172	TP457 0-0.1	Apr 08, 2021		Soil	S21-Ap17523			X										

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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
173	TP451 0-0.1	Apr 08, 2021		Soil	S21-Ap17524			X										
174	TP450 2.5-2.6	Apr 08, 2021		Soil	S21-Ap17525			X										
175	TP357 0-0.1	Apr 08, 2021		Soil	S21-Ap17526			X										
176	TP358 0-0.1	Apr 08, 2021		Soil	S21-Ap17527			X										
177	TP445 0-1	Apr 08, 2021		Soil	S21-Ap17528			X										
178	TP445 1.8-2.5	Apr 08, 2021		Soil	S21-Ap17529			X										
179	TP445 2.5-3.5	Apr 08, 2021		Soil	S21-Ap17530			X										
180	TP459 0.4-1.4	Apr 08, 2021		Soil	S21-Ap17533			X										
181	BHX	Apr 08, 2021		Soil	S21-Ap19659			X										
182	BH380 0.0-0.1	Apr 08, 2021		Soil	S21-Ap19660			X										
183	BH362	Apr 08, 2021		Soil	S21-Ap19661			X										

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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
184	BLANK	Apr 08, 2021		Soil	S21-Ap19662			X										
Test Counts						11	1	109	22	14	28	1	5	61	12	8	10	1

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.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

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 and 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.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
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 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

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, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene 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 Aroclor 1260 in Matrix Spikes and LCS.
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 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							
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	
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 >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							
Acid Herbicides							
2.4-D	mg/kg	< 0.5			0.5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
2.4-DB	mg/kg	< 0.5			0.5	Pass	
2.4.5-T	mg/kg	< 0.5			0.5	Pass	
2.4.5-TP	mg/kg	< 0.5			0.5	Pass	
Actril (loxynil)	mg/kg	< 0.5			0.5	Pass	
Dicamba	mg/kg	< 0.5			0.5	Pass	
Dichlorprop	mg/kg	< 0.5			0.5	Pass	
Dinitro-o-cresol	mg/kg	< 0.5			0.5	Pass	
Dinoseb	mg/kg	< 0.5			0.5	Pass	
MCPA	mg/kg	< 0.5			0.5	Pass	
MCPB	mg/kg	< 0.5			0.5	Pass	
Mecoprop	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	
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	< 0.1			0.1	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.5			0.5	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	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	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	105			70-130	Pass	
Acenaphthylene	%	111			70-130	Pass	
Anthracene	%	93			70-130	Pass	
Benz(a)anthracene	%	122			70-130	Pass	
Benzo(a)pyrene	%	113			70-130	Pass	
Benzo(b&j)fluoranthene	%	112			70-130	Pass	
Benzo(g.h.i)perylene	%	123			70-130	Pass	
Benzo(k)fluoranthene	%	110			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Chrysene	%	109			70-130	Pass	
Dibenz(a.h)anthracene	%	123			70-130	Pass	
Fluoranthene	%	99			70-130	Pass	
Fluorene	%	96			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	119			70-130	Pass	
Naphthalene	%	97			70-130	Pass	
Phenanthrene	%	95			70-130	Pass	
Pyrene	%	109			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	101			80-120	Pass	
Cadmium	%	117			80-120	Pass	
Chromium	%	103			80-120	Pass	
Copper	%	105			80-120	Pass	
Lead	%	100			80-120	Pass	
Mercury	%	100			80-120	Pass	
Nickel	%	105			80-120	Pass	
Zinc	%	104			80-120	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	95			70-130	Pass	
TRH C10-C14	%	74			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	104			70-130	Pass	
Toluene	%	99			70-130	Pass	
Ethylbenzene	%	94			70-130	Pass	
m&p-Xylenes	%	98			70-130	Pass	
o-Xylene	%	93			70-130	Pass	
Xylenes - Total*	%	97			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	125			70-130	Pass	
TRH C6-C10	%	94			70-130	Pass	
TRH >C10-C16	%	73			70-130	Pass	
LCS - % Recovery							
Acid Herbicides							
2.4-D	%	94			70-130	Pass	
2.4-DB	%	98			70-130	Pass	
2.4.5-T	%	112			70-130	Pass	
2.4.5-TP	%	110			70-130	Pass	
Actril (loxynil)	%	114			70-130	Pass	
Dicamba	%	123			70-130	Pass	
Dichlorprop	%	94			70-130	Pass	
Dinitro-o-cresol	%	122			70-130	Pass	
Dinoseb	%	115			70-130	Pass	
MCPA	%	107			70-130	Pass	
MCPB	%	98			70-130	Pass	
Mecoprop	%	105			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	104			70-130	Pass	
4.4'-DDD	%	98			70-130	Pass	
4.4'-DDE	%	104			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
4.4'-DDT	%	80			70-130	Pass	
a-BHC	%	104			70-130	Pass	
Aldrin	%	93			70-130	Pass	
b-BHC	%	100			70-130	Pass	
d-BHC	%	107			70-130	Pass	
Dieldrin	%	99			70-130	Pass	
Endosulfan I	%	106			70-130	Pass	
Endosulfan II	%	99			70-130	Pass	
Endosulfan sulphate	%	85			70-130	Pass	
Endrin	%	98			70-130	Pass	
Endrin aldehyde	%	71			70-130	Pass	
Endrin ketone	%	79			70-130	Pass	
g-BHC (Lindane)	%	109			70-130	Pass	
Heptachlor epoxide	%	107			70-130	Pass	
Hexachlorobenzene	%	108			70-130	Pass	
Methoxychlor	%	88			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1016	%	99			70-130	Pass	
Aroclor-1260	%	107			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	S21-Ap17340	CP	%	119			75-125	Pass	
Cadmium	S21-Ap17340	CP	%	111			75-125	Pass	
Chromium	S21-Ap17340	CP	%	110			75-125	Pass	
Copper	S21-Ap25948	NCP	%	91			75-125	Pass	
Lead	S21-Ap17340	CP	%	114			75-125	Pass	
Mercury	S21-Ap17340	CP	%	120			75-125	Pass	
Nickel	S21-Ap17340	CP	%	117			75-125	Pass	
Zinc	S21-Ap21478	NCP	%	75			75-125	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S21-Ap16697	NCP	%	82			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH C6-C10	S21-Ap16697	NCP	%	81			70-130	Pass	
Spike - % Recovery									
Acid Herbicides				Result 1					
Actril (loxynil)	S21-Ap15878	NCP	%	106			70-130	Pass	
Dichlorprop	S21-Ap15878	NCP	%	94			70-130	Pass	
MCPA	S21-Ap15878	NCP	%	73			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S21-Ap17342	CP	%	94			70-130	Pass	
Acenaphthylene	S21-Ap17342	CP	%	94			70-130	Pass	
Anthracene	S21-Ap17342	CP	%	79			70-130	Pass	
Benz(a)anthracene	S21-Ap17342	CP	%	106			70-130	Pass	
Benzo(a)pyrene	S21-Ap17342	CP	%	96			70-130	Pass	
Benzo(b&j)fluoranthene	S21-Ap17342	CP	%	103			70-130	Pass	
Benzo(g.h.i)perylene	S21-Ap17342	CP	%	105			70-130	Pass	
Benzo(k)fluoranthene	S21-Ap17342	CP	%	83			70-130	Pass	
Chrysene	S21-Ap17342	CP	%	92			70-130	Pass	
Dibenz(a.h)anthracene	S21-Ap17342	CP	%	104			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Fluoranthene	S21-Ap17342	CP	%	82			70-130	Pass	
Fluorene	S21-Ap17342	CP	%	79			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S21-Ap17342	CP	%	104			70-130	Pass	
Naphthalene	S21-Ap17342	CP	%	75			70-130	Pass	
Phenanthrene	S21-Ap17342	CP	%	80			70-130	Pass	
Pyrene	S21-Ap17342	CP	%	92			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S21-Ap15877	NCP	%	111			70-130	Pass	
4.4'-DDD	S21-Ap15877	NCP	%	96			70-130	Pass	
4.4'-DDE	S21-Ap15877	NCP	%	113			70-130	Pass	
4.4'-DDT	S21-Ap15877	NCP	%	89			70-130	Pass	
a-BHC	S21-Ap15877	NCP	%	97			70-130	Pass	
Aldrin	S21-Ap15877	NCP	%	93			70-130	Pass	
b-BHC	S21-Ap15877	NCP	%	91			70-130	Pass	
d-BHC	S21-Ap15877	NCP	%	96			70-130	Pass	
Dieldrin	S21-Ap15877	NCP	%	106			70-130	Pass	
Endosulfan I	S21-Ap15877	NCP	%	100			70-130	Pass	
Endosulfan II	S21-Ap15877	NCP	%	101			70-130	Pass	
Endosulfan sulphate	S21-Ap15877	NCP	%	81			70-130	Pass	
Endrin	S21-Ap15877	NCP	%	112			70-130	Pass	
Endrin aldehyde	S21-Ap15877	NCP	%	84			70-130	Pass	
Endrin ketone	S21-Ap15877	NCP	%	98			70-130	Pass	
g-BHC (Lindane)	S21-Ap15877	NCP	%	108			70-130	Pass	
Heptachlor	S21-Ap15877	NCP	%	106			70-130	Pass	
Heptachlor epoxide	S21-Ap15877	NCP	%	107			70-130	Pass	
Hexachlorobenzene	S21-Ap15877	NCP	%	107			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Methoxychlor	S21-Ap17173	NCP	%	80			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1016	S21-Ap19189	NCP	%	86			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C10-C14	S21-Ap17373	CP	%	70			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH >C10-C16	S21-Ap17373	CP	%	73			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S21-Ap17376	CP	%	83			70-130	Pass	
Acenaphthylene	S21-Ap17376	CP	%	84			70-130	Pass	
Anthracene	S21-Ap17376	CP	%	81			70-130	Pass	
Benz(a)anthracene	S21-Ap17376	CP	%	86			70-130	Pass	
Benzo(a)pyrene	S21-Ap17376	CP	%	98			70-130	Pass	
Benzo(b&j)fluoranthene	S21-Ap17376	CP	%	98			70-130	Pass	
Benzo(g.h.i)perylene	S21-Ap17376	CP	%	87			70-130	Pass	
Benzo(k)fluoranthene	S21-Ap17376	CP	%	85			70-130	Pass	
Chrysene	S21-Ap17376	CP	%	88			70-130	Pass	
Dibenz(a.h)anthracene	S21-Ap17376	CP	%	74			70-130	Pass	
Fluoranthene	S21-Ap17376	CP	%	90			70-130	Pass	
Fluorene	S21-Ap17376	CP	%	84			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S21-Ap17376	CP	%	74			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Naphthalene	S21-Ap17376	CP	%	94			70-130	Pass	
Phenanthrene	S21-Ap17376	CP	%	85			70-130	Pass	
Pyrene	S21-Ap17376	CP	%	92			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C10-C14	S21-Ap17392	CP	%	73			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S21-Ap17392	CP	%	76			70-130	Pass	
Toluene	S21-Ap17392	CP	%	76			70-130	Pass	
Ethylbenzene	S21-Ap17392	CP	%	75			70-130	Pass	
m&p-Xylenes	S21-Ap17392	CP	%	79			70-130	Pass	
o-Xylene	S21-Ap17392	CP	%	78			70-130	Pass	
Xylenes - Total*	S21-Ap17392	CP	%	79			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S21-Ap17392	CP	%	120			70-130	Pass	
TRH >C10-C16	S21-Ap17392	CP	%	67			70-130	Fail	Q08
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	S21-Ap17340	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S21-Ap17340	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S21-Ap17340	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S21-Ap17340	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S21-Ap17340	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S21-Ap17340	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S21-Ap17340	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S21-Ap17340	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S21-Ap17340	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S21-Ap17340	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S21-Ap17340	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S21-Ap17340	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S21-Ap17340	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S21-Ap17340	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S21-Ap17340	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S21-Ap17340	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	S21-Ap17341	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S21-Ap17341	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S21-Ap17341	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S21-Ap17341	CP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S21-Ap17341	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S21-Ap17341	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S21-Ap17341	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S21-Ap17341	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S21-Ap17341	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S21-Ap17341	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	

Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S21-Ap17341	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S21-Ap17341	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S21-Ap17341	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S21-Ap17341	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S21-Ap17341	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Acid Herbicides				Result 1	Result 2	RPD			
2.4-D	S21-Ap15877	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4-DB	S21-Ap15877	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4.5-T	S21-Ap15877	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4.5-TP	S21-Ap15877	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Actril (loxynil)	S21-Ap15877	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dicamba	S21-Ap15877	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorprop	S21-Ap15877	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dinitro-o-cresol	S21-Ap15877	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dinoseb	S21-Ap15877	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
MCPA	S21-Ap15877	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
MCPB	S21-Ap15877	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Mecoprop	S21-Ap15877	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-Ap17342	CP	%	21	21	2.0	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S21-Ap17025	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S21-Ap17025	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S21-Ap17025	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S21-Ap17025	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-BHC	S21-Ap17025	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S21-Ap17025	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	S21-Ap17025	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-BHC	S21-Ap17025	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S21-Ap17025	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S21-Ap17025	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S21-Ap17025	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S21-Ap17025	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S21-Ap17025	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S21-Ap17025	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S21-Ap17025	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	S21-Ap17025	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S21-Ap17025	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S21-Ap17025	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S21-Ap17025	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S21-Ap17025	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Toxaphene	S21-Ap18821	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-Ap17353	CP	%	18	17	1.0	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-Ap17357	CP	mg/kg	11	13	22	30%	Pass	
Cadmium	S21-Ap17357	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S21-Ap17357	CP	mg/kg	23	24	6.0	30%	Pass	
Copper	S21-Ap17357	CP	mg/kg	68	71	5.0	30%	Pass	

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Lead	S21-Ap17357	CP	mg/kg	25	27	8.0	30%	Pass	
Mercury	S21-Ap17357	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S21-Ap17357	CP	mg/kg	12	12	<1	30%	Pass	
Zinc	S21-Ap17357	CP	mg/kg	140	150	6.0	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	S21-Ap13529	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1221	S21-Ap13529	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	S21-Ap13529	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1242	S21-Ap13529	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1248	S21-Ap13529	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1254	S21-Ap13529	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1260	S21-Ap13529	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-Ap17368	CP	mg/kg	12	12	<1	30%	Pass	
Cadmium	S21-Ap17368	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S21-Ap17368	CP	mg/kg	26	25	2.0	30%	Pass	
Copper	S21-Ap17368	CP	mg/kg	33	30	9.0	30%	Pass	
Lead	S21-Ap17368	CP	mg/kg	14	14	4.0	30%	Pass	
Mercury	S21-Ap17368	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S21-Ap17368	CP	mg/kg	18	17	5.0	30%	Pass	
Zinc	S21-Ap17368	CP	mg/kg	70	65	8.0	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-Ap17370	CP	mg/kg	9.5	9.1	4.0	30%	Pass	
Cadmium	S21-Ap17370	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S21-Ap17370	CP	mg/kg	22	22	1.0	30%	Pass	
Copper	S21-Ap17370	CP	mg/kg	35	27	27	30%	Pass	
Lead	S21-Ap17370	CP	mg/kg	16	15	8.0	30%	Pass	
Mercury	S21-Ap17370	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S21-Ap17370	CP	mg/kg	12	12	5.0	30%	Pass	
Zinc	S21-Ap17370	CP	mg/kg	51	54	5.0	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S21-Ap17372	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S21-Ap17372	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S21-Ap17372	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S21-Ap17372	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S21-Ap17372	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S21-Ap17372	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S21-Ap17372	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S21-Ap17372	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S21-Ap17372	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S21-Ap17374	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S21-Ap17374	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S21-Ap17374	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S21-Ap17374	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Benzo(a)pyrene	S21-Ap17374	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S21-Ap17374	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S21-Ap17374	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S21-Ap17374	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S21-Ap17374	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S21-Ap17374	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S21-Ap17374	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S21-Ap17374	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S21-Ap17374	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S21-Ap17374	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S21-Ap17374	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S21-Ap17374	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-Ap17374	CP	%	23	24	6.0	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C10-C14	S21-Ap17374	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S21-Ap17374	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S21-Ap17374	CP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
TRH >C10-C16	S21-Ap17374	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S21-Ap17374	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S21-Ap17374	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-Ap17384	CP	%	18	17	3.0	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S21-Ap17386	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S21-Ap17386	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S21-Ap17386	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S21-Ap17386	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S21-Ap17386	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S21-Ap17386	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S21-Ap17386	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S21-Ap17386	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S21-Ap17386	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S21-Ap17386	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S21-Ap17386	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S21-Ap17386	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S21-Ap17386	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S21-Ap17386	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S21-Ap17386	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S21-Ap17386	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C10-C14	S21-Ap17386	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S21-Ap17386	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S21-Ap17386	CP	mg/kg	< 50	< 50	<1	30%	Pass	

Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
TRH >C10-C16	S21-Ap17386	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S21-Ap17386	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S21-Ap17386	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-Ap17389	CP	mg/kg	12	13	11	30%	Pass	
Cadmium	S21-Ap17389	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S21-Ap17389	CP	mg/kg	21	24	12	30%	Pass	
Copper	S21-Ap17389	CP	mg/kg	71	73	2.0	30%	Pass	
Lead	S21-Ap17389	CP	mg/kg	20	22	8.0	30%	Pass	
Mercury	S21-Ap17389	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S21-Ap17389	CP	mg/kg	14	14	2.0	30%	Pass	
Zinc	S21-Ap17389	CP	mg/kg	100	110	8.0	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S21-Ap17390	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S21-Ap17390	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S21-Ap17390	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S21-Ap17390	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S21-Ap17390	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S21-Ap17390	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S21-Ap17390	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S21-Ap17390	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S21-Ap17390	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-Ap17394	CP	%	16	16	2.0	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S21-Ap17408	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S21-Ap17408	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S21-Ap17408	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S21-Ap17408	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S21-Ap17408	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S21-Ap17408	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S21-Ap17408	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S21-Ap17408	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S21-Ap17408	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S21-Ap17408	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S21-Ap17408	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S21-Ap17408	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S21-Ap17408	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S21-Ap17408	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S21-Ap17408	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S21-Ap17408	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-Ap17412	CP	mg/kg	21	20	6.0	30%	Pass	
Cadmium	S21-Ap17412	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S21-Ap17412	CP	mg/kg	27	25	10	30%	Pass	
Copper	S21-Ap17412	CP	mg/kg	40	40	1.0	30%	Pass	
Lead	S21-Ap17412	CP	mg/kg	23	23	1.0	30%	Pass	
Mercury	S21-Ap17412	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S21-Ap17412	CP	mg/kg	11	11	1.0	30%	Pass	
Zinc	S21-Ap17412	CP	mg/kg	97	110	9.0	30%	Pass	

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

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
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:

Ursula Long	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)
John Nguyen	Senior Analyst-Metal (NSW)
Joseph Edouard	Senior Analyst-Organic (VIC)

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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JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

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 and proficiency testing scheme providers reports.

Attention: **Ryan Lill**

Report **786610-W**
Project name KEMPS CREEK DSI
Project ID 60482
Received Date Apr 12, 2021

Client Sample ID			**TS**	**TB**
Sample Matrix			**Water**	**Water**
Eurofins Sample No.			**S21-Ap17413**	**S21-Ap17414**
Date Sampled			**Apr 08, 2021**	**Apr 08, 2021**
Test/Reference	LOR	Unit		
BTEX				
Benzene	1	%	94	-
Ethylbenzene	1	%	88	-
m&p-Xylenes	1	%	87	-
o-Xylene	1	%	80	-
Toluene	1	%	90	-
Xylenes - Total	1	%	82	-
4-Bromofluorobenzene (surr.)	1	%	99	-
BTEX				
Benzene	0.001	mg/L	-	< 0.001
Toluene	0.001	mg/L	-	< 0.001
Ethylbenzene	0.001	mg/L	-	< 0.001
m&p-Xylenes	0.002	mg/L	-	< 0.002
o-Xylene	0.001	mg/L	-	< 0.001
Xylenes - Total*	0.003	mg/L	-	< 0.003
4-Bromofluorobenzene (surr.)	1	%	-	104

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
Eurofins Suite B4			
BTEX	Sydney	Apr 13, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			

eurofins | Environment Testing

ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786610
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 9:02 AM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	BTEX	Suite B13: OCP/PCB	Moisture Set	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B4	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**													
1	BH354 0-0.2	Apr 08, 2021		Soil	S21-Ap17340				X		X			X				
2	BH354 0.9-1	Apr 08, 2021		Soil	S21-Ap17341					X				X		X		
3	BH355 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17342				X		X			X				
4	BH351 0-0.2	Apr 08, 2021		Soil	S21-Ap17343								X	X				
5	BH335 0-0.2	Apr 08, 2021		Soil	S21-Ap17344				X		X			X				
6	BH334 0-0.2	Apr 08, 2021		Soil	S21-Ap17345				X		X			X				
7	BH348 0-0.2	Apr 08, 2021		Soil	S21-Ap17346					X				X	X			
8	BH349 0-0.2	Apr 08, 2021		Soil	S21-Ap17347				X		X			X				
9	BH350 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17349						X			X				

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
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Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
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Phone : +61 2 4968 8448

New Zealand

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
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IANZ # 1290

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786610
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 9:02 AM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	BTEX	Suite B13: OCP/PCB	Moisture Set	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B4	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
10	BH339 0-0.1	Apr 07, 2021		Soil	S21-Ap17350									X			X	
11	BH340 0-0.2	Apr 07, 2021		Soil	S21-Ap17351					X				X				
12	BH341 0-0.2	Apr 07, 2021		Soil	S21-Ap17352				X		X			X				
13	BH365 0-0.2	Apr 07, 2021		Soil	S21-Ap17353					X				X		X		
14	BH366 0.2-0.6	Apr 07, 2021		Soil	S21-Ap17354				X		X			X				
15	BH369 0-0.5	Apr 07, 2021		Soil	S21-Ap17355					X				X		X		
16	BH344 0-0.2	Apr 07, 2021		Soil	S21-Ap17356									X			X	
17	BH363 0-0.1	Apr 07, 2021		Soil	S21-Ap17357				X		X			X				
18	BH387 0-0.1	Apr 07, 2021		Soil	S21-Ap17358				X		X			X				
19	BH347 0-0.2	Apr 08, 2021		Soil	S21-Ap17359				X		X			X				
20	BH346 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17360				X		X			X				

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

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Unit F3, Building F
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Phone : +61 8 9251 9600
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Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786610
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 9:02 AM
Due: Apr 19, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	BTEX	Suite B13: OCP/PCB	Moisture Set	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B4	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
21	BH336 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17361					X	X			X				
22	BH369 0-0.1	Apr 08, 2021		Soil	S21-Ap17362								X	X				
23	BH345 0-0.1	Apr 08, 2021		Soil	S21-Ap17363					X	X			X				
24	BH338 0-0.1	Apr 08, 2021		Soil	S21-Ap17364									X			X	
25	BH361 0-0.1	Apr 08, 2021		Soil	S21-Ap17365					X	X			X				
26	BH386 0.5-0.6	Apr 08, 2021		Soil	S21-Ap17366				X		X			X				
27	BH172 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17367									X	X			
28	BH177 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17368				X		X			X				
29	BH348 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17370									X	X			
30	BH335 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17371								X	X		X		
31	BH334 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17372									X	X			

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Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
35 O'Rorke Road
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IANZ # 1290

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NSW 2000

Project Name: KEMPS CREEK DSI
Project ID: 60482

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Fax:

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Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	BTEX	Suite B13: OCP/PCB	Moisture Set	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B4	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
32	BH350 0-0.2	Apr 08, 2021		Soil	S21-Ap17373								X	X		X		
33	BH352 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17374									X			X	
34	BH372 0-0.1	Apr 08, 2021		Soil	S21-Ap17375					X				X				
35	BH379 0-0.1	Apr 08, 2021		Soil	S21-Ap17376				X		X			X				
36	BH373 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17377									X	X			
37	BH377 0-0.1	Apr 08, 2021		Soil	S21-Ap17378					X				X			X	
38	BH171 0-0.1	Apr 08, 2021		Soil	S21-Ap17379				X		X			X				
39	BH172 0-0.1	Apr 08, 2021		Soil	S21-Ap17380									X	X			
40	BH175 0-0.1	Apr 08, 2021		Soil	S21-Ap17381				X		X			X				
41	BH169 0-0.1	Apr 08, 2021		Soil	S21-Ap17382					X				X		X		
42	BH170 0-0.1	Apr 08, 2021		Soil	S21-Ap17383				X		X			X				

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Melbourne
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Welshpool WA 6106
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Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
35 O'Rorke Road
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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
43	BH331 0-0.1	Apr 08, 2021		Soil	S21-Ap17384				X	X	X			X				
44	BH375 0-0.1	Apr 08, 2021		Soil	S21-Ap17385									X			X	
45	BH353 0-0.1	Apr 08, 2021		Soil	S21-Ap17386									X			X	
46	BH384 0-0.1	Apr 07, 2021		Soil	S21-Ap17387				X		X			X				
47	BH371 0-0.1	Apr 07, 2021		Soil	S21-Ap17388									X			X	
48	BH360 0-0.1	Apr 07, 2021		Soil	S21-Ap17389				X		X			X				
49	BH388 0-0.1	Apr 07, 2021		Soil	S21-Ap17390									X			X	
50	BH389 0-0.1	Apr 07, 2021		Soil	S21-Ap17391								X	X				
51	BH367 0-0.1	Apr 07, 2021		Soil	S21-Ap17392						X			X		X		
52	BH364 0-0.1	Apr 07, 2021		Soil	S21-Ap17393						X			X		X		
53	BH385 0-0.1	Apr 07, 2021		Soil	S21-Ap17394									X			X	

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Australia

Melbourne
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Unit F3, Building F
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Perth
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Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
54	TP450 2-2.5	Apr 08, 2021		Soil	S21-Ap17395	X												
55	TP451 1-2	Apr 08, 2021		Soil	S21-Ap17396	X												
56	TP457 2-2.5	Apr 08, 2021		Soil	S21-Ap17397	X												
57	TP452 1-2	Apr 08, 2021		Soil	S21-Ap17398	X												
58	TP460 2-2.6	Apr 08, 2021		Soil	S21-Ap17399	X												
59	TP449 0.3-0.9	Apr 08, 2021		Soil	S21-Ap17400	X												
60	TP461 1-2	Apr 08, 2021		Soil	S21-Ap17401	X												
61	TP454 0.7-1.2	Apr 08, 2021		Soil	S21-Ap17402	X												
62	TP456 2.8-3	Apr 08, 2021		Soil	S21-Ap17403	X												
63	TP452 2.4-2.5	Apr 08, 2021		Soil	S21-Ap17404									X	X			
64	TP456 0-0.1	Apr 08, 2021		Soil	S21-Ap17405									X	X			

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Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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
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Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
35 O'Rorke Road
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IANZ # 1327

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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
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Mayfield Laboratory																		
External Laboratory																		
65	TP452 1.1-1.2	Apr 08, 2021		Soil	S21-Ap17406					X				X	X			
66	TP454 1.4-1.5	Apr 08, 2021		Soil	S21-Ap17407									X	X			
67	TP461 2.4-2.5	Apr 08, 2021		Soil	S21-Ap17408					X				X	X			
68	TP457 2.5-2.6	Apr 08, 2021		Soil	S21-Ap17409				X		X			X				
69	TP449 1.2-1.3	Apr 08, 2021		Soil	S21-Ap17410									X	X			
70	TP445 1-1.8	Apr 08, 2021		Soil	S21-Ap17411	X												
71	BH355 0-0.2	Apr 08, 2021		Soil	S21-Ap17412				X		X			X				
72	TS	Apr 08, 2021		Water	S21-Ap17413													X
73	TB	Apr 08, 2021		Water	S21-Ap17414							X						
74	TP459 1.4-2.4	Apr 08, 2021		Soil	S21-Ap17415	X												
75	BH354 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17416			X										

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Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
76	BH351 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17418			X										
77	BH349 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17422			X										
78	FC1	Apr 08, 2021		Building Materials	S21-Ap17423			X										
79	BH339 0.4-0.5	Apr 07, 2021		Soil	S21-Ap17424			X										
80	BH340 0.2-0.5	Apr 07, 2021		Soil	S21-Ap17425			X										
81	BH341 0.2-0.5	Apr 07, 2021		Soil	S21-Ap17426			X										
82	BH365 0.2-0.6	Apr 07, 2021		Soil	S21-Ap17427			X										
83	BH366 0-0.2	Apr 07, 2021		Soil	S21-Ap17428			X										
84	BH369 0.6-1.1	Apr 07, 2021		Soil	S21-Ap17429			X										
85	BH343 0-0.2	Apr 07, 2021		Soil	S21-Ap17430			X										

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Australia

Melbourne
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Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
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Brisbane
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Perth
46-48 Banksia Road
Welshpool WA 6106
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Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
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New Zealand

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Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
86	BH343 0.2-0.5	Apr 07, 2021		Soil	S21-Ap17431			X										
87	BH344 0.2-0.6	Apr 07, 2021		Soil	S21-Ap17432			X										
88	BH363 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17433			X										
89	BH387 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17434			X										
90	BH337 0-0.2	Apr 08, 2021		Soil	S21-Ap17435			X										
91	BH346 0-0.2	Apr 08, 2021		Soil	S21-Ap17436			X										
92	BH347 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17437			X										
93	BH337 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17438			X										
94	BH336 0-0.2	Apr 08, 2021		Soil	S21-Ap17439			X										
95	BH369 0.5-0.6	Apr 08, 2021		Soil	S21-Ap17440		X											
96	BH345 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17441			X										

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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
97	BH338 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17442			X										
98	BH361 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17443			X										
99	BH386 0-0.1	Apr 08, 2021		Soil	S21-Ap17444			X										
100	BH362 0-0.1	Apr 08, 2021		Soil	S21-Ap17445			X										
101	BH362 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17446			X										
102	BH173 0-0.1	Apr 08, 2021		Soil	S21-Ap17447			X										
103	BH173 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17448			X										
104	BH177 0-0.1	Apr 08, 2021		Soil	S21-Ap17449			X										
105	BH178 0-0.1	Apr 08, 2021		Soil	S21-Ap17450			X										
106	BH178 0.3-..5	Apr 08, 2021		Soil	S21-Ap17451			X										
107	BH332 0-0.1	Apr 08, 2021		Soil	S21-Ap17452			X										

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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
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Mayfield Laboratory																		
External Laboratory																		
108	BH332 0.5-0.6	Apr 08, 2021		Soil	S21-Ap17453			X										
109	BH349 0-0.2	Apr 08, 2021		Soil	S21-Ap17456			X										
110	BH356 0-0.1	Apr 08, 2021		Soil	S21-Ap17460			X										
111	BH356 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17461			X										
112	BH372 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17462			X										
113	BH382 0-0.1	Apr 08, 2021		Soil	S21-Ap17463			X										
114	BH382 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17464			X										
115	BH379 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17465			X										
116	BH373 0-0.1	Apr 08, 2021		Soil	S21-Ap17466			X										
117	BH383 0-0.1	Apr 08, 2021		Soil	S21-Ap17467			X										
118	BH383 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17468			X										

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

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Murarrie QLD 4172
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Welshpool WA 6106
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4/52 Industrial Drive
Mayfield East NSW 2304
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Project ID: 60482

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Phone: 02 8245 0300
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Eurofins Analytical Services Manager : Ursula Long

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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
119	BH377 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17469			X										
120	BH386 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17471			X										
121	BH171 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17472			X										
122	BH175 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17473			X										
123	BH176 0-0.1	Apr 08, 2021		Soil	S21-Ap17474			X										
124	BH176 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17475			X										
125	BH174 0-0.1	Apr 08, 2021		Soil	S21-Ap17476			X										
126	BH174 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17477			X										
127	BH169 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17478			X										
128	BH170 0.4-0.5	Apr 08, 2021		Soil	S21-Ap17479			X										
129	BH331 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17480			X										

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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
130	BH331 FRAG	Apr 08, 2021		Building Materials	S21-Ap17481			X										
131	BH375 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17482			X										
132	BH378 0-0.1	Apr 08, 2021		Soil	S21-Ap17483			X										
133	BH378 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17484			X										
134	BH353 0.3-0.4	Apr 08, 2021		Soil	S21-Ap17485			X										
135	BH352 0-0.1	Apr 08, 2021		Soil	S21-Ap17486			X										
136	BH342 0-0.1	Apr 07, 2021		Soil	S21-Ap17487			X										
137	BH370 0-0.1	Apr 07, 2021		Soil	S21-Ap17488			X										
138	BH384 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17489			X										
139	BH371 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17490			X										

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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
140	BH360 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17491			X										
141	BH388 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17492			X										
142	BH389 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17493			X										
143	BH367 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17494			X										
144	BH342 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17495			X										
145	BH364 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17496			X										
146	BH386 0.5-0.7	Apr 07, 2021		Soil	S21-Ap17497			X										
147	BH370 0.3-0.4	Apr 07, 2021		Soil	S21-Ap17498			X										
148	TP450 0-1	Apr 08, 2021		Soil	S21-Ap17499			X										
149	TP450 1-2	Apr 08, 2021		Soil	S21-Ap17500			X										
150	TP459 0-0.4	Apr 08, 2021		Soil	S21-Ap17501			X										

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Australia

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Unit F3, Building F
16 Mars Road
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46-48 Banksia Road
Welshpool WA 6106
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Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
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New Zealand

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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
151	TP454 0-0.7	Apr 08, 2021		Soil	S21-Ap17502			X										
152	TP444 0-0.3	Apr 08, 2021		Soil	S21-Ap17503			X										
153	TP452 0-1	Apr 08, 2021		Soil	S21-Ap17504			X										
154	TP452 0-0.1	Apr 08, 2021		Soil	S21-Ap17505			X										
155	TP451 2-2.8	Apr 08, 2021		Soil	S21-Ap17506			X										
156	TP457 1-2	Apr 08, 2021		Soil	S21-Ap17507			X										
157	TP460 1-2	Apr 08, 2021		Soil	S21-Ap17508			X										
158	TP451 2.8-3.8	Apr 08, 2021		Soil	S21-Ap17509			X										
159	TP457 0-1	Apr 08, 2021		Soil	S21-Ap17510			X										
160	TP456 1-2	Apr 08, 2021		Soil	S21-Ap17511			X										
161	TP461 0-1	Apr 08, 2021		Soil	S21-Ap17512			X										

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Australia

Melbourne
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Sydney
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Perth
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Welshpool WA 6106
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NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
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Mayfield Laboratory																		
External Laboratory																		
162	TP460 2.6-2.8	Apr 08, 2021		Soil	S21-Ap17513			X										
163	TP451 0-1	Apr 08, 2021		Soil	S21-Ap17514			X										
164	TP456 0-1	Apr 08, 2021		Soil	S21-Ap17515			X										
165	TP460 0-1	Apr 08, 2021		Soil	S21-Ap17516			X										
166	TP456 0.3-3.5	Apr 08, 2021		Soil	S21-Ap17517			X										
167	TP452 0-0.1	Apr 08, 2021		Soil	S21-Ap17518			X										
168	TP460 0-0.1	Apr 08, 2021		Soil	S21-Ap17519			X										
169	TP460 2.6-2.8	Apr 08, 2021		Soil	S21-Ap17520			X										
170	TP451 2.8-3	Apr 08, 2021		Soil	S21-Ap17521			X										
171	TP449 1-1.1	Apr 08, 2021		Soil	S21-Ap17522			X										
172	TP457 0-0.1	Apr 08, 2021		Soil	S21-Ap17523			X										

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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
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Mayfield Laboratory																		
External Laboratory																		
173	TP451 0-0.1	Apr 08, 2021		Soil	S21-Ap17524			X										
174	TP450 2.5-2.6	Apr 08, 2021		Soil	S21-Ap17525			X										
175	TP357 0-0.1	Apr 08, 2021		Soil	S21-Ap17526			X										
176	TP358 0-0.1	Apr 08, 2021		Soil	S21-Ap17527			X										
177	TP445 0-1	Apr 08, 2021		Soil	S21-Ap17528			X										
178	TP445 1.8-2.5	Apr 08, 2021		Soil	S21-Ap17529			X										
179	TP445 2.5-3.5	Apr 08, 2021		Soil	S21-Ap17530			X										
180	TP459 0.4-1.4	Apr 08, 2021		Soil	S21-Ap17533			X										
181	BHX	Apr 08, 2021		Soil	S21-Ap19659			X										
182	BH380 0.0-0.1	Apr 08, 2021		Soil	S21-Ap19660			X										
183	BH362	Apr 08, 2021		Soil	S21-Ap19661			X										

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Melbourne Laboratory - NATA Site # 1254 & 14271										X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																		
Perth Laboratory - NATA Site # 23736																		
Mayfield Laboratory																		
External Laboratory																		
184	BLANK	Apr 08, 2021		Soil	S21-Ap19662			X										
Test Counts						11	1	109	22	14	28	1	5	61	12	8	10	1

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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.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram | **mg/L:** milligrams per litre | **ug/L:** micrograms per litre

ppm: Parts per million | **ppb:** Parts per billion | **%:** Percentage

org/100mL: Organisms per 100 millilitres | **NTU:** Nephelometric Turbidity Units | **MPN/100mL:** Most Probable Number of organisms per 100 millilitres

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 and 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.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
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 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

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, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene 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 Aroclor 1260 in Matrix Spikes and LCS.
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 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							
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	
LCS - % Recovery							
BTEX							
Benzene	%	91			70-130	Pass	
Toluene	%	94			70-130	Pass	
Ethylbenzene	%	93			70-130	Pass	
m&p-Xylenes	%	93			70-130	Pass	
o-Xylene	%	92			70-130	Pass	
Xylenes - Total*	%	92			70-130	Pass	

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

Authorised by:

Ursula Long — Analytical Services Manager

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.: 60482

PROJECT NAME: Kemps Creek DSI

DATE NEEDED BY: Standard TAT

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

LABORATORY BATCH NO.:

SAMPLERS:

QC LEVEL: NEPM (2013)

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....rlill@jbsg.com.au; (3) .....cdagger@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs	Asbestos	OCPs/PCBs	Phenols	Herbicides	PFAS	CEC, pH, Clay	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
QC03 - Soil	Soil	12.4.21		Jar + Bag		x	x	x	x								
TP10 - 0.0 - 0.1	Soil	12.4.21		Jar, Bag, PFAS	-												
TP10 - 0.5 - 0.6				JAR													
BH206 - 0.0 - 0.1				JAR, BAG													
BH206 - 0.4 - 0.5				JAR													
BH207 - 0.0 - 0.1				J, B.		x		x									
BH207 - 0.4 - 0.5				J.													
BH208 - 0.0 - 0.1				J, B										x			
BH208 - 0.3 - 0.4				J													
BH209 - 0.0 - 0.1				J, B		x	x										
BH209 - 0.3 - 0.4				J						x							
BH210 - 0.0 - 0.1				J, B			x			x							
BH210 - 0.4 - 0.5				J													
BH217 - 0.0 - 0.1				J, B								x					
BH217 - 0.3 - 0.4				J													
BH218 - 0.0 - 0.2				J, B		x		x									
BH218 - 0.4 - 0.5				J													
BH211 - 0.0 - 0.1				J, B				x									
BH211 - 0.3 - 0.4				J													
BH203 - 0.0 - 0.2				J+B		x	x	x	x								

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Kyan Lill DATE: 12-4-21	CONSIGNMENT NOTE NO.	NAME: GAV	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 12/4/21 6:39PM	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	OF:	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 - Generic

86622

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 60482 | LABORATORY BATCH NO.:

PROJECT NAME: Kemps Creek DSI | SAMPLERS:

DATE NEEDED BY: Standard TAT | 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) .....rlill@jbsg.com.au; (3) .....cdagger@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs	Asbestos	OCPs/PCBs	Phenols	Herbicides	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
BH267 -0.0-0.1	Soil	12/4/21		J+B		✓		X								
BH267 -0.5-0.6				J												
BH228 - 0.0 -0.1				J+B			X			X						
BH228 - 0.4-0.5				J+B												
BH228 - 0.6-0.7				J												
BH268 -0.0-0.1				J+B		✓		X								
BH268 -0.4-0.5				J												
BH229 -0.0-0.1				J+B		✓	X									
BH229 -0.4-0.5				J												
BH230 -0.0-0.1				J+B			X	X								
BH230 -0.4-0.5				J												
BH269 -0.0-0.1				J+B												
BH269 -0.4-0.5				J		✓		✓		X						
BH231 -0.0-0.1				J+B												
BH231 -0.4-0.5				J												
BH270 -0.0-0.1				J+B		✓	X			X						
BH270 -0.4-0.5				J												
BH300 -0.0-0.1				J+B		✓		✓								
BH300 - 0.4-0.5				J												

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Rijan Lill DATE: 12-4-72 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: GTW DATE: 12/4/21 6.30PM 4.2°C 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

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 60482	LABORATORY BATCH NO.:
PROJECT NAME: Kemps Creek DSI	SAMPLERS:
DATE NEEDED BY: Standard TAT	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) .....rlill@jbsg.com.au; (3) .....cdagger@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs	Asbestos	OCPs/PCBs	Phenols	Herbicides	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
~~QC01_Soil~~	Soil	12.4.21		~~BAG~~												
BH203_0.4-0.5				JAR												
BH202_0.0-0.1				JAR, BAG												
BH202_0.3-0.4				JAR												
BH422_0.0-0.1				JAR, BAG					x							
BH422_0.4-0.5				JAR												
BH423_0.0-0.1				JAR, BAG		x		x	x							
BH423_0.4-0.5				JAR												
BH424_0.0-0.1				J, B					x							
BH424_0.4-0.5				J												
BH425_0.0-0.2				J, B					x							
BH425_0.4-0.5				J												
BH426_0.0-0.1				J, B		x		x	x							
BH426_0.3-0.4				J												
BH427_0.0-0.2				J, B					x							
BH427_0.3-0.4				J			x	x								
BH428_0.0-0.15				J, B					x							
BH428_0.3-0.4				J		x		x								
BH429_0.0-0.2				J, B					x							
BH421_0.3-0.4				J												

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Kiyan Lill DATE: 12-4-21	CONSIGNMENT NOTE NO.	NAME: GHV	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 12/4/21 6:39PM 4.2°	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

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 60482	LABORATORY BATCH NO.:
PROJECT NAME: Kemps Creek DSI	SAMPLERS:
DATE NEEDED BY: Standard TAT	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) .....rlill@jbsg.com.au; (3) .....cdagger@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs	Asbestos	OCPs/PCBs	Phenols	Herbicides	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
TP106 0.0-0.1	Soil	12.4.21		B+J		X		X		X						
TP106 0.5-0.6				J												
TP107 0.0-0.1				J			X					X				
TP107 0.2-0.3				J												
TP108 0.0-0.1				B+J		X										
TP108 0.2-0.3				J		X		X								
TP109 0.0-0.1				J												
TP109 0.3-0.4				J												
TP116 0.0-0.1				B+J			X			X		X				
TP116 1.0-2.0				J		X		X								
TP116 2.0-3.0				J												
TP117 0.0-0.1				J		X		X								
TP117 0.3-0.4				J												
TP118 0.0-0.1				B+J		X	X									
TP118 0.4-0.5				J												
TP119 0.0-0.1				J			X	X								
TP119 0.2-0.3				J												
TP120 0.0-0.1				B+J			X					X				
TP120 0.2-0.3	↓	↓		J												

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: GTH	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 12/4/21 6:34pm 4.2°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

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 60482	LABORATORY BATCH NO.:
PROJECT NAME: Kemps Creek DSI	SAMPLERS:
DATE NEEDED BY: Standard TAT	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) .....rlill@jbsg.com.au; (3) .....cdagger@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs	Asbestos	OCPs/PCBs	Phenols	Herbicides	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
TP134 0.0-0.1	Soil	12-4-21		B + J												
TP134 0.2-0.3				J												
TP100 0.0-0.1				B+J												
TP100 0.3-0.4				J												
TP101 0.0-0.1				J		x		x								
TP101 0.2-0.3				J												
TP102 0.0-0.1				B+J			x	x								
TP102 0.3-0.4				J												
TP103 0.0-0.1				J												
TP103 0.3-0.4				J												
TP104 0.0-0.1				B+J			x									
TP104 0.4-0.45				J												
TP105 0.0-0.1				J												
TP105 0.3-0.4				J												
TP115 0.0-0.1				J		x		x								
TP115 0.3-0.4				J												
TP114 0.0-0.1				B+J		x	x									
TP114 0.3-0.4				J												
TP113 0.0-0.1				J												
TP113 0.4-0.5				J												

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Rylan Lill DATE: 12-4-21 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: GTN DATE: 12/4/21 5:34pm 4.2°c 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

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 60482	LABORATORY BATCH NO.:
PROJECT NAME: Kemps Creek DSI	SAMPLERS:
DATE NEEDED BY: Standard TAT	QC LEVEL: NEPM (2013)

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

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COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs	Asbestos	OCPs/PCBs	Phenols	Herbicides	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
TP223 0.0-0.1	Soil	12.4.21		J+B		x		x								
TP223 0.4-0.5				J												
TP224 0.0-0.1				B+J			x									
TP224 0.2-0.3				J												
TP112 0.0-0.1				B+J		x		x	x							
TP112 0.3-0.4				J												
TP133 0.0-0.1				J		x		x				x				
TP133 0.2-0.3				J												
TP132 0.0-0.1				B+J		x	x									
TP132 0.2-0.3				J												
TP137 0.0-0.1				J			x	x				x				
TP137 0.2-0.3				J												
TP136 0.0-0.1				B+J		x		x								
TP136 0.4-0.5				J												
TP135 0.0-0.1				J		x	x	x								
TP135 0.3-0.4				J												
TP157 0.0-0.1				J		x	x	x				x				
TP157 0.3-0.4				J												
TP156 0.0-0.1				B+J		x		x								
TP156 0.4-0.5	↓	↓		J												

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Ryan Lill DATE: 12-4-21 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: GHW DATE: 12/4/21 6:38PM 4.2°C 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

CHAIN OF CUSTODY

PROJECT NO.: 60482	LABORATORY BATCH NO.:
PROJECT NAME: Kemps Creek DSI	SAMPLERS:
DATE NEEDED BY: Standard TAT	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) .....rlill@jbsg.com.au; (3) .....cdagger@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs	Asbestos	OCPs/PCBs	Phenols	Herbicides	PFAS	BTEX	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
BH301 - 0.0 - 0.1	Soil	12/4/21		J+B													
BH304 - 0.4 - 0.5	↓	↓		J													
BH298 - 0.0 - 0.1				J+B				X		X		X					
BH298 - 0.4 - 0.5				J													
BH430 - 0.0 - 0.2				J, B					X								
BH431 - 0.0 - 0.2				J, B		X	X	X	X								
BH431 - 0.3 - 0.4				J													
~~QC~~ QC04 - Soil				J, B.		X	X	X	X								
QC02 - Soil				J, B				X		X		X					
BH297 - 0.0 - 0.1				J, B													
BH297 - 0.4 - 0.5				J		X		X									
TP121 0.0 - 0.1				J													
TP121 0.2 - 0.3				J													
TP216 - 0.0 - 0.1				J+B													
0.4 - 0.5				J, ~~B~~ PFAS		X	X	X		X			X				
0.3 - 0.4				B													
0.9 - 1.0				J+B													
↓ 1.2 - 1.3				J													
QC01 - Soil	↓	↓		J		X	X	X		X							
TSTB	Water	↓		2x V+ 2x V										X			

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Kyam Lill DATE: 12-4-21 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: GHD DATE: 12/4/21 6.30PM 4.2°C 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

eurofins | Environment Testing

ABN: 50 005 085 521 www.eurofins.com.au EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
2/91 Leach Highway
Kewdale WA 6105
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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:	*S/RECEIPT DONT PUT S&G SAMPLES IN THIS FILE
Project name:	KEMPS CREEK DSI
Project ID:	60482
Turnaround time:	5 Day
Date/Time received	Apr 12, 2021 6:39 PM
Eurofins reference	786622

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 Sample Receipt : 4.2 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.
X	Split sample sent to requested external lab.
X	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Sample TP10-0-0.1, BH203-0-0.2, BH228-0-0.1, BH202-0-0.1 & BH231-0-0.1 did not receive bag, TP216 0.3-0.4, BH203-0.4-0.5, BH202-0.3-0.4, TP114 0-0.1, TP114 0.3-0.4, TP10-0.5-0.6 did not receive jar. Sample TP110_0.0-0.1, BH299 0.0-0.1 & TP225 0.0-0.1 (BAGS), TP110_0.5-0.6, TP110_0.5-0.6, TP225 0.3-0.4, TP225 0.0-0.1, BH299 0.4-0.5 (jars) received not on COC, logged on hold. Sample QC03-SOIL, BH431 0-0.2 did not receive Asbestos Bag, analysis cancelled. Sample BH202-0-0.1, TS/TB, TP10-0-0.1 not received, analysis cancelled. Sample BH300-0.4-0.5 received as TP300-0.4-0.5, BH298 0-0.1 received as BH299 0-0.1. BH230-0-0.1 received as TP230-0-0.1. BH230-0.4-0.5 received as TP230-0.4-0.5.

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 *S/RECEIPT DONT PUT S&G SAMPLES IN THIS FILE - ursulalong@eurofins.com.

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
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Welshpool WA 6106
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Project Name: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786622
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:39 PM
Due: Apr 20, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B4	Eurofins Suite B6	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																			X
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory																			
External Laboratory																			
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**														
1	QC03-SOIL	Apr 12, 2021		Soil	S21-Ap17645									X	X				
2	TP10-0-0.1	Apr 12, 2021		Soil	S21-Ap17646		X												
3	TP10-0.5-0.6	Apr 12, 2021		Soil	S21-Ap17647			X											
4	BH206-0-0.1	Apr 12, 2021		Soil	S21-Ap17648			X											
5	BH206-0.4-0.5	Apr 12, 2021		Soil	S21-Ap17649					X		X		X					
6	BH207-0-0.1	Apr 12, 2021		Soil	S21-Ap17650			X											
7	BH207-0.4-0.5	Apr 12, 2021		Soil	S21-Ap17651				X					X					
8	BH208-0-0.1	Apr 12, 2021		Soil	S21-Ap17652			X											
9	BH208-0.3-0.4	Apr 12, 2021		Soil	S21-Ap17653			X											

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Australia

Melbourne
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4/52 Industrial Drive
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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																			X
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory																			
External Laboratory																			
10	BH209-0-0.1	Apr 12, 2021		Soil	S21-Ap17654									X				X	
11	BH209-0.3-0.4	Apr 12, 2021		Soil	S21-Ap17655			X											
12	BH210-0-0.1	Apr 12, 2021		Soil	S21-Ap17656								X	X		X			
13	BH210-0.4-0.5	Apr 12, 2021		Soil	S21-Ap17657			X											
14	BH217-0-0.1	Apr 12, 2021		Soil	S21-Ap17658						X			X					
15	BH217-0.3-0.4	Apr 12, 2021		Soil	S21-Ap17659			X											
16	BH218-0-0.2	Apr 12, 2021		Soil	S21-Ap17660					X		X		X					
17	BH218-0.4-0.5	Apr 12, 2021		Soil	S21-Ap17661			X											
18	BH111-0-0.1	Apr 12, 2021		Soil	S21-Ap17662					X				X					
19	BH111-0.3-0.4	Apr 12, 2021		Soil	S21-Ap17663			X											
20	BH203-0-0.2	Apr 12, 2021		Soil	S21-Ap17664		X												

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																			X
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory																			
External Laboratory																			
21	BH267-0-0.1	Apr 12, 2021		Soil	S21-Ap17665					X		X		X					
22	BH267-0.5-0.6	Apr 12, 2021		Soil	S21-Ap17666			X											
23	BH228-0-0.1	Apr 12, 2021		Soil	S21-Ap17667								X	X		X			
24	BH228-0.4-0.5	Apr 12, 2021		Soil	S21-Ap17668			X											
25	BH228-0.6-0.7	Apr 12, 2021		Soil	S21-Ap17669			X											
26	BH268-0-0.1	Apr 12, 2021		Soil	S21-Ap17670					X		X		X					
27	BH268-0.4-0.5	Apr 12, 2021		Soil	S21-Ap17671			X											
28	BH229-0-0.1	Apr 12, 2021		Soil	S21-Ap17672									X				X	
29	BH229-0.4-0.5	Apr 12, 2021		Soil	S21-Ap17673			X											
30	BH230-0-0.1	Apr 12, 2021		Soil	S21-Ap17674									X			X		
31	BH230-0.4-0.5	Apr 12, 2021		Soil	S21-Ap17675			X											

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																			X
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory																			
External Laboratory																			
32	BH269-0-0.1	Apr 12, 2021		Soil	S21-Ap17676			X											
33	BH269-0.4-0.5	Apr 12, 2021		Soil	S21-Ap17677					X		X		X					
34	BH231-0-0.1	Apr 12, 2021		Soil	S21-Ap17678			X											
35	BH231-0.4-0.5	Apr 12, 2021		Soil	S21-Ap17679			X											
36	BH270-0-0.1	Apr 12, 2021		Soil	S21-Ap17680								X	X				X	
37	BH270-0.4-0.5	Apr 12, 2021		Soil	S21-Ap17681			X											
38	BH300-0-0.1	Apr 12, 2021		Soil	S21-Ap17682					X		X		X					
39	BH300-0.4-0.5	Apr 12, 2021		Soil	S21-Ap17683			X											
40	BH203-0.4-0.5	Apr 12, 2021		Soil	S21-Ap17684			X											
41	BH202-0-0.1	Apr 12, 2021		Soil	S21-Ap17685		X												
42	BH202-0.3-0.4	Apr 12, 2021		Soil	S21-Ap17686			X											

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Australia

Melbourne
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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																			X
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory																			
External Laboratory																			
43	BH422-0-0.1	Apr 12, 2021		Soil	S21-Ap17687	X													
44	BH422-0.4-0.5	Apr 12, 2021		Soil	S21-Ap17688			X											
45	BH423-0-0.1	Apr 12, 2021		Soil	S21-Ap17689	X				X		X		X					
46	BH423-0.4-0.5	Apr 12, 2021		Soil	S21-Ap17690			X											
47	BH424-0-0.1	Apr 12, 2021		Soil	S21-Ap17691	X													
48	BH424-0.4-0.5	Apr 12, 2021		Soil	S21-Ap17692			X											
49	BH425-0-0.2	Apr 12, 2021		Soil	S21-Ap17693	X													
50	BH425-0.4-0.5	Apr 12, 2021		Soil	S21-Ap17694			X											
51	BH426-0-0.1	Apr 12, 2021		Soil	S21-Ap17695	X				X		X		X					
52	BH426-0.3-0.4	Apr 12, 2021		Soil	S21-Ap17696			X											
53	BH427-0-0.2	Apr 12, 2021		Soil	S21-Ap17697	X													

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																			X
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory																			
External Laboratory																			
54	BH427-0.3-0.4	Apr 12, 2021		Soil	S21-Ap17698									X			X		
55	BH428-0-0.15	Apr 12, 2021		Soil	S21-Ap17699	X													
56	BH428-0.3-0.4	Apr 12, 2021		Soil	S21-Ap17700					X		X		X					
57	BH429-0-0.2	Apr 12, 2021		Soil	S21-Ap17701	X													
58	BH429-0.3-0.4	Apr 12, 2021		Soil	S21-Ap17702			X											
59	TP106 0-0.1	Apr 12, 2021		Soil	S21-Ap17703					X		X	X	X					
60	TP106 0.5-0.6	Apr 12, 2021		Soil	S21-Ap17704			X											
61	TP107 0-0.1	Apr 12, 2021		Soil	S21-Ap17705						X			X		X			
62	TP107 0.2-0.3	Apr 12, 2021		Soil	S21-Ap17706			X											
63	TP108 0-0.1	Apr 12, 2021		Soil	S21-Ap17707			X											
64	TP108 0.2-0.3	Apr 12, 2021		Soil	S21-Ap17708					X		X		X					

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																			X
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory																			
External Laboratory																			
65	TP109 0-0.1	Apr 12, 2021		Soil	S21-Ap17709			X											
66	TP109 0.3-0.4	Apr 12, 2021		Soil	S21-Ap17710			X											
67	TP116 0-0.1	Apr 12, 2021		Soil	S21-Ap17711						X		X	X		X			
68	TP116 1-2	Apr 12, 2021		Soil	S21-Ap17712			X											
69	TP116 2-3	Apr 12, 2021		Soil	S21-Ap17713			X											
70	TP117 0-0.1	Apr 12, 2021		Soil	S21-Ap17714					X		X		X					
71	TP117 0.3-0.4	Apr 12, 2021		Soil	S21-Ap17715			X											
72	TP118 0-0.1	Apr 12, 2021		Soil	S21-Ap17716									X				X	
73	TP118 0.4-0.5	Apr 12, 2021		Soil	S21-Ap17717			X											
74	TP119 0-0.1	Apr 12, 2021		Soil	S21-Ap17718									X			X		
75	TP119 0.2-0.3	Apr 12, 2021		Soil	S21-Ap17719			X											

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Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
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Project ID: 60482

Order No.:
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Fax:

Received: Apr 12, 2021 6:39 PM
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Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																			X
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory																			
External Laboratory																			
76	TP120 0-0.1	Apr 12, 2021		Soil	S21-Ap17720						X			X		X			
77	TP120 0.2-0.3	Apr 12, 2021		Soil	S21-Ap17721			X											
78	TP134 0-0.1	Apr 12, 2021		Soil	S21-Ap17722			X											
79	TP134 0.2-0.3	Apr 12, 2021		Soil	S21-Ap17723			X											
80	TP100 0-0.1	Apr 12, 2021		Soil	S21-Ap17724			X											
81	TP100 0.3-0.4	Apr 12, 2021		Soil	S21-Ap17725			X											
82	TP101 0-0.1	Apr 12, 2021		Soil	S21-Ap17726					X		X		X					
83	TP101 0.2-0.3	Apr 12, 2021		Soil	S21-Ap17727			X											
84	TP102 0-0.1	Apr 12, 2021		Soil	S21-Ap17728									X			X		
85	TP102 0.3-0.4	Apr 12, 2021		Soil	S21-Ap17729			X											
86	TP103 0-0.1	Apr 12, 2021		Soil	S21-Ap17730			X											

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																			X
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory																			
External Laboratory																			
87	TP103 0.3-0.4	Apr 12, 2021		Soil	S21-Ap17731			X											
88	TP104 0-0.1	Apr 12, 2021		Soil	S21-Ap17732									X		X			
89	TP104 0.4-0.45	Apr 12, 2021		Soil	S21-Ap17733			X											
90	TP105 0-0.1	Apr 12, 2021		Soil	S21-Ap17734			X											
91	TP105 0.3-0.4	Apr 12, 2021		Soil	S21-Ap17735			X											
92	TP115 0-0.1	Apr 12, 2021		Soil	S21-Ap17736					X		X		X					
93	TP115 0.3-0.4	Apr 12, 2021		Soil	S21-Ap17737			X											
94	TP114 0-0.1	Apr 12, 2021		Soil	S21-Ap17738									X				X	
95	TP114 0.3-0.4	Apr 12, 2021		Soil	S21-Ap17739			X											
96	TP113 0-0.1	Apr 12, 2021		Soil	S21-Ap17740			X											

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																			X
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory																			
External Laboratory																			
97	TP113 0.4-0.5	Apr 12, 2021		Soil	S21-Ap17741			X											
98	TP223 0-0.1	Apr 12, 2021		Soil	S21-Ap17742					X		X		X					
99	TP223 0.4-0.5	Apr 12, 2021		Soil	S21-Ap17743			X											
100	TP224 0-0.1	Apr 12, 2021		Soil	S21-Ap17744									X		X			
101	TP224 0.2-0.3	Apr 12, 2021		Soil	S21-Ap17745			X											
102	TP112 0-0.1	Apr 12, 2021		Soil	S21-Ap17746	X				X		X		X					
103	TP112 0.3-0.4	Apr 12, 2021		Soil	S21-Ap17747			X											
104	TP133 0-0.1	Apr 12, 2021		Soil	S21-Ap17748					X	X	X		X					
105	TP133 0.2-0.3	Apr 12, 2021		Soil	S21-Ap17749			X											
106	TP132 0-0.1	Apr 12, 2021		Soil	S21-Ap17750									X				X	
107	TP132 0.2-0.3	Apr 12, 2021		Soil	S21-Ap17751			X											

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Australia

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																			X
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory																			
External Laboratory																			
108	TP137 0-0.1	Apr 12, 2021		Soil	S21-Ap17752									X			X		
109	TP137 0.2-0.3	Apr 12, 2021		Soil	S21-Ap17753			X											
110	TP136 0-0.1	Apr 12, 2021		Soil	S21-Ap17754					X		X		X					
111	TP136 0.4-0.5	Apr 12, 2021		Soil	S21-Ap17755			X											
112	TP135 0-0.1	Apr 12, 2021		Soil	S21-Ap17756									X	X				
113	TP135 0.3-0.4	Apr 12, 2021		Soil	S21-Ap17757			X											
114	TP157 0-0.1	Apr 12, 2021		Soil	S21-Ap17758					X	X	X		X					
115	TP157 0.3-0.4	Apr 12, 2021		Soil	S21-Ap17759			X											
116	TP156 0-0.1	Apr 12, 2021		Soil	S21-Ap17760					X		X		X					
117	TP156 0.4-0.5	Apr 12, 2021		Soil	S21-Ap17761			X											
118	BH301 0-0.1	Apr 12, 2021		Soil	S21-Ap17762			X											

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Melbourne
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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																			X
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory																			
External Laboratory																			
119	BH301 0.4-0.5	Apr 12, 2021		Soil	S21-Ap17763			X											
120	BH298 0-0.1	Apr 12, 2021		Soil	S21-Ap17764					X	X		X	X					
121	BH298 0.4-0.5	Apr 12, 2021		Soil	S21-Ap17765			X											
122	BH430 0-0.2	Apr 12, 2021		Soil	S21-Ap17766	X													
123	BH431 0-0.2	Apr 12, 2021		Soil	S21-Ap17767									X	X				
124	BH431 0.3-0.4	Apr 12, 2021		Soil	S21-Ap17768			X											
125	QC04-SOIL	Apr 12, 2021		Soil	S21-Ap17769	X								X	X				
126	QC02-SOIL	Apr 12, 2021		Soil	S21-Ap17770					X	X		X	X					
127	BH297 0-0.1	Apr 12, 2021		Soil	S21-Ap17771			X											
128	BH297 0.4-0.5	Apr 12, 2021		Soil	S21-Ap17772					X		X		X					
129	TP121 0-0.1	Apr 12, 2021		Soil	S21-Ap17773			X											

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																			X
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory																			
External Laboratory																			
130	TP121 0.2-0.3	Apr 12, 2021		Soil	S21-Ap17774			X											
131	TP216 0-0.1	Apr 12, 2021		Soil	S21-Ap17775			X											
132	TP216 0.4-0.5	Apr 12, 2021		Soil	S21-Ap17776								X	X	X				X
133	TP216 0.3-0.4	Apr 12, 2021		Soil	S21-Ap17777			X											
134	TP216 0.9-1	Apr 12, 2021		Soil	S21-Ap17778			X											
135	TP216 1.2-1.3	Apr 12, 2021		Soil	S21-Ap17779			X											
136	QC01-SOIL	Apr 12, 2021		Soil	S21-Ap17780								X	X	X				
137	TRIP SPIKE	Apr 12, 2021		Water	S21-Ap17781		X												
138	TRIP BLANK	Apr 12, 2021		Water	S21-Ap17782		X												
139	TP110_0.0-0.1	Apr 12, 2021		Water	S21-Ap20707			X											
140	BH299 0.0-0.1	Apr 12, 2021		Water	S21-Ap20708			X											

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																			X
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory																			
External Laboratory																			
141	TP225 0.0-0.1	Apr 12, 2021		Water	S21-Ap20709			X											
142	TP110_0.5-0.6	Apr 12, 2021		Water	S21-Ap20742			X											
143	TP110_0.0-0.1	Apr 12, 2021		Water	S21-Ap20743			X											
144	TP225 0.3-0.4	Apr 12, 2021		Water	S21-Ap20744			X											
145	TP225 0.0-0.1	Apr 12, 2021		Water	S21-Ap20745			X											
146	BH299 0.4-0.5	Apr 12, 2021		Water	S21-Ap20746			X											
Test Counts						11	8	91	1	24	8	21	9	50	6	7	10	6	1

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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 and proficiency testing scheme providers reports.

JBS & G Australia (NSW) P/L
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Sydney
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Attention:	Ryan Lill
Report	786622-AID
Project Name	KEMPS CREEK DSI
Project ID	60482
Received Date	Apr 12, 2021
Date Reported	Apr 22, 2021

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.*

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 and proficiency testing scheme providers reports.

Project Name KEMPS CREEK DSI
Project ID 60482
Date Sampled Apr 12, 2021
Report 786622-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
BH422-0-0.1	21-Ap17687	Apr 12, 2021	Approximate Sample 474g 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.
BH423-0-0.1	21-Ap17689	Apr 12, 2021	Approximate Sample 629g 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.
BH424-0-0.1	21-Ap17691	Apr 12, 2021	Approximate Sample 509g 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.
BH425-0-0.2	21-Ap17693	Apr 12, 2021	Approximate Sample 557g 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.
BH426-0-0.1	21-Ap17695	Apr 12, 2021	Approximate Sample 572g 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.
BH427-0-0.2	21-Ap17697	Apr 12, 2021	Approximate Sample 453g 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.
BH428-0-0.15	21-Ap17699	Apr 12, 2021	Approximate Sample 538g 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.
BH429-0-0.2	21-Ap17701	Apr 12, 2021	Approximate Sample 542g 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
TP112 0-0.1	21-Ap17746	Apr 12, 2021	Approximate Sample 465g 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.
BH430 0-0.2	21-Ap17766	Apr 12, 2021	Approximate Sample 540g 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.
QC04-SOIL	21-Ap17769	Apr 12, 2021	Approximate Sample 514g 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.

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	Apr 13, 2021	Indefinite

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
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Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
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New Zealand

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Project Name: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786622
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:39 PM
Due: Apr 20, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																			X
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory																			
External Laboratory																			
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**														
1	QC03-SOIL	Apr 12, 2021		Soil	S21-Ap17645									X	X				
2	TP10-0-0.1	Apr 12, 2021		Soil	S21-Ap17646		X												
3	TP10-0.5-0.6	Apr 12, 2021		Soil	S21-Ap17647			X											
4	BH206-0-0.1	Apr 12, 2021		Soil	S21-Ap17648			X											
5	BH206-0.4-0.5	Apr 12, 2021		Soil	S21-Ap17649					X		X		X					
6	BH207-0-0.1	Apr 12, 2021		Soil	S21-Ap17650			X											
7	BH207-0.4-0.5	Apr 12, 2021		Soil	S21-Ap17651				X					X					
8	BH208-0-0.1	Apr 12, 2021		Soil	S21-Ap17652			X											
9	BH208-0.3-0.4	Apr 12, 2021		Soil	S21-Ap17653			X											

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																			X
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory																			
External Laboratory																			
10	BH209-0-0.1	Apr 12, 2021		Soil	S21-Ap17654									X				X	
11	BH209-0.3-0.4	Apr 12, 2021		Soil	S21-Ap17655			X											
12	BH210-0-0.1	Apr 12, 2021		Soil	S21-Ap17656								X	X		X			
13	BH210-0.4-0.5	Apr 12, 2021		Soil	S21-Ap17657			X											
14	BH217-0-0.1	Apr 12, 2021		Soil	S21-Ap17658						X			X					
15	BH217-0.3-0.4	Apr 12, 2021		Soil	S21-Ap17659			X											
16	BH218-0-0.2	Apr 12, 2021		Soil	S21-Ap17660					X		X		X					
17	BH218-0.4-0.5	Apr 12, 2021		Soil	S21-Ap17661			X											
18	BH111-0-0.1	Apr 12, 2021		Soil	S21-Ap17662					X				X					
19	BH111-0.3-0.4	Apr 12, 2021		Soil	S21-Ap17663			X											
20	BH203-0-0.2	Apr 12, 2021		Soil	S21-Ap17664		X												

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																			X
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory																			
External Laboratory																			
21	BH267-0-0.1	Apr 12, 2021		Soil	S21-Ap17665					X		X		X					
22	BH267-0.5-0.6	Apr 12, 2021		Soil	S21-Ap17666			X											
23	BH228-0-0.1	Apr 12, 2021		Soil	S21-Ap17667								X	X		X			
24	BH228-0.4-0.5	Apr 12, 2021		Soil	S21-Ap17668			X											
25	BH228-0.6-0.7	Apr 12, 2021		Soil	S21-Ap17669			X											
26	BH268-0-0.1	Apr 12, 2021		Soil	S21-Ap17670					X		X		X					
27	BH268-0.4-0.5	Apr 12, 2021		Soil	S21-Ap17671			X											
28	BH229-0-0.1	Apr 12, 2021		Soil	S21-Ap17672									X				X	
29	BH229-0.4-0.5	Apr 12, 2021		Soil	S21-Ap17673			X											
30	BH230-0-0.1	Apr 12, 2021		Soil	S21-Ap17674									X			X		
31	BH230-0.4-0.5	Apr 12, 2021		Soil	S21-Ap17675			X											

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Australia

Melbourne
6 Monterey Road
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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																			X
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory																			
External Laboratory																			
32	BH269-0-0.1	Apr 12, 2021		Soil	S21-Ap17676			X											
33	BH269-0.4-0.5	Apr 12, 2021		Soil	S21-Ap17677					X		X		X					
34	BH231-0-0.1	Apr 12, 2021		Soil	S21-Ap17678			X											
35	BH231-0.4-0.5	Apr 12, 2021		Soil	S21-Ap17679			X											
36	BH270-0-0.1	Apr 12, 2021		Soil	S21-Ap17680								X	X				X	
37	BH270-0.4-0.5	Apr 12, 2021		Soil	S21-Ap17681			X											
38	BH300-0-0.1	Apr 12, 2021		Soil	S21-Ap17682					X		X		X					
39	BH300-0.4-0.5	Apr 12, 2021		Soil	S21-Ap17683			X											
40	BH203-0.4-0.5	Apr 12, 2021		Soil	S21-Ap17684			X											
41	BH202-0-0.1	Apr 12, 2021		Soil	S21-Ap17685		X												
42	BH202-0.3-0.4	Apr 12, 2021		Soil	S21-Ap17686			X											

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																			X
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory																			
External Laboratory																			
43	BH422-0-0.1	Apr 12, 2021		Soil	S21-Ap17687	X													
44	BH422-0.4-0.5	Apr 12, 2021		Soil	S21-Ap17688			X											
45	BH423-0-0.1	Apr 12, 2021		Soil	S21-Ap17689	X				X		X		X					
46	BH423-0.4-0.5	Apr 12, 2021		Soil	S21-Ap17690			X											
47	BH424-0-0.1	Apr 12, 2021		Soil	S21-Ap17691	X													
48	BH424-0.4-0.5	Apr 12, 2021		Soil	S21-Ap17692			X											
49	BH425-0-0.2	Apr 12, 2021		Soil	S21-Ap17693	X													
50	BH425-0.4-0.5	Apr 12, 2021		Soil	S21-Ap17694			X											
51	BH426-0-0.1	Apr 12, 2021		Soil	S21-Ap17695	X				X		X		X					
52	BH426-0.3-0.4	Apr 12, 2021		Soil	S21-Ap17696			X											
53	BH427-0-0.2	Apr 12, 2021		Soil	S21-Ap17697	X													

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Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																			X
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory																			
External Laboratory																			
54	BH427-0.3-0.4	Apr 12, 2021		Soil	S21-Ap17698									X			X		
55	BH428-0-0.15	Apr 12, 2021		Soil	S21-Ap17699	X													
56	BH428-0.3-0.4	Apr 12, 2021		Soil	S21-Ap17700					X		X		X					
57	BH429-0-0.2	Apr 12, 2021		Soil	S21-Ap17701	X													
58	BH429-0.3-0.4	Apr 12, 2021		Soil	S21-Ap17702			X											
59	TP106 0-0.1	Apr 12, 2021		Soil	S21-Ap17703					X		X	X	X					
60	TP106 0.5-0.6	Apr 12, 2021		Soil	S21-Ap17704			X											
61	TP107 0-0.1	Apr 12, 2021		Soil	S21-Ap17705						X			X		X			
62	TP107 0.2-0.3	Apr 12, 2021		Soil	S21-Ap17706			X											
63	TP108 0-0.1	Apr 12, 2021		Soil	S21-Ap17707			X											
64	TP108 0.2-0.3	Apr 12, 2021		Soil	S21-Ap17708					X		X		X					

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Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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
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Perth
46-48 Banksia Road
Welshpool WA 6106
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4/52 Industrial Drive
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Phone : +61 2 4968 8448

New Zealand

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35 O'Rorke Road
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Rolleston, Christchurch 7675
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Eurofins Analytical Services Manager : Ursula Long

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																			X
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory																			
External Laboratory																			
65	TP109 0-0.1	Apr 12, 2021		Soil	S21-Ap17709			X											
66	TP109 0.3-0.4	Apr 12, 2021		Soil	S21-Ap17710			X											
67	TP116 0-0.1	Apr 12, 2021		Soil	S21-Ap17711						X		X	X		X			
68	TP116 1-2	Apr 12, 2021		Soil	S21-Ap17712			X											
69	TP116 2-3	Apr 12, 2021		Soil	S21-Ap17713			X											
70	TP117 0-0.1	Apr 12, 2021		Soil	S21-Ap17714					X		X		X					
71	TP117 0.3-0.4	Apr 12, 2021		Soil	S21-Ap17715			X											
72	TP118 0-0.1	Apr 12, 2021		Soil	S21-Ap17716									X				X	
73	TP118 0.4-0.5	Apr 12, 2021		Soil	S21-Ap17717			X											
74	TP119 0-0.1	Apr 12, 2021		Soil	S21-Ap17718									X			X		
75	TP119 0.2-0.3	Apr 12, 2021		Soil	S21-Ap17719			X											

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																			X
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory																			
External Laboratory																			
76	TP120 0-0.1	Apr 12, 2021		Soil	S21-Ap17720						X			X		X			
77	TP120 0.2-0.3	Apr 12, 2021		Soil	S21-Ap17721			X											
78	TP134 0-0.1	Apr 12, 2021		Soil	S21-Ap17722			X											
79	TP134 0.2-0.3	Apr 12, 2021		Soil	S21-Ap17723			X											
80	TP100 0-0.1	Apr 12, 2021		Soil	S21-Ap17724			X											
81	TP100 0.3-0.4	Apr 12, 2021		Soil	S21-Ap17725			X											
82	TP101 0-0.1	Apr 12, 2021		Soil	S21-Ap17726					X		X		X					
83	TP101 0.2-0.3	Apr 12, 2021		Soil	S21-Ap17727			X											
84	TP102 0-0.1	Apr 12, 2021		Soil	S21-Ap17728									X			X		
85	TP102 0.3-0.4	Apr 12, 2021		Soil	S21-Ap17729			X											
86	TP103 0-0.1	Apr 12, 2021		Soil	S21-Ap17730			X											

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																			X
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory																			
External Laboratory																			
87	TP103 0.3-0.4	Apr 12, 2021		Soil	S21-Ap17731			X											
88	TP104 0-0.1	Apr 12, 2021		Soil	S21-Ap17732									X		X			
89	TP104 0.4-0.45	Apr 12, 2021		Soil	S21-Ap17733			X											
90	TP105 0-0.1	Apr 12, 2021		Soil	S21-Ap17734			X											
91	TP105 0.3-0.4	Apr 12, 2021		Soil	S21-Ap17735			X											
92	TP115 0-0.1	Apr 12, 2021		Soil	S21-Ap17736					X		X		X					
93	TP115 0.3-0.4	Apr 12, 2021		Soil	S21-Ap17737			X											
94	TP114 0-0.1	Apr 12, 2021		Soil	S21-Ap17738									X				X	
95	TP114 0.3-0.4	Apr 12, 2021		Soil	S21-Ap17739			X											
96	TP113 0-0.1	Apr 12, 2021		Soil	S21-Ap17740			X											

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Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																			X
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory																			
External Laboratory																			
97	TP113 0.4-0.5	Apr 12, 2021		Soil	S21-Ap17741			X											
98	TP223 0-0.1	Apr 12, 2021		Soil	S21-Ap17742					X		X		X					
99	TP223 0.4-0.5	Apr 12, 2021		Soil	S21-Ap17743			X											
100	TP224 0-0.1	Apr 12, 2021		Soil	S21-Ap17744									X		X			
101	TP224 0.2-0.3	Apr 12, 2021		Soil	S21-Ap17745			X											
102	TP112 0-0.1	Apr 12, 2021		Soil	S21-Ap17746	X				X		X		X					
103	TP112 0.3-0.4	Apr 12, 2021		Soil	S21-Ap17747			X											
104	TP133 0-0.1	Apr 12, 2021		Soil	S21-Ap17748					X	X	X		X					
105	TP133 0.2-0.3	Apr 12, 2021		Soil	S21-Ap17749			X											
106	TP132 0-0.1	Apr 12, 2021		Soil	S21-Ap17750									X				X	
107	TP132 0.2-0.3	Apr 12, 2021		Soil	S21-Ap17751			X											

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Australia

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Dandenong South VIC 3175
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Site # 1254 & 14271

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Perth
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Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																			X
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory																			
External Laboratory																			
108	TP137 0-0.1	Apr 12, 2021		Soil	S21-Ap17752									X			X		
109	TP137 0.2-0.3	Apr 12, 2021		Soil	S21-Ap17753			X											
110	TP136 0-0.1	Apr 12, 2021		Soil	S21-Ap17754					X		X		X					
111	TP136 0.4-0.5	Apr 12, 2021		Soil	S21-Ap17755			X											
112	TP135 0-0.1	Apr 12, 2021		Soil	S21-Ap17756									X	X				
113	TP135 0.3-0.4	Apr 12, 2021		Soil	S21-Ap17757			X											
114	TP157 0-0.1	Apr 12, 2021		Soil	S21-Ap17758					X	X	X		X					
115	TP157 0.3-0.4	Apr 12, 2021		Soil	S21-Ap17759			X											
116	TP156 0-0.1	Apr 12, 2021		Soil	S21-Ap17760					X		X		X					
117	TP156 0.4-0.5	Apr 12, 2021		Soil	S21-Ap17761			X											
118	BH301 0-0.1	Apr 12, 2021		Soil	S21-Ap17762			X											

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																			X
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory																			
External Laboratory																			
119	BH301 0.4-0.5	Apr 12, 2021		Soil	S21-Ap17763			X											
120	BH298 0-0.1	Apr 12, 2021		Soil	S21-Ap17764					X	X		X	X					
121	BH298 0.4-0.5	Apr 12, 2021		Soil	S21-Ap17765			X											
122	BH430 0-0.2	Apr 12, 2021		Soil	S21-Ap17766	X													
123	BH431 0-0.2	Apr 12, 2021		Soil	S21-Ap17767									X	X				
124	BH431 0.3-0.4	Apr 12, 2021		Soil	S21-Ap17768			X											
125	QC04-SOIL	Apr 12, 2021		Soil	S21-Ap17769	X								X	X				
126	QC02-SOIL	Apr 12, 2021		Soil	S21-Ap17770					X	X		X	X					
127	BH297 0-0.1	Apr 12, 2021		Soil	S21-Ap17771			X											
128	BH297 0.4-0.5	Apr 12, 2021		Soil	S21-Ap17772					X		X		X					
129	TP121 0-0.1	Apr 12, 2021		Soil	S21-Ap17773			X											

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																			X
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory																			
External Laboratory																			
130	TP121 0.2-0.3	Apr 12, 2021		Soil	S21-Ap17774			X											
131	TP216 0-0.1	Apr 12, 2021		Soil	S21-Ap17775			X											
132	TP216 0.4-0.5	Apr 12, 2021		Soil	S21-Ap17776								X	X	X				X
133	TP216 0.3-0.4	Apr 12, 2021		Soil	S21-Ap17777			X											
134	TP216 0.9-1	Apr 12, 2021		Soil	S21-Ap17778			X											
135	TP216 1.2-1.3	Apr 12, 2021		Soil	S21-Ap17779			X											
136	QC01-SOIL	Apr 12, 2021		Soil	S21-Ap17780								X	X	X				
137	TRIP SPIKE	Apr 12, 2021		Water	S21-Ap17781		X												
138	TRIP BLANK	Apr 12, 2021		Water	S21-Ap17782		X												
139	TP110_0.0-0.1	Apr 12, 2021		Water	S21-Ap20707			X											
140	BH299 0.0-0.1	Apr 12, 2021		Water	S21-Ap20708			X											

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																			X
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory																			
External Laboratory																			
141	TP225 0.0-0.1	Apr 12, 2021		Water	S21-Ap20709			X											
142	TP110_0.5-0.6	Apr 12, 2021		Water	S21-Ap20742			X											
143	TP110_0.0-0.1	Apr 12, 2021		Water	S21-Ap20743			X											
144	TP225 0.3-0.4	Apr 12, 2021		Water	S21-Ap20744			X											
145	TP225 0.0-0.1	Apr 12, 2021		Water	S21-Ap20745			X											
146	BH299 0.4-0.5	Apr 12, 2021		Water	S21-Ap20746			X											
Test Counts						11	8	91	1	24	8	21	9	50	6	7	10	6	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 blue colour, 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 '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 Advice.

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: weight for weight basis	grams per kilogram
Filter loading:	fibres/100 graticule areas
Reported Concentration:	fibres/mL
Flowrate:	L/min

Terms

Dry	Sample is dried by heating prior to analysis
LOR	Limit of Reporting
COC	Chain of Custody
SRA	Sample Receipt Advice
ISO	International Standards Organisation
AS	Australian Standards
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 (2009), including supporting document Recommended Procedures for Laboratory Analysis of Asbestos in Soil (2011)
NEPM	National Environment Protection (Assessment of Site Contamination) Measure, 2013 (as amended)
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded and/or sound condition. For the purposes of the NEPM, ACM is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
AF	Asbestos Fines. Asbestos containing materials, including friable, weathered and bonded materials, able to pass a 7mm x 7mm sieve. Considered under the NEPM as equivalent to “non-bonded / friable”.
FA	Fibrous Asbestos. Asbestos containing materials in a friable and/or severely weathered condition. For the purposes of the NEPM, FA is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
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.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres in the matrix.

Comments

S21-Ap17687, S21-Ap17697 & S21-Ap17746: 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	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
N/A	Not applicable

Asbestos Counter/Identifier:

Sayeed Abu	Senior Analyst-Asbestos (NSW)

Authorised by:

Chamath JHM Annakkage	Senior Analyst-Asbestos (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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JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

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Attention: **Ryan Lill**

Report **786622-S**
Project name KEMPS CREEK DSI
Project ID 60482
Received Date Apr 12, 2021

Client Sample ID			**QC03-SOIL**	**BH206-0.4-0.5**	**BH207-0.4-0.5**	**BH209-0-0.1**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**S21-Ap17645**	**S21-Ap17649**	**S21-Ap17651**	**S21-Ap17654**
Date Sampled			**Apr 12, 2021**	**Apr 12, 2021**	**Apr 12, 2021**	**Apr 12, 2021**
Test/Reference	LOR	Unit				
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-C36 (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	%	87	-	-	78
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
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	-	< 100
Polycyclic Aromatic Hydrocarbons						
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	-	-
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	-	-

Client Sample ID			QC03-SOIL	BH206-0.4-0.5	BH207-0.4-0.5	BH209-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17645	S21-Ap17649	S21-Ap17651	S21-Ap17654
Date Sampled			Apr 12, 2021	Apr 12, 2021	Apr 12, 2021	Apr 12, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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	-	-
2-Fluorobiphenyl (surr.)	1	%	85	97	-	-
p-Terphenyl-d14 (surr.)	1	%	93	98	-	-
Heavy Metals						
Arsenic	2	mg/kg	8.7	8.8	-	7.9
Cadmium	0.4	mg/kg	< 0.4	< 0.4	-	< 0.4
Chromium	5	mg/kg	27	24	-	23
Copper	5	mg/kg	27	30	-	30
Lead	5	mg/kg	23	20	-	20
Mercury	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Nickel	5	mg/kg	13	11	-	12
Zinc	5	mg/kg	53	52	-	56
% Moisture	1	%	20	16	17	16
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	-	-	7.2	-

Client Sample ID			BH210-0-0.1	BH217-0-0.1	BH218-0-0.2	BH111-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17656	S21-Ap17658	S21-Ap17660	S21-Ap17662
Date Sampled			Apr 12, 2021	Apr 12, 2021	Apr 12, 2021	Apr 12, 2021
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	< 50	-	-	-
TRH C29-C36	50	mg/kg	< 50	-	-	-
TRH C10-C36 (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			BH210-0-0.1	BH217-0-0.1	BH218-0-0.2	BH111-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17656	S21-Ap17658	S21-Ap17660	S21-Ap17662
Date Sampled			Apr 12, 2021	Apr 12, 2021	Apr 12, 2021	Apr 12, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C16-C34	100	mg/kg	< 100	-	-	-
TRH >C34-C40	100	mg/kg	< 100	-	-	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	-	-
Polycyclic Aromatic Hydrocarbons						
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
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
2-Fluorobiphenyl (surr.)	1	%	-	-	98	109
p-Terphenyl-d14 (surr.)	1	%	-	-	102	111
Heavy Metals						
Arsenic	2	mg/kg	-	-	6.9	-
Cadmium	0.4	mg/kg	-	-	< 0.4	-
Chromium	5	mg/kg	-	-	21	-
Copper	5	mg/kg	-	-	28	-
Lead	5	mg/kg	-	-	18	-
Mercury	0.1	mg/kg	-	-	< 0.1	-
Nickel	5	mg/kg	-	-	11	-
Zinc	5	mg/kg	-	-	48	-
% Moisture	1	%	15	18	15	17
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	-	-	-

Client Sample ID			BH210-0-0.1	BH217-0-0.1	BH218-0-0.2	BH111-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17656	S21-Ap17658	S21-Ap17660	S21-Ap17662
Date Sampled			Apr 12, 2021	Apr 12, 2021	Apr 12, 2021	Apr 12, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
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	0.1	mg/kg	0.1	-	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2	-	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2	-	-	-
Dibutylchlorendate (surr.)	1	%	145	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	104	-	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1221	0.1	mg/kg	< 0.1	-	-	-
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	%	145	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	104	-	-	-
Acid Herbicides						
2.4-D	0.5	mg/kg	-	< 0.5	-	-
2.4-DB	0.5	mg/kg	-	< 0.5	-	-
2.4.5-T	0.5	mg/kg	-	< 0.5	-	-
2.4.5-TP	0.5	mg/kg	-	< 0.5	-	-
Actril (loxynil)	0.5	mg/kg	-	< 0.5	-	-
Dicamba	0.5	mg/kg	-	< 0.5	-	-
Dichlorprop	0.5	mg/kg	-	< 0.5	-	-
Dinitro-o-cresol	0.5	mg/kg	-	< 0.5	-	-
Dinoseb	0.5	mg/kg	-	< 0.5	-	-
MCPA	0.5	mg/kg	-	< 0.5	-	-
MCPB	0.5	mg/kg	-	< 0.5	-	-
Mecoprop	0.5	mg/kg	-	< 0.5	-	-
Warfarin (surr.)	1	%	-	64	-	-

Client Sample ID			BH267-0-0.1	BH228-0-0.1	BH268-0-0.1	BH229-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17665	S21-Ap17667	S21-Ap17670	S21-Ap17672
Date Sampled			Apr 12, 2021	Apr 12, 2021	Apr 12, 2021	Apr 12, 2021
Test/Reference	LOR	Unit				
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	-	84	-	< 50
TRH C29-C36	50	mg/kg	-	130	-	62
TRH C10-C36 (Total)	50	mg/kg	-	214	-	62
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	%	-	78	-	81
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	-	190	-	< 100
TRH >C34-C40	100	mg/kg	-	120	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	310	-	< 100
Polycyclic Aromatic Hydrocarbons						
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	-
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	-
2-Fluorobiphenyl (surr.)	1	%	104	-	102	-
p-Terphenyl-d14 (surr.)	1	%	111	-	109	-

Client Sample ID			BH267-0-0.1	BH228-0-0.1	BH268-0-0.1	BH229-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17665	S21-Ap17667	S21-Ap17670	S21-Ap17672
Date Sampled			Apr 12, 2021	Apr 12, 2021	Apr 12, 2021	Apr 12, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	14	-	4.7	10
Cadmium	0.4	mg/kg	< 0.4	-	< 0.4	< 0.4
Chromium	5	mg/kg	26	-	18	31
Copper	5	mg/kg	23	-	20	24
Lead	5	mg/kg	26	-	17	18
Mercury	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Nickel	5	mg/kg	16	-	10	8.9
Zinc	5	mg/kg	64	-	45	56
% Moisture	1	%	22	31	16	18
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	-	1.9	-	-
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	-	2.0	-	-
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	-	2.4	-	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	-
Methoxychlor	0.2	mg/kg	-	< 0.2	-	-
Toxaphene	0.1	mg/kg	-	4.9	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	1.9	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	6.3	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	4.4	-	-
Dibutylchlorendate (surr.)	1	%	-	148	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	95	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	< 0.5	-	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	-
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	%	-	148	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	95	-	-

Client Sample ID			BH230-0-0.1	BH269-0.4-0.5	BH270-0-0.1	BH300-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17674	S21-Ap17677	S21-Ap17680	S21-Ap17682
Date Sampled			Apr 12, 2021	Apr 12, 2021	Apr 12, 2021	Apr 12, 2021
Test/Reference	LOR	Unit				
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	67	-	< 50	-
TRH C29-C36	50	mg/kg	86	-	60	-
TRH C10-C36 (Total)	50	mg/kg	153	-	60	-
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	%	87	-	88	-
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	140	-	< 100	-
TRH >C34-C40	100	mg/kg	< 100	-	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	140	-	< 100	-
Polycyclic Aromatic Hydrocarbons						
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
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
2-Fluorobiphenyl (surr.)	1	%	97	102	-	107
p-Terphenyl-d14 (surr.)	1	%	105	110	-	103

Client Sample ID			BH230-0-0.1	BH269-0.4-0.5	BH270-0-0.1	BH300-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17674	S21-Ap17677	S21-Ap17680	S21-Ap17682
Date Sampled			Apr 12, 2021	Apr 12, 2021	Apr 12, 2021	Apr 12, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	-	4.7	3.3	< 2
Cadmium	0.4	mg/kg	-	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	-	23	19	17
Copper	5	mg/kg	-	26	17	27
Lead	5	mg/kg	-	15	13	15
Mercury	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	-	16	7.5	15
Zinc	5	mg/kg	-	44	37	73
% Moisture	1	%	25	19	19	43
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	0.1	mg/kg	-	-	0.1	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	< 0.2	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	< 0.2	-
Dibutylchlorendate (surr.)	1	%	-	-	138	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	97	-
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1221	0.1	mg/kg	-	-	< 0.1	-
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	%	-	-	138	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	97	-

Client Sample ID			BH423-0-0.1	BH426-0-0.1	BH427-0.3-0.4	BH428-0.3-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17689	S21-Ap17695	S21-Ap17698	S21-Ap17700
Date Sampled			Apr 12, 2021	Apr 12, 2021	Apr 12, 2021	Apr 12, 2021
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	-	-	< 50	-
TRH C29-C36	50	mg/kg	-	-	52	-
TRH C10-C36 (Total)	50	mg/kg	-	-	52	-
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	%	-	-	86	-
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	-
TRH >C10-C40 (total)*	100	mg/kg	-	-	< 100	-
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	%	82	92	99	94
p-Terphenyl-d14 (surr.)	1	%	101	103	105	102

Client Sample ID			BH423-0-0.1	BH426-0-0.1	BH427-0.3-0.4	BH428-0.3-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17689	S21-Ap17695	S21-Ap17698	S21-Ap17700
Date Sampled			Apr 12, 2021	Apr 12, 2021	Apr 12, 2021	Apr 12, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	8.5	7.5	-	8.6
Cadmium	0.4	mg/kg	< 0.4	< 0.4	-	< 0.4
Chromium	5	mg/kg	25	25	-	23
Copper	5	mg/kg	21	22	-	18
Lead	5	mg/kg	26	26	-	26
Mercury	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Nickel	5	mg/kg	13	14	-	14
Zinc	5	mg/kg	44	48	-	54
% Moisture	1	%	15	16	17	16

Client Sample ID			TP106 0-0.1	TP107 0-0.1	TP108 0.2-0.3	TP116 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17703	S21-Ap17705	S21-Ap17708	S21-Ap17711
Date Sampled			Apr 12, 2021	Apr 12, 2021	Apr 12, 2021	Apr 12, 2021
Test/Reference	LOR	Unit				
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	-	140	-	< 50
TRH C10-C36 (Total)	50	mg/kg	-	140	-	< 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
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	-	140	-	< 100
TRH >C34-C40	100	mg/kg	-	170	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	310	-	< 100
Polycyclic Aromatic Hydrocarbons						
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	-
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	-

Client Sample ID			TP106 0-0.1	TP107 0-0.1	TP108 0.2-0.3	TP116 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17703	S21-Ap17705	S21-Ap17708	S21-Ap17711
Date Sampled			Apr 12, 2021	Apr 12, 2021	Apr 12, 2021	Apr 12, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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	-
2-Fluorobiphenyl (surr.)	1	%	109	-	58	-
p-Terphenyl-d14 (surr.)	1	%	100	-	66	-
Heavy Metals						
Arsenic	2	mg/kg	7.1	-	4.6	-
Cadmium	0.4	mg/kg	< 0.4	-	< 0.4	-
Chromium	5	mg/kg	22	-	24	-
Copper	5	mg/kg	23	-	30	-
Lead	5	mg/kg	22	-	13	-
Mercury	0.1	mg/kg	< 0.1	-	< 0.1	-
Nickel	5	mg/kg	23	-	10	-
Zinc	5	mg/kg	65	-	42	-
% Moisture	1	%	20	20	26	16
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	0.1	mg/kg	< 0.1	-	-	< 0.1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-	< 0.05

Client Sample ID			TP106 0-0.1	TP107 0-0.1	TP108 0.2-0.3	TP116 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17703	S21-Ap17705	S21-Ap17708	S21-Ap17711
Date Sampled			Apr 12, 2021	Apr 12, 2021	Apr 12, 2021	Apr 12, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2	-	-	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2	-	-	< 0.2
Dibutylchlorendate (surr.)	1	%	86	-	-	124
Tetrachloro-m-xylene (surr.)	1	%	103	-	-	121
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	< 0.5	-	-	< 0.5
Aroclor-1221	0.1	mg/kg	< 0.1	-	-	< 0.1
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	-	-	124
Tetrachloro-m-xylene (surr.)	1	%	103	-	-	121
Acid Herbicides						
2.4-D	0.5	mg/kg	-	< 0.5	-	< 0.5
2.4-DB	0.5	mg/kg	-	< 0.5	-	< 0.5
2.4.5-T	0.5	mg/kg	-	< 0.5	-	< 0.5
2.4.5-TP	0.5	mg/kg	-	< 0.5	-	< 0.5
Actril (loxynil)	0.5	mg/kg	-	< 0.5	-	< 0.5
Dicamba	0.5	mg/kg	-	< 0.5	-	< 0.5
Dichlorprop	0.5	mg/kg	-	< 0.5	-	< 0.5
Dinitro-o-cresol	0.5	mg/kg	-	< 0.5	-	< 0.5
Dinoseb	0.5	mg/kg	-	< 0.5	-	< 0.5
MCPA	0.5	mg/kg	-	< 0.5	-	< 0.5
MCPB	0.5	mg/kg	-	< 0.5	-	< 0.5
Mecoprop	0.5	mg/kg	-	< 0.5	-	< 0.5
Warfarin (surr.)	1	%	-	65	-	62

Client Sample ID			TP117 0-0.1	TP118 0-0.1	TP119 0-0.1	TP120 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17714	S21-Ap17716	S21-Ap17718	S21-Ap17720
Date Sampled			Apr 12, 2021	Apr 12, 2021	Apr 12, 2021	Apr 12, 2021
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	54	< 50
TRH C29-C36	50	mg/kg	-	74	71	65
TRH C10-C36 (Total)	50	mg/kg	-	74	125	65
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	%	-	92	90	94

Client Sample ID			TP117 0-0.1	TP118 0-0.1	TP119 0-0.1	TP120 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17714	S21-Ap17716	S21-Ap17718	S21-Ap17720
Date Sampled			Apr 12, 2021	Apr 12, 2021	Apr 12, 2021	Apr 12, 2021
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	< 100	< 100
TRH >C34-C40	100	mg/kg	-	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	< 100	< 100
Polycyclic Aromatic Hydrocarbons						
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	-
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	-
2-Fluorobiphenyl (surr.)	1	%	92	-	93	-
p-Terphenyl-d14 (surr.)	1	%	105	-	111	-
Heavy Metals						
Arsenic	2	mg/kg	9.0	7.6	-	-
Cadmium	0.4	mg/kg	< 0.4	< 0.4	-	-
Chromium	5	mg/kg	21	15	-	-
Copper	5	mg/kg	18	16	-	-
Lead	5	mg/kg	30	20	-	-
Mercury	0.1	mg/kg	< 0.1	< 0.1	-	-
Nickel	5	mg/kg	12	13	-	-
Zinc	5	mg/kg	44	40	-	-
% Moisture	1	%	18	18	25	23
Acid Herbicides						
2.4-D	0.5	mg/kg	-	-	-	< 0.5
2.4-DB	0.5	mg/kg	-	-	-	< 0.5
2.4.5-T	0.5	mg/kg	-	-	-	< 0.5
2.4.5-TP	0.5	mg/kg	-	-	-	< 0.5
Actril (loxynil)	0.5	mg/kg	-	-	-	< 0.5
Dicamba	0.5	mg/kg	-	-	-	< 0.5

Client Sample ID			TP117 0-0.1	TP118 0-0.1	TP119 0-0.1	TP120 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17714	S21-Ap17716	S21-Ap17718	S21-Ap17720
Date Sampled			Apr 12, 2021	Apr 12, 2021	Apr 12, 2021	Apr 12, 2021
Test/Reference	LOR	Unit				
Acid Herbicides						
Dichlorprop	0.5	mg/kg	-	-	-	< 0.5
Dinitro-o-cresol	0.5	mg/kg	-	-	-	< 0.5
Dinoseb	0.5	mg/kg	-	-	-	< 0.5
MCPA	0.5	mg/kg	-	-	-	< 0.5
MCPB	0.5	mg/kg	-	-	-	< 0.5
Mecoprop	0.5	mg/kg	-	-	-	< 0.5
Warfarin (surr.)	1	%	-	-	-	61

Client Sample ID			TP101 0-0.1	TP102 0-0.1	TP104 0-0.1	TP115 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17726	S21-Ap17728	S21-Ap17732	S21-Ap17736
Date Sampled			Apr 12, 2021	Apr 12, 2021	Apr 12, 2021	Apr 12, 2021
Test/Reference	LOR	Unit				
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-C36 (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	%	-	87	80	-
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	-
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	< 100	-
Polycyclic Aromatic Hydrocarbons						
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
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

Client Sample ID			TP101 0-0.1	TP102 0-0.1	TP104 0-0.1	TP115 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17726	S21-Ap17728	S21-Ap17732	S21-Ap17736
Date Sampled			Apr 12, 2021	Apr 12, 2021	Apr 12, 2021	Apr 12, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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
2-Fluorobiphenyl (surr.)	1	%	85	88	-	84
p-Terphenyl-d14 (surr.)	1	%	106	108	-	99
Heavy Metals						
Arsenic	2	mg/kg	8.6	-	-	6.0
Cadmium	0.4	mg/kg	< 0.4	-	-	< 0.4
Chromium	5	mg/kg	20	-	-	16
Copper	5	mg/kg	33	-	-	27
Lead	5	mg/kg	23	-	-	21
Mercury	0.1	mg/kg	< 0.1	-	-	< 0.1
Nickel	5	mg/kg	17	-	-	20
Zinc	5	mg/kg	54	-	-	69
% Moisture	1	%	22	20	18	17

Client Sample ID			TP114 0-0.1	TP223 0-0.1	TP224 0-0.1	TP112 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17738	S21-Ap17742	S21-Ap17744	S21-Ap17746
Date Sampled			Apr 12, 2021	Apr 12, 2021	Apr 12, 2021	Apr 12, 2021
Test/Reference	LOR	Unit				
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	55	-	< 50	-
TRH C10-C36 (Total)	50	mg/kg	55	-	< 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	%	139	-	74	-
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	-

Client Sample ID			TP114 0-0.1	TP223 0-0.1	TP224 0-0.1	TP112 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17738	S21-Ap17742	S21-Ap17744	S21-Ap17746
Date Sampled			Apr 12, 2021	Apr 12, 2021	Apr 12, 2021	Apr 12, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C16-C34	100	mg/kg	< 100	-	< 100	-
TRH >C34-C40	100	mg/kg	< 100	-	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	< 100	-
Polycyclic Aromatic Hydrocarbons						
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
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
2-Fluorobiphenyl (surr.)	1	%	-	77	-	108
p-Terphenyl-d14 (surr.)	1	%	-	100	-	114
Heavy Metals						
Arsenic	2	mg/kg	7.9	< 2	-	6.6
Cadmium	0.4	mg/kg	< 0.4	< 0.4	-	< 0.4
Chromium	5	mg/kg	18	< 5	-	27
Copper	5	mg/kg	25	< 5	-	22
Lead	5	mg/kg	22	< 5	-	19
Mercury	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Nickel	5	mg/kg	13	< 5	-	13
Zinc	5	mg/kg	55	< 5	-	38
% Moisture	1	%	19	22	18	23

Client Sample ID			TP133 0-0.1	TP132 0-0.1	TP137 0-0.1	TP136 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17748	S21-Ap17750	S21-Ap17752	S21-Ap17754
Date Sampled			Apr 12, 2021	Apr 12, 2021	Apr 12, 2021	Apr 12, 2021
Test/Reference	LOR	Unit				
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-C36 (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	%	-	67	116	-
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	-
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	< 100	-
Polycyclic Aromatic Hydrocarbons						
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
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
2-Fluorobiphenyl (surr.)	1	%	94	-	99	97
p-Terphenyl-d14 (surr.)	1	%	102	-	115	106

Client Sample ID			TP133 0-0.1	TP132 0-0.1	TP137 0-0.1	TP136 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17748	S21-Ap17750	S21-Ap17752	S21-Ap17754
Date Sampled			Apr 12, 2021	Apr 12, 2021	Apr 12, 2021	Apr 12, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	12	8.2	-	12
Cadmium	0.4	mg/kg	< 0.4	< 0.4	-	< 0.4
Chromium	5	mg/kg	36	25	-	26
Copper	5	mg/kg	25	29	-	25
Lead	5	mg/kg	35	27	-	29
Mercury	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Nickel	5	mg/kg	17	16	-	15
Zinc	5	mg/kg	55	69	-	50
% Moisture	1	%	15	17	21	15
Acid Herbicides						
2.4-D	0.5	mg/kg	< 0.5	-	-	-
2.4-DB	0.5	mg/kg	< 0.5	-	-	-
2.4.5-T	0.5	mg/kg	< 0.5	-	-	-
2.4.5-TP	0.5	mg/kg	< 0.5	-	-	-
Actril (loxynil)	0.5	mg/kg	< 0.5	-	-	-
Dicamba	0.5	mg/kg	< 0.5	-	-	-
Dichlorprop	0.5	mg/kg	< 0.5	-	-	-
Dinitro-o-cresol	0.5	mg/kg	< 0.5	-	-	-
Dinoseb	0.5	mg/kg	< 0.5	-	-	-
MCPA	0.5	mg/kg	< 0.5	-	-	-
MCPB	0.5	mg/kg	< 0.5	-	-	-
Mecoprop	0.5	mg/kg	< 0.5	-	-	-
Warfarin (surr.)	1	%	65	-	-	-

Client Sample ID			TP135 0-0.1	TP157 0-0.1	TP156 0-0.1	BH298 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17756	S21-Ap17758	S21-Ap17760	S21-Ap17764
Date Sampled			Apr 12, 2021	Apr 12, 2021	Apr 12, 2021	Apr 12, 2021
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	< 50	-	-	-
TRH C29-C36	50	mg/kg	< 50	-	-	-
TRH C10-C36 (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	%	105	-	-	-

Client Sample ID			TP135 0-0.1	TP157 0-0.1	TP156 0-0.1	BH298 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17756	S21-Ap17758	S21-Ap17760	S21-Ap17764
Date Sampled			Apr 12, 2021	Apr 12, 2021	Apr 12, 2021	Apr 12, 2021
Test/Reference	LOR	Unit				
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	-	-	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	-	-
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	%	95	99	92	114
p-Terphenyl-d14 (surr.)	1	%	112	110	112	106
Heavy Metals						
Arsenic	2	mg/kg	7.1	18	12	-
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	-
Chromium	5	mg/kg	23	55	22	-
Copper	5	mg/kg	25	21	19	-
Lead	5	mg/kg	17	36	29	-
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Nickel	5	mg/kg	13	13	10	-
Zinc	5	mg/kg	38	50	31	-
% Moisture	1	%	17	13	17	18
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

Client Sample ID			TP135 0-0.1	TP157 0-0.1	TP156 0-0.1	BH298 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17756	S21-Ap17758	S21-Ap17760	S21-Ap17764
Date Sampled			Apr 12, 2021	Apr 12, 2021	Apr 12, 2021	Apr 12, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
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	0.1	mg/kg	-	-	-	< 0.1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	-	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	-	< 0.2
Dibutylchlorendate (surr.)	1	%	-	-	-	138
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	130
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1221	0.1	mg/kg	-	-	-	< 0.1
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	%	-	-	-	138
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	130
Acid Herbicides						
2.4-D	0.5	mg/kg	-	< 0.5	-	< 0.5
2.4-DB	0.5	mg/kg	-	< 0.5	-	< 0.5
2.4.5-T	0.5	mg/kg	-	< 0.5	-	< 0.5
2.4.5-TP	0.5	mg/kg	-	< 0.5	-	< 0.5
Actril (loxynil)	0.5	mg/kg	-	< 0.5	-	< 0.5
Dicamba	0.5	mg/kg	-	< 0.5	-	< 0.5
Dichlorprop	0.5	mg/kg	-	< 0.5	-	< 0.5
Dinitro-o-cresol	0.5	mg/kg	-	< 0.5	-	< 0.5
Dinoseb	0.5	mg/kg	-	< 0.5	-	< 0.5
MCPA	0.5	mg/kg	-	< 0.5	-	< 0.5
MCPB	0.5	mg/kg	-	< 0.5	-	< 0.5
Mecoprop	0.5	mg/kg	-	< 0.5	-	< 0.5
Warfarin (surr.)	1	%	-	58	-	59

Client Sample ID			BH431 0-0.2	QC04-SOIL	QC02-SOIL	BH297 0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17767	S21-Ap17769	S21-Ap17770	S21-Ap17772
Date Sampled			Apr 12, 2021	Apr 12, 2021	Apr 12, 2021	Apr 12, 2021
Test/Reference	LOR	Unit				
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-C36 (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	%	102	112	-	-
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	-	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	-	-
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	%	100	97	129	115
p-Terphenyl-d14 (surr.)	1	%	109	106	104	120

Client Sample ID			BH431 0-0.2	QC04-SOIL	QC02-SOIL	BH297 0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17767	S21-Ap17769	S21-Ap17770	S21-Ap17772
Date Sampled			Apr 12, 2021	Apr 12, 2021	Apr 12, 2021	Apr 12, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	6.9	10	-	5.8
Cadmium	0.4	mg/kg	< 0.4	< 0.4	-	< 0.4
Chromium	5	mg/kg	22	28	-	20
Copper	5	mg/kg	17	21	-	19
Lead	5	mg/kg	24	34	-	15
Mercury	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Nickel	5	mg/kg	12	14	-	7.3
Zinc	5	mg/kg	38	48	-	31
% Moisture	1	%	16	14	22	20
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	0.1	mg/kg	-	-	< 0.1	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	< 0.2	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	< 0.2	-
Dibutylchlorendate (surr.)	1	%	-	-	INT	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	119	-
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1221	0.1	mg/kg	-	-	< 0.1	-
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	%	-	-	INT	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	119	-

Client Sample ID			BH431 0-0.2	QC04-SOIL	QC02-SOIL	BH297 0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap17767	S21-Ap17769	S21-Ap17770	S21-Ap17772
Date Sampled			Apr 12, 2021	Apr 12, 2021	Apr 12, 2021	Apr 12, 2021
Test/Reference	LOR	Unit				
Acid Herbicides						
2.4-D	0.5	mg/kg	-	-	< 0.5	-
2.4-DB	0.5	mg/kg	-	-	< 0.5	-
2.4.5-T	0.5	mg/kg	-	-	< 0.5	-
2.4.5-TP	0.5	mg/kg	-	-	< 0.5	-
Actril (loxynil)	0.5	mg/kg	-	-	< 0.5	-
Dicamba	0.5	mg/kg	-	-	< 0.5	-
Dichlorprop	0.5	mg/kg	-	-	< 0.5	-
Dinitro-o-cresol	0.5	mg/kg	-	-	< 0.5	-
Dinoseb	0.5	mg/kg	-	-	< 0.5	-
MCPA	0.5	mg/kg	-	-	< 0.5	-
MCPB	0.5	mg/kg	-	-	< 0.5	-
Mecoprop	0.5	mg/kg	-	-	< 0.5	-
Warfarin (surr.)	1	%	-	-	60	-

Client Sample ID			TP216 0.4-0.5	QC01-SOIL
Sample Matrix			Soil	Soil
Eurofins Sample No.			S21-Ap17776	S21-Ap17780
Date Sampled			Apr 12, 2021	Apr 12, 2021
Test/Reference	LOR	Unit		
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-C36 (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	%	89	98
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
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100
Polycyclic Aromatic Hydrocarbons				
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
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5

Client Sample ID			TP216 0.4-0.5	QC01-SOIL
Sample Matrix			Soil	Soil
Eurofins Sample No.			S21-Ap17776	S21-Ap17780
Date Sampled			Apr 12, 2021	Apr 12, 2021
Test/Reference	LOR	Unit		
Polycyclic Aromatic Hydrocarbons				
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
2-Fluorobiphenyl (surr.)	1	%	108	109
p-Terphenyl-d14 (surr.)	1	%	106	96
Heavy Metals				
Arsenic	2	mg/kg	12	5.3
Cadmium	0.4	mg/kg	< 0.4	< 0.4
Chromium	5	mg/kg	23	17
Copper	5	mg/kg	22	21
Lead	5	mg/kg	34	17
Mercury	0.1	mg/kg	< 0.1	< 0.1
Nickel	5	mg/kg	9.7	9.6
Zinc	5	mg/kg	77	40
% Moisture	1	%	16	25
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

Client Sample ID			TP216 0.4-0.5	QC01-SOIL
Sample Matrix			Soil	Soil
Eurofins Sample No.			S21-Ap17776	S21-Ap17780
Date Sampled			Apr 12, 2021	Apr 12, 2021
Test/Reference	LOR	Unit		
Organochlorine Pesticides				
Toxaphene	0.1	mg/kg	< 0.1	< 0.1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2	< 0.2
Dibutylchlorendate (surr.)	1	%	145	INT
Tetrachloro-m-xylene (surr.)	1	%	103	122
Polychlorinated Biphenyls				
Aroclor-1016	0.5	mg/kg	< 0.5	< 0.5
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1
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	%	145	INT
Tetrachloro-m-xylene (surr.)	1	%	103	122
Perfluoroalkyl carboxylic acids (PFCAs)				
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	< 5	-
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	< 5	-
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	< 5	-
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	< 5	-
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	-
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	< 5	-
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	< 5	-
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	< 5	-
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	< 5	-
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	< 5	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	< 5	-
13C4-PFBA (surr.)	1	%	131	-
13C5-PFPeA (surr.)	1	%	139	-
13C5-PFHxA (surr.)	1	%	135	-
13C4-PFHpA (surr.)	1	%	138	-
13C8-PFOA (surr.)	1	%	139	-
13C5-PFNA (surr.)	1	%	124	-
13C6-PFDA (surr.)	1	%	117	-
13C2-PFUnDA (surr.)	1	%	112	-
13C2-PFDoDA (surr.)	1	%	93	-
13C2-PFTeDA (surr.)	1	%	105	-
Perfluoroalkyl sulfonamido substances				
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	< 5	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	< 5	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	< 5	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)[N11]	5	ug/kg	< 5	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)[N11]	5	ug/kg	< 5	-

Client Sample ID			TP216 0.4-0.5	QC01-SOIL
Sample Matrix			Soil	Soil
Eurofins Sample No.			S21-Ap17776	S21-Ap17780
Date Sampled			Apr 12, 2021	Apr 12, 2021
Test/Reference	LOR	Unit		
Perfluoroalkyl sulfonamido substances				
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	< 10	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	< 10	-
13C8-FOSA (surr.)	1	%	121	-
D3-N-MeFOSA (surr.)	1	%	114	-
D5-N-EtFOSA (surr.)	1	%	121	-
D7-N-MeFOSE (surr.)	1	%	112	-
D9-N-EtFOSE (surr.)	1	%	109	-
D5-N-EtFOSAA (surr.)	1	%	103	-
D3-N-MeFOSAA (surr.)	1	%	104	-
Perfluoroalkyl sulfonic acids (PFSAs)				
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5	-
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	< 5	-
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5	-
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	< 5	-
13C3-PFBS (surr.)	1	%	149	-
18O2-PFHxS (surr.)	1	%	140	-
13C8-PFOS (surr.)	1	%	133	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5	-
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)[N11]	10	ug/kg	< 10	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5	-
13C2-4:2 FTS (surr.)	1	%	126	-
13C2-6:2 FTSA (surr.)	1	%	135	-
13C2-8:2 FTSA (surr.)	1	%	114	-
13C2-10:2 FTSA (surr.)	1	%	108	-
PFASs Summations				
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	-
Sum of PFASs (n=30)*	50	ug/kg	< 50	-

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
Eurofins Suite B6			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Apr 21, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Apr 21, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Apr 21, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Apr 21, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Metals M8	Sydney	Apr 21, 2021	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Eurofins Suite B4			
Polycyclic Aromatic Hydrocarbons	Sydney	Apr 21, 2021	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
% Moisture	Sydney	Apr 13, 2021	14 Days
- Method: LTM-GEN-7080 Moisture			
pH (1:5 Aqueous extract at 25°C as rec.)	Sydney	Apr 18, 2021	7 Days
- Method: LTM-GEN-7090 pH in soil by ISE			
Acid Herbicides	Melbourne	Apr 20, 2021	14 Days
- Method: LTM-ORG-2180 Phenoxy Acid Herbicides			
Organochlorine Pesticides	Sydney	Apr 21, 2021	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Polychlorinated Biphenyls	Sydney	Apr 21, 2021	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Brisbane	Apr 19, 2021	14 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Brisbane	Apr 19, 2021	14 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Brisbane	Apr 19, 2021	14 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Brisbane	Apr 19, 2021	180 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786622
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:39 PM
Due: Apr 20, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B4	Eurofins Suite B6	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																			X
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory																			
External Laboratory																			
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**														
1	QC03-SOIL	Apr 12, 2021		Soil	S21-Ap17645									X	X				
2	TP10-0-0.1	Apr 12, 2021		Soil	S21-Ap17646		X												
3	TP10-0.5-0.6	Apr 12, 2021		Soil	S21-Ap17647			X											
4	BH206-0-0.1	Apr 12, 2021		Soil	S21-Ap17648			X											
5	BH206-0.4-0.5	Apr 12, 2021		Soil	S21-Ap17649					X		X		X					
6	BH207-0-0.1	Apr 12, 2021		Soil	S21-Ap17650			X											
7	BH207-0.4-0.5	Apr 12, 2021		Soil	S21-Ap17651				X					X					
8	BH208-0-0.1	Apr 12, 2021		Soil	S21-Ap17652			X											
9	BH208-0.3-0.4	Apr 12, 2021		Soil	S21-Ap17653			X											

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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	**Order No.:**	**Received:** Apr 12, 2021 6:39 PM
Address:	Level 1, 50 Margaret St Sydney NSW 2000	**Report #:** 786622 **Phone:** 02 8245 0300 **Fax:**	**Due:** Apr 20, 2021 **Priority:** 5 Day **Contact Name:** Ryan Lill
Project Name:	KEMPS CREEK DSI		
Project ID:	60482		

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B4	Eurofins Suite B6	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																			X
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory																			
External Laboratory																			
10	BH209-0-0.1	Apr 12, 2021		Soil	S21-Ap17654									X				X	
11	BH209-0.3-0.4	Apr 12, 2021		Soil	S21-Ap17655			X											
12	BH210-0-0.1	Apr 12, 2021		Soil	S21-Ap17656								X	X		X			
13	BH210-0.4-0.5	Apr 12, 2021		Soil	S21-Ap17657			X											
14	BH217-0-0.1	Apr 12, 2021		Soil	S21-Ap17658						X			X					
15	BH217-0.3-0.4	Apr 12, 2021		Soil	S21-Ap17659			X											
16	BH218-0-0.2	Apr 12, 2021		Soil	S21-Ap17660					X		X		X					
17	BH218-0.4-0.5	Apr 12, 2021		Soil	S21-Ap17661			X											
18	BH111-0-0.1	Apr 12, 2021		Soil	S21-Ap17662					X				X					
19	BH111-0.3-0.4	Apr 12, 2021		Soil	S21-Ap17663			X											
20	BH203-0-0.2	Apr 12, 2021		Soil	S21-Ap17664		X												

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
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Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
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Rolleston, Christchurch 7675
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Order No.:
Report #: 786622
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:39 PM
Due: Apr 20, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B4	Eurofins Suite B6	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																			X
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory																			
External Laboratory																			
21	BH267-0-0.1	Apr 12, 2021		Soil	S21-Ap17665					X		X		X					
22	BH267-0.5-0.6	Apr 12, 2021		Soil	S21-Ap17666			X											
23	BH228-0-0.1	Apr 12, 2021		Soil	S21-Ap17667								X	X		X			
24	BH228-0.4-0.5	Apr 12, 2021		Soil	S21-Ap17668			X											
25	BH228-0.6-0.7	Apr 12, 2021		Soil	S21-Ap17669			X											
26	BH268-0-0.1	Apr 12, 2021		Soil	S21-Ap17670					X		X		X					
27	BH268-0.4-0.5	Apr 12, 2021		Soil	S21-Ap17671			X											
28	BH229-0-0.1	Apr 12, 2021		Soil	S21-Ap17672									X				X	
29	BH229-0.4-0.5	Apr 12, 2021		Soil	S21-Ap17673			X											
30	BH230-0-0.1	Apr 12, 2021		Soil	S21-Ap17674									X			X		
31	BH230-0.4-0.5	Apr 12, 2021		Soil	S21-Ap17675			X											

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
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35 O'Rorke Road
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IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

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Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786622
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:39 PM
Due: Apr 20, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B4	Eurofins Suite B6	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																			X
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory																			
External Laboratory																			
32	BH269-0-0.1	Apr 12, 2021		Soil	S21-Ap17676			X											
33	BH269-0.4-0.5	Apr 12, 2021		Soil	S21-Ap17677					X		X		X					
34	BH231-0-0.1	Apr 12, 2021		Soil	S21-Ap17678			X											
35	BH231-0.4-0.5	Apr 12, 2021		Soil	S21-Ap17679			X											
36	BH270-0-0.1	Apr 12, 2021		Soil	S21-Ap17680								X	X				X	
37	BH270-0.4-0.5	Apr 12, 2021		Soil	S21-Ap17681			X											
38	BH300-0-0.1	Apr 12, 2021		Soil	S21-Ap17682					X		X		X					
39	BH300-0.4-0.5	Apr 12, 2021		Soil	S21-Ap17683			X											
40	BH203-0.4-0.5	Apr 12, 2021		Soil	S21-Ap17684			X											
41	BH202-0-0.1	Apr 12, 2021		Soil	S21-Ap17685		X												
42	BH202-0.3-0.4	Apr 12, 2021		Soil	S21-Ap17686			X											

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Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
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Brisbane
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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																			X
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory																			
External Laboratory																			
43	BH422-0-0.1	Apr 12, 2021		Soil	S21-Ap17687	X													
44	BH422-0.4-0.5	Apr 12, 2021		Soil	S21-Ap17688			X											
45	BH423-0-0.1	Apr 12, 2021		Soil	S21-Ap17689	X				X		X		X					
46	BH423-0.4-0.5	Apr 12, 2021		Soil	S21-Ap17690			X											
47	BH424-0-0.1	Apr 12, 2021		Soil	S21-Ap17691	X													
48	BH424-0.4-0.5	Apr 12, 2021		Soil	S21-Ap17692			X											
49	BH425-0-0.2	Apr 12, 2021		Soil	S21-Ap17693	X													
50	BH425-0.4-0.5	Apr 12, 2021		Soil	S21-Ap17694			X											
51	BH426-0-0.1	Apr 12, 2021		Soil	S21-Ap17695	X				X		X		X					
52	BH426-0.3-0.4	Apr 12, 2021		Soil	S21-Ap17696			X											
53	BH427-0-0.2	Apr 12, 2021		Soil	S21-Ap17697	X													

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Australia

Melbourne
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4/52 Industrial Drive
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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																			X
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory																			
External Laboratory																			
54	BH427-0.3-0.4	Apr 12, 2021		Soil	S21-Ap17698									X			X		
55	BH428-0-0.15	Apr 12, 2021		Soil	S21-Ap17699	X													
56	BH428-0.3-0.4	Apr 12, 2021		Soil	S21-Ap17700					X		X		X					
57	BH429-0-0.2	Apr 12, 2021		Soil	S21-Ap17701	X													
58	BH429-0.3-0.4	Apr 12, 2021		Soil	S21-Ap17702			X											
59	TP106 0-0.1	Apr 12, 2021		Soil	S21-Ap17703					X		X	X	X					
60	TP106 0.5-0.6	Apr 12, 2021		Soil	S21-Ap17704			X											
61	TP107 0-0.1	Apr 12, 2021		Soil	S21-Ap17705						X			X		X			
62	TP107 0.2-0.3	Apr 12, 2021		Soil	S21-Ap17706			X											
63	TP108 0-0.1	Apr 12, 2021		Soil	S21-Ap17707			X											
64	TP108 0.2-0.3	Apr 12, 2021		Soil	S21-Ap17708					X		X		X					

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																			X
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory																			
External Laboratory																			
65	TP109 0-0.1	Apr 12, 2021		Soil	S21-Ap17709			X											
66	TP109 0.3-0.4	Apr 12, 2021		Soil	S21-Ap17710			X											
67	TP116 0-0.1	Apr 12, 2021		Soil	S21-Ap17711						X		X	X		X			
68	TP116 1-2	Apr 12, 2021		Soil	S21-Ap17712			X											
69	TP116 2-3	Apr 12, 2021		Soil	S21-Ap17713			X											
70	TP117 0-0.1	Apr 12, 2021		Soil	S21-Ap17714					X		X		X					
71	TP117 0.3-0.4	Apr 12, 2021		Soil	S21-Ap17715			X											
72	TP118 0-0.1	Apr 12, 2021		Soil	S21-Ap17716									X				X	
73	TP118 0.4-0.5	Apr 12, 2021		Soil	S21-Ap17717			X											
74	TP119 0-0.1	Apr 12, 2021		Soil	S21-Ap17718									X			X		
75	TP119 0.2-0.3	Apr 12, 2021		Soil	S21-Ap17719			X											

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Australia

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Perth
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Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
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Phone : +61 2 4968 8448

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Auckland
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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																			X
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory																			
External Laboratory																			
76	TP120 0-0.1	Apr 12, 2021		Soil	S21-Ap17720						X			X		X			
77	TP120 0.2-0.3	Apr 12, 2021		Soil	S21-Ap17721			X											
78	TP134 0-0.1	Apr 12, 2021		Soil	S21-Ap17722			X											
79	TP134 0.2-0.3	Apr 12, 2021		Soil	S21-Ap17723			X											
80	TP100 0-0.1	Apr 12, 2021		Soil	S21-Ap17724			X											
81	TP100 0.3-0.4	Apr 12, 2021		Soil	S21-Ap17725			X											
82	TP101 0-0.1	Apr 12, 2021		Soil	S21-Ap17726					X		X		X					
83	TP101 0.2-0.3	Apr 12, 2021		Soil	S21-Ap17727			X											
84	TP102 0-0.1	Apr 12, 2021		Soil	S21-Ap17728									X			X		
85	TP102 0.3-0.4	Apr 12, 2021		Soil	S21-Ap17729			X											
86	TP103 0-0.1	Apr 12, 2021		Soil	S21-Ap17730			X											

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Australia

Melbourne
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Site # 1254 & 14271

Sydney
Unit F3, Building F
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Site # 23736

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																			X
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory																			
External Laboratory																			
87	TP103 0.3-0.4	Apr 12, 2021		Soil	S21-Ap17731			X											
88	TP104 0-0.1	Apr 12, 2021		Soil	S21-Ap17732									X		X			
89	TP104 0.4-0.45	Apr 12, 2021		Soil	S21-Ap17733			X											
90	TP105 0-0.1	Apr 12, 2021		Soil	S21-Ap17734			X											
91	TP105 0.3-0.4	Apr 12, 2021		Soil	S21-Ap17735			X											
92	TP115 0-0.1	Apr 12, 2021		Soil	S21-Ap17736					X		X		X					
93	TP115 0.3-0.4	Apr 12, 2021		Soil	S21-Ap17737			X											
94	TP114 0-0.1	Apr 12, 2021		Soil	S21-Ap17738									X				X	
95	TP114 0.3-0.4	Apr 12, 2021		Soil	S21-Ap17739			X											
96	TP113 0-0.1	Apr 12, 2021		Soil	S21-Ap17740			X											

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																			X
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory																			
External Laboratory																			
97	TP113 0.4-0.5	Apr 12, 2021		Soil	S21-Ap17741			X											
98	TP223 0-0.1	Apr 12, 2021		Soil	S21-Ap17742					X		X		X					
99	TP223 0.4-0.5	Apr 12, 2021		Soil	S21-Ap17743			X											
100	TP224 0-0.1	Apr 12, 2021		Soil	S21-Ap17744									X		X			
101	TP224 0.2-0.3	Apr 12, 2021		Soil	S21-Ap17745			X											
102	TP112 0-0.1	Apr 12, 2021		Soil	S21-Ap17746	X				X		X		X					
103	TP112 0.3-0.4	Apr 12, 2021		Soil	S21-Ap17747			X											
104	TP133 0-0.1	Apr 12, 2021		Soil	S21-Ap17748					X	X	X		X					
105	TP133 0.2-0.3	Apr 12, 2021		Soil	S21-Ap17749			X											
106	TP132 0-0.1	Apr 12, 2021		Soil	S21-Ap17750									X				X	
107	TP132 0.2-0.3	Apr 12, 2021		Soil	S21-Ap17751			X											

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																			X
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory																			
External Laboratory																			
108	TP137 0-0.1	Apr 12, 2021		Soil	S21-Ap17752									X			X		
109	TP137 0.2-0.3	Apr 12, 2021		Soil	S21-Ap17753			X											
110	TP136 0-0.1	Apr 12, 2021		Soil	S21-Ap17754					X		X		X					
111	TP136 0.4-0.5	Apr 12, 2021		Soil	S21-Ap17755			X											
112	TP135 0-0.1	Apr 12, 2021		Soil	S21-Ap17756									X	X				
113	TP135 0.3-0.4	Apr 12, 2021		Soil	S21-Ap17757			X											
114	TP157 0-0.1	Apr 12, 2021		Soil	S21-Ap17758					X	X	X		X					
115	TP157 0.3-0.4	Apr 12, 2021		Soil	S21-Ap17759			X											
116	TP156 0-0.1	Apr 12, 2021		Soil	S21-Ap17760					X		X		X					
117	TP156 0.4-0.5	Apr 12, 2021		Soil	S21-Ap17761			X											
118	BH301 0-0.1	Apr 12, 2021		Soil	S21-Ap17762			X											

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 786622
Phone: 02 8245 0300
Fax:

Received: Apr 12, 2021 6:39 PM
Due: Apr 20, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Suite B13: OCP/PCB	Moisture Set	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B4	Eurofins Suite B6	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																			X
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory																			
External Laboratory																			
119	BH301 0.4-0.5	Apr 12, 2021		Soil	S21-Ap17763			X											
120	BH298 0-0.1	Apr 12, 2021		Soil	S21-Ap17764					X	X		X	X					
121	BH298 0.4-0.5	Apr 12, 2021		Soil	S21-Ap17765			X											
122	BH430 0-0.2	Apr 12, 2021		Soil	S21-Ap17766	X													
123	BH431 0-0.2	Apr 12, 2021		Soil	S21-Ap17767									X	X				
124	BH431 0.3-0.4	Apr 12, 2021		Soil	S21-Ap17768			X											
125	QC04-SOIL	Apr 12, 2021		Soil	S21-Ap17769	X								X	X				
126	QC02-SOIL	Apr 12, 2021		Soil	S21-Ap17770					X	X		X	X					
127	BH297 0-0.1	Apr 12, 2021		Soil	S21-Ap17771			X											
128	BH297 0.4-0.5	Apr 12, 2021		Soil	S21-Ap17772					X		X		X					
129	TP121 0-0.1	Apr 12, 2021		Soil	S21-Ap17773			X											

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																			X
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory																			
External Laboratory																			
130	TP121 0.2-0.3	Apr 12, 2021		Soil	S21-Ap17774			X											
131	TP216 0-0.1	Apr 12, 2021		Soil	S21-Ap17775			X											
132	TP216 0.4-0.5	Apr 12, 2021		Soil	S21-Ap17776								X	X	X				X
133	TP216 0.3-0.4	Apr 12, 2021		Soil	S21-Ap17777			X											
134	TP216 0.9-1	Apr 12, 2021		Soil	S21-Ap17778			X											
135	TP216 1.2-1.3	Apr 12, 2021		Soil	S21-Ap17779			X											
136	QC01-SOIL	Apr 12, 2021		Soil	S21-Ap17780								X	X	X				
137	TRIP SPIKE	Apr 12, 2021		Water	S21-Ap17781		X												
138	TRIP BLANK	Apr 12, 2021		Water	S21-Ap17782		X												
139	TP110_0.0-0.1	Apr 12, 2021		Water	S21-Ap20707			X											
140	BH299 0.0-0.1	Apr 12, 2021		Water	S21-Ap20708			X											

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Melbourne Laboratory - NATA Site # 1254 & 14271											X								
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																			X
Perth Laboratory - NATA Site # 23736																			
Mayfield Laboratory																			
External Laboratory																			
141	TP225 0.0-0.1	Apr 12, 2021		Water	S21-Ap20709			X											
142	TP110_0.5-0.6	Apr 12, 2021		Water	S21-Ap20742			X											
143	TP110_0.0-0.1	Apr 12, 2021		Water	S21-Ap20743			X											
144	TP225 0.3-0.4	Apr 12, 2021		Water	S21-Ap20744			X											
145	TP225 0.0-0.1	Apr 12, 2021		Water	S21-Ap20745			X											
146	BH299 0.4-0.5	Apr 12, 2021		Water	S21-Ap20746			X											
Test Counts						11	8	91	1	24	8	21	9	50	6	7	10	6	1

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.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
ug/L: micrograms per litre
ppm: Parts per million
ppb: Parts per billion
%: Percentage
org/100mL: Organisms per 100 millilitres
NTU: Nephelometric Turbidity Units
MPN/100mL: Most Probable Number of organisms per 100 millilitres

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 and 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.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
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 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

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, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene 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 Aroclor 1260 in Matrix Spikes and LCS.
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 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 - 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 >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	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
Method Blank							
Acid Herbicides							
2.4-D	mg/kg	< 0.5			0.5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
2.4-DB	mg/kg	< 0.5			0.5	Pass	
2.4.5-T	mg/kg	< 0.5			0.5	Pass	
2.4.5-TP	mg/kg	< 0.5			0.5	Pass	
Actril (loxynil)	mg/kg	< 0.5			0.5	Pass	
Dicamba	mg/kg	< 0.5			0.5	Pass	
Dichlorprop	mg/kg	< 0.5			0.5	Pass	
Dinitro-o-cresol	mg/kg	< 0.5			0.5	Pass	
Dinoseb	mg/kg	< 0.5			0.5	Pass	
MCPA	mg/kg	< 0.5			0.5	Pass	
MCPB	mg/kg	< 0.5			0.5	Pass	
Mecoprop	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/kg	< 5			5	Pass	
Perfluoropentanoic acid (PFPeA)	ug/kg	< 5			5	Pass	
Perfluorohexanoic acid (PFHxA)	ug/kg	< 5			5	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/kg	< 5			5	Pass	
Perfluorooctanoic acid (PFOA)	ug/kg	< 5			5	Pass	
Perfluorononanoic acid (PFNA)	ug/kg	< 5			5	Pass	
Perfluorodecanoic acid (PFDA)	ug/kg	< 5			5	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/kg	< 5			5	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/kg	< 5			5	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/kg	< 5			5	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/kg	< 5			5	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/kg	< 5			5	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/kg	< 5			5	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/kg	< 5			5	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	ug/kg	< 5			5	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	ug/kg	< 5			5	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	< 10			10	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	< 10			10	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	ug/kg	< 5			5	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/kg	< 5			5	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/kg	< 5			5	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/kg	< 5			5	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	< 5			5	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/kg	< 5			5	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/kg	< 5			5	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/kg	< 5			5	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	ug/kg	< 10			10	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	80			70-130	Pass	
TRH C10-C14	%	71			70-130	Pass	
LCS - % Recovery							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
BTEX							
Benzene	%	90			70-130	Pass	
Toluene	%	87			70-130	Pass	
Ethylbenzene	%	84			70-130	Pass	
m&p-Xylenes	%	85			70-130	Pass	
o-Xylene	%	84			70-130	Pass	
Xylenes - Total*	%	85			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	123			70-130	Pass	
TRH C6-C10	%	79			70-130	Pass	
TRH >C10-C16	%	75			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	90			70-130	Pass	
Acenaphthylene	%	95			70-130	Pass	
Anthracene	%	97			70-130	Pass	
Benz(a)anthracene	%	92			70-130	Pass	
Benzo(a)pyrene	%	99			70-130	Pass	
Benzo(b&j)fluoranthene	%	100			70-130	Pass	
Benzo(g.h.i)perylene	%	95			70-130	Pass	
Benzo(k)fluoranthene	%	95			70-130	Pass	
Chrysene	%	105			70-130	Pass	
Dibenz(a.h)anthracene	%	90			70-130	Pass	
Fluoranthene	%	104			70-130	Pass	
Fluorene	%	97			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	85			70-130	Pass	
Naphthalene	%	97			70-130	Pass	
Phenanthrene	%	99			70-130	Pass	
Pyrene	%	106			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	85			80-120	Pass	
Cadmium	%	94			80-120	Pass	
Chromium	%	102			80-120	Pass	
Copper	%	106			80-120	Pass	
Lead	%	107			80-120	Pass	
Mercury	%	107			80-120	Pass	
Nickel	%	106			80-120	Pass	
Zinc	%	104			80-120	Pass	
LCS - % Recovery							
Acid Herbicides							
2.4-D	%	72			70-130	Pass	
2.4-DB	%	76			70-130	Pass	
2.4.5-T	%	84			70-130	Pass	
2.4.5-TP	%	84			70-130	Pass	
Actril (loxynil)	%	87			70-130	Pass	
Dicamba	%	95			70-130	Pass	
Dichlorprop	%	79			70-130	Pass	
Dinitro-o-cresol	%	87			70-130	Pass	
Dinoseb	%	89			70-130	Pass	
MCPA	%	84			70-130	Pass	
MCPB	%	76			70-130	Pass	
Mecoprop	%	80			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	106			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	108			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	115			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	82			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	94			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	98			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	94			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	98			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	104			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	114			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	109			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	94			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	114			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	107			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	%	106			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	%	110			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	76			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	98			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	102			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	117			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	97			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	99			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	104			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	108			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	100			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	96			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	104			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	%	118			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	98			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	93			50-150	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 C10-C14	S21-Ap18188	NCP	%	76			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH >C10-C16	S21-Ap18188	NCP	%	78			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S21-Ap17665	CP	%	77			75-125	Pass	
Cadmium	S21-Ap17665	CP	%	100			75-125	Pass	
Chromium	S21-Ap17665	CP	%	112			75-125	Pass	
Copper	S21-Ap17665	CP	%	112			75-125	Pass	
Lead	S21-Ap17665	CP	%	101			75-125	Pass	
Mercury	S21-Ap17665	CP	%	111			75-125	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Nickel	S21-Ap17665	CP	%	114			75-125	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S21-Ap17667	CP	%	117			70-130	Pass	
4.4'-DDD	S21-Ap17667	CP	%	112			70-130	Pass	
4.4'-DDE	S21-Ap17667	CP	%	120			70-130	Pass	
a-BHC	S21-Ap17667	CP	%	106			70-130	Pass	
Aldrin	S21-Ap17667	CP	%	104			70-130	Pass	
b-BHC	S21-Ap17667	CP	%	109			70-130	Pass	
d-BHC	S21-Ap17667	CP	%	100			70-130	Pass	
Dieldrin	S21-Ap17667	CP	%	120			70-130	Pass	
Endosulfan I	S21-Ap17667	CP	%	115			70-130	Pass	
Endosulfan II	S21-Ap17667	CP	%	110			70-130	Pass	
Endosulfan sulphate	S21-Ap17667	CP	%	111			70-130	Pass	
Endrin aldehyde	S21-Ap17667	CP	%	93			70-130	Pass	
Endrin ketone	S21-Ap17667	CP	%	102			70-130	Pass	
g-BHC (Lindane)	S21-Ap17667	CP	%	114			70-130	Pass	
Heptachlor epoxide	S21-Ap17667	CP	%	110			70-130	Pass	
Hexachlorobenzene	S21-Ap17667	CP	%	116			70-130	Pass	
Methoxychlor	S21-Ap17667	CP	%	130			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S21-Ap17672	CP	%	89			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S21-Ap17672	CP	%	86			70-130	Pass	
Toluene	S21-Ap17672	CP	%	91			70-130	Pass	
Ethylbenzene	S21-Ap17672	CP	%	93			70-130	Pass	
m&p-Xylenes	S21-Ap17672	CP	%	93			70-130	Pass	
o-Xylene	S21-Ap17672	CP	%	91			70-130	Pass	
Xylenes - Total*	S21-Ap17672	CP	%	92			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S21-Ap17672	CP	%	81			70-130	Pass	
TRH C6-C10	S21-Ap17672	CP	%	88			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S21-Ap17754	CP	%	85			75-125	Pass	
Cadmium	S21-Ap17754	CP	%	109			75-125	Pass	
Chromium	S21-Ap17754	CP	%	104			75-125	Pass	
Copper	S21-Ap17754	CP	%	92			75-125	Pass	
Lead	S21-Ap17754	CP	%	112			75-125	Pass	
Mercury	S21-Ap17754	CP	%	104			75-125	Pass	
Nickel	S21-Ap17754	CP	%	95			75-125	Pass	
Zinc	S21-Ap17754	CP	%	98			75-125	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	B21-Ap28701	NCP	%	96			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	B21-Ap28701	NCP	%	83			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	B21-Ap28701	NCP	%	93			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	B21-Ap28701	NCP	%	73			50-150	Pass	
Perfluorooctanoic acid (PFOA)	B21-Ap28701	NCP	%	94			50-150	Pass	
Perfluorononanoic acid (PFNA)	B21-Ap28701	NCP	%	97			50-150	Pass	
Perfluorodecanoic acid (PFDA)	B21-Ap28701	NCP	%	89			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluoroundecanoic acid (PFUnDA)	B21-Ap28701	NCP	%	86			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	B21-Ap28701	NCP	%	88			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	B21-Ap28701	NCP	%	102			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	B21-Ap28701	NCP	%	93			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	B21-Ap28701	NCP	%	93			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	B21-Ap28701	NCP	%	99			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	B21-Ap28701	NCP	%	86			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	B21-Ap28701	NCP	%	91			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	B21-Ap28701	NCP	%	89			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	B21-Ap28701	NCP	%	69			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	B21-Ap28701	NCP	%	90			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	B21-Ap28701	NCP	%	81			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	B21-Ap28701	NCP	%	123			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	B21-Ap28701	NCP	%	75			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	B21-Ap28701	NCP	%	81			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	B21-Ap28701	NCP	%	75			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	B21-Ap28701	NCP	%	85			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	B21-Ap28701	NCP	%	99			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	B21-Ap28701	NCP	%	87			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	B21-Ap28701	NCP	%	85			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	B21-Ap28701	NCP	%	97			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	B21-Ap28701	NCP	%	111			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	B21-Ap28701	NCP	%	100			50-150	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S21-Ap17780	CP	%	82			75-125	Pass	
Cadmium	S21-Ap17780	CP	%	82			75-125	Pass	
Chromium	S21-Ap17780	CP	%	82			75-125	Pass	
Copper	S21-Ap17780	CP	%	76			75-125	Pass	
Lead	S21-Ap17780	CP	%	94			75-125	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Mercury	S21-Ap17780	CP	%	82			75-125	Pass	
Nickel	S21-Ap17780	CP	%	77			75-125	Pass	
Zinc	S21-Ap17780	CP	%	95			75-125	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	S21-Ap17649	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S21-Ap17649	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S21-Ap17649	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S21-Ap17649	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S21-Ap17649	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S21-Ap17649	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S21-Ap17649	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S21-Ap17649	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S21-Ap17649	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S21-Ap17649	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S21-Ap17649	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S21-Ap17649	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S21-Ap17649	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S21-Ap17649	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S21-Ap17649	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S21-Ap17649	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
pH (1:5 Aqueous extract at 25°C as rec.)	S21-Ap17651	CP	pH Units	7.2	7.2	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-Ap17656	CP	%	15	17	13	30%	Pass	
Duplicate									
Acid Herbicides				Result 1	Result 2	RPD			
2.4-D	S21-Ap17658	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4-DB	S21-Ap17658	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4.5-T	S21-Ap17658	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4.5-TP	S21-Ap17658	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Actril (loxynil)	S21-Ap17658	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dicamba	S21-Ap17658	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorprop	S21-Ap17658	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dinitro-o-cresol	S21-Ap17658	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dinoseb	S21-Ap17658	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
MCPA	S21-Ap17658	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
MCPB	S21-Ap17658	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Mecoprop	S21-Ap17658	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S21-Ap17660	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S21-Ap17660	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S21-Ap17660	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S21-Ap17660	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S21-Ap17660	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S21-Ap17660	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S21-Ap17660	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S21-Ap17660	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S21-Ap17660	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Dibenz(a.h)anthracene	S21-Ap17660	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S21-Ap17660	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S21-Ap17660	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S21-Ap17660	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S21-Ap17660	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S21-Ap17660	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S21-Ap17660	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C10-C14	S21-Ap17672	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S21-Ap17672	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S21-Ap17672	CP	mg/kg	62	62	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
TRH >C10-C16	S21-Ap17672	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S21-Ap17672	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S21-Ap17672	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-Ap17677	CP	%	19	19	2.0	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S21-Ap17695	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S21-Ap17695	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S21-Ap17695	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S21-Ap17695	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S21-Ap17695	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S21-Ap17695	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S21-Ap17695	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S21-Ap17695	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S21-Ap17695	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S21-Ap17695	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S21-Ap17695	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S21-Ap17695	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S21-Ap17695	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S21-Ap17695	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S21-Ap17695	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S21-Ap17695	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-Ap17703	CP	mg/kg	7.1	5.7	21	30%	Pass	
Cadmium	S21-Ap17703	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S21-Ap17703	CP	mg/kg	22	19	12	30%	Pass	
Copper	S21-Ap17703	CP	mg/kg	23	24	3.0	30%	Pass	
Lead	S21-Ap17703	CP	mg/kg	22	19	13	30%	Pass	
Mercury	S21-Ap17703	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S21-Ap17703	CP	mg/kg	23	24	5.0	30%	Pass	
Zinc	S21-Ap17703	CP	mg/kg	65	60	7.0	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-Ap17708	CP	mg/kg	4.6	5.1	10	30%	Pass	
Cadmium	S21-Ap17708	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S21-Ap17708	CP	mg/kg	24	26	8.0	30%	Pass	
Copper	S21-Ap17708	CP	mg/kg	30	32	5.0	30%	Pass	

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Lead	S21-Ap17708	CP	mg/kg	13	15	12	30%	Pass	
Mercury	S21-Ap17708	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S21-Ap17708	CP	mg/kg	10	11	11	30%	Pass	
Zinc	S21-Ap17708	CP	mg/kg	42	46	10	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-Ap17711	CP	%	16	17	5.0	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S21-Ap17728	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S21-Ap17728	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S21-Ap17728	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S21-Ap17728	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S21-Ap17728	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S21-Ap17728	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S21-Ap17728	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S21-Ap17728	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S21-Ap17728	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C10-C14	S21-Ap17732	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S21-Ap17732	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S21-Ap17732	CP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
TRH >C10-C16	S21-Ap17732	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S21-Ap17732	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S21-Ap17732	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-Ap17742	CP	%	22	22	3.0	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-Ap17750	CP	mg/kg	8.2	8.6	4.0	30%	Pass	
Cadmium	S21-Ap17750	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S21-Ap17750	CP	mg/kg	25	27	6.0	30%	Pass	
Copper	S21-Ap17750	CP	mg/kg	29	32	8.0	30%	Pass	
Lead	S21-Ap17750	CP	mg/kg	27	28	1.0	30%	Pass	
Mercury	S21-Ap17750	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S21-Ap17750	CP	mg/kg	16	17	6.0	30%	Pass	
Zinc	S21-Ap17750	CP	mg/kg	69	72	4.0	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-Ap17764	CP	%	18	20	9.0	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C10-C14	S21-Ap17769	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S21-Ap17769	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S21-Ap17769	CP	mg/kg	< 50	< 50	<1	30%	Pass	

Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
TRH >C10-C16	S21-Ap17769	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S21-Ap17769	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S21-Ap17769	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	B21-Ap28700	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	B21-Ap28700	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	B21-Ap28700	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	B21-Ap28700	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	B21-Ap28700	NCP	ug/kg	20	17	17	30%	Pass	
Perfluorononanoic acid (PFNA)	B21-Ap28700	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	B21-Ap28700	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	B21-Ap28700	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	B21-Ap28700	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	B21-Ap28700	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	B21-Ap28700	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	B21-Ap28700	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	B21-Ap28700	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	B21-Ap28700	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	B21-Ap28700	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	B21-Ap28700	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	B21-Ap28700	NCP	ug/kg	< 10	< 10	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	B21-Ap28700	NCP	ug/kg	< 10	< 10	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	B21-Ap28700	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	B21-Ap28700	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	B21-Ap28700	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	B21-Ap28700	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	B21-Ap28700	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	B21-Ap28700	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	B21-Ap28700	NCP	ug/kg	31	31	2.0	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	B21-Ap28700	NCP	ug/kg	< 5	< 5	<1	30%	Pass	

Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	B21-Ap28700	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	B21-Ap28700	NCP	ug/kg	< 10	< 10	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	B21-Ap28700	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	B21-Ap28700	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S21-Ap17780	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S21-Ap17780	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S21-Ap17780	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S21-Ap17780	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S21-Ap17780	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S21-Ap17780	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S21-Ap17780	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S21-Ap17780	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S21-Ap17780	CP	mg/kg	< 20	< 20	<1	30%	Pass	

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

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
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).

Authorised by:

Ursula Long	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)
Charl Du Preez	Senior Analyst-Inorganic (NSW)
John Nguyen	Senior Analyst-Metal (NSW)
Joseph Edouard	Senior Analyst-Organic (VIC)
Sarah McCallion	Senior Analyst-PFAS (QLD)

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.: 60482

PROJECT NAME: Kemps Creek DSI

LABORATORY BATCH NO.: 787245

DATE NEEDED BY: Standard TAT

SAMPLERS:

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

QC LEVEL: NEPM (2013)

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....rlill@jbsg.com.au; (3) .....cdagger@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs	Asbestos	OCPs/PCBs	Phenols	Herbicides	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
TP129 0.0-0.1	Soil			J		x		x								
TP129 0.2-0.3				J				x								
TP149 0.0-0.1				J		x	x					x				
TP149 0.2-0.3				J												
TP150 0.0-0.1				B+J		x	x									
TP150 0.2-0.3				J				x								
TP151 0.0-0.1				J			x			x						
TP151 0.2-0.3				J												
TP152 0.0-0.1				B+J			x	x				x				
TP152 0.3-0.4				J		x		x								
TP153 0.0-0.1				J			x			x						
TP153 0.2-0.3				J												
TP131 0.0-0.1				J		x		x		x		x				
TP131 0.2-0.3				J												
TP130 0.0-0.1				B+J			x		x			x				
TP130 0.2-0.3				J												
TP128 0.0-0.1				B+J		x		x	x							
TP126 0.2-0.3				J												
TP127 0.0-0.1				J		x		x								
TP127 0.2-0.3				J												

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Ryan Lill DATE: 13-4-21	CONSIGNMENT NOTE NO. courier	NAME: MK	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 13/4/21 5:07PM	COOLER TEMP 12.7 deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	OF: Eurofins	
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

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 60482

PROJECT NAME: Kemps Creek DSI

DATE NEEDED BY: Standard TAT

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

LABORATORY BATCH NO.: 787245

SAMPLERS:

QC LEVEL: NEPM (2013)

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....rlill@jbsg.com.au; (3) .....cdagger@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs	Asbestos	OCPs/PCBs	Phenols	Herbicides	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
TP144 0.0-0.1	Soil	13-4-21		B+J		X		X								
TP144 0.2-0.3				J												
TP143 0.0-0.1				J			X					X				
TP143 0.2-0.3				J												
TP142 0.0-0.1				B+J						X						
TP142 0.2-0.3				J		X	X									
TP141 0.0-0.1				J												
TP141 0.3-0.4				J												
TP140 0.0-0.1				B+J			X	X				X				
TP140 0.3-0.4				J												
TP331 0.0-0.1				J		X		X								
TP331 0.3-0.4				J												
TP138 0.0-0.1				B+J		X	X		X							
TP138 0.2-0.4				J												
TP154 0.0-0.1				B+J			X	X		X						
TP154 0.2-0.3				J												
TP130 0.0-0.1				J		X	X									
TP130 0.2-0.3				J												
BH241 0.0-0.1				J		X		X								
BH241 0.2-0.3	↓	↓		J												

RELINQUISHED BY:

NAME: Ryan Lill DATE: 13-4-21

OF: JBS&G

NAME: DATE:

OF:

METHOD OF SHIPMENT:

CONSIGNMENT NOTE NO. Courier

TRANSPORT CO.

CONSIGNMENT NOTE NO.

TRANSPORT CO

RECEIVED BY:

NAME: MR

DATE: 13/4/21 5:07PM

OF: Eurofins

NAME: DATE:

OF:

FOR RECEIVING LAB USE ONLY:

COOLER SEAL – Yes..... No ..... Intact ..... Broken .....

COOLER TEMP 12.7 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

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 60482

PROJECT NAME: Kemps Creek DSI

DATE NEEDED BY: Standard TAT

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

LABORATORY BATCH NO.: 787 245

SAMPLERS:

QC LEVEL: NEPM (2013)

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....rlill@jbsg.com.au; (3) .....cdagger@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs	Asbestos	OCPs/PCBs	Phenols	Herbicides	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
TP147_0.0-0.1	Soil	13-4-21		J+B		X	X	X	X							
" - 0.3-0.4				J												
TP146 - 0.0-0.1				J+B		X	X	X								
" 0.3-0.4				J												
TP145-0.0-0.1				J+B			X			X		X				
" 0.4-0.5				J												
TP126-0.0-0.1				J+B		X		X				X				
" 0.4-0.4				J												
TP125_0.0-0.1				J+B												
" 0.3-0.4				J												
TP124-0.0-0.1				J+B		X	X	X								
" 0.3-0.4				J												
QC05-Soil				J		X	X	X								
TP309_0.0-0.2				J+B		X	X				X					
" - 0.4-0.5				J												
TP310-0.0-0.2				J+B		X		X	X	X						
" 0.4-0.5				J												
TP398_0.0-0.1				2xJ+B		X	X	X								
" - 0.3-0.4				J												
TP396_0.0-0.1	V	V		J+B		X	X		X							

RELINQUISHED BY:

NAME: Ryan Lill DATE: 13-4-21

OF: JBS&G

NAME: DATE:

OF:

METHOD OF SHIPMENT:

CONSIGNMENT NOTE NO. courier

TRANSPORT CO.

CONSIGNMENT NOTE NO.

TRANSPORT CO

RECEIVED BY:

NAME: MR

DATE: 13/4/21 8:07PM

OF: Eurofins

NAME: DATE:

OF:

FOR RECEIVING LAB USE ONLY:

COOLER SEAL – Yes..... No ..... Intact ..... Broken .....

COOLER TEMP 12.7 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

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 60482

PROJECT NAME: Kemps Creek DSI

DATE NEEDED BY: Standard TAT

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

LABORATORY BATCH NO.: 787245

SAMPLERS:

QC LEVEL: NEPM (2013)

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....rlill@jbsg.com.au; (3) .....cdagger@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs	Asbestos	OCPs/PCBs	Phenols	Herbicides	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
TP396_0.4-0.5	Soil	13.4.21		J		X		X								
TP395_0.0-0.1				J+B					X							
0.3-0.4				↓		X	X	X	X							
0.6-0.7																
1.0-1.1				J												
TP397_0.0-0.1				J+B			X	X	X	X						
0.3-0.4						X		X		X						
0.6-0.7				↓												
1.0-1.1				J												
QC07_Soil				J+B		X	X	X	X							
TP390_0.0-0.1				J+B		X		X	X							
0.4-0.5				J												
TP391_0.0-0.1				J+B		X	X		X							
0.5-0.6				J			X	X								
1.0-1.1				J												
TP235_0.0-0.05				J+B		X		X	X							
0.1-0.2				✓												
0.4-0.5				J												
TP236_0.0-0.1				J+B		X	X	X	X							
0.2-0.3				J												

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Ryan Lill DATE: 13-4-21	CONSIGNMENT NOTE NO.	NAME: MR	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO. courier	DATE: 13/4/21 5:07PM	COOLER TEMP 12.7 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

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 60482

PROJECT NAME: Kemps Creek DSI

DATE NEEDED BY: Standard TAT

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

LABORATORY BATCH NO.: 787245

SAMPLERS:

QC LEVEL: NEPM (2013)

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....rlill@jbsg.com.au; (3) .....cdagger@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs	Asbestos	OCPs/PCBs	Phenols	Herbicides	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
BH390 0.0-0.1	Soil	13/4/21		J+B		x	x	x			x					
BH393 0.4-0.5				J												
BH392 0.0-0.1				J+B		x	x	x			x					
BH392 0.4-0.5				J												
BH394 0.0-0.1				J+B		x	x	x			x					
BH394 0.4-0.5				J												
TP261 0.0-0.1				J+B												
TP261 0.4-0.5				J												
TP259 0.0-0.1				J												
0.3-0.4				J												
TP260 0.0-0.1				J+B+PFAS		x	x	x	x				x			
0.2-0.3				J+B					x							
0.5-0.6				J												
BH280 0.0-0.1				J+B		x	x	x								
BH280 0.2-0.3				J												
BH289 0.0-0.1				J			x	x				x				
0.2-0.3				J												
BH242 0.0-0.1				J+B		x		x								
0.2-0.3				J												
TS/TB	Water			2xV 2xV												

RELINQUISHED BY:

NAME: Kyan Lill DATE: 13-4-21

OF: JBS&G

NAME: DATE:

OF:

METHOD OF SHIPMENT:

CONSIGNMENT NOTE NO.

TRANSPORT CO. courier

CONSIGNMENT NOTE NO.

TRANSPORT CO

RECEIVED BY:

NAME: MR

DATE: 13/4/21 5:07 PM

OF: ENVIROLAB

NAME: DATE:

OF:

FOR RECEIVING LAB USE ONLY:

COOLER SEAL – Yes..... No ..... Intact ..... Broken .....

COOLER TEMP 12.7 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 - Generic

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 60482

PROJECT NAME: Kemps Creek DSI

DATE NEEDED BY: Standard TAT

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

LABORATORY BATCH NO.: 787245

SAMPLERS:

QC LEVEL: NEPM (2013)

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....rlill@jbsg.com.au; (3) .....cdagger@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs	Asbestos	OCPs/PCBs	Phenols	Herbicides	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
BH1238 0.0-0.1	Soil	13/4/21		J+B		x	x	x		x						
BH1238 0.4-0.5				J				x								
BH1237 0.0-0.1				J+B		x		x				x				
BH1237 0.4-0.5				J		x										
BH1292 0.0-0.1				J+B		x	x	x								
BH1292 0.4-0.5				J				x								
BH1239 0.0-0.1				J+B		x		x				x				
BH1239 0.4-0.5				J		x										
BH1278 0.0-0.1				J+B		x		x				x				
BH1278 0.4-0.5				J				x								
BH1291 0.0-0.1				J+B		x		x		x						
BH1291 0.4-0.5				J		x										
BH1279 0.0-0.1				J+D		x	x	x				x				
BH1279 0.4-0.5				J				x								
BH1290 0.0-0.1				J+B		x		x		x						
BH1290 0.4-0.5				J												
BH1240 0.0-0.1				J+B		x	x	x				x				
BH1240 0.4-0.5				J												
QC08-Soil	↓	↓		J+B		x	x	x	x							

RELINQUISHED BY:

NAME: Kyan Lill DATE: 13-4-21

OF: JBS&G

NAME: DATE:

OF:

METHOD OF SHIPMENT:

CONSIGNMENT NOTE NO.

TRANSPORT CO. Courier

CONSIGNMENT NOTE NO.

TRANSPORT CO

RECEIVED BY:

NAME: MR

DATE: 13/4/21 5.07PM

OF: Envirolab

NAME: DATE:

OF:

FOR RECEIVING LAB USE ONLY:

COOLER SEAL – Yes..... No ..... Intact ..... Broken .....

COOLER TEMP 12.7 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 - Generic

RE: Attention: Eurofins Sample Receipt Advice - Report 787245 : Site KEMPS CREEK DSI (60482)

Ryan Lill <rlill@jbsg.com.au>
Fri 4/16/2021 8:12 AM
To: #AU04_Enviro_Sample_NSW <EnviroSampleNSW@eurofins.com>

Hi,

Could QC06_Soil please be analysed for HM, TRH/BTEX, PAH, Asbestos, Phenols and Herbicides.

Thank you,

Ryan

Ryan Lill | Project Manager | JBS&G
Sydney | Melbourne | Adelaide | Perth | Brisbane | Canberra | Darwin | Wollongong | Bunbury
Level 1, 50 Margaret Street Sydney NSW 2000
T: 02 8245 0300 | M: 0468 771 734 | E: rlill@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
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From: EnviroSampleNSW@eurofins.com <EnviroSampleNSW@eurofins.com>
Sent: Thursday, 15 April 2021 4:28 PM
To: Ryan Lill <rlill@jbsg.com.au>
Cc: Christopher Dagger <cdagger@jbsg.com.au>
Subject: Attention: Eurofins Sample Receipt Advice - Report 787245 : Site KEMPS CREEK DSI (60482)

[EXTERNAL EMAIL]** Stop and think before opening attachments, clicking or responding.

Dear Valued Client,

Sample jars for samples BH238_0.0-0.1 (bag received), TP391_1.0-1.1 and BH238_0.4-0.5 not received, analyses cancelled. Sample bag BH238_0.0-0.1 placed on hold. No asbestos bag received for sample TP395_0.6-0.7. Received samples TP155_0.0-0.1 (jar + bag), TP155_0.3-0.4 (jar), TP234_0.0-0.1 (jar + bag), TP234_0.2-0.3 (jar), TP396_1.0-1.1 (jar), TP259_0.0-0.1 (jar), TP259_0.3-0.4 (jar), TP391_0.3-0.4 (jar) and QC06_SOIL (jar + bag) as extra, logged on hold. Received two unlabeled jars logged on hold.

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,
Mickael Ros
Sample Receipt

Eurofins | Environmental Testing
Unit F3, Parkview Building
16 Mars Road
LANE COVE WEST NSW 2066
AUSTRALIA
Phone: +61 02 9900 8421
Email: EnviroSampleNSW@eurofins.com
Website: [http://]environment.eurofins.com.au

EnviroNote 1108 - Emissions from Stationary Sources
EnviroNote 1103 - NATA Accreditation for Dioxins

Click here to report this email as spam.

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ABN: 50 005 085 521 www.eurofins.com.au EnviroSales@eurofins.com

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Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
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Brisbane
1/21 Smallwood Place
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Phone : +61 7 3902 4600
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Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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:	Ryan Lill
Project name:	KEMPS CREEK DSI
Project ID:	60482
Turnaround time:	5 Day
Date/Time received	Apr 13, 2021 5:07 PM
Eurofins reference	787245

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 Sample Receipt : 12.7 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.
✓	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

Sample jars for samples BH238_0.0-0.1 (bag received), TP391_1.0-1.1 and BH238_0.4-0.5 not received, analyses cancelled. Sample bag BH238_0.0-0.1 placed on hold. No asbestos bag received for sample TP395_0.6-0.7. Received samples TP155_0.0-0.1 (jar + bag), TP155_0.3-0.4 (jar), TP234_0.0-0.1 (jar + bag), TP234_0.2-0.3 (jar), TP396_1.0-1.1 (jar), TP259_0.0-0.1 (jar), TP259_0.3-0.4 (jar) and TP391_0.3-0.4 (jar) as extra, logged on hold. Received two unlabeled jars logged on hold.

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 Ryan Lill - rlill@jbsg.com.au.

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Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
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Perth
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Welshpool WA 6106
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Mayfield East NSW 2304
PO Box 60 Wickham 2293
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New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 787245
Phone: 02 8245 0300
Fax:

Received: Apr 13, 2021 5:07 PM
Due: Apr 20, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Phenols (IWRG 621)	Suite B13: OCP/PCB	Moisture Set	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B4	Eurofins Suite B6	Eurofins Suite B7A	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271										X										
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																				X
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**															
1	TP129_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21872				X		X			X						
2	TP129_0.2-0.3	Apr 13, 2021		Soil	S21-Ap21873				X					X						
3	TP149_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21874					X				X				X		
4	TP150_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21875									X				X		
5	TP150_0.2-0.3	Apr 13, 2021		Soil	S21-Ap21876				X					X						
6	TP151_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21877								X	X		X				
7	TP152_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21878					X				X			X			
8	TP152_0.3-0.4	Apr 13, 2021		Soil	S21-Ap21879				X		X			X						
9	TP153_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21880							X		X		X				

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Australia

Melbourne
6 Monterey Road
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Phone : +61 3 8564 5000
NATA # 1261
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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
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Melbourne Laboratory - NATA Site # 1254 & 14271										X										
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																				X
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
10	TP131_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21881				X	X	X		X	X						
11	TP130_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21882	X				X				X		X				
12	TP128_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21883	X			X		X			X						
13	TP127_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21884				X		X			X						
14	TP144_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21885				X		X			X						
15	TP143_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21886					X				X		X				
16	TP142_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21887								X	X						
17	TP142_0.2-0.3	Apr 13, 2021		Soil	S21-Ap21888				X		X			X						
18	TP141_0.3-0.4	Apr 13, 2021		Soil	S21-Ap21889									X		X				
19	TP140_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21890					X				X			X			
20	TP331_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21891				X		X			X						

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Melbourne Laboratory - NATA Site # 1254 & 14271										X										
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																				X
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
21	TP138_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21892	X			X		X			X						
22	TP154_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21893								X	X			X			
23	TP139_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21894									X				X		
24	BH241_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21895				X		X			X						
25	TP147_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21896									X	X					
26	TP146_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21897									X	X					
27	TP145_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21898					X			X	X		X				
28	TP126_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21899				X	X	X			X						
29	TP124_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21900									X	X					
30	QC05_SOIL	Apr 13, 2021		Soil	S21-Ap21901									X	X					
31	TP309_0.0-0.2	Apr 13, 2021		Soil	S21-Ap21902							X		X				X		

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Melbourne Laboratory - NATA Site # 1254 & 14271										X										
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																				X
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
32	TP310_0.0-0.2	Apr 13, 2021		Soil	S21-Ap21903	X			X		X		X	X						
33	TP398_0.0-0.2	Apr 13, 2021		Soil	S21-Ap21904									X	X					
34	TP396_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21905	X								X				X		
35	TP396_0.4-0.5	Apr 13, 2021		Soil	S21-Ap21906				X		X			X						
36	TP395_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21907	X														
37	TP395_0.3-0.4	Apr 13, 2021		Soil	S21-Ap21908	X								X	X					
38	TP397_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21909	X							X	X			X			
39	TP397_0.3-0.4	Apr 13, 2021		Soil	S21-Ap21910				X		X		X	X						
40	QC07_SOIL	Apr 13, 2021		Soil	S21-Ap21911	X								X	X					
41	TP390_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21912	X			X		X			X						
42	TP391_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21913	X								X				X		

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46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 787245
Phone: 02 8245 0300
Fax:

Received: Apr 13, 2021 5:07 PM
Due: Apr 20, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Phenols (IWRG 621)	Suite B13: OCP/PCB	Moisture Set	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B4	Eurofins Suite B6	Eurofins Suite B7A	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271										X										
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																				X
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
43	TP391_0.5-0.6	Apr 13, 2021		Soil	S21-Ap21914									X			X			
44	TP235_0.0-0.05	Apr 13, 2021		Soil	S21-Ap21915	X			X		X			X						
45	TP236_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21916									X	X					
46	BH393_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21917									X					X	
47	BH392_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21918									X					X	
48	BH394_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21919									X					X	
49	TP260_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21920	X								X	X					X
50	TP260_0.2-0.3	Apr 13, 2021		Soil	S21-Ap21921	X														
51	BH280_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21922									X	X					
52	BH289_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21923					X				X			X			

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Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
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Brisbane
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Melbourne Laboratory - NATA Site # 1254 & 14271										X										
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																				X
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
53	BH242_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21924				X		X			X						
54	BH238_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21925			X												
55	BH238_0.4-0.5	Apr 13, 2021		Soil	S21-Ap21926		X													
56	BH277_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21927				X	X	X		X	X						
57	BH277_0.4-0.5	Apr 13, 2021		Soil	S21-Ap21928						X			X						
58	BH292_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21929									X	X					
59	BH292_0.4-0.5	Apr 13, 2021		Soil	S21-Ap21930				X					X						
60	BH239_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21931				X	X	X			X						
61	BH239_0.4-0.5	Apr 13, 2021		Soil	S21-Ap21932						X			X						
62	BH278_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21933					X				X	X					
63	BH278_0.4-0.5	Apr 13, 2021		Soil	S21-Ap21934				X					X						

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Australia

Melbourne
6 Monterey Road
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NATA # 1261
Site # 1254 & 14271

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Unit F3, Building F
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Melbourne Laboratory - NATA Site # 1254 & 14271										X										
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																				X
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
64	BH291_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21935				X		X		X	X						
65	BH291_0.4-0.5	Apr 13, 2021		Soil	S21-Ap21936						X			X						
66	BH279_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21937					X				X	X					
67	BH279_0.4-0.5	Apr 13, 2021		Soil	S21-Ap21938				X					X						
68	BH290_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21939				X		X		X	X						
69	BH240_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21940					X				X	X					
70	QC08_SOIL	Apr 13, 2021		Soil	S21-Ap21941	X								X	X					
71	TP149_0.2-0.3	Apr 13, 2021		Soil	S21-Ap21942			X												
72	TP151_0.2-0.3	Apr 13, 2021		Soil	S21-Ap21943			X												
73	TP153_0.2-0.3	Apr 13, 2021		Soil	S21-Ap21944			X												
74	TP131_0.2-0.3	Apr 13, 2021		Soil	S21-Ap21945			X												

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Australia

Melbourne
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Phone : +61 3 8564 5000
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Site # 1254 & 14271

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Unit F3, Building F
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Melbourne Laboratory - NATA Site # 1254 & 14271										X										
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																				X
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
75	TP130_0.2-0.3	Apr 13, 2021		Soil	S21-Ap21946			X												
76	TP128_0.2-0.3	Apr 13, 2021		Soil	S21-Ap21947			X												
77	TP127_0.2-0.3	Apr 13, 2021		Soil	S21-Ap21948			X												
78	TP144_0.2-0.3	Apr 13, 2021		Soil	S21-Ap21949			X												
79	TP143_0.2-0.3	Apr 13, 2021		Soil	S21-Ap21950			X												
80	TP141_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21951			X												
81	TP140_0.3-0.4	Apr 13, 2021		Soil	S21-Ap21952			X												
82	TP331_0.3-0.4	Apr 13, 2021		Soil	S21-Ap21953			X												
83	TP138_0.3-0.4	Apr 13, 2021		Soil	S21-Ap21954			X												
84	TP154_0.2-0.3	Apr 13, 2021		Soil	S21-Ap21955			X												
85	TP139_0.2-0.3	Apr 13, 2021		Soil	S21-Ap21956			X												

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Australia

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Site # 1254 & 14271

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Unit F3, Building F
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Melbourne Laboratory - NATA Site # 1254 & 14271										X										
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																				X
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
86	BH241_0.2-0.3	Apr 13, 2021		Soil	S21-Ap21957			X												
87	TP147_0.3-0.4	Apr 13, 2021		Soil	S21-Ap21958			X												
88	TP146_0.3-0.4	Apr 13, 2021		Soil	S21-Ap21959			X												
89	TP145_0.4-0.5	Apr 13, 2021		Soil	S21-Ap21960			X												
90	TP126_0.3-0.4	Apr 13, 2021		Soil	S21-Ap21961			X												
91	TP125_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21962			X												
92	TP125_0.3-0.4	Apr 13, 2021		Soil	S21-Ap21963			X												
93	TP124_0.3-0.4	Apr 13, 2021		Soil	S21-Ap21964			X												
94	TP309_0.4-0.5	Apr 13, 2021		Soil	S21-Ap21965			X												
95	TP310_0.4-0.5	Apr 13, 2021		Soil	S21-Ap21966			X												
96	TP398_0.3-0.4	Apr 13, 2021		Soil	S21-Ap21967			X												

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Australia

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Melbourne Laboratory - NATA Site # 1254 & 14271										X										
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																				X
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
97	TP395_0.6-0.7	Apr 13, 2021		Soil	S21-Ap21968			X												
98	TP395_1.0-1.1	Apr 13, 2021		Soil	S21-Ap21969			X												
99	TP397_0.6-0.7	Apr 13, 2021		Soil	S21-Ap21970			X												
100	TP397_1.0-1.1	Apr 13, 2021		Soil	S21-Ap21971			X												
101	TP390_0.4-0.5	Apr 13, 2021		Soil	S21-Ap21972			X												
102	TP391_1.0-1.1	Apr 13, 2021		Soil	S21-Ap21973			X												
103	TP235_0.1-0.2	Apr 13, 2021		Soil	S21-Ap21974			X												
104	TP235_0.4-0.5	Apr 13, 2021		Soil	S21-Ap21975			X												
105	TP236_0.2-0.3	Apr 13, 2021		Soil	S21-Ap21976			X												
106	BH393_0.4-0.5	Apr 13, 2021		Soil	S21-Ap21977			X												
107	BH392_0.4-0.5	Apr 13, 2021		Soil	S21-Ap21978			X												

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Melbourne Laboratory - NATA Site # 1254 & 14271										X										
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																				X
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
108	BH394_0.4-0.5	Apr 13, 2021		Soil	S21-Ap21979			X												
109	TP261_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21980			X												
110	TP261_0.4-0.5	Apr 13, 2021		Soil	S21-Ap21981			X												
111	TP260_0.5-0.6	Apr 13, 2021		Soil	S21-Ap21982			X												
112	BH280_0.2-0.3	Apr 13, 2021		Soil	S21-Ap21983			X												
113	BH289_0.2-0.3	Apr 13, 2021		Soil	S21-Ap21984			X												
114	BH242_0.2-0.3	Apr 13, 2021		Soil	S21-Ap21985			X												
115	TS	Apr 13, 2021		Water	S21-Ap21986			X												
116	TB	Apr 13, 2021		Water	S21-Ap21987			X												
117	BH290_0.4-0.5	Apr 13, 2021		Soil	S21-Ap21988			X												
118	BH240_0.4-0.5	Apr 13, 2021		Soil	S21-Ap21989			X												

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Australia

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Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																				X
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
119	TP155_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21991			X												
120	TP155_0.3-0.4	Apr 13, 2021		Soil	S21-Ap21992			X												
121	TP234_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21993			X												
122	TP234_0.2-0.3	Apr 13, 2021		Soil	S21-Ap21994			X												
123	TP396_1.0-1.1	Apr 13, 2021		Soil	S21-Ap21995			X												
124	QC06_SOIL	Apr 13, 2021		Soil	S21-Ap21996	X				X									X	
125	UNLABELLED SAMPLE 1	Apr 13, 2021		Soil	S21-Ap21997			X												
126	UNLABELLED SAMPLE 2	Apr 13, 2021		Soil	S21-Ap21998			X												
127	TP259_0.0-0.1	Apr 13, 2021		Soil	S21-Ap22271			X												

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
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IANZ # 1290

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 787245
Phone: 02 8245 0300
Fax:

Received: Apr 13, 2021 5:07 PM
Due: Apr 20, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Phenols (IWRG 621)	Suite B13: OCP/PCB	Moisture Set	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B4	Eurofins Suite B6	Eurofins Suite B7A	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271										X										
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																				X
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
128	TP259_0.3-0.4	Apr 13, 2021		Soil	S21-Ap22272			X												
129	TP391_0.3-0.4	Apr 13, 2021		Soil	S21-Ap22273			X												
Test Counts						16	1	59	26	15	24	2	11	66	15	6	6	6	4	1

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 and proficiency testing scheme providers reports.

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention:	Ryan Lill
Report	787245-AID
Project Name	KEMPS CREEK DSI
Project ID	60482
Received Date	Apr 13, 2021
Date Reported	Apr 26, 2021

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.*

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Project Name KEMPS CREEK DSI
Project ID 60482
Date Sampled Apr 13, 2021
Report 787245-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
TP130_0.0-0.1	21-Ap21882	Apr 13, 2021	Approximate Sample 486g 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.
TP128_0.0-0.1	21-Ap21883	Apr 13, 2021	Approximate Sample 572g 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.
TP138_0.0-0.1	21-Ap21892	Apr 13, 2021	Approximate Sample 519g 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.
TP310_0.0-0.2	21-Ap21903	Apr 13, 2021	Approximate Sample 376g 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.
TP396_0.0-0.1	21-Ap21905	Apr 13, 2021	Approximate Sample 442g 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.
TP395_0.0-0.1	21-Ap21907	Apr 13, 2021	Approximate Sample 501g 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.
TP395_0.3-0.4	21-Ap21908	Apr 13, 2021	Approximate Sample 540g 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
TP397_0.0-0.1	21-Ap21909	Apr 13, 2021	Approximate Sample 678g Sample consisted of: Brown coarse-grained soil, cement, bitumen and rocks	ACM: Chrysotile asbestos detected in fibre cement fragments. Approximate raw weight of ACM = 4.8g Total estimated asbestos content in ACM = 0.24g* Total estimated asbestos concentration in ACM = 0.036% w/w* Organic fibre detected. No trace asbestos detected.
QC07_SOIL	21-Ap21911	Apr 13, 2021	Approximate Sample 585g 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.
TP390_0.0-0.1	21-Ap21912	Apr 13, 2021	Approximate Sample 607g 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.
TP391_0.0-0.1	21-Ap21913	Apr 13, 2021	Approximate Sample 534g Sample consisted of: Brown fine-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.
TP235_0.0-0.05	21-Ap21915	Apr 13, 2021	Approximate Sample 506g 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.
TP260_0.0-0.1	21-Ap21920	Apr 13, 2021	Approximate Sample 840g 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.
TP260_0.2-0.3	21-Ap21921	Apr 13, 2021	Approximate Sample 608g 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.
QC08_SOIL	21-Ap21941	Apr 13, 2021	Approximate Sample 586g Sample consisted of: Brown fine-grained clayey 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.
QC06_SOIL	21-Ap21996	Apr 13, 2021	Approximate Sample 634g 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	Apr 16, 2021	Indefinite

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
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Welshpool WA 6106
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Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

New Zealand

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
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Rolleston, Christchurch 7675
Phone : 0800 856 450
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Project Name: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 787245
Phone: 02 8245 0300
Fax:

Received: Apr 13, 2021 5:07 PM
Due: Apr 20, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Phenols (IWRG 621)	Suite B13: OCP/PCB	Moisture Set	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B4	Eurofins Suite B6	Eurofins Suite B7A	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271										X										
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																				X
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**															
1	TP129_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21872				X		X			X						
2	TP129_0.2-0.3	Apr 13, 2021		Soil	S21-Ap21873				X					X						
3	TP149_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21874					X				X				X		
4	TP150_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21875									X				X		
5	TP150_0.2-0.3	Apr 13, 2021		Soil	S21-Ap21876				X					X						
6	TP151_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21877								X	X		X				
7	TP152_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21878					X				X			X			
8	TP152_0.3-0.4	Apr 13, 2021		Soil	S21-Ap21879				X		X			X						
9	TP153_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21880							X		X		X				

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
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Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
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Perth
46-48 Banksia Road
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Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
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New Zealand

Auckland
35 O'Rorke Road
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Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
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Sydney
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Project Name: KEMPS CREEK DSI
Project ID: 60482

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Phone: 02 8245 0300
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Received: Apr 13, 2021 5:07 PM
Due: Apr 20, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Phenols (IWRG 621)	Suite B13: OCP/PCB	Moisture Set	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B4	Eurofins Suite B6	Eurofins Suite B7A	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271										X										
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																				X
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
10	TP131_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21881				X	X	X		X	X						
11	TP130_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21882	X				X				X		X				
12	TP128_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21883	X			X		X			X						
13	TP127_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21884				X		X			X						
14	TP144_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21885				X		X			X						
15	TP143_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21886					X				X		X				
16	TP142_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21887								X	X						
17	TP142_0.2-0.3	Apr 13, 2021		Soil	S21-Ap21888				X		X			X						
18	TP141_0.3-0.4	Apr 13, 2021		Soil	S21-Ap21889									X		X				
19	TP140_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21890					X				X			X			
20	TP331_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21891				X		X			X						

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Melbourne Laboratory - NATA Site # 1254 & 14271										X										
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																				X
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
21	TP138_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21892	X			X		X			X						
22	TP154_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21893								X	X			X			
23	TP139_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21894									X				X		
24	BH241_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21895				X		X			X						
25	TP147_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21896									X	X					
26	TP146_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21897									X	X					
27	TP145_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21898					X			X	X		X				
28	TP126_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21899				X	X	X			X						
29	TP124_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21900									X	X					
30	QC05_SOIL	Apr 13, 2021		Soil	S21-Ap21901									X	X					
31	TP309_0.0-0.2	Apr 13, 2021		Soil	S21-Ap21902							X		X				X		

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Australia

Melbourne
6 Monterey Road
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Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
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Sample Detail						Asbestos - WA guidelines	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Phenols (IWRG 621)	Suite B13: OCP/PCB	Moisture Set	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B4	Eurofins Suite B6	Eurofins Suite B7A	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271										X										
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																				X
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
32	TP310_0.0-0.2	Apr 13, 2021		Soil	S21-Ap21903	X			X		X		X	X						
33	TP398_0.0-0.2	Apr 13, 2021		Soil	S21-Ap21904									X	X					
34	TP396_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21905	X								X				X		
35	TP396_0.4-0.5	Apr 13, 2021		Soil	S21-Ap21906				X		X			X						
36	TP395_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21907	X														
37	TP395_0.3-0.4	Apr 13, 2021		Soil	S21-Ap21908	X								X	X					
38	TP397_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21909	X							X	X			X			
39	TP397_0.3-0.4	Apr 13, 2021		Soil	S21-Ap21910				X		X		X	X						
40	QC07_SOIL	Apr 13, 2021		Soil	S21-Ap21911	X								X	X					
41	TP390_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21912	X			X		X			X						
42	TP391_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21913	X								X				X		

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1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Perth
46-48 Banksia Road
Welshpool WA 6106
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4/52 Industrial Drive
Mayfield East NSW 2304
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NATA # 1261 Site # 25079

New Zealand

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
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IANZ # 1290

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 787245
Phone: 02 8245 0300
Fax:

Received: Apr 13, 2021 5:07 PM
Due: Apr 20, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Phenols (IWRG 621)	Suite B13: OCP/PCB	Moisture Set	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B4	Eurofins Suite B6	Eurofins Suite B7A	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271										X										
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																				X
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
43	TP391_0.5-0.6	Apr 13, 2021		Soil	S21-Ap21914									X			X			
44	TP235_0.0-0.05	Apr 13, 2021		Soil	S21-Ap21915	X			X		X			X						
45	TP236_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21916									X	X					
46	BH393_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21917									X					X	
47	BH392_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21918									X					X	
48	BH394_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21919									X					X	
49	TP260_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21920	X								X	X					X
50	TP260_0.2-0.3	Apr 13, 2021		Soil	S21-Ap21921	X														
51	BH280_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21922									X	X					
52	BH289_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21923					X				X			X			

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
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Melbourne Laboratory - NATA Site # 1254 & 14271										X										
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																				X
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
53	BH242_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21924				X		X			X						
54	BH238_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21925			X												
55	BH238_0.4-0.5	Apr 13, 2021		Soil	S21-Ap21926		X													
56	BH277_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21927				X	X	X		X	X						
57	BH277_0.4-0.5	Apr 13, 2021		Soil	S21-Ap21928						X			X						
58	BH292_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21929									X	X					
59	BH292_0.4-0.5	Apr 13, 2021		Soil	S21-Ap21930				X					X						
60	BH239_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21931				X	X	X			X						
61	BH239_0.4-0.5	Apr 13, 2021		Soil	S21-Ap21932						X			X						
62	BH278_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21933					X				X	X					
63	BH278_0.4-0.5	Apr 13, 2021		Soil	S21-Ap21934				X					X						

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Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
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NATA # 1261
Site # 1254 & 14271

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16 Mars Road
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Melbourne Laboratory - NATA Site # 1254 & 14271										X										
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																				X
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
64	BH291_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21935				X		X		X	X						
65	BH291_0.4-0.5	Apr 13, 2021		Soil	S21-Ap21936						X			X						
66	BH279_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21937					X				X	X					
67	BH279_0.4-0.5	Apr 13, 2021		Soil	S21-Ap21938				X					X						
68	BH290_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21939				X		X		X	X						
69	BH240_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21940					X				X	X					
70	QC08_SOIL	Apr 13, 2021		Soil	S21-Ap21941	X								X	X					
71	TP149_0.2-0.3	Apr 13, 2021		Soil	S21-Ap21942			X												
72	TP151_0.2-0.3	Apr 13, 2021		Soil	S21-Ap21943			X												
73	TP153_0.2-0.3	Apr 13, 2021		Soil	S21-Ap21944			X												
74	TP131_0.2-0.3	Apr 13, 2021		Soil	S21-Ap21945			X												

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Melbourne Laboratory - NATA Site # 1254 & 14271										X										
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																				X
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
75	TP130_0.2-0.3	Apr 13, 2021		Soil	S21-Ap21946			X												
76	TP128_0.2-0.3	Apr 13, 2021		Soil	S21-Ap21947			X												
77	TP127_0.2-0.3	Apr 13, 2021		Soil	S21-Ap21948			X												
78	TP144_0.2-0.3	Apr 13, 2021		Soil	S21-Ap21949			X												
79	TP143_0.2-0.3	Apr 13, 2021		Soil	S21-Ap21950			X												
80	TP141_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21951			X												
81	TP140_0.3-0.4	Apr 13, 2021		Soil	S21-Ap21952			X												
82	TP331_0.3-0.4	Apr 13, 2021		Soil	S21-Ap21953			X												
83	TP138_0.3-0.4	Apr 13, 2021		Soil	S21-Ap21954			X												
84	TP154_0.2-0.3	Apr 13, 2021		Soil	S21-Ap21955			X												
85	TP139_0.2-0.3	Apr 13, 2021		Soil	S21-Ap21956			X												

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Australia

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Unit F3, Building F
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Melbourne Laboratory - NATA Site # 1254 & 14271										X										
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																				X
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
86	BH241_0.2-0.3	Apr 13, 2021		Soil	S21-Ap21957			X												
87	TP147_0.3-0.4	Apr 13, 2021		Soil	S21-Ap21958			X												
88	TP146_0.3-0.4	Apr 13, 2021		Soil	S21-Ap21959			X												
89	TP145_0.4-0.5	Apr 13, 2021		Soil	S21-Ap21960			X												
90	TP126_0.3-0.4	Apr 13, 2021		Soil	S21-Ap21961			X												
91	TP125_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21962			X												
92	TP125_0.3-0.4	Apr 13, 2021		Soil	S21-Ap21963			X												
93	TP124_0.3-0.4	Apr 13, 2021		Soil	S21-Ap21964			X												
94	TP309_0.4-0.5	Apr 13, 2021		Soil	S21-Ap21965			X												
95	TP310_0.4-0.5	Apr 13, 2021		Soil	S21-Ap21966			X												
96	TP398_0.3-0.4	Apr 13, 2021		Soil	S21-Ap21967			X												

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Melbourne Laboratory - NATA Site # 1254 & 14271										X										
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																				X
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
97	TP395_0.6-0.7	Apr 13, 2021		Soil	S21-Ap21968			X												
98	TP395_1.0-1.1	Apr 13, 2021		Soil	S21-Ap21969			X												
99	TP397_0.6-0.7	Apr 13, 2021		Soil	S21-Ap21970			X												
100	TP397_1.0-1.1	Apr 13, 2021		Soil	S21-Ap21971			X												
101	TP390_0.4-0.5	Apr 13, 2021		Soil	S21-Ap21972			X												
102	TP391_1.0-1.1	Apr 13, 2021		Soil	S21-Ap21973			X												
103	TP235_0.1-0.2	Apr 13, 2021		Soil	S21-Ap21974			X												
104	TP235_0.4-0.5	Apr 13, 2021		Soil	S21-Ap21975			X												
105	TP236_0.2-0.3	Apr 13, 2021		Soil	S21-Ap21976			X												
106	BH393_0.4-0.5	Apr 13, 2021		Soil	S21-Ap21977			X												
107	BH392_0.4-0.5	Apr 13, 2021		Soil	S21-Ap21978			X												

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Melbourne Laboratory - NATA Site # 1254 & 14271										X										
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																				X
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
108	BH394_0.4-0.5	Apr 13, 2021		Soil	S21-Ap21979			X												
109	TP261_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21980			X												
110	TP261_0.4-0.5	Apr 13, 2021		Soil	S21-Ap21981			X												
111	TP260_0.5-0.6	Apr 13, 2021		Soil	S21-Ap21982			X												
112	BH280_0.2-0.3	Apr 13, 2021		Soil	S21-Ap21983			X												
113	BH289_0.2-0.3	Apr 13, 2021		Soil	S21-Ap21984			X												
114	BH242_0.2-0.3	Apr 13, 2021		Soil	S21-Ap21985			X												
115	TS	Apr 13, 2021		Water	S21-Ap21986			X												
116	TB	Apr 13, 2021		Water	S21-Ap21987			X												
117	BH290_0.4-0.5	Apr 13, 2021		Soil	S21-Ap21988			X												
118	BH240_0.4-0.5	Apr 13, 2021		Soil	S21-Ap21989			X												

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Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Phenols (IWRG 621)	Suite B13: OCP/PCB	Moisture Set	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B4	Eurofins Suite B6	Eurofins Suite B7A	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271										X										
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																				X
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
119	TP155_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21991			X												
120	TP155_0.3-0.4	Apr 13, 2021		Soil	S21-Ap21992			X												
121	TP234_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21993			X												
122	TP234_0.2-0.3	Apr 13, 2021		Soil	S21-Ap21994			X												
123	TP396_1.0-1.1	Apr 13, 2021		Soil	S21-Ap21995			X												
124	QC06_SOIL	Apr 13, 2021		Soil	S21-Ap21996	X				X									X	
125	UNLABELLED SAMPLE 1	Apr 13, 2021		Soil	S21-Ap21997			X												
126	UNLABELLED SAMPLE 2	Apr 13, 2021		Soil	S21-Ap21998			X												
127	TP259_0.0-0.1	Apr 13, 2021		Soil	S21-Ap22271			X												

eurofins | Environment Testing

ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 787245
Phone: 02 8245 0300
Fax:

Received: Apr 13, 2021 5:07 PM
Due: Apr 20, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Phenols (IWRG 621)	Suite B13: OCP/PCB	Moisture Set	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B4	Eurofins Suite B6	Eurofins Suite B7A	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271										X										
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																				X
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory - NATA Site # 25079																				
External Laboratory																				
128	TP259_0.3-0.4	Apr 13, 2021		Soil	S21-Ap22272			X												
129	TP391_0.3-0.4	Apr 13, 2021		Soil	S21-Ap22273			X												
Test Counts						16	1	59	26	15	24	2	11	66	15	6	6	6	4	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 blue colour, 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 '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 Advice.

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: weight for weight basis	grams per kilogram
Filter loading:	fibres/100 graticule areas
Reported Concentration:	fibres/mL
Flowrate:	L/min

Terms

Dry	Sample is dried by heating prior to analysis
LOR	Limit of Reporting
COC	Chain of Custody
SRA	Sample Receipt Advice
ISO	International Standards Organisation
AS	Australian Standards
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 (2009), including supporting document Recommended Procedures for Laboratory Analysis of Asbestos in Soil (2011)
NEPM	National Environment Protection (Assessment of Site Contamination) Measure, 2013 (as amended)
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded and/or sound condition. For the purposes of the NEPM, ACM is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
AF	Asbestos Fines. Asbestos containing materials, including friable, weathered and bonded materials, able to pass a 7mm x 7mm sieve. Considered under the NEPM as equivalent to “non-bonded / friable”.
FA	Fibrous Asbestos. Asbestos containing materials in a friable and/or severely weathered condition. For the purposes of the NEPM, FA is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
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.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres in the matrix.

Comments

S21-Ap21882, S21-Ap21903 & S21-Ap21905: 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	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
N/A	Not applicable

Asbestos Counter/Identifier:

Laxman Dias	Senior Analyst-Asbestos (NSW)

Authorised by:

Chamath JHM Annakkage	Senior Analyst-Asbestos (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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JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

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 and proficiency testing scheme providers reports.

Attention: **Ryan Lill**

Report **787245-S**
Project name KEMPS CREEK DSI
Project ID 60482
Received Date Apr 13, 2021

Client Sample ID			**TP129_0.0-0.1**	**TP129_0.2-0.3**	**TP149_0.0-0.1**	**TP150_0.0-0.1**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**S21-Ap21872**	**S21-Ap21873**	**S21-Ap21874**	**S21-Ap21875**
Date Sampled			**Apr 13, 2021**	**Apr 13, 2021**	**Apr 13, 2021**	**Apr 13, 2021**
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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	-	-
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	-	-
2-Fluorobiphenyl (surr.)	1	%	67	67	-	-
p-Terphenyl-d14 (surr.)	1	%	67	65	-	-
Heavy Metals						
Arsenic	2	mg/kg	11	-	11	9.4
Cadmium	0.4	mg/kg	< 0.4	-	< 0.4	< 0.4
Chromium	5	mg/kg	29	-	18	22
Copper	5	mg/kg	13	-	9.2	23
Lead	5	mg/kg	23	-	15	24
Mercury	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Nickel	5	mg/kg	8.3	-	7.9	11
Zinc	5	mg/kg	35	-	22	37
% Moisture	1	%	15	23	14	15

Client Sample ID			TP129_0.0-0.1	TP129_0.2-0.3	TP149_0.0-0.1	TP150_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap21872	S21-Ap21873	S21-Ap21874	S21-Ap21875
Date Sampled			Apr 13, 2021	Apr 13, 2021	Apr 13, 2021	Apr 13, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	-	< 20	< 20
TRH C10-C14	20	mg/kg	-	-	< 100	< 20
TRH C15-C28	50	mg/kg	-	-	< 250	< 50
TRH C29-C36	50	mg/kg	-	-	< 250	< 50
TRH C10-C36 (Total)	50	mg/kg	-	-	< 250	< 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	%	-	-	82	64
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	-	-	< 250	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	-	< 250	< 50
TRH >C16-C34	100	mg/kg	-	-	< 500	< 100
TRH >C34-C40	100	mg/kg	-	-	< 500	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	-	< 500	< 100
Acid Herbicides						
2.4-D	0.5	mg/kg	-	-	< 0.5	-
2.4-DB	0.5	mg/kg	-	-	< 0.5	-
2.4.5-T	0.5	mg/kg	-	-	< 0.5	-
2.4.5-TP	0.5	mg/kg	-	-	< 0.5	-
Actril (loxynil)	0.5	mg/kg	-	-	< 0.5	-
Dicamba	0.5	mg/kg	-	-	< 0.5	-
Dichlorprop	0.5	mg/kg	-	-	< 0.5	-
Dinitro-o-cresol	0.5	mg/kg	-	-	< 0.5	-
Dinoseb	0.5	mg/kg	-	-	< 0.5	-
MCPA	0.5	mg/kg	-	-	< 0.5	-
MCPB	0.5	mg/kg	-	-	< 0.5	-
Mecoprop	0.5	mg/kg	-	-	< 0.5	-
Warfarin (surr.)	1	%	-	-	100	-

Client Sample ID			TP150_0.2-0.3	TP151_0.0-0.1	TP152_0.0-0.1	TP152_0.3-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap21876	S21-Ap21877	S21-Ap21878	S21-Ap21879
Date Sampled			Apr 13, 2021	Apr 13, 2021	Apr 13, 2021	Apr 13, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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
Acenaphthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5

Client Sample ID			TP150_0.2-0.3	TP151_0.0-0.1	TP152_0.0-0.1	TP152_0.3-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap21876	S21-Ap21877	S21-Ap21878	S21-Ap21879
Date Sampled			Apr 13, 2021	Apr 13, 2021	Apr 13, 2021	Apr 13, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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
2-Fluorobiphenyl (surr.)	1	%	66	-	69	73
p-Terphenyl-d14 (surr.)	1	%	67	-	69	69
Heavy Metals						
Arsenic	2	mg/kg	-	-	-	22
Cadmium	0.4	mg/kg	-	-	-	< 0.4
Chromium	5	mg/kg	-	-	-	30
Copper	5	mg/kg	-	-	-	18
Lead	5	mg/kg	-	-	-	19
Mercury	0.1	mg/kg	-	-	-	< 0.1
Nickel	5	mg/kg	-	-	-	7.2
Zinc	5	mg/kg	-	-	-	25
% Moisture	1	%	18	17	14	22
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-C36 (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	%	-	71	61	-
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	-

Client Sample ID			TP150_0.2-0.3	TP151_0.0-0.1	TP152_0.0-0.1	TP152_0.3-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap21876	S21-Ap21877	S21-Ap21878	S21-Ap21879
Date Sampled			Apr 13, 2021	Apr 13, 2021	Apr 13, 2021	Apr 13, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C34-C40	100	mg/kg	-	< 100	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	< 100	-
Acid Herbicides						
2.4-D	0.5	mg/kg	-	-	< 0.5	-
2.4-DB	0.5	mg/kg	-	-	< 0.5	-
2.4.5-T	0.5	mg/kg	-	-	< 0.5	-
2.4.5-TP	0.5	mg/kg	-	-	< 0.5	-
Actril (loxynil)	0.5	mg/kg	-	-	< 0.5	-
Dicamba	0.5	mg/kg	-	-	< 0.5	-
Dichlorprop	0.5	mg/kg	-	-	< 0.5	-
Dinitro-o-cresol	0.5	mg/kg	-	-	< 0.5	-
Dinoseb	0.5	mg/kg	-	-	< 0.5	-
MCPA	0.5	mg/kg	-	-	< 0.5	-
MCPB	0.5	mg/kg	-	-	< 0.5	-
Mecoprop	0.5	mg/kg	-	-	< 0.5	-
Warfarin (surr.)	1	%	-	-	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	0.1	mg/kg	-	< 0.1	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.2	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.2	-	-
Dibutylchlorendate (surr.)	1	%	-	127	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	90	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	< 0.5	-	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1232	0.5	mg/kg	-	< 0.5	-	-
Aroclor-1242	0.5	mg/kg	-	< 0.5	-	-

Client Sample ID			TP150_0.2-0.3	TP151_0.0-0.1	TP152_0.0-0.1	TP152_0.3-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap21876	S21-Ap21877	S21-Ap21878	S21-Ap21879
Date Sampled			Apr 13, 2021	Apr 13, 2021	Apr 13, 2021	Apr 13, 2021
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
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	%	-	127	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	90	-	-

Client Sample ID			TP153_0.0-0.1	TP131_0.0-0.1	TP130_0.0-0.1	TP128_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap21880	S21-Ap21881	S21-Ap21882	S21-Ap21883
Date Sampled			Apr 13, 2021	Apr 13, 2021	Apr 13, 2021	Apr 13, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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
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
2-Fluorobiphenyl (surr.)	1	%	-	80	-	63
p-Terphenyl-d14 (surr.)	1	%	-	79	-	62
Heavy Metals						
Arsenic	2	mg/kg	-	10	-	13
Cadmium	0.4	mg/kg	-	< 0.4	-	< 0.4
Chromium	5	mg/kg	-	30	-	15
Copper	5	mg/kg	-	21	-	12
Lead	5	mg/kg	-	30	-	22
Mercury	0.1	mg/kg	-	< 0.1	-	< 0.1
Nickel	5	mg/kg	-	12	-	22
Zinc	5	mg/kg	-	41	-	51
% Moisture	1	%	14	16	13	13

Client Sample ID			TP153_0.0-0.1	TP131_0.0-0.1	TP130_0.0-0.1	TP128_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap21880	S21-Ap21881	S21-Ap21882	S21-Ap21883
Date Sampled			Apr 13, 2021	Apr 13, 2021	Apr 13, 2021	Apr 13, 2021
Test/Reference	LOR	Unit				
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-C36 (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	%	60	-	77	-
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	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	< 100	-
Acid Herbicides						
2.4-D	0.5	mg/kg	-	< 0.5	< 0.5	-
2.4-DB	0.5	mg/kg	-	< 0.5	< 0.5	-
2.4.5-T	0.5	mg/kg	-	< 0.5	< 0.5	-
2.4.5-TP	0.5	mg/kg	-	< 0.5	< 0.5	-
Actril (loxynil)	0.5	mg/kg	-	< 0.5	< 0.5	-
Dicamba	0.5	mg/kg	-	< 0.5	< 0.5	-
Dichlorprop	0.5	mg/kg	-	< 0.5	< 0.5	-
Dinitro-o-cresol	0.5	mg/kg	-	< 0.5	< 0.5	-
Dinoseb	0.5	mg/kg	-	< 0.5	< 0.5	-
MCPA	0.5	mg/kg	-	< 0.5	< 0.5	-
MCPB	0.5	mg/kg	-	< 0.5	< 0.5	-
Mecoprop	0.5	mg/kg	-	< 0.5	< 0.5	-
Warfarin (surr.)	1	%	-	104	96	-
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	-	-

Client Sample ID			TP153_0.0-0.1	TP131_0.0-0.1	TP130_0.0-0.1	TP128_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap21880	S21-Ap21881	S21-Ap21882	S21-Ap21883
Date Sampled			Apr 13, 2021	Apr 13, 2021	Apr 13, 2021	Apr 13, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
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	0.1	mg/kg	-	< 0.1	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.2	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.2	-	-
Dibutylchlorendate (surr.)	1	%	-	121	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	87	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	< 0.5	-	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	-
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	%	-	121	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	87	-	-
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	< 0.5	-	-	-
2.4-Dichlorophenol	0.5	mg/kg	< 0.5	-	-	-
2.4.5-Trichlorophenol	1	mg/kg	< 1	-	-	-
2.4.6-Trichlorophenol	1	mg/kg	< 1	-	-	-
2.6-Dichlorophenol	0.5	mg/kg	< 0.5	-	-	-
4-Chloro-3-methylphenol	1	mg/kg	< 1	-	-	-
Pentachlorophenol	1	mg/kg	< 1	-	-	-
Tetrachlorophenols - Total	10	mg/kg	< 10	-	-	-
Total Halogenated Phenol*	1	mg/kg	< 1	-	-	-
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	< 20	-	-	-
2-Methyl-4.6-dinitrophenol	5	mg/kg	< 5	-	-	-
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2	-	-	-
2-Nitrophenol	1	mg/kg	< 1	-	-	-
2.4-Dimethylphenol	0.5	mg/kg	< 0.5	-	-	-
2.4-Dinitrophenol	5	mg/kg	< 5	-	-	-
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4	-	-	-
4-Nitrophenol	5	mg/kg	< 5	-	-	-
Dinoseb	20	mg/kg	< 20	-	-	-
Phenol	0.5	mg/kg	< 0.5	-	-	-
Total Non-Halogenated Phenol*	20	mg/kg	< 20	-	-	-
Phenol-d6 (surr.)	1	%	63	-	-	-

Client Sample ID			TP127_0.0-0.1	TP144_0.0-0.1	TP143_0.0-0.1	TP142_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap21884	S21-Ap21885	S21-Ap21886	S21-Ap21887
Date Sampled			Apr 13, 2021	Apr 13, 2021	Apr 13, 2021	Apr 13, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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	-	-
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	-	-
2-Fluorobiphenyl (surr.)	1	%	72	70	-	-
p-Terphenyl-d14 (surr.)	1	%	67	66	-	-
Heavy Metals						
Arsenic	2	mg/kg	6.9	11	-	-
Cadmium	0.4	mg/kg	< 0.4	< 0.4	-	-
Chromium	5	mg/kg	16	11	-	-
Copper	5	mg/kg	35	13	-	-
Lead	5	mg/kg	24	17	-	-
Mercury	0.1	mg/kg	< 0.1	< 0.1	-	-
Nickel	5	mg/kg	9.6	9.0	-	-
Zinc	5	mg/kg	47	38	-	-
% Moisture	1	%	14	13	12	15
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-C36 (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	%	-	-	57	-

Client Sample ID			TP127_0.0-0.1	TP144_0.0-0.1	TP143_0.0-0.1	TP142_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap21884	S21-Ap21885	S21-Ap21886	S21-Ap21887
Date Sampled			Apr 13, 2021	Apr 13, 2021	Apr 13, 2021	Apr 13, 2021
Test/Reference	LOR	Unit				
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	-
TRH >C10-C40 (total)*	100	mg/kg	-	-	< 100	-
Acid Herbicides						
2.4-D	0.5	mg/kg	-	-	< 0.5	-
2.4-DB	0.5	mg/kg	-	-	< 0.5	-
2.4.5-T	0.5	mg/kg	-	-	< 0.5	-
2.4.5-TP	0.5	mg/kg	-	-	< 0.5	-
Actril (loxynil)	0.5	mg/kg	-	-	< 0.5	-
Dicamba	0.5	mg/kg	-	-	< 0.5	-
Dichlorprop	0.5	mg/kg	-	-	< 0.5	-
Dinitro-o-cresol	0.5	mg/kg	-	-	< 0.5	-
Dinoseb	0.5	mg/kg	-	-	< 0.5	-
MCPA	0.5	mg/kg	-	-	< 0.5	-
MCPB	0.5	mg/kg	-	-	< 0.5	-
Mecoprop	0.5	mg/kg	-	-	< 0.5	-
Warfarin (surr.)	1	%	-	-	104	-
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	0.1	mg/kg	-	-	-	< 0.1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	-	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	-	< 0.2
Dibutylchlorendate (surr.)	1	%	-	-	-	103
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	78

Client Sample ID			TP127_0.0-0.1	TP144_0.0-0.1	TP143_0.0-0.1	TP142_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap21884	S21-Ap21885	S21-Ap21886	S21-Ap21887
Date Sampled			Apr 13, 2021	Apr 13, 2021	Apr 13, 2021	Apr 13, 2021
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1221	0.1	mg/kg	-	-	-	< 0.1
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	%	-	-	-	103
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	78

Client Sample ID			TP142_0.2-0.3	TP141_0.3-0.4	TP140_0.0-0.1	TP331_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap21888	S21-Ap21889	S21-Ap21890	S21-Ap21891
Date Sampled			Apr 13, 2021	Apr 13, 2021	Apr 13, 2021	Apr 13, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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
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
2-Fluorobiphenyl (surr.)	1	%	73	-	74	73
p-Terphenyl-d14 (surr.)	1	%	69	-	70	69
Heavy Metals						
Arsenic	2	mg/kg	16	-	-	14
Cadmium	0.4	mg/kg	< 0.4	-	-	< 0.4
Chromium	5	mg/kg	25	-	-	24
Copper	5	mg/kg	27	-	-	29
Lead	5	mg/kg	20	-	-	36
Mercury	0.1	mg/kg	< 0.1	-	-	< 0.1
Nickel	5	mg/kg	7.1	-	-	16
Zinc	5	mg/kg	30	-	-	73

Client Sample ID			TP142_0.2-0.3	TP141_0.3-0.4	TP140_0.0-0.1	TP331_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap21888	S21-Ap21889	S21-Ap21890	S21-Ap21891
Date Sampled			Apr 13, 2021	Apr 13, 2021	Apr 13, 2021	Apr 13, 2021
Test/Reference	LOR	Unit				
% Moisture	1	%	19	22	14	16
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-C36 (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	%	-	58	62	-
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	-
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	< 100	-
Acid Herbicides						
2.4-D	0.5	mg/kg	-	-	< 0.5	-
2.4-DB	0.5	mg/kg	-	-	< 0.5	-
2.4.5-T	0.5	mg/kg	-	-	< 0.5	-
2.4.5-TP	0.5	mg/kg	-	-	< 0.5	-
Actril (loxynil)	0.5	mg/kg	-	-	< 0.5	-
Dicamba	0.5	mg/kg	-	-	< 0.5	-
Dichlorprop	0.5	mg/kg	-	-	< 0.5	-
Dinitro-o-cresol	0.5	mg/kg	-	-	< 0.5	-
Dinoseb	0.5	mg/kg	-	-	< 0.5	-
MCPA	0.5	mg/kg	-	-	< 0.5	-
MCPB	0.5	mg/kg	-	-	< 0.5	-
Mecoprop	0.5	mg/kg	-	-	< 0.5	-
Warfarin (surr.)	1	%	-	-	96	-

Client Sample ID			TP138_0.0-0.1	TP154_0.0-0.1	TP139_0.0-0.1	BH241_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap21892	S21-Ap21893	S21-Ap21894	S21-Ap21895
Date Sampled			Apr 13, 2021	Apr 13, 2021	Apr 13, 2021	Apr 13, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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
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
2-Fluorobiphenyl (surr.)	1	%	71	75	-	83
p-Terphenyl-d14 (surr.)	1	%	66	69	-	80
Heavy Metals						
Arsenic	2	mg/kg	11	-	11	9.4
Cadmium	0.4	mg/kg	< 0.4	-	< 0.4	< 0.4
Chromium	5	mg/kg	24	-	24	23
Copper	5	mg/kg	42	-	24	59
Lead	5	mg/kg	25	-	20	25
Mercury	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Nickel	5	mg/kg	14	-	10	13
Zinc	5	mg/kg	70	-	51	87
% Moisture	1	%	14	15	16	21
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-C36 (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	%	-	55	92	-

Client Sample ID			TP138_0.0-0.1	TP154_0.0-0.1	TP139_0.0-0.1	BH241_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap21892	S21-Ap21893	S21-Ap21894	S21-Ap21895
Date Sampled			Apr 13, 2021	Apr 13, 2021	Apr 13, 2021	Apr 13, 2021
Test/Reference	LOR	Unit				
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	-
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	< 100	-
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	0.1	mg/kg	-	< 0.1	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.2	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.2	-	-
Dibutylchlorendate (surr.)	1	%	-	67	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	80	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	< 0.5	-	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	-
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	%	-	67	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	80	-	-

Client Sample ID			TP147_0.0-0.1	TP146_0.0-0.1	TP145_0.0-0.1	TP126_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap21896	S21-Ap21897	S21-Ap21898	S21-Ap21899
Date Sampled			Apr 13, 2021	Apr 13, 2021	Apr 13, 2021	Apr 13, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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
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
2-Fluorobiphenyl (surr.)	1	%	81	80	-	85
p-Terphenyl-d14 (surr.)	1	%	92	86	-	93
Heavy Metals						
Arsenic	2	mg/kg	11	9.4	-	13
Cadmium	0.4	mg/kg	< 0.4	< 0.4	-	< 0.4
Chromium	5	mg/kg	25	19	-	23
Copper	5	mg/kg	30	30	-	23
Lead	5	mg/kg	26	27	-	19
Mercury	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Nickel	5	mg/kg	14	15	-	10
Zinc	5	mg/kg	60	73	-	45
% Moisture	1	%	17	16	22	12
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-C36 (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	%	69	92	91	-

Client Sample ID			TP147_0.0-0.1	TP146_0.0-0.1	TP145_0.0-0.1	TP126_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap21896	S21-Ap21897	S21-Ap21898	S21-Ap21899
Date Sampled			Apr 13, 2021	Apr 13, 2021	Apr 13, 2021	Apr 13, 2021
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	< 100	< 100	-
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	-
Acid Herbicides						
2.4-D	0.5	mg/kg	-	-	< 0.5	< 0.5
2.4-DB	0.5	mg/kg	-	-	< 0.5	< 0.5
2.4.5-T	0.5	mg/kg	-	-	< 0.5	< 0.5
2.4.5-TP	0.5	mg/kg	-	-	< 0.5	< 0.5
Actril (loxynil)	0.5	mg/kg	-	-	< 0.5	< 0.5
Dicamba	0.5	mg/kg	-	-	< 0.5	< 0.5
Dichlorprop	0.5	mg/kg	-	-	< 0.5	< 0.5
Dinitro-o-cresol	0.5	mg/kg	-	-	< 0.5	< 0.5
Dinoseb	0.5	mg/kg	-	-	< 0.5	< 0.5
MCPA	0.5	mg/kg	-	-	< 0.5	< 0.5
MCPB	0.5	mg/kg	-	-	< 0.5	< 0.5
Mecoprop	0.5	mg/kg	-	-	< 0.5	< 0.5
Warfarin (surr.)	1	%	-	-	101	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	0.1	mg/kg	-	-	< 0.1	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	< 0.2	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	< 0.2	-
Dibutylchlorendate (surr.)	1	%	-	-	104	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	87	-

Client Sample ID			TP147_0.0-0.1	TP146_0.0-0.1	TP145_0.0-0.1	TP126_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap21896	S21-Ap21897	S21-Ap21898	S21-Ap21899
Date Sampled			Apr 13, 2021	Apr 13, 2021	Apr 13, 2021	Apr 13, 2021
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1221	0.1	mg/kg	-	-	< 0.1	-
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	%	-	-	104	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	87	-

Client Sample ID			TP124_0.0-0.1	QC05_SOIL	TP309_0.0-0.2	TP310_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap21900	S21-Ap21901	S21-Ap21902	S21-Ap21903
Date Sampled			Apr 13, 2021	Apr 13, 2021	Apr 13, 2021	Apr 13, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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
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
2-Fluorobiphenyl (surr.)	1	%	86	73	-	72
p-Terphenyl-d14 (surr.)	1	%	92	77	-	67
Heavy Metals						
Arsenic	2	mg/kg	10	11	14	4.8
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	24	26	20	15
Copper	5	mg/kg	26	31	17	18
Lead	5	mg/kg	26	23	16	15
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	14	14	8.8	16
Zinc	5	mg/kg	56	59	39	39

Client Sample ID			TP124_0.0-0.1	QC05_SOIL	TP309_0.0-0.2	TP310_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap21900	S21-Ap21901	S21-Ap21902	S21-Ap21903
Date Sampled			Apr 13, 2021	Apr 13, 2021	Apr 13, 2021	Apr 13, 2021
Test/Reference	LOR	Unit				
% Moisture	1	%	16	15	14	20
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-C36 (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	%	65	97	95	-
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	28	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	28	< 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	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	-
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	0.1	mg/kg	-	-	-	< 0.1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	-	< 0.2

Client Sample ID			TP124_0.0-0.1	QC05_SOIL	TP309_0.0-0.2	TP310_0.0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap21900	S21-Ap21901	S21-Ap21902	S21-Ap21903
Date Sampled			Apr 13, 2021	Apr 13, 2021	Apr 13, 2021	Apr 13, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	-	< 0.2
Dibutylchlorendate (surr.)	1	%	-	-	-	67
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	74
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1221	0.1	mg/kg	-	-	-	< 0.1
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	%	-	-	-	67
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	74
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	-	-	< 0.5	-
2.4-Dichlorophenol	0.5	mg/kg	-	-	< 0.5	-
2.4.5-Trichlorophenol	1	mg/kg	-	-	< 1	-
2.4.6-Trichlorophenol	1	mg/kg	-	-	< 1	-
2.6-Dichlorophenol	0.5	mg/kg	-	-	< 0.5	-
4-Chloro-3-methylphenol	1	mg/kg	-	-	< 1	-
Pentachlorophenol	1	mg/kg	-	-	< 1	-
Tetrachlorophenols - Total	10	mg/kg	-	-	< 10	-
Total Halogenated Phenol*	1	mg/kg	-	-	< 1	-
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	-	-	< 20	-
2-Methyl-4.6-dinitrophenol	5	mg/kg	-	-	< 5	-
2-Methylphenol (o-Cresol)	0.2	mg/kg	-	-	< 0.2	-
2-Nitrophenol	1	mg/kg	-	-	< 1	-
2.4-Dimethylphenol	0.5	mg/kg	-	-	< 0.5	-
2.4-Dinitrophenol	5	mg/kg	-	-	< 5	-
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	-	-	< 0.4	-
4-Nitrophenol	5	mg/kg	-	-	< 5	-
Dinoseb	20	mg/kg	-	-	< 20	-
Phenol	0.5	mg/kg	-	-	< 0.5	-
Total Non-Halogenated Phenol*	20	mg/kg	-	-	< 20	-
Phenol-d6 (surr.)	1	%	-	-	75	-

Client Sample ID			TP398_0.0-0.2	TP396_0.0-0.1	TP396_0.4-0.5	TP395_0.3-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap21904	S21-Ap21905	S21-Ap21906	S21-Ap21908
Date Sampled			Apr 13, 2021	Apr 13, 2021	Apr 13, 2021	Apr 13, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	340	-	< 0.5	26
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	340	-	0.6	26
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	340	-	1.2	26
Acenaphthene	0.5	mg/kg	21	-	< 0.5	2.5
Acenaphthylene	0.5	mg/kg	0.5	-	< 0.5	< 0.5
Anthracene	0.5	mg/kg	78	-	< 0.5	5.1
Benz(a)anthracene	0.5	mg/kg	220	-	< 0.5	19
Benzo(a)pyrene	0.5	mg/kg	210	-	< 0.5	17
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	190	-	< 0.5	18
Benzo(g.h.i)perylene	0.5	mg/kg	190	-	< 0.5	12
Benzo(k)fluoranthene	0.5	mg/kg	150	-	< 0.5	12
Chrysene	0.5	mg/kg	210	-	< 0.5	17
Dibenz(a.h)anthracene	0.5	mg/kg	57	-	< 0.5	2.8
Fluoranthene	0.5	mg/kg	560	-	< 0.5	47
Fluorene	0.5	mg/kg	12	-	< 0.5	1.6
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	160	-	< 0.5	8.7
Naphthalene	0.5	mg/kg	0.9	-	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	270	-	< 0.5	32
Pyrene	0.5	mg/kg	480	-	< 0.5	38
Total PAH*	0.5	mg/kg	2809.4	-	< 0.5	232.7
2-Fluorobiphenyl (surr.)	1	%	67	-	79	85
p-Terphenyl-d14 (surr.)	1	%	57	-	91	87
Heavy Metals						
Arsenic	2	mg/kg	2.0	3.9	3.8	6.5
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	9.5	18	18	20
Copper	5	mg/kg	29	41	41	31
Lead	5	mg/kg	14	27	13	22
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	20	15	14	19
Zinc	5	mg/kg	45	89	81	68
% Moisture	1	%	8.9	25	15	22
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	-	< 20
TRH C10-C14	20	mg/kg	< 200	< 20	-	< 20
TRH C15-C28	50	mg/kg	7200	74	-	240
TRH C29-C36	50	mg/kg	1800	94	-	160
TRH C10-C36 (Total)	50	mg/kg	9000	168	-	400
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	%	64	75	-	51

Client Sample ID			TP398_0.0-0.2	TP396_0.0-0.1	TP396_0.4-0.5	TP395_0.3-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap21904	S21-Ap21905	S21-Ap21906	S21-Ap21908
Date Sampled			Apr 13, 2021	Apr 13, 2021	Apr 13, 2021	Apr 13, 2021
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	< 500	< 50	-	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 500	< 50	-	< 50
TRH >C16-C34	100	mg/kg	9500	140	-	450
TRH >C34-C40	100	mg/kg	1200	< 100	-	110
TRH >C10-C40 (total)*	100	mg/kg	10700	140	-	560

Client Sample ID			TP397_0.0-0.1	TP397_0.3-0.4	QC07_SOIL	TP390_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap21909	S21-Ap21910	S21-Ap21911	S21-Ap21912
Date Sampled			Apr 13, 2021	Apr 13, 2021	Apr 13, 2021	Apr 13, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	0.9	< 2
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	1.2	< 2
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.5	3.7
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 1
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 1
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 1
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	0.8	< 2
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	0.7	< 2
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	0.7	1.2
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	0.5	1.1
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	0.6	1.3
Chrysene	0.5	mg/kg	< 0.5	< 0.5	0.9	< 2
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 1
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	2.1	1.1
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 1
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 2
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 1
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	1.2	< 1
Pyrene	0.5	mg/kg	< 0.5	< 0.5	1.8	1.3
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	9.3	6
2-Fluorobiphenyl (surr.)	1	%	70	72	76	80
p-Terphenyl-d14 (surr.)	1	%	72	60	87	80
Heavy Metals						
Arsenic	2	mg/kg	-	4.6	5.4	5.0
Cadmium	0.4	mg/kg	-	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	-	18	19	17
Copper	5	mg/kg	-	88	36	21
Lead	5	mg/kg	-	78	22	20
Mercury	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	-	27	22	17
Zinc	5	mg/kg	-	270	95	60
% Moisture	1	%	29	20	22	15

Client Sample ID			TP397_0.0-0.1	TP397_0.3-0.4	QC07_SOIL	TP390_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap21909	S21-Ap21910	S21-Ap21911	S21-Ap21912
Date Sampled			Apr 13, 2021	Apr 13, 2021	Apr 13, 2021	Apr 13, 2021
Test/Reference	LOR	Unit				
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	77	-	61	-
TRH C29-C36	50	mg/kg	69	-	72	-
TRH C10-C36 (Total)	50	mg/kg	146	-	133	-
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	%	82	-	69	-
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	130	-	120	-
TRH >C34-C40	100	mg/kg	< 100	-	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	130	-	120	-
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	0.1	mg/kg	< 0.1	< 0.1	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2	< 0.2	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2	< 0.2	-	-
Dibutylchlorendate (surr.)	1	%	92	72	-	-
Tetrachloro-m-xylene (surr.)	1	%	77	68	-	-

Client Sample ID			TP397_0.0-0.1	TP397_0.3-0.4	QC07_SOIL	TP390_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap21909	S21-Ap21910	S21-Ap21911	S21-Ap21912
Date Sampled			Apr 13, 2021	Apr 13, 2021	Apr 13, 2021	Apr 13, 2021
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	< 0.5	< 0.5	-	-
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	-	-
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	72	-	-
Tetrachloro-m-xylene (surr.)	1	%	77	68	-	-

Client Sample ID			TP391_0.0-0.1	TP391_0.5-0.6	TP235_0.0-0.05	TP236_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap21913	S21-Ap21914	S21-Ap21915	S21-Ap21916
Date Sampled			Apr 13, 2021	Apr 13, 2021	Apr 13, 2021	Apr 13, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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
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
2-Fluorobiphenyl (surr.)	1	%	-	95	75	72
p-Terphenyl-d14 (surr.)	1	%	-	113	85	86
Heavy Metals						
Arsenic	2	mg/kg	4.9	-	6.3	8.9
Cadmium	0.4	mg/kg	< 0.4	-	< 0.4	< 0.4
Chromium	5	mg/kg	14	-	34	24
Copper	5	mg/kg	13	-	21	24
Lead	5	mg/kg	13	-	20	18
Mercury	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Nickel	5	mg/kg	7.7	-	12	9.1
Zinc	5	mg/kg	26	-	36	60

Client Sample ID			TP391_0.0-0.1	TP391_0.5-0.6	TP235_0.0-0.05	TP236_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap21913	S21-Ap21914	S21-Ap21915	S21-Ap21916
Date Sampled			Apr 13, 2021	Apr 13, 2021	Apr 13, 2021	Apr 13, 2021
Test/Reference	LOR	Unit				
% Moisture	1	%	6.9	11	18	14
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-C36 (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	%	INT	60	-	82
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
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	-	< 100

Client Sample ID			BH393_0.0-0.1	BH392_0.0-0.1	BH394_0.0-0.1	TP260_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap21917	S21-Ap21918	S21-Ap21919	S21-Ap21920
Date Sampled			Apr 13, 2021	Apr 13, 2021	Apr 13, 2021	Apr 13, 2021
Test/Reference	LOR	Unit				
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

Client Sample ID			BH393_0.0-0.1	BH392_0.0-0.1	BH394_0.0-0.1	TP260_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap21917	S21-Ap21918	S21-Ap21919	S21-Ap21920
Date Sampled			Apr 13, 2021	Apr 13, 2021	Apr 13, 2021	Apr 13, 2021
Test/Reference	LOR	Unit				
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	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	76	68	69	76
p-Terphenyl-d14 (surr.)	1	%	64	73	64	87
Heavy Metals						
Arsenic	2	mg/kg	< 2	13	9.8	7.0
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	83	28	22	24
Copper	5	mg/kg	13	23	26	27
Lead	5	mg/kg	5.8	22	26	21
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	90	11	11	11
Zinc	5	mg/kg	72	80	120	70
% Moisture	1	%	8.4	12	8.1	10.0
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	140	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	200	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	340	< 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	%	52	77	60	68
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	310	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	310	< 100
Phenols (Halogenated)						
2-Chlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
2.4-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
2.4.5-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	-
2.4.6-Trichlorophenol	1	mg/kg	< 1	< 1	< 1	-
2.6-Dichlorophenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
4-Chloro-3-methylphenol	1	mg/kg	< 1	< 1	< 1	-
Pentachlorophenol	1	mg/kg	< 1	< 1	< 1	-
Tetrachlorophenols - Total	10	mg/kg	< 10	< 10	< 10	-
Total Halogenated Phenol*	1	mg/kg	< 1	< 1	< 1	-

Client Sample ID			BH393_0.0-0.1	BH392_0.0-0.1	BH394_0.0-0.1	TP260_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap21917	S21-Ap21918	S21-Ap21919	S21-Ap21920
Date Sampled			Apr 13, 2021	Apr 13, 2021	Apr 13, 2021	Apr 13, 2021
Test/Reference	LOR	Unit				
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	< 20	< 20	< 20	-
2-Methyl-4.6-dinitrophenol	5	mg/kg	< 5	< 5	< 5	-
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
2-Nitrophenol	1	mg/kg	< 1	< 1	< 1	-
2.4-Dimethylphenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
2.4-Dinitrophenol	5	mg/kg	< 5	< 5	< 5	-
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4	< 0.4	< 0.4	-
4-Nitrophenol	5	mg/kg	< 5	< 5	< 5	-
Dinoseb	20	mg/kg	< 20	< 20	< 20	-
Phenol	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Total Non-Halogenated Phenol*	20	mg/kg	< 20	< 20	< 20	-
Phenol-d6 (surr.)	1	%	65	58	63	-
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	-	-	-	< 5
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	-	-	-	< 5
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	-	-	-	< 5
13C4-PFBA (surr.)	1	%	-	-	-	71
13C5-PFPeA (surr.)	1	%	-	-	-	88
13C5-PFHxA (surr.)	1	%	-	-	-	83
13C4-PFHpA (surr.)	1	%	-	-	-	78
13C8-PFOA (surr.)	1	%	-	-	-	81
13C5-PFNA (surr.)	1	%	-	-	-	104
13C6-PFDA (surr.)	1	%	-	-	-	127
13C2-PFUnDA (surr.)	1	%	-	-	-	114
13C2-PFDoDA (surr.)	1	%	-	-	-	114
13C2-PFTeDA (surr.)	1	%	-	-	-	110
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	-	-	-	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	-	-	-	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	-	-	-	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)[N11]	5	ug/kg	-	-	-	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)[N11]	5	ug/kg	-	-	-	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	-	-	-	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	-	-	-	< 10
13C8-FOSA (surr.)	1	%	-	-	-	104
D3-N-MeFOSA (surr.)	1	%	-	-	-	94
D5-N-EtFOSA (surr.)	1	%	-	-	-	89
D7-N-MeFOSE (surr.)	1	%	-	-	-	95

Client Sample ID			BH393_0.0-0.1	BH392_0.0-0.1	BH394_0.0-0.1	TP260_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap21917	S21-Ap21918	S21-Ap21919	S21-Ap21920
Date Sampled			Apr 13, 2021	Apr 13, 2021	Apr 13, 2021	Apr 13, 2021
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
D9-N-EtFOSE (surr.)	1	%	-	-	-	90
D5-N-EtFOSAA (surr.)	1	%	-	-	-	95
D3-N-MeFOSAA (surr.)	1	%	-	-	-	100
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	-	-	-	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	-	-	-	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	-	-	-	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	-	-	-	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	-	-	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	-	-	-	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	-	-	< 5
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	-	-	-	< 5
13C3-PFBS (surr.)	1	%	-	-	-	102
18O2-PFHxS (surr.)	1	%	-	-	-	90
13C8-PFOS (surr.)	1	%	-	-	-	89
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)[N11]	10	ug/kg	-	-	-	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	-	-	-	< 5
13C2-4:2 FTS (surr.)	1	%	-	-	-	115
13C2-6:2 FTSA (surr.)	1	%	-	-	-	119
13C2-8:2 FTSA (surr.)	1	%	-	-	-	107
13C2-10:2 FTSA (surr.)	1	%	-	-	-	100
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	-	-	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	-	-	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	-	-	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	-	-	< 10
Sum of PFASs (n=30)*	50	ug/kg	-	-	-	< 50

Client Sample ID			BH280_0.0-0.1	BH289_0.0-0.1	BH242_0.0-0.1	BH277_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap21922	S21-Ap21923	S21-Ap21924	S21-Ap21927
Date Sampled			Apr 13, 2021	Apr 13, 2021	Apr 13, 2021	Apr 13, 2021
Test/Reference	LOR	Unit				
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

Client Sample ID			BH280_0.0-0.1	BH289_0.0-0.1	BH242_0.0-0.1	BH277_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap21922	S21-Ap21923	S21-Ap21924	S21-Ap21927
Date Sampled			Apr 13, 2021	Apr 13, 2021	Apr 13, 2021	Apr 13, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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	%	65	85	70	73
p-Terphenyl-d14 (surr.)	1	%	80	95	82	74
Heavy Metals						
Arsenic	2	mg/kg	12	-	11	9.5
Cadmium	0.4	mg/kg	< 0.4	-	< 0.4	< 0.4
Chromium	5	mg/kg	16	-	21	21
Copper	5	mg/kg	28	-	31	22
Lead	5	mg/kg	17	-	18	20
Mercury	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Nickel	5	mg/kg	7.8	-	12	7.6
Zinc	5	mg/kg	47	-	70	45
% Moisture	1	%	18	20	17	11
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-C36 (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	%	63	95	-	-
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	-	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	-	-

Client Sample ID			BH280_0.0-0.1	BH289_0.0-0.1	BH242_0.0-0.1	BH277_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap21922	S21-Ap21923	S21-Ap21924	S21-Ap21927
Date Sampled			Apr 13, 2021	Apr 13, 2021	Apr 13, 2021	Apr 13, 2021
Test/Reference	LOR	Unit				
Acid Herbicides						
2.4-D	0.5	mg/kg	-	< 0.5	-	< 0.5
2.4-DB	0.5	mg/kg	-	< 0.5	-	< 0.5
2.4.5-T	0.5	mg/kg	-	< 0.5	-	< 0.5
2.4.5-TP	0.5	mg/kg	-	< 0.5	-	< 0.5
Actril (loxynil)	0.5	mg/kg	-	< 0.5	-	< 0.5
Dicamba	0.5	mg/kg	-	< 0.5	-	< 0.5
Dichlorprop	0.5	mg/kg	-	< 0.5	-	< 0.5
Dinitro-o-cresol	0.5	mg/kg	-	< 0.5	-	< 0.5
Dinoseb	0.5	mg/kg	-	< 0.5	-	< 0.5
MCPA	0.5	mg/kg	-	< 0.5	-	< 0.5
MCPB	0.5	mg/kg	-	< 0.5	-	< 0.5
Mecoprop	0.5	mg/kg	-	< 0.5	-	< 0.5
Warfarin (surr.)	1	%	-	103	-	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	0.1	mg/kg	-	-	-	< 0.1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	-	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	-	< 0.2
Dibutylchlorendate (surr.)	1	%	-	-	-	104
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	79
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1221	0.1	mg/kg	-	-	-	< 0.1
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

Client Sample ID			BH280_0.0-0.1	BH289_0.0-0.1	BH242_0.0-0.1	BH277_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap21922	S21-Ap21923	S21-Ap21924	S21-Ap21927
Date Sampled			Apr 13, 2021	Apr 13, 2021	Apr 13, 2021	Apr 13, 2021
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Total PCB*	0.5	mg/kg	-	-	-	< 0.5
Dibutylchlorendate (surr.)	1	%	-	-	-	104
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	79

Client Sample ID			BH277_0.4-0.5	BH292_0.0-0.1	BH292_0.4-0.5	BH239_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap21928	S21-Ap21929	S21-Ap21930	S21-Ap21931
Date Sampled			Apr 13, 2021	Apr 13, 2021	Apr 13, 2021	Apr 13, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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
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
2-Fluorobiphenyl (surr.)	1	%	-	68	69	66
p-Terphenyl-d14 (surr.)	1	%	-	82	86	67
Heavy Metals						
Arsenic	2	mg/kg	14	6.7	-	6.6
Cadmium	0.4	mg/kg	< 0.4	< 0.4	-	< 0.4
Chromium	5	mg/kg	26	23	-	22
Copper	5	mg/kg	24	23	-	46
Lead	5	mg/kg	20	17	-	21
Mercury	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Nickel	5	mg/kg	7.5	8.5	-	11
Zinc	5	mg/kg	44	46	-	72
% Moisture	1	%	17	15	20	14
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-C36 (Total)	50	mg/kg	-	< 50	-	-

Client Sample ID			BH277_0.4-0.5	BH292_0.0-0.1	BH292_0.4-0.5	BH239_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap21928	S21-Ap21929	S21-Ap21930	S21-Ap21931
Date Sampled			Apr 13, 2021	Apr 13, 2021	Apr 13, 2021	Apr 13, 2021
Test/Reference	LOR	Unit				
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	%	-	109	-	-
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	-	-
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	-	-
Acid Herbicides						
2.4-D	0.5	mg/kg	-	-	-	< 0.5
2.4-DB	0.5	mg/kg	-	-	-	< 0.5
2.4.5-T	0.5	mg/kg	-	-	-	< 0.5
2.4.5-TP	0.5	mg/kg	-	-	-	< 0.5
Actril (loxynil)	0.5	mg/kg	-	-	-	< 0.5
Dicamba	0.5	mg/kg	-	-	-	< 0.5
Dichlorprop	0.5	mg/kg	-	-	-	< 0.5
Dinitro-o-cresol	0.5	mg/kg	-	-	-	< 0.5
Dinoseb	0.5	mg/kg	-	-	-	< 0.5
MCPA	0.5	mg/kg	-	-	-	< 0.5
MCPB	0.5	mg/kg	-	-	-	< 0.5
Mecoprop	0.5	mg/kg	-	-	-	< 0.5
Warfarin (surr.)	1	%	-	-	-	98

Client Sample ID			BH239_0.4-0.5	BH278_0.0-0.1	BH278_0.4-0.5	BH291_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap21932	S21-Ap21933	S21-Ap21934	S21-Ap21935
Date Sampled			Apr 13, 2021	Apr 13, 2021	Apr 13, 2021	Apr 13, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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
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

Client Sample ID			BH239_0.4-0.5	BH278_0.0-0.1	BH278_0.4-0.5	BH291_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap21932	S21-Ap21933	S21-Ap21934	S21-Ap21935
Date Sampled			Apr 13, 2021	Apr 13, 2021	Apr 13, 2021	Apr 13, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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
2-Fluorobiphenyl (surr.)	1	%	-	73	70	75
p-Terphenyl-d14 (surr.)	1	%	-	70	70	67
Heavy Metals						
Arsenic	2	mg/kg	7.6	10	-	8.7
Cadmium	0.4	mg/kg	< 0.4	< 0.4	-	< 0.4
Chromium	5	mg/kg	24	23	-	22
Copper	5	mg/kg	26	31	-	22
Lead	5	mg/kg	24	19	-	18
Mercury	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Nickel	5	mg/kg	9.6	9.0	-	7.3
Zinc	5	mg/kg	44	57	-	50
% Moisture	1	%	18	19	20	18
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-C36 (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	%	-	71	-	-
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	-	-
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	-	-

Client Sample ID			BH239_0.4-0.5	BH278_0.0-0.1	BH278_0.4-0.5	BH291_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap21932	S21-Ap21933	S21-Ap21934	S21-Ap21935
Date Sampled			Apr 13, 2021	Apr 13, 2021	Apr 13, 2021	Apr 13, 2021
Test/Reference	LOR	Unit				
Acid Herbicides						
2.4-D	0.5	mg/kg	-	< 0.5	-	-
2.4-DB	0.5	mg/kg	-	< 0.5	-	-
2.4.5-T	0.5	mg/kg	-	< 0.5	-	-
2.4.5-TP	0.5	mg/kg	-	< 0.5	-	-
Actril (loxynil)	0.5	mg/kg	-	< 0.5	-	-
Dicamba	0.5	mg/kg	-	< 0.5	-	-
Dichlorprop	0.5	mg/kg	-	< 0.5	-	-
Dinitro-o-cresol	0.5	mg/kg	-	< 0.5	-	-
Dinoseb	0.5	mg/kg	-	< 0.5	-	-
MCPA	0.5	mg/kg	-	< 0.5	-	-
MCPB	0.5	mg/kg	-	< 0.5	-	-
Mecoprop	0.5	mg/kg	-	< 0.5	-	-
Warfarin (surr.)	1	%	-	100	-	-
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	0.1	mg/kg	-	-	-	< 0.1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	-	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	-	< 0.2
Dibutylchlorendate (surr.)	1	%	-	-	-	94
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	76
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1221	0.1	mg/kg	-	-	-	< 0.1
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

Client Sample ID			BH239_0.4-0.5	BH278_0.0-0.1	BH278_0.4-0.5	BH291_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap21932	S21-Ap21933	S21-Ap21934	S21-Ap21935
Date Sampled			Apr 13, 2021	Apr 13, 2021	Apr 13, 2021	Apr 13, 2021
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Total PCB*	0.5	mg/kg	-	-	-	< 0.5
Dibutylchlorendate (surr.)	1	%	-	-	-	94
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	76

Client Sample ID			BH291_0.4-0.5	BH279_0.0-0.1	BH279_0.4-0.5	BH290_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap21936	S21-Ap21937	S21-Ap21938	S21-Ap21939
Date Sampled			Apr 13, 2021	Apr 13, 2021	Apr 13, 2021	Apr 13, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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
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
2-Fluorobiphenyl (surr.)	1	%	-	71	76	74
p-Terphenyl-d14 (surr.)	1	%	-	66	72	69
Heavy Metals						
Arsenic	2	mg/kg	8.6	11	-	16
Cadmium	0.4	mg/kg	< 0.4	< 0.4	-	< 0.4
Chromium	5	mg/kg	24	23	-	29
Copper	5	mg/kg	20	26	-	24
Lead	5	mg/kg	16	19	-	27
Mercury	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Nickel	5	mg/kg	6.8	8.1	-	9.6
Zinc	5	mg/kg	30	53	-	66
% Moisture	1	%	22	16	20	18
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-C36 (Total)	50	mg/kg	-	< 50	-	-

Client Sample ID			BH291_0.4-0.5	BH279_0.0-0.1	BH279_0.4-0.5	BH290_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap21936	S21-Ap21937	S21-Ap21938	S21-Ap21939
Date Sampled			Apr 13, 2021	Apr 13, 2021	Apr 13, 2021	Apr 13, 2021
Test/Reference	LOR	Unit				
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	%	-	56	-	-
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	-	-
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	-	-
Acid Herbicides						
2.4-D	0.5	mg/kg	-	< 0.5	-	-
2.4-DB	0.5	mg/kg	-	< 0.5	-	-
2.4.5-T	0.5	mg/kg	-	< 0.5	-	-
2.4.5-TP	0.5	mg/kg	-	< 0.5	-	-
Actril (loxynil)	0.5	mg/kg	-	< 0.5	-	-
Dicamba	0.5	mg/kg	-	< 0.5	-	-
Dichlorprop	0.5	mg/kg	-	< 0.5	-	-
Dinitro-o-cresol	0.5	mg/kg	-	< 0.5	-	-
Dinoseb	0.5	mg/kg	-	< 0.5	-	-
MCPA	0.5	mg/kg	-	< 0.5	-	-
MCPB	0.5	mg/kg	-	< 0.5	-	-
Mecoprop	0.5	mg/kg	-	< 0.5	-	-
Warfarin (surr.)	1	%	-	99	-	-
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			BH291_0.4-0.5	BH279_0.0-0.1	BH279_0.4-0.5	BH290_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap21936	S21-Ap21937	S21-Ap21938	S21-Ap21939
Date Sampled			Apr 13, 2021	Apr 13, 2021	Apr 13, 2021	Apr 13, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Hexachlorobenzene	0.05	mg/kg	-	-	-	< 0.05
Methoxychlor	0.2	mg/kg	-	-	-	< 0.2
Toxaphene	0.1	mg/kg	-	-	-	< 0.1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	-	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	-	< 0.2
Dibutylchlorendate (surr.)	1	%	-	-	-	106
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	80
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1221	0.1	mg/kg	-	-	-	< 0.1
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	%	-	-	-	106
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	80

Client Sample ID			BH240_0.0-0.1	QC08_SOIL	QC06_SOIL
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			S21-Ap21940	S21-Ap21941	S21-Ap21996
Date Sampled			Apr 13, 2021	Apr 13, 2021	Apr 13, 2021
Test/Reference	LOR	Unit			
Polycyclic Aromatic Hydrocarbons					
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
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
2-Fluorobiphenyl (surr.)	1	%	76	67	82
p-Terphenyl-d14 (surr.)	1	%	70	63	85

Client Sample ID			BH240_0.0-0.1	QC08_SOIL	QC06_SOIL
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			S21-Ap21940	S21-Ap21941	S21-Ap21996
Date Sampled			Apr 13, 2021	Apr 13, 2021	Apr 13, 2021
Test/Reference	LOR	Unit			
Heavy Metals					
Arsenic	2	mg/kg	8.6	9.8	7.6
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	22	31	11
Copper	5	mg/kg	42	27	8.7
Lead	5	mg/kg	22	22	10
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	15	17	5.2
Zinc	5	mg/kg	82	79	21
% Moisture	1	%	18	8.9	-
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	53	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	53	< 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	%	INT	103	98
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
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100
Acid Herbicides					
2.4-D	0.5	mg/kg	< 0.5	-	< 0.5
2.4-DB	0.5	mg/kg	< 0.5	-	< 0.5
2.4.5-T	0.5	mg/kg	< 0.5	-	< 0.5
2.4.5-TP	0.5	mg/kg	< 0.5	-	< 0.5
Actril (loxynil)	0.5	mg/kg	< 0.5	-	< 0.5
Dicamba	0.5	mg/kg	< 0.5	-	< 0.5
Dichlorprop	0.5	mg/kg	< 0.5	-	< 0.5
Dinitro-o-cresol	0.5	mg/kg	< 0.5	-	< 0.5
Dinoseb	0.5	mg/kg	< 0.5	-	< 0.5
MCPA	0.5	mg/kg	< 0.5	-	< 0.5
MCPB	0.5	mg/kg	< 0.5	-	< 0.5
Mecoprop	0.5	mg/kg	< 0.5	-	< 0.5
Warfarin (surr.)	1	%	102	-	100

Client Sample ID			BH240_0.0-0.1	QC08_SOIL	QC06_SOIL
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			S21-Ap21940	S21-Ap21941	S21-Ap21996
Date Sampled			Apr 13, 2021	Apr 13, 2021	Apr 13, 2021
Test/Reference	LOR	Unit			
Phenols (Halogenated)					
2-Chlorophenol	0.5	mg/kg	-	-	< 0.5
2.4-Dichlorophenol	0.5	mg/kg	-	-	< 0.5
2.4.5-Trichlorophenol	1	mg/kg	-	-	< 1
2.4.6-Trichlorophenol	1	mg/kg	-	-	< 1
2.6-Dichlorophenol	0.5	mg/kg	-	-	< 0.5
4-Chloro-3-methylphenol	1	mg/kg	-	-	< 1
Pentachlorophenol	1	mg/kg	-	-	< 1
Tetrachlorophenols - Total	10	mg/kg	-	-	< 10
Total Halogenated Phenol*	1	mg/kg	-	-	< 1
Phenols (non-Halogenated)					
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	-	-	< 20
2-Methyl-4.6-dinitrophenol	5	mg/kg	-	-	< 5
2-Methylphenol (o-Cresol)	0.2	mg/kg	-	-	< 0.2
2-Nitrophenol	1	mg/kg	-	-	< 1
2.4-Dimethylphenol	0.5	mg/kg	-	-	< 0.5
2.4-Dinitrophenol	5	mg/kg	-	-	< 5
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	-	-	< 0.4
4-Nitrophenol	5	mg/kg	-	-	< 5
Dinoseb	20	mg/kg	-	-	< 20
Phenol	0.5	mg/kg	-	-	< 0.5
Total Non-Halogenated Phenol*	20	mg/kg	-	-	< 20
Phenol-d6 (surr.)	1	%	-	-	78

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
Polycyclic Aromatic Hydrocarbons	Sydney	Apr 18, 2021	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Metals M8	Sydney	Apr 18, 2021	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Apr 18, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Apr 18, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Apr 18, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Apr 18, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Phenols (Halogenated)	Sydney	Apr 18, 2021	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Phenols (non-Halogenated)	Sydney	Apr 18, 2021	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
% Moisture	Sydney	Apr 14, 2021	14 Days
- Method: LTM-GEN-7080 Moisture			
Acid Herbicides	Melbourne	Apr 19, 2021	14 Days
- Method: LTM-ORG-2180 Phenoxy Acid Herbicides			
Organochlorine Pesticides	Sydney	Apr 18, 2021	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Polychlorinated Biphenyls	Sydney	Apr 18, 2021	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Brisbane	Apr 19, 2021	14 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Brisbane	Apr 19, 2021	14 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Brisbane	Apr 19, 2021	14 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Brisbane	Apr 19, 2021	180 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

eurofins | Environment Testing

ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 787245
Phone: 02 8245 0300
Fax:

Received: Apr 13, 2021 5:07 PM
Due: Apr 20, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Phenols (IWRG 621)	Suite B13: OCP/PCB	Moisture Set	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B4	Eurofins Suite B6	Eurofins Suite B7A	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271										X										
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																				X
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**															
1	TP129_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21872				X		X			X						
2	TP129_0.2-0.3	Apr 13, 2021		Soil	S21-Ap21873				X					X						
3	TP149_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21874					X				X				X		
4	TP150_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21875									X				X		
5	TP150_0.2-0.3	Apr 13, 2021		Soil	S21-Ap21876				X					X						
6	TP151_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21877								X	X		X				
7	TP152_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21878					X				X			X			
8	TP152_0.3-0.4	Apr 13, 2021		Soil	S21-Ap21879				X		X			X						
9	TP153_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21880							X		X		X				

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 787245
Phone: 02 8245 0300
Fax:

Received: Apr 13, 2021 5:07 PM
Due: Apr 20, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Phenols (IWRG 621)	Suite B13: OCP/PCB	Moisture Set	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B4	Eurofins Suite B6	Eurofins Suite B7A	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271										X										
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																				X
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
10	TP131_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21881				X	X	X		X	X						
11	TP130_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21882	X				X				X		X				
12	TP128_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21883	X			X		X			X						
13	TP127_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21884				X		X			X						
14	TP144_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21885				X		X			X						
15	TP143_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21886					X				X		X				
16	TP142_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21887								X	X						
17	TP142_0.2-0.3	Apr 13, 2021		Soil	S21-Ap21888				X		X			X						
18	TP141_0.3-0.4	Apr 13, 2021		Soil	S21-Ap21889									X		X				
19	TP140_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21890					X				X			X			
20	TP331_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21891				X		X			X						

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
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Newcastle
4/52 Industrial Drive
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PO Box 60 Wickham 2293
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New Zealand

Auckland
35 O'Rorke Road
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Project Name: KEMPS CREEK DSI
Project ID: 60482

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Report #: 787245
Phone: 02 8245 0300
Fax:

Received: Apr 13, 2021 5:07 PM
Due: Apr 20, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

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Melbourne Laboratory - NATA Site # 1254 & 14271										X										
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																				X
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
21	TP138_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21892	X			X		X			X						
22	TP154_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21893								X	X			X			
23	TP139_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21894									X				X		
24	BH241_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21895				X		X			X						
25	TP147_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21896									X	X					
26	TP146_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21897									X	X					
27	TP145_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21898					X			X	X		X				
28	TP126_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21899				X	X	X			X						
29	TP124_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21900									X	X					
30	QC05_SOIL	Apr 13, 2021		Soil	S21-Ap21901									X	X					
31	TP309_0.0-0.2	Apr 13, 2021		Soil	S21-Ap21902							X		X				X		

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New Zealand

Auckland
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Melbourne Laboratory - NATA Site # 1254 & 14271										X										
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																				X
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
32	TP310_0.0-0.2	Apr 13, 2021		Soil	S21-Ap21903	X			X		X		X	X						
33	TP398_0.0-0.2	Apr 13, 2021		Soil	S21-Ap21904									X	X					
34	TP396_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21905	X								X				X		
35	TP396_0.4-0.5	Apr 13, 2021		Soil	S21-Ap21906				X		X			X						
36	TP395_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21907	X														
37	TP395_0.3-0.4	Apr 13, 2021		Soil	S21-Ap21908	X								X	X					
38	TP397_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21909	X							X	X			X			
39	TP397_0.3-0.4	Apr 13, 2021		Soil	S21-Ap21910				X		X		X	X						
40	QC07_SOIL	Apr 13, 2021		Soil	S21-Ap21911	X								X	X					
41	TP390_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21912	X			X		X			X						
42	TP391_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21913	X								X				X		

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Melbourne Laboratory - NATA Site # 1254 & 14271										X										
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																				X
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
43	TP391_0.5-0.6	Apr 13, 2021		Soil	S21-Ap21914									X			X			
44	TP235_0.0-0.05	Apr 13, 2021		Soil	S21-Ap21915	X			X		X			X						
45	TP236_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21916									X	X					
46	BH393_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21917									X					X	
47	BH392_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21918									X					X	
48	BH394_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21919									X					X	
49	TP260_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21920	X								X	X					X
50	TP260_0.2-0.3	Apr 13, 2021		Soil	S21-Ap21921	X														
51	BH280_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21922									X	X					
52	BH289_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21923					X				X			X			

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New Zealand

Auckland
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Melbourne Laboratory - NATA Site # 1254 & 14271										X										
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																				X
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
53	BH242_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21924				X		X			X						
54	BH238_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21925			X												
55	BH238_0.4-0.5	Apr 13, 2021		Soil	S21-Ap21926		X													
56	BH277_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21927				X	X	X		X	X						
57	BH277_0.4-0.5	Apr 13, 2021		Soil	S21-Ap21928						X			X						
58	BH292_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21929									X	X					
59	BH292_0.4-0.5	Apr 13, 2021		Soil	S21-Ap21930				X					X						
60	BH239_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21931				X	X	X			X						
61	BH239_0.4-0.5	Apr 13, 2021		Soil	S21-Ap21932						X			X						
62	BH278_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21933					X				X	X					
63	BH278_0.4-0.5	Apr 13, 2021		Soil	S21-Ap21934				X					X						

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Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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
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Perth
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PO Box 60 Wickham 2293
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New Zealand

Auckland
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Melbourne Laboratory - NATA Site # 1254 & 14271										X										
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																				X
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
64	BH291_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21935				X		X		X	X						
65	BH291_0.4-0.5	Apr 13, 2021		Soil	S21-Ap21936						X			X						
66	BH279_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21937					X				X	X					
67	BH279_0.4-0.5	Apr 13, 2021		Soil	S21-Ap21938				X					X						
68	BH290_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21939				X		X		X	X						
69	BH240_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21940					X				X	X					
70	QC08_SOIL	Apr 13, 2021		Soil	S21-Ap21941	X								X	X					
71	TP149_0.2-0.3	Apr 13, 2021		Soil	S21-Ap21942			X												
72	TP151_0.2-0.3	Apr 13, 2021		Soil	S21-Ap21943			X												
73	TP153_0.2-0.3	Apr 13, 2021		Soil	S21-Ap21944			X												
74	TP131_0.2-0.3	Apr 13, 2021		Soil	S21-Ap21945			X												

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Melbourne Laboratory - NATA Site # 1254 & 14271										X										
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																				X
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
75	TP130_0.2-0.3	Apr 13, 2021		Soil	S21-Ap21946			X												
76	TP128_0.2-0.3	Apr 13, 2021		Soil	S21-Ap21947			X												
77	TP127_0.2-0.3	Apr 13, 2021		Soil	S21-Ap21948			X												
78	TP144_0.2-0.3	Apr 13, 2021		Soil	S21-Ap21949			X												
79	TP143_0.2-0.3	Apr 13, 2021		Soil	S21-Ap21950			X												
80	TP141_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21951			X												
81	TP140_0.3-0.4	Apr 13, 2021		Soil	S21-Ap21952			X												
82	TP331_0.3-0.4	Apr 13, 2021		Soil	S21-Ap21953			X												
83	TP138_0.3-0.4	Apr 13, 2021		Soil	S21-Ap21954			X												
84	TP154_0.2-0.3	Apr 13, 2021		Soil	S21-Ap21955			X												
85	TP139_0.2-0.3	Apr 13, 2021		Soil	S21-Ap21956			X												

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Melbourne Laboratory - NATA Site # 1254 & 14271										X										
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																				X
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
86	BH241_0.2-0.3	Apr 13, 2021		Soil	S21-Ap21957			X												
87	TP147_0.3-0.4	Apr 13, 2021		Soil	S21-Ap21958			X												
88	TP146_0.3-0.4	Apr 13, 2021		Soil	S21-Ap21959			X												
89	TP145_0.4-0.5	Apr 13, 2021		Soil	S21-Ap21960			X												
90	TP126_0.3-0.4	Apr 13, 2021		Soil	S21-Ap21961			X												
91	TP125_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21962			X												
92	TP125_0.3-0.4	Apr 13, 2021		Soil	S21-Ap21963			X												
93	TP124_0.3-0.4	Apr 13, 2021		Soil	S21-Ap21964			X												
94	TP309_0.4-0.5	Apr 13, 2021		Soil	S21-Ap21965			X												
95	TP310_0.4-0.5	Apr 13, 2021		Soil	S21-Ap21966			X												
96	TP398_0.3-0.4	Apr 13, 2021		Soil	S21-Ap21967			X												

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 787245
Phone: 02 8245 0300
Fax:

Received: Apr 13, 2021 5:07 PM
Due: Apr 20, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	Phenols (IWRG 621)	Suite B13: OCP/PCB	Moisture Set	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B4	Eurofins Suite B6	Eurofins Suite B7A	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA Site # 1254 & 14271										X										
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																				X
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
97	TP395_0.6-0.7	Apr 13, 2021		Soil	S21-Ap21968			X												
98	TP395_1.0-1.1	Apr 13, 2021		Soil	S21-Ap21969			X												
99	TP397_0.6-0.7	Apr 13, 2021		Soil	S21-Ap21970			X												
100	TP397_1.0-1.1	Apr 13, 2021		Soil	S21-Ap21971			X												
101	TP390_0.4-0.5	Apr 13, 2021		Soil	S21-Ap21972			X												
102	TP391_1.0-1.1	Apr 13, 2021		Soil	S21-Ap21973			X												
103	TP235_0.1-0.2	Apr 13, 2021		Soil	S21-Ap21974			X												
104	TP235_0.4-0.5	Apr 13, 2021		Soil	S21-Ap21975			X												
105	TP236_0.2-0.3	Apr 13, 2021		Soil	S21-Ap21976			X												
106	BH393_0.4-0.5	Apr 13, 2021		Soil	S21-Ap21977			X												
107	BH392_0.4-0.5	Apr 13, 2021		Soil	S21-Ap21978			X												

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Melbourne Laboratory - NATA Site # 1254 & 14271										X										
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																				X
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
108	BH394_0.4-0.5	Apr 13, 2021		Soil	S21-Ap21979			X												
109	TP261_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21980			X												
110	TP261_0.4-0.5	Apr 13, 2021		Soil	S21-Ap21981			X												
111	TP260_0.5-0.6	Apr 13, 2021		Soil	S21-Ap21982			X												
112	BH280_0.2-0.3	Apr 13, 2021		Soil	S21-Ap21983			X												
113	BH289_0.2-0.3	Apr 13, 2021		Soil	S21-Ap21984			X												
114	BH242_0.2-0.3	Apr 13, 2021		Soil	S21-Ap21985			X												
115	TS	Apr 13, 2021		Water	S21-Ap21986			X												
116	TB	Apr 13, 2021		Water	S21-Ap21987			X												
117	BH290_0.4-0.5	Apr 13, 2021		Soil	S21-Ap21988			X												
118	BH240_0.4-0.5	Apr 13, 2021		Soil	S21-Ap21989			X												

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Melbourne Laboratory - NATA Site # 1254 & 14271										X										
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																				X
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
119	TP155_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21991			X												
120	TP155_0.3-0.4	Apr 13, 2021		Soil	S21-Ap21992			X												
121	TP234_0.0-0.1	Apr 13, 2021		Soil	S21-Ap21993			X												
122	TP234_0.2-0.3	Apr 13, 2021		Soil	S21-Ap21994			X												
123	TP396_1.0-1.1	Apr 13, 2021		Soil	S21-Ap21995			X												
124	QC06_SOIL	Apr 13, 2021		Soil	S21-Ap21996	X				X									X	
125	UNLABELLED SAMPLE 1	Apr 13, 2021		Soil	S21-Ap21997			X												
126	UNLABELLED SAMPLE 2	Apr 13, 2021		Soil	S21-Ap21998			X												
127	TP259_0.0-0.1	Apr 13, 2021		Soil	S21-Ap22271			X												

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Melbourne Laboratory - NATA Site # 1254 & 14271										X										
Sydney Laboratory - NATA Site # 18217						X	X	X	X		X	X	X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																				X
Perth Laboratory - NATA Site # 23736																				
Mayfield Laboratory																				
External Laboratory																				
128	TP259_0.3-0.4	Apr 13, 2021		Soil	S21-Ap22272			X												
129	TP391_0.3-0.4	Apr 13, 2021		Soil	S21-Ap22273			X												
Test Counts						16	1	59	26	15	24	2	11	66	15	6	6	6	4	1

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.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram | **mg/L:** milligrams per litre | **ug/L:** micrograms per litre

ppm: Parts per million | **ppb:** Parts per billion | **%:** Percentage

org/100mL: Organisms per 100 millilitres | **NTU:** Nephelometric Turbidity Units | **MPN/100mL:** Most Probable Number of organisms per 100 millilitres

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 and 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.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
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 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

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, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene 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 Aroclor 1260 in Matrix Spikes and LCS.
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 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							
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	
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 >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							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
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	
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	< 0.1			0.1	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.5			0.5	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	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							
Phenols (Halogenated)							
2-Chlorophenol	mg/kg	< 0.5			0.5	Pass	
2.4-Dichlorophenol	mg/kg	< 0.5			0.5	Pass	
2.4.5-Trichlorophenol	mg/kg	< 1			1	Pass	
2.4.6-Trichlorophenol	mg/kg	< 1			1	Pass	
2.6-Dichlorophenol	mg/kg	< 0.5			0.5	Pass	
4-Chloro-3-methylphenol	mg/kg	< 1			1	Pass	
Pentachlorophenol	mg/kg	< 1			1	Pass	
Tetrachlorophenols - Total	mg/kg	< 10			10	Pass	
Method Blank							
Phenols (non-Halogenated)							
2-Cyclohexyl-4.6-dinitrophenol	mg/kg	< 20			20	Pass	
2-Methyl-4.6-dinitrophenol	mg/kg	< 5			5	Pass	
2-Methylphenol (o-Cresol)	mg/kg	< 0.2			0.2	Pass	
2-Nitrophenol	mg/kg	< 1			1	Pass	
2.4-Dimethylphenol	mg/kg	< 0.5			0.5	Pass	
2.4-Dinitrophenol	mg/kg	< 5			5	Pass	
3&4-Methylphenol (m&p-Cresol)	mg/kg	< 0.4			0.4	Pass	
4-Nitrophenol	mg/kg	< 5			5	Pass	
Dinoseb	mg/kg	< 20			20	Pass	
Phenol	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorobutanoic acid (PFBA)	ug/kg	< 5			5	Pass	
Perfluoropentanoic acid (PFPeA)	ug/kg	< 5			5	Pass	
Perfluorohexanoic acid (PFHxA)	ug/kg	< 5			5	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/kg	< 5			5	Pass	
Perfluorooctanoic acid (PFOA)	ug/kg	< 5			5	Pass	
Perfluorononanoic acid (PFNA)	ug/kg	< 5			5	Pass	
Perfluorodecanoic acid (PFDA)	ug/kg	< 5			5	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/kg	< 5			5	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/kg	< 5			5	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/kg	< 5			5	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/kg	< 5			5	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/kg	< 5			5	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/kg	< 5			5	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/kg	< 5			5	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	ug/kg	< 5			5	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	ug/kg	< 5			5	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	< 10			10	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	< 10			10	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	ug/kg	< 5			5	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/kg	< 5			5	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/kg	< 5			5	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/kg	< 5			5	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	< 5			5	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/kg	< 5			5	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/kg	< 5			5	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/kg	< 5			5	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	ug/kg	< 10			10	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/kg	< 5			5	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	89			70-130	Pass	
Acenaphthylene	%	103			70-130	Pass	
Anthracene	%	95			70-130	Pass	
Benz(a)anthracene	%	83			70-130	Pass	
Benzo(a)pyrene	%	81			70-130	Pass	
Benzo(b&j)fluoranthene	%	98			70-130	Pass	
Benzo(g.h.i)perylene	%	91			70-130	Pass	
Benzo(k)fluoranthene	%	87			70-130	Pass	
Chrysene	%	83			70-130	Pass	
Dibenz(a.h)anthracene	%	97			70-130	Pass	
Fluoranthene	%	93			70-130	Pass	
Fluorene	%	91			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	88			70-130	Pass	
Naphthalene	%	111			70-130	Pass	
Phenanthrene	%	99			70-130	Pass	
Pyrene	%	91			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
LCS - % Recovery							
Heavy Metals							
Arsenic	%	92			80-120	Pass	
Cadmium	%	99			80-120	Pass	
Chromium	%	102			80-120	Pass	
Copper	%	102			80-120	Pass	
Lead	%	107			80-120	Pass	
Mercury	%	108			80-120	Pass	
Nickel	%	104			80-120	Pass	
Zinc	%	96			80-120	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	88			70-130	Pass	
TRH C10-C14	%	97			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	91			70-130	Pass	
Toluene	%	95			70-130	Pass	
Ethylbenzene	%	94			70-130	Pass	
m&p-Xylenes	%	92			70-130	Pass	
o-Xylene	%	92			70-130	Pass	
Xylenes - Total*	%	92			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	86			70-130	Pass	
TRH C6-C10	%	86			70-130	Pass	
TRH >C10-C16	%	100			70-130	Pass	
LCS - % Recovery							
Acid Herbicides							
2.4-D	%	98			70-130	Pass	
2.4-DB	%	77			70-130	Pass	
2.4.5-T	%	101			70-130	Pass	
2.4.5-TP	%	105			70-130	Pass	
Actril (loxynil)	%	92			70-130	Pass	
Dicamba	%	101			70-130	Pass	
Dichlorprop	%	94			70-130	Pass	
Dinitro-o-cresol	%	96			70-130	Pass	
Dinoseb	%	87			70-130	Pass	
MCPA	%	89			70-130	Pass	
MCPB	%	84			70-130	Pass	
Mecoprop	%	85			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	94			70-130	Pass	
4.4'-DDD	%	77			70-130	Pass	
4.4'-DDE	%	83			70-130	Pass	
4.4'-DDT	%	71			70-130	Pass	
a-BHC	%	78			70-130	Pass	
Aldrin	%	81			70-130	Pass	
b-BHC	%	72			70-130	Pass	
d-BHC	%	74			70-130	Pass	
Dieldrin	%	86			70-130	Pass	
Endosulfan I	%	84			70-130	Pass	
Endosulfan II	%	76			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endosulfan sulphate	%	74			70-130	Pass	
Endrin	%	98			70-130	Pass	
Endrin aldehyde	%	114			70-130	Pass	
Endrin ketone	%	94			70-130	Pass	
g-BHC (Lindane)	%	72			70-130	Pass	
Heptachlor	%	98			70-130	Pass	
Heptachlor epoxide	%	85			70-130	Pass	
Hexachlorobenzene	%	79			70-130	Pass	
Methoxychlor	%	78			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1016	%	105			70-130	Pass	
Aroclor-1260	%	106			70-130	Pass	
LCS - % Recovery							
Phenols (Halogenated)							
2-Chlorophenol	%	103			30-130	Pass	
2.4-Dichlorophenol	%	97			30-130	Pass	
2.4.5-Trichlorophenol	%	105			30-130	Pass	
2.4.6-Trichlorophenol	%	113			30-130	Pass	
2.6-Dichlorophenol	%	105			30-130	Pass	
4-Chloro-3-methylphenol	%	106			30-130	Pass	
Pentachlorophenol	%	97			30-130	Pass	
Tetrachlorophenols - Total	%	102			30-130	Pass	
LCS - % Recovery							
Phenols (non-Halogenated)							
2-Cyclohexyl-4.6-dinitrophenol	%	91			30-130	Pass	
2-Methyl-4.6-dinitrophenol	%	89			30-130	Pass	
2-Methylphenol (o-Cresol)	%	91			30-130	Pass	
2-Nitrophenol	%	108			30-130	Pass	
2.4-Dimethylphenol	%	102			30-130	Pass	
2.4-Dinitrophenol	%	85			30-130	Pass	
3&4-Methylphenol (m&p-Cresol)	%	101			30-130	Pass	
4-Nitrophenol	%	125			30-130	Pass	
Dinoseb	%	119			30-130	Pass	
Phenol	%	98			30-130	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	99			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	97			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	105			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	96			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	95			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	102			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	99			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	107			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	100			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	111			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	104			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	102			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	98			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	99			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	%	94			50-150	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	%	86			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	95			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	93			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	84			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	90			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	92			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	111			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	105			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	126			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	100			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	93			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	87			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	%	91			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	100			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	95			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S21-Ap21874	CP	%	86			75-125	Pass	
Cadmium	S21-Ap21874	CP	%	106			75-125	Pass	
Chromium	S21-Ap21874	CP	%	95			75-125	Pass	
Copper	S21-Ap21874	CP	%	98			75-125	Pass	
Lead	S21-Ap21874	CP	%	114			75-125	Pass	
Mercury	S21-Ap21874	CP	%	109			75-125	Pass	
Nickel	S21-Ap21874	CP	%	101			75-125	Pass	
Zinc	S21-Ap21874	CP	%	99			75-125	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S21-Ap29311	NCP	%	101			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S21-Ap21878	CP	%	94			70-130	Pass	
Acenaphthylene	S21-Ap21878	CP	%	105			70-130	Pass	
Anthracene	S21-Ap21878	CP	%	95			70-130	Pass	
Benz(a)anthracene	S21-Ap21878	CP	%	82			70-130	Pass	
Benzo(a)pyrene	S21-Ap21878	CP	%	85			70-130	Pass	
Benzo(b&j)fluoranthene	S21-Ap21878	CP	%	113			70-130	Pass	
Benzo(g.h.i)perylene	S21-Ap21878	CP	%	99			70-130	Pass	
Benzo(k)fluoranthene	S21-Ap21878	CP	%	87			70-130	Pass	
Chrysene	S21-Ap21878	CP	%	88			70-130	Pass	
Dibenz(a.h)anthracene	S21-Ap21878	CP	%	106			70-130	Pass	
Fluoranthene	S21-Ap21878	CP	%	98			70-130	Pass	
Fluorene	S21-Ap21878	CP	%	92			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S21-Ap21878	CP	%	90			70-130	Pass	
Naphthalene	S21-Ap21878	CP	%	111			70-130	Pass	
Phenanthrene	S21-Ap21878	CP	%	100			70-130	Pass	
Pyrene	S21-Ap21878	CP	%	96			70-130	Pass	
Spike - % Recovery									
Acid Herbicides				Result 1					
Actril (loxynil)	S21-Ap21878	CP	%	80			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S21-Ap21892	CP	%	106			70-130	Pass	
Acenaphthylene	S21-Ap21892	CP	%	121			70-130	Pass	
Anthracene	S21-Ap21892	CP	%	110			70-130	Pass	
Benz(a)anthracene	S21-Ap21892	CP	%	119			70-130	Pass	
Benzo(a)pyrene	S21-Ap21892	CP	%	101			70-130	Pass	
Benzo(g.h.i)perylene	S21-Ap21892	CP	%	108			70-130	Pass	
Benzo(k)fluoranthene	S21-Ap21892	CP	%	95			70-130	Pass	
Chrysene	S21-Ap21892	CP	%	97			70-130	Pass	
Dibenz(a.h)anthracene	S21-Ap21892	CP	%	118			70-130	Pass	
Fluoranthene	S21-Ap21892	CP	%	113			70-130	Pass	
Fluorene	S21-Ap21892	CP	%	104			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S21-Ap21892	CP	%	103			70-130	Pass	
Naphthalene	S21-Ap21892	CP	%	125			70-130	Pass	
Phenanthrene	S21-Ap21892	CP	%	112			70-130	Pass	
Pyrene	S21-Ap21892	CP	%	110			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S21-Ap21894	CP	%	71			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S21-Ap21894	CP	%	86			70-130	Pass	
Toluene	S21-Ap21894	CP	%	83			70-130	Pass	
Ethylbenzene	S21-Ap21894	CP	%	80			70-130	Pass	
m&p-Xylenes	S21-Ap21894	CP	%	82			70-130	Pass	
o-Xylene	S21-Ap21894	CP	%	82			70-130	Pass	
Xylenes - Total*	S21-Ap21894	CP	%	82			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH C6-C10	S21-Ap21894	CP	%	73			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S21-Ap21905	CP	%	86			75-125	Pass	
Cadmium	S21-Ap21905	CP	%	94			75-125	Pass	
Chromium	S21-Ap21905	CP	%	95			75-125	Pass	
Lead	S21-Ap21905	CP	%	85			75-125	Pass	
Mercury	S21-Ap21905	CP	%	104			75-125	Pass	
Nickel	S21-Ap21905	CP	%	99			75-125	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S21-Ap21909	CP	%	75			70-130	Pass	
TRH C10-C14	S21-Ap21909	CP	%	87			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S21-Ap21909	CP	%	70			70-130	Pass	
Toluene	S21-Ap21909	CP	%	81			70-130	Pass	
Ethylbenzene	S21-Ap21909	CP	%	81			70-130	Pass	
m&p-Xylenes	S21-Ap21909	CP	%	77			70-130	Pass	
o-Xylene	S21-Ap21909	CP	%	79			70-130	Pass	
Xylenes - Total*	S21-Ap21909	CP	%	78			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH C6-C10	S21-Ap21909	CP	%	74			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
TRH >C10-C16	S21-Ap21909	CP	%	90			70-130	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	B21-Ap18048	NCP	%	99			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	B21-Ap18048	NCP	%	103			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	B21-Ap18048	NCP	%	100			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	B21-Ap18048	NCP	%	96			50-150	Pass	
Perfluorooctanoic acid (PFOA)	B21-Ap18048	NCP	%	95			50-150	Pass	
Perfluorononanoic acid (PFNA)	B21-Ap18048	NCP	%	93			50-150	Pass	
Perfluorodecanoic acid (PFDA)	B21-Ap18048	NCP	%	91			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	B21-Ap18048	NCP	%	100			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	B21-Ap18048	NCP	%	98			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	B21-Ap18048	NCP	%	103			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	B21-Ap18048	NCP	%	102			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	B21-Ap18048	NCP	%	100			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	B21-Ap18048	NCP	%	102			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	B21-Ap18048	NCP	%	102			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	B21-Ap18048	NCP	%	92			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	B21-Ap18048	NCP	%	94			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	B21-Ap18048	NCP	%	96			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	B21-Ap18048	NCP	%	95			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	B21-Ap18048	NCP	%	91			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	B21-Ap18048	NCP	%	84			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	B21-Ap18048	NCP	%	104			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	B21-Ap18048	NCP	%	99			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	B21-Ap18048	NCP	%	102			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	B21-Ap18048	NCP	%	111			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	B21-Ap18048	NCP	%	94			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	B21-Ap18048	NCP	%	87			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	B21-Ap18048	NCP	%	84			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	B21-Ap18048	NCP	%	98			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	B21-Ap18048	NCP	%	102			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	B21-Ap18048	NCP	%	94			50-150	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C10-C14	S21-Ap21923	CP	%	95			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH >C10-C16	S21-Ap21923	CP	%	99			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S21-Ap21933	CP	%	91			75-125	Pass	
Cadmium	S21-Ap21933	CP	%	98			75-125	Pass	
Chromium	S21-Ap21933	CP	%	99			75-125	Pass	
Copper	S21-Ap21933	CP	%	78			75-125	Pass	
Lead	S21-Ap21933	CP	%	101			75-125	Pass	
Mercury	S21-Ap21933	CP	%	95			75-125	Pass	
Nickel	S21-Ap21933	CP	%	99			75-125	Pass	
Zinc	S21-Ap21933	CP	%	83			75-125	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C10-C14	S21-Ap21941	CP	%	95			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH >C10-C16	S21-Ap21941	CP	%	96			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S21-Ap17342	NCP	%	94			70-130	Pass	
Acenaphthylene	S21-Ap17342	NCP	%	94			70-130	Pass	
Anthracene	S21-Ap17342	NCP	%	79			70-130	Pass	
Benz(a)anthracene	S21-Ap17342	NCP	%	106			70-130	Pass	
Benzo(a)pyrene	S21-Ap17342	NCP	%	96			70-130	Pass	
Benzo(b&j)fluoranthene	S21-Ap17342	NCP	%	103			70-130	Pass	
Benzo(g.h.i)perylene	S21-Ap17342	NCP	%	105			70-130	Pass	
Benzo(k)fluoranthene	S21-Ap17342	NCP	%	83			70-130	Pass	
Chrysene	S21-Ap17342	NCP	%	92			70-130	Pass	
Dibenz(a.h)anthracene	S21-Ap17342	NCP	%	104			70-130	Pass	
Fluoranthene	S21-Ap17342	NCP	%	82			70-130	Pass	
Fluorene	S21-Ap17342	NCP	%	79			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S21-Ap17342	NCP	%	104			70-130	Pass	
Naphthalene	S21-Ap17342	NCP	%	75			70-130	Pass	
Phenanthrene	S21-Ap17342	NCP	%	80			70-130	Pass	
Pyrene	S21-Ap17342	NCP	%	92			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	S21-Ap21872	CP	mg/kg	11	10	7.0	30%	Pass	
Cadmium	S21-Ap21872	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S21-Ap21872	CP	mg/kg	29	21	32	30%	Fail	Q15
Copper	S21-Ap21872	CP	mg/kg	13	16	18	30%	Pass	
Lead	S21-Ap21872	CP	mg/kg	23	20	16	30%	Pass	
Mercury	S21-Ap21872	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Nickel	S21-Ap21872	CP	mg/kg	8.3	7.6	9.0	30%	Pass	
Zinc	S21-Ap21872	CP	mg/kg	35	27	27	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S21-Ap21874	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S21-Ap21874	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S21-Ap21874	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S21-Ap21874	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S21-Ap21874	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S21-Ap21874	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S21-Ap21874	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S21-Ap21874	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S21-Ap21874	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S21-Ap21876	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S21-Ap21876	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S21-Ap21876	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S21-Ap21876	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S21-Ap21876	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S21-Ap21876	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S21-Ap21876	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S21-Ap21876	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S21-Ap21876	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S21-Ap21876	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S21-Ap21876	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S21-Ap21876	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S21-Ap21876	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S21-Ap21876	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S21-Ap21876	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S21-Ap21876	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-Ap21881	CP	%	16	16	2.0	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S21-Ap21891	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S21-Ap21891	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S21-Ap21891	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S21-Ap21891	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S21-Ap21891	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S21-Ap21891	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S21-Ap21891	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S21-Ap21891	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S21-Ap21891	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S21-Ap21891	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S21-Ap21891	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S21-Ap21891	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Indeno(1.2.3-cd)pyrene	S21-Ap21891	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S21-Ap21891	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S21-Ap21891	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S21-Ap21891	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-Ap21891	CP	%	16	15	2.0	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-Ap21892	CP	mg/kg	11	13	21	30%	Pass	
Cadmium	S21-Ap21892	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S21-Ap21892	CP	mg/kg	24	27	13	30%	Pass	
Copper	S21-Ap21892	CP	mg/kg	42	50	18	30%	Pass	
Lead	S21-Ap21892	CP	mg/kg	25	31	20	30%	Pass	
Mercury	S21-Ap21892	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S21-Ap21892	CP	mg/kg	14	17	20	30%	Pass	
Zinc	S21-Ap21892	CP	mg/kg	70	98	33	30%	Fail	Q15
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S21-Ap21893	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S21-Ap21893	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S21-Ap21893	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S21-Ap21893	CP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S21-Ap21893	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S21-Ap21893	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S21-Ap21893	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S21-Ap21893	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S21-Ap21893	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S21-Ap21893	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S21-Ap21893	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S21-Ap21893	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S21-Ap21893	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S21-Ap21893	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S21-Ap21893	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-Ap21901	CP	%	15	16	5.0	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-Ap21904	CP	mg/kg	2.0	< 2	33	30%	Fail	Q15
Cadmium	S21-Ap21904	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S21-Ap21904	CP	mg/kg	9.5	10	8.0	30%	Pass	
Copper	S21-Ap21904	CP	mg/kg	29	41	35	30%	Fail	Q15
Lead	S21-Ap21904	CP	mg/kg	14	17	16	30%	Pass	
Mercury	S21-Ap21904	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S21-Ap21904	CP	mg/kg	20	21	6.0	30%	Pass	
Zinc	S21-Ap21904	CP	mg/kg	45	47	5.0	30%	Pass	

Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S21-Ap21908	CP	mg/kg	2.5	0.6	120	30%	Fail	Q15
Acenaphthylene	S21-Ap21908	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S21-Ap21908	CP	mg/kg	5.1	1.8	95	30%	Fail	Q15
Benz(a)anthracene	S21-Ap21908	CP	mg/kg	19	6.9	93	30%	Fail	Q15
Benzo(a)pyrene	S21-Ap21908	CP	mg/kg	17	5.1	110	30%	Fail	Q15
Benzo(b&j)fluoranthene	S21-Ap21908	CP	mg/kg	18	5.6	100	30%	Fail	Q15
Benzo(g.h.i)perylene	S21-Ap21908	CP	mg/kg	12	3.6	110	30%	Fail	Q15
Benzo(k)fluoranthene	S21-Ap21908	CP	mg/kg	12	5.1	78	30%	Fail	Q15
Chrysene	S21-Ap21908	CP	mg/kg	17	6.4	90	30%	Fail	Q15
Dibenz(a.h)anthracene	S21-Ap21908	CP	mg/kg	2.8	1.0	97	30%	Fail	Q15
Fluoranthene	S21-Ap21908	CP	mg/kg	47	19	84	30%	Fail	Q15
Fluorene	S21-Ap21908	CP	mg/kg	1.6	< 0.5	120	30%	Fail	Q15
Indeno(1.2.3-cd)pyrene	S21-Ap21908	CP	mg/kg	8.7	3.5	84	30%	Fail	Q15
Naphthalene	S21-Ap21908	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S21-Ap21908	CP	mg/kg	32	12	91	30%	Fail	Q15
Pyrene	S21-Ap21908	CP	mg/kg	38	16	83	30%	Fail	Q15
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S21-Ap21908	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S21-Ap21908	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S21-Ap21908	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S21-Ap21908	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S21-Ap21908	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S21-Ap21908	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S21-Ap21908	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S21-Ap21908	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-Ap21912	CP	%	15	15	2.0	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-Ap21917	CP	mg/kg	< 2	3.6	150	30%	Fail	Q15
Cadmium	S21-Ap21917	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S21-Ap21917	CP	mg/kg	83	95	14	30%	Pass	
Copper	S21-Ap21917	CP	mg/kg	13	24	57	30%	Fail	Q15
Lead	S21-Ap21917	CP	mg/kg	5.8	14	81	30%	Fail	Q15
Mercury	S21-Ap21917	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S21-Ap21917	CP	mg/kg	90	81	10	30%	Pass	
Zinc	S21-Ap21917	CP	mg/kg	72	99	31	30%	Fail	Q15
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	B21-Ap18055	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	B21-Ap18055	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	B21-Ap18055	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	B21-Ap18055	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	B21-Ap18055	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	B21-Ap18055	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	B21-Ap18055	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	B21-Ap18055	NCP	ug/kg	< 5	< 5	<1	30%	Pass	

Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorododecanoic acid (PFDoDA)	B21-Ap18055	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	B21-Ap18055	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	B21-Ap18055	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	B21-Ap18055	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	B21-Ap18055	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	B21-Ap18055	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	B21-Ap18055	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	B21-Ap18055	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	B21-Ap18055	NCP	ug/kg	< 10	< 10	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	B21-Ap18055	NCP	ug/kg	< 10	< 10	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	B21-Ap18055	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	B21-Ap18055	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	B21-Ap18055	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	B21-Ap18055	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	B21-Ap18055	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	B21-Ap18055	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	B21-Ap18055	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	B21-Ap18055	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	B21-Ap18055	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	B21-Ap18055	NCP	ug/kg	< 10	< 10	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	B21-Ap18055	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	B21-Ap18055	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S21-Ap21922	CP	mg/kg	< 20	< 20	<1	30%	Pass	

Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S21-Ap21922	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S21-Ap21922	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S21-Ap21922	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S21-Ap21922	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S21-Ap21922	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S21-Ap21922	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S21-Ap21922	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S21-Ap21922	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-Ap21923	CP	%	20	20	3.0	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S21-Ap21931	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S21-Ap21931	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S21-Ap21931	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S21-Ap21931	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S21-Ap21931	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S21-Ap21931	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S21-Ap21931	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S21-Ap21931	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S21-Ap21931	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S21-Ap21931	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S21-Ap21931	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S21-Ap21931	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S21-Ap21931	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S21-Ap21931	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S21-Ap21931	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S21-Ap21931	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-Ap21932	CP	mg/kg	7.6	7.7	1.0	30%	Pass	
Cadmium	S21-Ap21932	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S21-Ap21932	CP	mg/kg	24	24	2.0	30%	Pass	
Copper	S21-Ap21932	CP	mg/kg	26	27	4.0	30%	Pass	
Lead	S21-Ap21932	CP	mg/kg	24	25	5.0	30%	Pass	
Mercury	S21-Ap21932	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S21-Ap21932	CP	mg/kg	9.6	8.9	8.0	30%	Pass	
Zinc	S21-Ap21932	CP	mg/kg	44	40	11	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-Ap21935	CP	%	18	18	2.0	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S21-Ap17340	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S21-Ap17340	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S21-Ap17340	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S21-Ap17340	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S21-Ap17340	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S21-Ap17340	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S21-Ap17340	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S21-Ap17340	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Chrysene	S21-Ap17340	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S21-Ap17340	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S21-Ap17340	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S21-Ap17340	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S21-Ap17340	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S21-Ap17340	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S21-Ap17340	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S21-Ap17340	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
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
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).
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)
John Nguyen	Senior Analyst-Metal (NSW)
Joseph Edouard	Senior Analyst-Organic (VIC)
Sarah McCallion	Senior Analyst-PFAS (QLD)

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.: 60482

PROJECT NAME: Kemps Creek DSI

LABORATORY BATCH NO.:

DATE NEEDED BY: Standard TAT

SAMPLERS: RL

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

QC LEVEL: NEPM (2013)

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....rlill@jbsg.com.au; (3) .....cdagger@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs	Asbestos	OCPs/PCBs	Phenols	Herbicides	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
BH451 0.0-0.1	Soil	15-4-21		J		x	x	x				x				
BH451 0.2-0.3				J												
BH420 0.0-0.1				J+B					x							
BH420 0.2-0.3				J+D												
BH420 0.5-0.6				J												
BH421 0.0-0.1				J+B		x		x	x							
BH421 0.1-0.2				J+B												
BH421 0.4-0.5				J												
BH421 0.8-0.9				J												
QC10-Soil				PFAS .xw												
QC10-Soil				.xw								x	x			
BH433 0.0-0.5				J+B		x		x								
BH433 0.5-0.6				J												
BH432 0.0-0.1				J+B												
BH432 0.4-0.5				J												
BH462 0.0-0.1				J+D												
BH462 0.4-0.5				J												
BH419-0.5-0.6				J												

RELINQUISHED BY:

NAME: Rilyan Lill DATE: 14-7-21

OF: JBS&G

NAME: DATE:

OF:

METHOD OF SHIPMENT:

CONSIGNMENT NOTE NO.

TRANSPORT CO.

CONSIGNMENT NOTE NO.

TRANSPORT CO

RECEIVED BY:

NAME: NC

DATE: 15/4 4:42PM

OF: EUROFINS

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 - Generic

13.6°C 788078

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 60482

PROJECT NAME: Kemps Creek DSI

DATE NEEDED BY: Standard TAT

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

LABORATORY BATCH NO.:

SAMPLERS: RL

QC LEVEL: NEPM (2013)

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....rlill@jbsg.com.au; (3) .....cdagger@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs	Asbestos	OCPs/PCBs	Phenols	Herbicides	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATIO	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
BH 417 0.0-0.1	Soil	14-4-21		J		X	X	X								
BH 417 0.0-0.2				B					X							
BH 416 0.0-0.1				J		X		X								
BH 416 0.0-0.2				B					X							
BH 415 [redacted] 0.0-0.2				PFAS Jar									X			
BH 415 0.0-0.1				J												
BH 415 0.0-0.2				B					X							
BH 414 0.0-0.1				J		X	X	X								
BH 414 0.0-0.2				B					X							
BH 412 0.0-0.4				B					X							
BH 412 0.0-0.1				J		X	X	X								
BH 413 0.0-0.1				J												
BH 413 0.0-0.1				B					X							
BH 284-B 0.0-0.1				J												
BH 284-B 0.2-0.3				J												
BH 284 0.0-0.1				J+B												
BH 284 0.2-0.3				J		X	X	X		X						
BH 285 0.0-0.1				J												
BH 285 0.2-0.3				J												
BH 286 0.0-0.1	↓	↓		BJ		X	X	X								

RELINQUISHED BY:

NAME: [signature] DATE: 14-4-21

OF: JBS&G

NAME: DATE:

OF:

METHOD OF SHIPMENT:

CONSIGNMENT NOTE NO.

TRANSPORT CO.

CONSIGNMENT NOTE NO.

TRANSPORT CO

RECEIVED BY:

NAME: NC

DATE: 15/4 4:42PM

OF: EUROFINS

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

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IMSO FormsO13 – Chain of Custody - Generic

13.6°C 788078

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 60482

PROJECT NAME: Kemps Creek DSI

DATE NEEDED BY: Standard TAT

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

LABORATORY BATCH NO.:

SAMPLERS: RL

QC LEVEL: NEPM (2013)

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....rlill@jbsg.com.au; (3) .....cdagger@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs	Asbestos	OCPs/PCBs	Phenols	Herbicides	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
BH 256 0.3-0.4	Soil	13-4-21		J			X									
BH 253 0.0-0.1				J												
BH 253 0.2-0.3				PFAS Jar + J		X	X	X		X			X			
BH 245 0.0-0.1				J												
BH 245 0.2-0.3				J												
BH 252 0.0-0.1				B+J		X	X					X				
BH 252 0.1-0.2				J												
BH 252 0.0-0.1				B+J		X	X	X		X		X				
BH 252 0.2-0.3				J			X									
BH 257 0.0-0.1				J												
BH 257 0.3-0.4				J												
BH 244 0.0-0.1				B+J		X	X					X				
BH 244 0.2-0.3				PFAS Jar + J				X					X			
BH 251 0.0-0.1				J												
BH 251 0.1-0.2				J		X	X			X						
BH 258 0.0-0.1				B+J												
BH 258 0.1-0.2				J		X	X	X		X						
BH 258 0.2-0.3				J												
BH 418 0.0-0.1				J		X	X	X		X						
BH 418 0.0-0.3				B					X							

RELINQUISHED BY:

NAME: Kyan Lill DATE: 14-4-21

OF: JBS&G

NAME: DATE:

OF:

METHOD OF SHIPMENT:

CONSIGNMENT NOTE NO.

TRANSPORT CO.

CONSIGNMENT NOTE NO.

TRANSPORT CO

RECEIVED BY:

NAME: NC

DATE: 15/4 4:42 PM

OF: EUROFINS

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 - Generic

13.6°C 788078

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 60482

PROJECT NAME: Kemps Creek DSI

DATE NEEDED BY: Standard TAT

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

LABORATORY BATCH NO.:

SAMPLERS: RL

QC LEVEL: NEPM (2013)

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....rlill@jbsg.com.au; (3) .....cdagger@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs	Asbestos	OCPs/PCBs	Phenols	Herbicides	PFAS	6:1 FTSA	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
BH356_0.0-0.1	Soil	15-4-21		J+B+PFAS		X	X	X		X		X					
↓ 0.3-0.4	↓	↓		J													
BH353_0.0-0.1				J+B		X	X	X	X								
↓ 0.3-0.4				J													
BH354_0.0-0.1				J+B+PFAS		X	X	X	X	X		X					
↓ 0.3-0.4				J													
BH355_0.0-0.1				J+B		X		X	X								
↓ 0.3-0.4				J													
QC09-Soil				J+B		X	X	X		X		X					
BH257_0.0-0.1				J+B		X	X	X									
↓ 0.3-0.4				J													
↓ 0.6-0.7				J													
BH258_0.0-0.2				J+B		X	X	X									
↓ 0.5-0.6	↓	↓		J													
RINSE140421	Water	15-4-21		2xV, 1xA, 1xM		X	X	X									
RINSE150421		15-4-21		↓		X	X	X									
TS	↓	↓		2xV									X				
TB				2xV									X				

RELINQUISHED BY:

NAME: Ryan Lill DATE: 14-4-21

OF: JBS&G

NAME: DATE:

OF:

METHOD OF SHIPMENT:

CONSIGNMENT NOTE NO.

TRANSPORT CO.

CONSIGNMENT NOTE NO.

TRANSPORT CO

RECEIVED BY:

NAME: NC

DATE: 15/4 4:42PM

OF: EUROFINS

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

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IMSO Forms013 – Chain of Custody - Generic

13.6°C 788078

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 60482 | LABORATORY BATCH NO.:

PROJECT NAME: Kemps Creek DSI | SAMPLERS: PG

DATE NEEDED BY: Standard TAT | 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) .....rlill@jbsg.com.au; (3) .....cdagger@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs	Asbestos	OCPs/PCBs	Phenols	Herbicides	PFAS 8272	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
BH296 0.0-0.1	Soil	14/4/21		J+B		x	x	x								
BH296 0.4-0.5				J												
BH272 0.0-0.1				J+B		x		x	x	x						
BH282 0.4-0.5				J+B			x		x							
BH297 0.0-0.1				J+B			x									
BH294 0.5-0.6				J+B												
BH274 0.0-0.1				J+B		x		x		x						
BH274 0.4-0.5				J												
BH295 0.0-0.1				J+B		x	x	x		x						
BH295 0.4-0.5				J												
BH295 0.0-0.1				J+B		x	x	x								
BH294 0.4-0.5				J												
BH298 0.0-0.1				J+B		x	x	x	x	x						
BH298 0.4-0.5				J												
EN140421	water			2xV, 1xA, 1xM		x	x	x								
~~2xV~~ TS				2xV									x			
TB				2xV									x			

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Kyan Lill DATE: 14-4-21	CONSIGNMENT NOTE NO.	NAME: NC	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 15/4 4:42PM	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	OF: EUROFINS	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 - Generic

13.6°C 788078

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 60482

PROJECT NAME: Kemps Creek DSI

DATE NEEDED BY: Standard TAT

LABORATORY BATCH NO.:

SAMPLERS: RL

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) .....rlill@jbsg.com.au; (3) .....cdagger@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs	Asbestos	OCPs/PCBs	Phenols	Herbicides	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
BH407-0.0-0.1	Soil	15-4-21		J+B+PFAS		x	x	x	x				x			
0.1-0.5				J+B												
0.7-0.8				J												
BH406 - 0.0-0.15				B												
0.15-0.3				J+B		x	x	x	x			x				
0.5-0.6				J												
BH408-0.0-0.1				B					x							
0.1-0.4				J+B												
0.5-0.6				J												
BH409 - 0.0-0.15				J+B					x				x			
0.15-0.4				B												
0.5-0.6				J												
BH410 - 0.0-0.2				J+B					x				-			
0.2-0.5				J+B+PFAS		x		x					x			
BH411 - 0.0-0.2				J+B					x							
0.4-0.5				J												
BH365-0.0-0.2				J+B+PFAS		x		x	x				x			
0.4-0.5				J												
BH419 - 0.0-0.15				B					x							
0.2-0.3	↓	↓		J+B												

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Ryan Lill DATE: 15-4-21 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: NC DATE: EUROFINS OF: 15/4 4:42PM	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

IB: 6°C 788078

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 60482

PROJECT NAME: Kemps Creek DSI

DATE NEEDED BY: Standard TAT

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

LABORATORY BATCH NO.:

SAMPLERS: RL

QC LEVEL: NEPM (2013)

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....rlill@jbsg.com.au; (3) .....cdagger@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs	Asbestos	OCPs/PCBs	Phenols	Herbicides	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
BH148 0.0-0.1	Soil	15/4		OTJ												
BH148 0.4-0.5				J												
BH314 0.0-0.1				OTB		x	x	x	x							
BH314 0.4-0.5				J												
BH313 0.0-0.1				OTB		x	x	·								
BH313 0.4-0.5				J												
BH315 0.0-0.1				OTB		x	x	x								
BH315 0.4-0.5				J												
BH325 0.0-0.1				OTB												
BH319_0.0-0.1				JTB												
BH318_0.0-0.2				VTB		x		x		x						
0.4-0.5				J												
BH317_0.0-0.2				TB				x	x							
0.4-0.5				J												
BH323_0.0-0.1				TB					x							
0.4-0.5				J												
BH327_0.0-0.1				TB		x	x	x								
0.3-0.4				J					x							
BH316_0.0-0.2				VTB												
0.4-0.5				J		x		x								

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Ryan Lill DATE: 15-4-21	CONSIGNMENT NOTE NO.	NAME: NC	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 15/4 4:42PM	
NAME: DATE:	CONSIGNMENT NOTE NO.	OF: EUROFINS	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

13.6°C 788078

CHAIN OF CUSTODY

PROJECT NO.: 60482

PROJECT NAME: Kemps Creek DSI

DATE NEEDED BY: Standard TAT

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

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....rlill@jbsg.com.au; (3) .....cdagger@jbsg.com.au

LABORATORY BATCH NO.:

SAMPLERS: RL

QC LEVEL: NEPM (2013)

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs	Asbestos	OCPs/PCBs	Phenols	Herbicides	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
BH247_0.0-0.2	Soil	15-4-21		J+B												
0.4-0.5				J												
BH248_0.0-0.1				J+B		x	-	-	x	x						
0.4-0.5				J												
BH249_0.0-0.2				J+B		-		x								
0.3-0.4				J												
BH250-0.0-0.2				J+B		-	x	-	x			x				
0.4-0.5				J												
BH122_0.0-0.2				J+B		x		-		x		x				
0.3-0.4				J												
BH123_0.0-0.2				J+B		x	x	x		x		-				
0.4-0.5				J												
BH324_0.0-0.2				J+B					x							
BH326_0.0-0.1				J+B					x							
BH307_0.0-0.15				J+B		x	x	-	x							
0.4-0.5				J												
BH311_0.0-0.1				~~J~~ J+B												
0.2-0.5				J												
BH312_0.0-0.1				J+B		-		-	x							
0.3-0.4				J												

RELINQUISHED BY:

NAME: Ryan Lill DATE: 15-4-21

OF: JBS&G

NAME: DATE:

OF:

METHOD OF SHIPMENT:

CONSIGNMENT NOTE NO.

TRANSPORT CO.

CONSIGNMENT NOTE NO.

TRANSPORT CO

RECEIVED BY:

NAME: NC

DATE: 15/4 4:45PM

OF: ECMROFNS

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 - Generic

13.6°C 788078

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 60482

PROJECT NAME: Kemps Creek DSI

DATE NEEDED BY: Standard TAT

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

LABORATORY BATCH NO.:

SAMPLERS: RL

QC LEVEL: NEPM (2013)

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....rlill@jbsg.com.au; (3) .....cdagger@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs	Asbestos	OCPs/PCBs	Phenols	Herbicides	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
BH158_0.0-0.2	Soil	15-4-21		J+B			x	x								
↓ 0.4-0.5	↓	↓		J												
BH159_0.0-0.2				J+B		x		x								
BH160_0.0-0.2				J+B												
↓ 0.4-0.5				J												
BH161_0.0-0.2				J+B		x		x		x						
~~0.4-0.5~~				~~J+B~~												
BH162_0.0-0.2				J+B			x	x								
↓ 0.4-0.5				J		x		x				x				
BH163_0.0-0.2				J+B												
BH164_0.0-0.2				J+B												
↓ 0.4-0.5				J			x	x								
BH165_0.0-0.2				J+B		x										
BH166_0.0-0.2				J+B			x	x								
↓ 0.4-0.5				J		~~x~~										
BH167_0.0-0.2				J+B			x									
BH168_0.0-0.2				J+B												
↓ 0.4-0.5				J			x									
BH321_0.0-0.1				J+B					x							
↓ 0.2-0.3	↓	↓		J												

RELINQUISHED BY:

NAME: Ryan Lill DATE: 15-4-21

OF: JBS&G

NAME: DATE:

OF:

METHOD OF SHIPMENT:

CONSIGNMENT NOTE NO.

TRANSPORT CO.

CONSIGNMENT NOTE NO.

TRANSPORT CO

RECEIVED BY:

NAME: NC

DATE: 15/4 4:42PM

OF: EUROFINS

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

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IMSO FormsO13 – Chain of Custody - Generic

13.6°C 788078

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 60482

PROJECT NAME: Kemps Creek DSI

DATE NEEDED BY: Standard TAT

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

LABORATORY BATCH NO.:

SAMPLERS:

QC LEVEL: NEPM (2013)

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....rlill@jbsg.com.au; (3) .....cdagger@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs	Asbestos	OCPs/PCBs	Phenols	Herbicides	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
BH321_0.5-0.6	Soil	15/4/21		J												
BH329_0.0-0.1				J+B		X	X	X	X							
0.2-0.3				J+B												
0.5-0.6				J		X		X								
QC12_Soil				J		X										
BH328_0.0-0.1				J+B		X	X	X		X						
0.2-0.3				J+B												
0.5-0.6				J												
BH330_0.0-0.2				J+B		X	X		X							
0.3-0.4				J+B												
0.6-0.7				J												
BH320_0.0-0.2				J+B												
0.4-0.5				J												
BH322_0.0-0.2				J+B												
0.4-0.5				J		X		X								
BH432_0.0-0.3				J+B+PFAS		X	X	X	X				X			
0.5-0.6				J+B		X		X								
0.7-0.8	↓	↓		J												

RELINQUISHED BY:

NAME: Ryan Lill DATE: 15-4-21

OF: JBS&G

NAME: DATE:

OF:

METHOD OF SHIPMENT:

CONSIGNMENT NOTE NO.

TRANSPORT CO.

CONSIGNMENT NOTE NO.

TRANSPORT CO

RECEIVED BY:

NAME: NC

DATE: 15/4 4:42PM

OF: ENVIROLAB

NAME: DATE:

OF:

FOR RECEIVING LAB USE ONLY:

COOLER SEAL – Yes..... No ..... Intact ..... Broken .....

COOLER TEMP ..... deg C

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IMSO FormsO13 – Chain of Custody - Generic

13.6°C 788078

Ryan Lill <rlill@jbsg.com.au>
Tue 4/20/2021 8:36 AM

To:

#AU04_Enviro_Sample_NSW

Good morning,

Could I please have the IDs of the following samples changed accordingly.

BH353 0-0.1	15/04/2021	21-Ap27701	to BH253 0-0.1
BH354 0.3-0.4	15/04/2021	21-Ap27812	to BH254 0.3-0.4
BH354 0-0.1	15/04/2021	21-Ap27702	to BH254 0-0.1
BH355 0.3-0.4	15/04/2021	21-Ap27813	to BH255 0.3-0.4
BH355 0-0.1	15/04/2021	21-Ap27703	to BH255 0-0.1
BH356 0.3-0.4	15/04/2021	21-Ap27814	to BH256 0.3-0.4
BH356 0-0.1	15/04/2021	21-Ap27704	to BH256 0-0.1

Kind Regards,

Ryan

Ryan Lill | Project Manager | JBS&G
Sydney | Melbourne | Adelaide | Perth | Brisbane | Canberra | Darwin | Wollongong | Bunbury
Level 1, 50 Margaret Street Sydney NSW 2000
T: 02 8245 0300 | M: 0468 771 734 | E: rlill@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

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ABN: 50 005 085 521 www.eurofins.com.au EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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:	Ryan Lill
Project name:	KEMPS CREEK DSI
Project ID:	60482
Turnaround time:	5 Day
Date/Time received	Apr 15, 2021 4:42 PM
Eurofins reference	788078

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 Sample Receipt : 13.6 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.
✓	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

Samples BH168 0.4 -0.5, BH258 0.5-0.6, BH421 0.4-0.5 and RIN150421 not received, analysis cancelled. Sample BH258 0-0.2 received 1 bag, expected 1 jar and 1 bag, analysis requiring the jar cancelled, please advise. Sample BH408 0.1-0.4 received 1 jar, expected 1 jar and 1 bag. Samples RIN140421, TS, TB all appeared twice on the COC, received only 1 set of containers for each sample. Received 2 jars labelled BH328 0.0-0.1. Received BH482 0.0-0.2 and BH482 0.5-0.6 not on the COC, logged on hold.

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 Ryan Lill - rlill@jbsg.com.au.

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New Zealand

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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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 788078
Phone: 02 8245 0300
Fax:

Received: Apr 15, 2021 4:42 PM
Due: Apr 22, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - AS4964	Asbestos - WA guidelines	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	BTEX	Suite B13: OCP/PCB	Moisture Set	Moisture Set	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B4	Eurofins Suite B6	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory																						
External Laboratory																						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**																	
1	BH122 0-0.2	Apr 15, 2021		Soil	S21-Ap27646					X	X	X		X		X						
2	BH123 0-0.2	Apr 15, 2021		Soil	S21-Ap27647						X			X		X	X					
3	BH158 0-0.2	Apr 15, 2021		Soil	S21-Ap27648											X			X			
4	BH159 0-0.2	Apr 15, 2021		Soil	S21-Ap27649					X		X				X						
5	BH161 0-0.2	Apr 15, 2021		Soil	S21-Ap27650					X		X		X		X						
6	BH162 0-0.2	Apr 15, 2021		Soil	S21-Ap27651											X			X			
7	BH162 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27652					X	X	X				X						
8	BH164 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27653											X			X			
9	BH165 0-0.2	Apr 15, 2021		Soil	S21-Ap27654							X				X						

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

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Phone: 02 8245 0300
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Received: Apr 15, 2021 4:42 PM
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Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - AS4964	Asbestos - WA guidelines	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	BTEX	Suite B13: OCP/PCB	Moisture Set	Moisture Set	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B4	Eurofins Suite B6	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory																						
External Laboratory																						
10	BH166 0-0.2	Apr 15, 2021		Soil	S21-Ap27655											X			X			
11	BH167 0-0.2	Apr 15, 2021		Soil	S21-Ap27656											X		X				
12	BH168 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27657			X														
13	BH244 0-0.1	Apr 15, 2021		Soil	S21-Ap27658						X					X				X		
14	BH244 0.2-0.3	Apr 15, 2021		Soil	S21-Ap27659					X						X					X	
15	BH248 0-0.1	Apr 15, 2021		Soil	S21-Ap27660		X							X		X	X					
16	BH249 0-0.2	Apr 15, 2021		Soil	S21-Ap27661					X		X				X						
17	BH250 0-0.2	Apr 15, 2021		Soil	S21-Ap27662		X				X					X	X					
18	BH251 0-0.1	Apr 15, 2021		Soil	S21-Ap27663						X					X	X					
19	BH252 0-0.1	Apr 15, 2021		Soil	S21-Ap27664						X					X				X		
20	BH257 0-0.1	Apr 15, 2021		Soil	S21-Ap27665											X	X					

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

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Project ID: 60482

Order No.:
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Phone: 02 8245 0300
Fax:

Received: Apr 15, 2021 4:42 PM
Due: Apr 22, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - AS4964	Asbestos - WA guidelines	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	BTEX	Suite B13: OCP/PCB	Moisture Set	Moisture Set	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B4	Eurofins Suite B6	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory																						
External Laboratory																						
21	BH258 0-0.2	Apr 15, 2021		Soil	S21-Ap27666			X														
22	BH271 0-0.1	Apr 14, 2021		Soil	S21-Ap27667					X		X		X		X						
23	BH272 0-0.1	Apr 14, 2021		Soil	S21-Ap27668		X			X		X		X		X						
24	BH272 0.4-0.5	Apr 14, 2021		Soil	S21-Ap27669		X									X		X				
25	BH281 0.1-0.2	Apr 15, 2021		Soil	S21-Ap27670									X		X				X		
26	BH282 0-0.1	Apr 15, 2021		Soil	S21-Ap27671						X			X		X	X					
27	BH282 0.2-0.3	Apr 15, 2021		Soil	S21-Ap27672											X		X				
28	BH283 0.2-0.3	Apr 15, 2021		Soil	S21-Ap27673									X		X	X				X	
29	BH284 0.2-0.3	Apr 14, 2021		Soil	S21-Ap27674									X		X	X					
30	BH285 0.2-0.3	Apr 14, 2021		Soil	S21-Ap27675											X	X					
31	BH286 0.3-0.4	Apr 15, 2021		Soil	S21-Ap27676											X		X				

eurofins | Environment Testing

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Melbourne
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NATA # 1261
Site # 1254 & 14271

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Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
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Brisbane
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Murarrie QLD 4172
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NSW 2000

Project Name: KEMPS CREEK DSI
Project ID: 60482

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Phone: 02 8245 0300
Fax:

Received: Apr 15, 2021 4:42 PM
Due: Apr 22, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - AS4964	Asbestos - WA guidelines	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	BTEX	Suite B13: OCP/PCB	Moisture Set	Moisture Set	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B4	Eurofins Suite B6	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory																						
External Laboratory																						
32	BH288 0.1-0.2	Apr 15, 2021		Soil	S21-Ap27677									X		X	X					
33	BH294 0-0.1	Apr 14, 2021		Soil	S21-Ap27678											X	X					
34	BH295 0-0.1	Apr 14, 2021		Soil	S21-Ap27679											X	X					
35	BH296 0-0.1	Apr 14, 2021		Soil	S21-Ap27680											X	X					
36	BH307 0-0.15	Apr 15, 2021		Soil	S21-Ap27681		X									X	X					
37	BH308 0-0.1	Apr 14, 2021		Soil	S21-Ap27682		X							X		X	X					
38	BH311 0.2-0.5	Apr 15, 2021		Soil	S21-Ap27683	X				X		X				X						
39	BH313 0-0.1	Apr 15, 2021		Soil	S21-Ap27684											X				X		
40	BH314 0-0.1	Apr 15, 2021		Soil	S21-Ap27685		X									X	X					
41	BH315 0-0.1	Apr 15, 2021		Soil	S21-Ap27686											X	X					
42	BH316 0-0.2	Apr 15, 2021		Soil	S21-Ap27687					X		X				X						

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Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
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Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory																						
External Laboratory																						
43	BH317 0-0.2	Apr 15, 2021		Soil	S21-Ap27688		X			X						X						
44	BH318 0-0.2	Apr 15, 2021		Soil	S21-Ap27689					X		X		X		X						
45	BH321 0-0.1	Apr 15, 2021		Soil	S21-Ap27690		X															
46	BH322 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27691					X		X				X						
47	BH323 0-0.1	Apr 15, 2021		Soil	S21-Ap27692		X															
48	BH323 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27693											X	X					
49	BH324 0-0.2	Apr 15, 2021		Soil	S21-Ap27694		X															
50	BH326 0-0.1	Apr 15, 2021		Soil	S21-Ap27695		X															
51	BH327 0-0.1	Apr 15, 2021		Soil	S21-Ap27696		X															
52	BH328 0-0.1	Apr 15, 2021		Soil	S21-Ap27697									X		X			X			
53	BH329 0-0.1	Apr 15, 2021		Soil	S21-Ap27698		X									X	X					

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Australia

Melbourne
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Unit F3, Building F
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Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory																						
External Laboratory																						
54	BH329 0.5-0.6	Apr 15, 2021		Soil	S21-Ap27699					X		X				X						
55	BH330 0-0.2	Apr 15, 2021		Soil	S21-Ap27700		X									X				X		
56	BH253 0-0.1	Apr 15, 2021		Soil	S21-Ap27701		X									X	X					
57	BH254 0-0.1	Apr 15, 2021		Soil	S21-Ap27702		X				X			X		X	X					
58	BH255 0-0.1	Apr 15, 2021		Soil	S21-Ap27703		X			X		X				X						
59	BH256 0-0.1	Apr 15, 2021		Soil	S21-Ap27704						X			X		X	X					
60	BH365 0-0.2	Apr 15, 2021		Soil	S21-Ap27705		X			X		X				X					X	
61	BH399 0-0.1	Apr 14, 2021		Soil	S21-Ap27706											X		X				
62	BH406 0.15-0.3	Apr 15, 2021		Soil	S21-Ap27707		X									X	X					
63	BH407 0-0.1	Apr 15, 2021		Soil	S21-Ap27708		X									X	X				X	

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Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory																						
External Laboratory																						
64	BH408 0-0.1	Apr 15, 2021		Soil	S21-Ap27709		X															
65	BH409 0-0.15	Apr 15, 2021		Soil	S21-Ap27710		X															
66	BH410 0-0.2	Apr 15, 2021		Soil	S21-Ap27711		X															
67	BH410 0.2-0.5	Apr 15, 2021		Soil	S21-Ap27712					X		X				X					X	
68	BH411 0-0.2	Apr 15, 2021		Soil	S21-Ap27713		X															
69	BH412 0-0.4	Apr 14, 2021		Soil	S21-Ap27714		X															
70	BH412 0-0.1	Apr 14, 2021		Soil	S21-Ap27715											X	X					
71	BH413 0-1	Apr 14, 2021		Soil	S21-Ap27716		X															
72	BH414 0-0.1	Apr 14, 2021		Soil	S21-Ap27717											X	X					
73	BH414 0-0.2	Apr 14, 2021		Soil	S21-Ap27718		X															
74	BH415 0-0.2	Apr 14, 2021		Soil	S21-Ap27719										X						X	

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Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory																						
External Laboratory																						
75	BH415 0-0.2	Apr 14, 2021		Soil	S21-Ap27720		X															
76	BH416 0-0.1	Apr 14, 2021		Soil	S21-Ap27721					X		X				X						
77	BH416 0-0.2	Apr 14, 2021		Soil	S21-Ap27722		X															
78	BH417 0-0.1	Apr 14, 2021		Soil	S21-Ap27723											X	X					
79	BH417 0-0.2	Apr 14, 2021		Soil	S21-Ap27724		X															
80	BH418 0-0.1	Apr 15, 2021		Soil	S21-Ap27725									X		X	X					
81	BH418 0-0.3	Apr 15, 2021		Soil	S21-Ap27726		X															
82	BH419 0-0.15	Apr 15, 2021		Soil	S21-Ap27727		X															
83	BH420 0-0.1	Apr 15, 2021		Soil	S21-Ap27728		X															
84	BH421 0-0.1	Apr 15, 2021		Soil	S21-Ap27729		X			X		X				X						
85	BH432 0-0.3	Apr 15, 2021		Soil	S21-Ap27730		X									X	X				X	

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Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory																						
External Laboratory																						
86	BH432 0.5-0.6	Apr 15, 2021		Soil	S21-Ap27731					X		X				X						
87	QC09 - SOIL	Apr 15, 2021		Soil	S21-Ap27732						X			X		X	X					
88	QC10 - SOIL	Apr 15, 2021		Soil	S21-Ap27733										X						X	
89	QC11 - SOIL	Apr 15, 2021		Soil	S21-Ap27734					X		X				X						
90	QC12 - SOIL	Apr 15, 2021		Soil	S21-Ap27735							X				X						
91	RIN140421	Apr 14, 2021		Water	S21-Ap27736												X					
92	RIN150421	Apr 15, 2021		Water	S21-Ap27738			X														
93	TB1	Apr 15, 2021		Water	S21-Ap27739								X									
94	TB2	Apr 14, 2021		Water	S21-Ap27740								X									
95	TS1	Apr 15, 2021		Water	S21-Ap27741																	X
96	TS2	Apr 14, 2021		Water	S21-Ap27742																	X

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Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory																						
External Laboratory																						
97	BH122 0.3-0.4	Apr 15, 2021		Soil	S21-Ap27743				X													
98	BH123 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27744				X													
99	BH148 0-0.1	Apr 15, 2021		Soil	S21-Ap27745				X													
100	BH148 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27746				X													
101	BH158 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27747				X													
102	BH160 0-0.2	Apr 15, 2021		Soil	S21-Ap27748				X													
103	BH160 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27749				X													
104	BH163 0-0.2	Apr 15, 2021		Soil	S21-Ap27750				X													
105	BH164 0-0.2	Apr 15, 2021		Soil	S21-Ap27751				X													
106	BH166 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27752				X													
107	BH168 0-0.2	Apr 15, 2021		Soil	S21-Ap27753				X													

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Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory																						
External Laboratory																						
108	BH232 0-0.1	Apr 15, 2021		Soil	S21-Ap27754				X													
109	BH232 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27755				X													
110	BH233 0-0.5	Apr 15, 2021		Soil	S21-Ap27756				X													
111	BH233 0.5-0.6	Apr 15, 2021		Soil	S21-Ap27757			X														
112	BH245 0-0.1	Apr 15, 2021		Soil	S21-Ap27758				X													
113	BH245 0.2-0.3	Apr 15, 2021		Soil	S21-Ap27759				X													
114	BH247 0-0.2	Apr 15, 2021		Soil	S21-Ap27760				X													
115	BH247 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27761				X													
116	BH248 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27762				X													
117	BH249 0.3-0.4	Apr 15, 2021		Soil	S21-Ap27763				X													
118	BH250 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27764				X													

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Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
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Project Name: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 788078
Phone: 02 8245 0300
Fax:

Received: Apr 15, 2021 4:42 PM
Due: Apr 22, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

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Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory																						
External Laboratory																						
119	BH251 0.2-0.3	Apr 15, 2021		Soil	S21-Ap27765				X													
120	BH252 0.1-0.2	Apr 15, 2021		Soil	S21-Ap27766				X													
121	BH257 0.3-0.4	Apr 15, 2021		Soil	S21-Ap27767				X													
122	BH257 0.6-0.7	Apr 15, 2021		Soil	S21-Ap27768				X													
123	BH258 0.5-0.6	Apr 15, 2021		Soil	S21-Ap27769			X														
124	BH262 0-0.1	Apr 15, 2021		Soil	S21-Ap27770				X													
125	BH262 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27771				X													
126	BH271 0.4-0.5	Apr 14, 2021		Soil	S21-Ap27772				X													
127	BH281 0-0.1	Apr 15, 2021		Soil	S21-Ap27773				X													
128	BH283 0-0.1	Apr 15, 2021		Soil	S21-Ap27774				X													
129	BH284 0-0.1	Apr 14, 2021		Soil	S21-Ap27775				X													

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Melbourne
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Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory																						
External Laboratory																						
130	BH284-B 0-0.1	Apr 14, 2021		Soil	S21-Ap27776				X													
131	BH284-B 0.2-0.3	Apr 14, 2021		Soil	S21-Ap27777				X													
132	BH285 0-0.1	Apr 14, 2021		Soil	S21-Ap27778				X													
133	BH286 0-0.1	Apr 14, 2021		Soil	S21-Ap27779				X													
134	BH287 0-0.1	Apr 15, 2021		Soil	S21-Ap27780				X													
135	BH287 0.3-0.4	Apr 15, 2021		Soil	S21-Ap27781				X													
136	BH288 0-0.1	Apr 15, 2021		Soil	S21-Ap27782				X													
137	BH288 0.2-0.3	Apr 15, 2021		Soil	S21-Ap27783				X													
138	BH294 0.4-0.5	Apr 14, 2021		Soil	S21-Ap27784				X													
139	BH295 0.4-0.5	Apr 14, 2021		Soil	S21-Ap27785				X													

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Australia

Melbourne
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Unit F3, Building F
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Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
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New Zealand

Auckland
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Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory																						
External Laboratory																						
140	BH296 0.4-0.5	Apr 14, 2021		Soil	S21-Ap27786				X													
141	BH307 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27787				X													
142	BH308 0.4-0.5	Apr 14, 2021		Soil	S21-Ap27788				X													
143	BH311 0-0.1	Apr 15, 2021		Soil	S21-Ap27789				X													
144	BH312 0-0.1	Apr 15, 2021		Soil	S21-Ap27790				X													
145	BH312 0.3-0.4	Apr 15, 2021		Soil	S21-Ap27791				X													
146	BH313 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27792				X													
147	BH314 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27793				X													
148	BH315 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27794				X													
149	BH316 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27795				X													
150	BH317 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27796				X													

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Australia

Melbourne
6 Monterey Road
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Phone : +61 3 8564 5000
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Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
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Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
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Auckland
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Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory																						
External Laboratory																						
151	BH318 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27797				X													
152	BH319 0-0.1	Apr 15, 2021		Soil	S21-Ap27798				X													
153	BH320 0-0.2	Apr 15, 2021		Soil	S21-Ap27799				X													
154	BH320 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27800				X													
155	BH321 0.2-0.3	Apr 15, 2021		Soil	S21-Ap27801				X													
156	BH321 0.5-0.6	Apr 15, 2021		Soil	S21-Ap27802				X													
157	BH322 0-0.2	Apr 15, 2021		Soil	S21-Ap27803				X													
158	BH325 0-0.1	Apr 15, 2021		Soil	S21-Ap27804				X													
159	BH327 0.3-0.4	Apr 15, 2021		Soil	S21-Ap27805				X													
160	BH328 0.2-0.3	Apr 15, 2021		Soil	S21-Ap27806				X													
161	BH328 0.5-0.6	Apr 15, 2021		Soil	S21-Ap27807				X													

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Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
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Brisbane
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Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
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Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
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Phone : +61 2 4968 8448

New Zealand

Auckland
35 O'Rorke Road
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Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory																						
External Laboratory																						
162	BH329 0.2-0.3	Apr 15, 2021		Soil	S21-Ap27808				X													
163	BH330 0.3-0.4	Apr 15, 2021		Soil	S21-Ap27809				X													
164	BH330 0.6-0.7	Apr 15, 2021		Soil	S21-Ap27810				X													
165	BH353 0.3-0.4	Apr 15, 2021		Soil	S21-Ap27811				X													
166	BH254 0.3-0.4	Apr 15, 2021		Soil	S21-Ap27812				X													
167	BH255 0.3-0.4	Apr 15, 2021		Soil	S21-Ap27813				X													
168	BH256 0.3-0.4	Apr 15, 2021		Soil	S21-Ap27814				X													
169	BH365 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27815				X													
170	BH399 0.5-0.6	Apr 14, 2021		Soil	S21-Ap27816				X													
171	BH406 0-0.15	Apr 15, 2021		Soil	S21-Ap27817				X													
172	BH406 0.5-0.6	Apr 15, 2021		Soil	S21-Ap27818				X													

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Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory																						
External Laboratory																						
173	BH407 0.1-0.5	Apr 15, 2021		Soil	S21-Ap27819				X													
174	BH407 0.7-0.8	Apr 15, 2021		Soil	S21-Ap27820				X													
175	BH408 0.1-0.4	Apr 15, 2021		Soil	S21-Ap27821				X													
176	BH408 0.5-0.6	Apr 15, 2021		Soil	S21-Ap27822				X													
177	BH409 0.15-0.4	Apr 15, 2021		Soil	S21-Ap27823				X													
178	BH409 0.5-0.6	Apr 15, 2021		Soil	S21-Ap27824				X													
179	BH411 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27825				X													
180	BH413 0-0.1	Apr 14, 2021		Soil	S21-Ap27826				X													
181	BH415 0-0.1	Apr 14, 2021		Soil	S21-Ap27827				X													
182	BH419 0.2-0.3	Apr 15, 2021		Soil	S21-Ap27828				X													

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Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory																						
External Laboratory																						
183	BH419 0.5-0.6	Apr 15, 2021		Soil	S21-Ap27829				X													
184	BH420 0.2-0.3	Apr 15, 2021		Soil	S21-Ap27830				X													
185	BH420 0.5-0.6	Apr 15, 2021		Soil	S21-Ap27831				X													
186	BH421 0.1-0.2	Apr 15, 2021		Soil	S21-Ap27832				X													
187	BH421 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27833			X														
188	BH421 0.8-0.9	Apr 15, 2021		Soil	S21-Ap27834				X													
189	BH432 0.7-0.8	Apr 15, 2021		Soil	S21-Ap27835				X													
190	RIN130421	Apr 15, 2021		Water	S21-Ap28191				X													
191	BH482 0.0-0.2	Apr 15, 2021		Soil	S21-Ap28192				X													
192	BH482 0.5-0.6	Apr 15, 2021		Soil	S21-Ap28193				X													
Test Counts						1	36	6	93	21	11	21	2	18	70	70	31	5	5	5	8	2

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 and proficiency testing scheme providers reports.

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
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Attention:	Ryan Lill
Report	788078-AID
Project Name	KEMPS CREEK DSI
Project ID	60482
Received Date	Apr 15, 2021
Date Reported	Apr 26, 2021

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.*

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 and proficiency testing scheme providers reports.

Project Name KEMPS CREEK DSI
Project ID 60482
Date Sampled Apr 14, 2021 to Apr 15, 2021
Report 788078-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
BH248 0-0.1	21-Ap27660	Apr 15, 2021	Approximate Sample 509g 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.
BH250 0-0.2	21-Ap27662	Apr 15, 2021	Approximate Sample 592g 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.
BH272 0-0.1	21-Ap27668	Apr 14, 2021	Approximate Sample 446g Sample consisted of: Brown fine-grained clayey soil, rocks and organic debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH272 0.4-0.5	21-Ap27669	Apr 14, 2021	Approximate Sample 556g 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.
BH307 0-0.15	21-Ap27681	Apr 15, 2021	Approximate Sample 486g 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.
BH308 0-0.1	21-Ap27682	Apr 14, 2021	Approximate Sample 722g Sample consisted of: Brown coarse-grained soil, rocks and organic debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH311 0.2-0.5	21-Ap27683	Apr 15, 2021	Approximate Sample 57g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
BH314 0-0.1	21-Ap27685	Apr 15, 2021	Approximate Sample 466g Sample consisted of: Brown coarse-grained soil, rocks and organic 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
BH317 0-0.2	21-Ap27688	Apr 15, 2021	Approximate Sample 510g Sample consisted of: Brown coarse-grained soil, rocks and organic debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH321 0-0.1	21-Ap27690	Apr 15, 2021	Approximate Sample 651g 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.
BH323 0-0.1	21-Ap27692	Apr 15, 2021	Approximate Sample 453g 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.
BH324 0-0.2	21-Ap27694	Apr 15, 2021	Approximate Sample 583g 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.
BH326 0-0.1	21-Ap27695	Apr 15, 2021	Approximate Sample 498g Sample consisted of: Brown fine-grained clayey soil, organic debris and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH327 0-0.1	21-Ap27696	Apr 15, 2021	Approximate Sample 476g Sample consisted of: Brown fine-grained clayey soil, rocks and organic debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH329 0-0.1	21-Ap27698	Apr 15, 2021	Approximate Sample 785g Sample consisted of: Brown coarse-grained soil, rocks and organic debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH330 0-0.2	21-Ap27700	Apr 15, 2021	Approximate Sample 740g 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.
BH253 0-0.1	21-Ap27701	Apr 15, 2021	Approximate Sample 437g Sample consisted of: Brown coarse-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH254 0-0.1	21-Ap27702	Apr 15, 2021	Approximate Sample 479g Sample consisted of: Brown fine-grained clayey soil, rocks and organic debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH255 0-0.1	21-Ap27703	Apr 15, 2021	Approximate Sample 614g 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.
BH365 0-0.2	21-Ap27705	Apr 15, 2021	Approximate Sample 517g 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.
BH406 0.15-0.3	21-Ap27707	Apr 15, 2021	Approximate Sample 493g 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
BH407 0-0.1	21-Ap27708	Apr 15, 2021	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.
BH408 0-0.1	21-Ap27709	Apr 15, 2021	Approximate Sample 483g 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.
BH409 0-0.15	21-Ap27710	Apr 15, 2021	Approximate Sample 452g 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.
BH410 0-0.2	21-Ap27711	Apr 15, 2021	Approximate Sample 466g 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.
BH411 0-0.2	21-Ap27713	Apr 15, 2021	Approximate Sample 629g 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.
BH412 0-0.4	21-Ap27714	Apr 14, 2021	Approximate Sample 503g Sample consisted of: Brown fine-grained clayey soil, organic debris and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH413 0-1	21-Ap27716	Apr 14, 2021	Approximate Sample 601g 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.
BH414 0-0.2	21-Ap27718	Apr 14, 2021	Approximate Sample 550g 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.
BH415 0-0.2	21-Ap27720	Apr 14, 2021	Approximate Sample 73g Sample consisted of: Brown fine-grained clayey soil and rocks	AF: Chrysotile asbestos detected in compressed fibre cement fragment. Approximate raw weight of AF = 0.00030g* Estimated asbestos content in AF = 0.000060g* Total estimated asbestos concentration in AF = 0.0000078% w/w* No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected.
BH416 0-0.2	21-Ap27722	Apr 14, 2021	Approximate Sample 608g 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.
BH417 0-0.2	21-Ap27724	Apr 14, 2021	Approximate Sample 560g 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.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
BH418 0-0.3	21-Ap27726	Apr 15, 2021	Approximate Sample 568g Sample consisted of: Brown coarse-grained 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.
BH419 0-0.15	21-Ap27727	Apr 15, 2021	Approximate Sample 457g Sample consisted of: Brown coarse-grained 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.
BH420 0-0.1	21-Ap27728	Apr 15, 2021	Approximate Sample 437g 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.
BH421 0-0.1	21-Ap27729	Apr 15, 2021	Approximate Sample 433g Sample consisted of: Brown coarse-grained 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.
BH432 0-0.3	21-Ap27730	Apr 15, 2021	Approximate Sample 486g 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.

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	Apr 22, 2021	Indefinite
Asbestos - LTM-ASB-8020	Sydney	Apr 22, 2021	Indefinite

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 788078
Phone: 02 8245 0300
Fax:

Received: Apr 15, 2021 4:42 PM
Due: Apr 22, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - AS4964	Asbestos - WA guidelines	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	BTEX	Suite B13: OCP/PCB	Moisture Set	Moisture Set	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B4	Eurofins Suite B6	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory - NATA Site # 25079																						
External Laboratory																						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**																	
1	BH122 0-0.2	Apr 15, 2021		Soil	S21-Ap27646					X	X	X		X		X						
2	BH123 0-0.2	Apr 15, 2021		Soil	S21-Ap27647						X			X		X	X					
3	BH158 0-0.2	Apr 15, 2021		Soil	S21-Ap27648											X			X			
4	BH159 0-0.2	Apr 15, 2021		Soil	S21-Ap27649					X		X				X						
5	BH161 0-0.2	Apr 15, 2021		Soil	S21-Ap27650					X		X		X		X						
6	BH162 0-0.2	Apr 15, 2021		Soil	S21-Ap27651											X			X			
7	BH162 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27652					X	X	X				X						
8	BH164 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27653											X			X			
9	BH165 0-0.2	Apr 15, 2021		Soil	S21-Ap27654							X				X						

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

New Zealand

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

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Address: Level 1, 50 Margaret St
Sydney
NSW 2000

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Priority: 5 Day
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Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory - NATA Site # 25079																						
External Laboratory																						
10	BH166 0-0.2	Apr 15, 2021		Soil	S21-Ap27655											X			X			
11	BH167 0-0.2	Apr 15, 2021		Soil	S21-Ap27656											X		X				
12	BH168 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27657			X														
13	BH244 0-0.1	Apr 15, 2021		Soil	S21-Ap27658						X					X				X		
14	BH244 0.2-0.3	Apr 15, 2021		Soil	S21-Ap27659					X						X					X	
15	BH248 0-0.1	Apr 15, 2021		Soil	S21-Ap27660		X							X		X	X					
16	BH249 0-0.2	Apr 15, 2021		Soil	S21-Ap27661					X		X				X						
17	BH250 0-0.2	Apr 15, 2021		Soil	S21-Ap27662		X				X					X	X					
18	BH251 0-0.1	Apr 15, 2021		Soil	S21-Ap27663						X					X	X					
19	BH252 0-0.1	Apr 15, 2021		Soil	S21-Ap27664						X					X				X		
20	BH257 0-0.1	Apr 15, 2021		Soil	S21-Ap27665											X	X					

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
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Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
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Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory - NATA Site # 25079																						
External Laboratory																						
21	BH258 0-0.2	Apr 15, 2021		Soil	S21-Ap27666			X														
22	BH271 0-0.1	Apr 14, 2021		Soil	S21-Ap27667					X		X		X		X						
23	BH272 0-0.1	Apr 14, 2021		Soil	S21-Ap27668		X			X		X		X		X						
24	BH272 0.4-0.5	Apr 14, 2021		Soil	S21-Ap27669		X									X		X				
25	BH281 0.1-0.2	Apr 15, 2021		Soil	S21-Ap27670									X		X				X		
26	BH282 0-0.1	Apr 15, 2021		Soil	S21-Ap27671						X			X		X	X					
27	BH282 0.2-0.3	Apr 15, 2021		Soil	S21-Ap27672											X		X				
28	BH283 0.2-0.3	Apr 15, 2021		Soil	S21-Ap27673									X		X	X				X	
29	BH284 0.2-0.3	Apr 14, 2021		Soil	S21-Ap27674									X		X	X					
30	BH285 0.2-0.3	Apr 14, 2021		Soil	S21-Ap27675											X	X					
31	BH286 0.3-0.4	Apr 15, 2021		Soil	S21-Ap27676											X		X				

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
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New Zealand

Auckland
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IANZ # 1327

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Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory - NATA Site # 25079																						
External Laboratory																						
32	BH288 0.1-0.2	Apr 15, 2021		Soil	S21-Ap27677									X		X	X					
33	BH294 0-0.1	Apr 14, 2021		Soil	S21-Ap27678											X	X					
34	BH295 0-0.1	Apr 14, 2021		Soil	S21-Ap27679											X	X					
35	BH296 0-0.1	Apr 14, 2021		Soil	S21-Ap27680											X	X					
36	BH307 0-0.15	Apr 15, 2021		Soil	S21-Ap27681		X									X	X					
37	BH308 0-0.1	Apr 14, 2021		Soil	S21-Ap27682		X							X		X	X					
38	BH311 0.2-0.5	Apr 15, 2021		Soil	S21-Ap27683	X				X		X				X						
39	BH313 0-0.1	Apr 15, 2021		Soil	S21-Ap27684											X				X		
40	BH314 0-0.1	Apr 15, 2021		Soil	S21-Ap27685		X									X	X					
41	BH315 0-0.1	Apr 15, 2021		Soil	S21-Ap27686											X	X					
42	BH316 0-0.2	Apr 15, 2021		Soil	S21-Ap27687					X		X				X						

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Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
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Auckland
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IANZ # 1290

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Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 788078
Phone: 02 8245 0300
Fax:

Received: Apr 15, 2021 4:42 PM
Due: Apr 22, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - AS4964	Asbestos - WA guidelines	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	BTEX	Suite B13: OCP/PCB	Moisture Set	Moisture Set	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B4	Eurofins Suite B6	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory - NATA Site # 25079																						
External Laboratory																						
43	BH317 0-0.2	Apr 15, 2021		Soil	S21-Ap27688		X			X						X						
44	BH318 0-0.2	Apr 15, 2021		Soil	S21-Ap27689					X		X		X		X						
45	BH321 0-0.1	Apr 15, 2021		Soil	S21-Ap27690		X															
46	BH322 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27691					X		X				X						
47	BH323 0-0.1	Apr 15, 2021		Soil	S21-Ap27692		X															
48	BH323 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27693											X	X					
49	BH324 0-0.2	Apr 15, 2021		Soil	S21-Ap27694		X															
50	BH326 0-0.1	Apr 15, 2021		Soil	S21-Ap27695		X															
51	BH327 0-0.1	Apr 15, 2021		Soil	S21-Ap27696		X															
52	BH328 0-0.1	Apr 15, 2021		Soil	S21-Ap27697									X		X			X			
53	BH329 0-0.1	Apr 15, 2021		Soil	S21-Ap27698		X									X	X					

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Australia

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Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory - NATA Site # 25079																						
External Laboratory																						
54	BH329 0.5-0.6	Apr 15, 2021		Soil	S21-Ap27699					X		X				X						
55	BH330 0-0.2	Apr 15, 2021		Soil	S21-Ap27700		X									X				X		
56	BH253 0-0.1	Apr 15, 2021		Soil	S21-Ap27701		X									X	X					
57	BH254 0-0.1	Apr 15, 2021		Soil	S21-Ap27702		X				X			X		X	X					
58	BH255 0-0.1	Apr 15, 2021		Soil	S21-Ap27703		X			X		X				X						
59	BH256 0-0.1	Apr 15, 2021		Soil	S21-Ap27704						X			X		X	X					
60	BH365 0-0.2	Apr 15, 2021		Soil	S21-Ap27705		X			X		X				X					X	
61	BH399 0-0.1	Apr 14, 2021		Soil	S21-Ap27706											X		X				
62	BH406 0.15-0.3	Apr 15, 2021		Soil	S21-Ap27707		X									X	X					
63	BH407 0-0.1	Apr 15, 2021		Soil	S21-Ap27708		X									X	X				X	

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Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory - NATA Site # 25079																						
External Laboratory																						
64	BH408 0-0.1	Apr 15, 2021		Soil	S21-Ap27709		X															
65	BH409 0-0.15	Apr 15, 2021		Soil	S21-Ap27710		X															
66	BH410 0-0.2	Apr 15, 2021		Soil	S21-Ap27711		X															
67	BH410 0.2-0.5	Apr 15, 2021		Soil	S21-Ap27712					X		X				X					X	
68	BH411 0-0.2	Apr 15, 2021		Soil	S21-Ap27713		X															
69	BH412 0-0.4	Apr 14, 2021		Soil	S21-Ap27714		X															
70	BH412 0-0.1	Apr 14, 2021		Soil	S21-Ap27715											X	X					
71	BH413 0-1	Apr 14, 2021		Soil	S21-Ap27716		X															
72	BH414 0-0.1	Apr 14, 2021		Soil	S21-Ap27717											X	X					
73	BH414 0-0.2	Apr 14, 2021		Soil	S21-Ap27718		X															
74	BH415 0-0.2	Apr 14, 2021		Soil	S21-Ap27719										X						X	

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Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory - NATA Site # 25079																						
External Laboratory																						
75	BH415 0-0.2	Apr 14, 2021		Soil	S21-Ap27720		X															
76	BH416 0-0.1	Apr 14, 2021		Soil	S21-Ap27721					X		X				X						
77	BH416 0-0.2	Apr 14, 2021		Soil	S21-Ap27722		X															
78	BH417 0-0.1	Apr 14, 2021		Soil	S21-Ap27723											X	X					
79	BH417 0-0.2	Apr 14, 2021		Soil	S21-Ap27724		X															
80	BH418 0-0.1	Apr 15, 2021		Soil	S21-Ap27725									X		X	X					
81	BH418 0-0.3	Apr 15, 2021		Soil	S21-Ap27726		X															
82	BH419 0-0.15	Apr 15, 2021		Soil	S21-Ap27727		X															
83	BH420 0-0.1	Apr 15, 2021		Soil	S21-Ap27728		X															
84	BH421 0-0.1	Apr 15, 2021		Soil	S21-Ap27729		X			X		X				X						
85	BH432 0-0.3	Apr 15, 2021		Soil	S21-Ap27730		X									X	X				X	

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NATA # 1261
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Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
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NATA # 1261 Site # 18217

Brisbane
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Perth
46-48 Banksia Road
Welshpool WA 6106
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Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
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NATA # 1261 Site # 25079

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Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory - NATA Site # 25079																						
External Laboratory																						
86	BH432 0.5-0.6	Apr 15, 2021		Soil	S21-Ap27731					X		X				X						
87	QC09 - SOIL	Apr 15, 2021		Soil	S21-Ap27732						X			X		X	X					
88	QC10 - SOIL	Apr 15, 2021		Soil	S21-Ap27733										X						X	
89	QC11 - SOIL	Apr 15, 2021		Soil	S21-Ap27734					X		X				X						
90	QC12 - SOIL	Apr 15, 2021		Soil	S21-Ap27735							X				X						
91	RIN140421	Apr 14, 2021		Water	S21-Ap27736												X					
92	RIN150421	Apr 15, 2021		Water	S21-Ap27738			X														
93	TB1	Apr 15, 2021		Water	S21-Ap27739								X									
94	TB2	Apr 14, 2021		Water	S21-Ap27740								X									
95	TS1	Apr 15, 2021		Water	S21-Ap27741																	X
96	TS2	Apr 14, 2021		Water	S21-Ap27742																	X

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Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
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External Laboratory																						
97	BH122 0.3-0.4	Apr 15, 2021		Soil	S21-Ap27743				X													
98	BH123 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27744				X													
99	BH148 0-0.1	Apr 15, 2021		Soil	S21-Ap27745				X													
100	BH148 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27746				X													
101	BH158 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27747				X													
102	BH160 0-0.2	Apr 15, 2021		Soil	S21-Ap27748				X													
103	BH160 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27749				X													
104	BH163 0-0.2	Apr 15, 2021		Soil	S21-Ap27750				X													
105	BH164 0-0.2	Apr 15, 2021		Soil	S21-Ap27751				X													
106	BH166 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27752				X													
107	BH168 0-0.2	Apr 15, 2021		Soil	S21-Ap27753				X													

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Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
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External Laboratory																						
108	BH232 0-0.1	Apr 15, 2021		Soil	S21-Ap27754				X													
109	BH232 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27755				X													
110	BH233 0-0.5	Apr 15, 2021		Soil	S21-Ap27756				X													
111	BH233 0.5-0.6	Apr 15, 2021		Soil	S21-Ap27757			X														
112	BH245 0-0.1	Apr 15, 2021		Soil	S21-Ap27758				X													
113	BH245 0.2-0.3	Apr 15, 2021		Soil	S21-Ap27759				X													
114	BH247 0-0.2	Apr 15, 2021		Soil	S21-Ap27760				X													
115	BH247 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27761				X													
116	BH248 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27762				X													
117	BH249 0.3-0.4	Apr 15, 2021		Soil	S21-Ap27763				X													
118	BH250 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27764				X													

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Sample Detail						Asbestos - AS4964	Asbestos - WA guidelines	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	BTEX	Suite B13: OCP/PCB	Moisture Set	Moisture Set	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B4	Eurofins Suite B6	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory - NATA Site # 25079																						
External Laboratory																						
119	BH251 0.2-0.3	Apr 15, 2021		Soil	S21-Ap27765				X													
120	BH252 0.1-0.2	Apr 15, 2021		Soil	S21-Ap27766				X													
121	BH257 0.3-0.4	Apr 15, 2021		Soil	S21-Ap27767				X													
122	BH257 0.6-0.7	Apr 15, 2021		Soil	S21-Ap27768				X													
123	BH258 0.5-0.6	Apr 15, 2021		Soil	S21-Ap27769			X														
124	BH262 0-0.1	Apr 15, 2021		Soil	S21-Ap27770				X													
125	BH262 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27771				X													
126	BH271 0.4-0.5	Apr 14, 2021		Soil	S21-Ap27772				X													
127	BH281 0-0.1	Apr 15, 2021		Soil	S21-Ap27773				X													
128	BH283 0-0.1	Apr 15, 2021		Soil	S21-Ap27774				X													
129	BH284 0-0.1	Apr 14, 2021		Soil	S21-Ap27775				X													

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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Lane Cove West NSW 2066
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NSW 2000

Project Name: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 788078
Phone: 02 8245 0300
Fax:

Received: Apr 15, 2021 4:42 PM
Due: Apr 22, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

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Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory - NATA Site # 25079																						
External Laboratory																						
130	BH284-B 0-0.1	Apr 14, 2021		Soil	S21-Ap27776				X													
131	BH284-B 0.2-0.3	Apr 14, 2021		Soil	S21-Ap27777				X													
132	BH285 0-0.1	Apr 14, 2021		Soil	S21-Ap27778				X													
133	BH286 0-0.1	Apr 14, 2021		Soil	S21-Ap27779				X													
134	BH287 0-0.1	Apr 15, 2021		Soil	S21-Ap27780				X													
135	BH287 0.3-0.4	Apr 15, 2021		Soil	S21-Ap27781				X													
136	BH288 0-0.1	Apr 15, 2021		Soil	S21-Ap27782				X													
137	BH288 0.2-0.3	Apr 15, 2021		Soil	S21-Ap27783				X													
138	BH294 0.4-0.5	Apr 14, 2021		Soil	S21-Ap27784				X													
139	BH295 0.4-0.5	Apr 14, 2021		Soil	S21-Ap27785				X													

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Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory - NATA Site # 25079																						
External Laboratory																						
140	BH296 0.4-0.5	Apr 14, 2021		Soil	S21-Ap27786				X													
141	BH307 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27787				X													
142	BH308 0.4-0.5	Apr 14, 2021		Soil	S21-Ap27788				X													
143	BH311 0-0.1	Apr 15, 2021		Soil	S21-Ap27789				X													
144	BH312 0-0.1	Apr 15, 2021		Soil	S21-Ap27790				X													
145	BH312 0.3-0.4	Apr 15, 2021		Soil	S21-Ap27791				X													
146	BH313 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27792				X													
147	BH314 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27793				X													
148	BH315 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27794				X													
149	BH316 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27795				X													
150	BH317 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27796				X													

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Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory - NATA Site # 25079																						
External Laboratory																						
151	BH318 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27797				X													
152	BH319 0-0.1	Apr 15, 2021		Soil	S21-Ap27798				X													
153	BH320 0-0.2	Apr 15, 2021		Soil	S21-Ap27799				X													
154	BH320 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27800				X													
155	BH321 0.2-0.3	Apr 15, 2021		Soil	S21-Ap27801				X													
156	BH321 0.5-0.6	Apr 15, 2021		Soil	S21-Ap27802				X													
157	BH322 0-0.2	Apr 15, 2021		Soil	S21-Ap27803				X													
158	BH325 0-0.1	Apr 15, 2021		Soil	S21-Ap27804				X													
159	BH327 0.3-0.4	Apr 15, 2021		Soil	S21-Ap27805				X													
160	BH328 0.2-0.3	Apr 15, 2021		Soil	S21-Ap27806				X													
161	BH328 0.5-0.6	Apr 15, 2021		Soil	S21-Ap27807				X													

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Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory - NATA Site # 25079																						
External Laboratory																						
162	BH329 0.2-0.3	Apr 15, 2021		Soil	S21-Ap27808				X													
163	BH330 0.3-0.4	Apr 15, 2021		Soil	S21-Ap27809				X													
164	BH330 0.6-0.7	Apr 15, 2021		Soil	S21-Ap27810				X													
165	BH353 0.3-0.4	Apr 15, 2021		Soil	S21-Ap27811				X													
166	BH254 0.3-0.4	Apr 15, 2021		Soil	S21-Ap27812				X													
167	BH255 0.3-0.4	Apr 15, 2021		Soil	S21-Ap27813				X													
168	BH256 0.3-0.4	Apr 15, 2021		Soil	S21-Ap27814				X													
169	BH365 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27815				X													
170	BH399 0.5-0.6	Apr 14, 2021		Soil	S21-Ap27816				X													
171	BH406 0-0.15	Apr 15, 2021		Soil	S21-Ap27817				X													
172	BH406 0.5-0.6	Apr 15, 2021		Soil	S21-Ap27818				X													

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Australia

Melbourne
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Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory - NATA Site # 25079																						
External Laboratory																						
173	BH407 0.1-0.5	Apr 15, 2021		Soil	S21-Ap27819				X													
174	BH407 0.7-0.8	Apr 15, 2021		Soil	S21-Ap27820				X													
175	BH408 0.1-0.4	Apr 15, 2021		Soil	S21-Ap27821				X													
176	BH408 0.5-0.6	Apr 15, 2021		Soil	S21-Ap27822				X													
177	BH409 0.15-0.4	Apr 15, 2021		Soil	S21-Ap27823				X													
178	BH409 0.5-0.6	Apr 15, 2021		Soil	S21-Ap27824				X													
179	BH411 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27825				X													
180	BH413 0-0.1	Apr 14, 2021		Soil	S21-Ap27826				X													
181	BH415 0-0.1	Apr 14, 2021		Soil	S21-Ap27827				X													
182	BH419 0.2-0.3	Apr 15, 2021		Soil	S21-Ap27828				X													

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Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory - NATA Site # 25079																						
External Laboratory																						
183	BH419 0.5-0.6	Apr 15, 2021		Soil	S21-Ap27829				X													
184	BH420 0.2-0.3	Apr 15, 2021		Soil	S21-Ap27830				X													
185	BH420 0.5-0.6	Apr 15, 2021		Soil	S21-Ap27831				X													
186	BH421 0.1-0.2	Apr 15, 2021		Soil	S21-Ap27832				X													
187	BH421 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27833			X														
188	BH421 0.8-0.9	Apr 15, 2021		Soil	S21-Ap27834				X													
189	BH432 0.7-0.8	Apr 15, 2021		Soil	S21-Ap27835				X													
190	RIN130421	Apr 15, 2021		Water	S21-Ap28191				X													
191	BH482 0.0-0.2	Apr 15, 2021		Soil	S21-Ap28192				X													
192	BH482 0.5-0.6	Apr 15, 2021		Soil	S21-Ap28193				X													
Test Counts						1	36	6	93	21	11	21	2	18	70	70	31	5	5	5	8	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 blue colour, 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 '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 Advice.

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: weight for weight basis	grams per kilogram
Filter loading:	fibres/100 graticule areas
Reported Concentration:	fibres/mL
Flowrate:	L/min

Terms

Dry	Sample is dried by heating prior to analysis
LOR	Limit of Reporting
COC	Chain of Custody
SRA	Sample Receipt Advice
ISO	International Standards Organisation
AS	Australian Standards
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 (2009), including supporting document Recommended Procedures for Laboratory Analysis of Asbestos in Soil (2011)
NEPM	National Environment Protection (Assessment of Site Contamination) Measure, 2013 (as amended)
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded and/or sound condition. For the purposes of the NEPM, ACM is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
AF	Asbestos Fines. Asbestos containing materials, including friable, weathered and bonded materials, able to pass a 7mm x 7mm sieve. Considered under the NEPM as equivalent to “non-bonded / friable”.
FA	Fibrous Asbestos. Asbestos containing materials in a friable and/or severely weathered condition. For the purposes of the NEPM, FA is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
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.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres in the matrix.

Comments

Ap27668, Ap27681, Ap27685, Ap27692, Ap27695, Ap27696, Ap27701, Ap27702, Ap27707, Ap27709, Ap27710, Ap27711, Ap27727, Ap27728, Ap27729, Ap27730: 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.

Ap27683: The sample received was not collected in an approved asbestos bag and was therefore sub-sampled from the 250mL glass jar. Valid sub-sampling procedures were applied so as to ensure that the sub-sample to be analysed accurately represented the sample received.

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
N/A	Not applicable

Asbestos Counter/Identifier:

Chamath JHM Annakkage	Senior Analyst-Asbestos (NSW)

Authorised by:

Laxman Dias	Senior Analyst-Asbestos (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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JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

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Attention: **Ryan Lill**

Report **788078-S**
Project name KEMPS CREEK DSI
Project ID 60482
Received Date Apr 15, 2021

Client Sample ID			**BH122 0-0.2**	**BH123 0-0.2**	**BH158 0-0.2**	**BH159 0-0.2**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**S21-Ap27646**	**S21-Ap27647**	**S21-Ap27648**	**S21-Ap27649**
Date Sampled			**Apr 15, 2021**	**Apr 15, 2021**	**Apr 15, 2021**	**Apr 15, 2021**
Test/Reference	LOR	Unit				
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	%	128	98	91	85
p-Terphenyl-d14 (surr.)	1	%	114	97	88	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	< 0.05	-	-
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	-	-

Client Sample ID			BH122 0-0.2	BH123 0-0.2	BH158 0-0.2	BH159 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap27646	S21-Ap27647	S21-Ap27648	S21-Ap27649
Date Sampled			Apr 15, 2021	Apr 15, 2021	Apr 15, 2021	Apr 15, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Endrin	0.05	mg/kg	< 0.05	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	0.06	< 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	0.1	mg/kg	< 0.1	< 0.1	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2	< 0.2	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2	< 0.2	-	-
Dibutylchlorendate (surr.)	1	%	147	112	-	-
Tetrachloro-m-xylene (surr.)	1	%	99	97	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	< 0.5	< 0.5	-	-
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	-	-
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	%	147	112	-	-
Tetrachloro-m-xylene (surr.)	1	%	99	97	-	-
Acid Herbicides						
2.4-D	0.5	mg/kg	< 0.5	< 0.5	-	-
2.4-DB	0.5	mg/kg	< 0.5	< 0.5	-	-
2.4.5-T	0.5	mg/kg	< 0.5	< 0.5	-	-
2.4.5-TP	0.5	mg/kg	< 0.5	< 0.5	-	-
Actril (loxynil)	0.5	mg/kg	< 0.5	< 0.5	-	-
Dicamba	0.5	mg/kg	< 0.5	< 0.5	-	-
Dichlorprop	0.5	mg/kg	< 0.5	< 0.5	-	-
Dinitro-o-cresol	0.5	mg/kg	< 0.5	< 0.5	-	-
Dinoseb	0.5	mg/kg	< 0.5	< 0.5	-	-
MCPA	0.5	mg/kg	< 0.5	< 0.5	-	-
MCPB	0.5	mg/kg	< 0.5	< 0.5	-	-
Mecoprop	0.5	mg/kg	< 0.5	< 0.5	-	-
Warfarin (surr.)	1	%	106	103	-	-
Heavy Metals						
Arsenic	2	mg/kg	8.6	9.9	-	14
Cadmium	0.4	mg/kg	< 0.4	< 0.4	-	< 0.4
Chromium	5	mg/kg	13	16	-	18
Copper	5	mg/kg	50	59	-	7.9
Lead	5	mg/kg	15	17	-	16
Mercury	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Nickel	5	mg/kg	7.6	9.4	-	7.3
Zinc	5	mg/kg	67	80	-	20

Client Sample ID			BH122 0-0.2	BH123 0-0.2	BH158 0-0.2	BH159 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap27646	S21-Ap27647	S21-Ap27648	S21-Ap27649
Date Sampled			Apr 15, 2021	Apr 15, 2021	Apr 15, 2021	Apr 15, 2021
Test/Reference	LOR	Unit				
% Moisture	1	%	9.9	4.1	8.4	9.8
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	55	-
TRH C10-C36 (Total)	50	mg/kg	-	< 50	55	-
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	%	-	INT	INT	-
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	-
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	< 100	-

Client Sample ID			BH161 0-0.2	BH162 0-0.2	BH162 0.4-0.5	BH164 0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap27650	S21-Ap27651	S21-Ap27652	S21-Ap27653
Date Sampled			Apr 15, 2021	Apr 15, 2021	Apr 15, 2021	Apr 15, 2021
Test/Reference	LOR	Unit				
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

Client Sample ID			BH161 0-0.2	BH162 0-0.2	BH162 0.4-0.5	BH164 0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap27650	S21-Ap27651	S21-Ap27652	S21-Ap27653
Date Sampled			Apr 15, 2021	Apr 15, 2021	Apr 15, 2021	Apr 15, 2021
Test/Reference	LOR	Unit				
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	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	88	88	86	89
p-Terphenyl-d14 (surr.)	1	%	89	93	88	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	0.1	mg/kg	< 0.1	-	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2	-	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2	-	-	-
Dibutylchlorendate (surr.)	1	%	106	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	75	-	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1221	0.1	mg/kg	< 0.1	-	-	-
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	%	106	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	75	-	-	-
Acid Herbicides						
2.4-D	0.5	mg/kg	-	-	< 0.5	-
2.4-DB	0.5	mg/kg	-	-	< 0.5	-
2.4.5-T	0.5	mg/kg	-	-	< 0.5	-
2.4.5-TP	0.5	mg/kg	-	-	< 0.5	-

Client Sample ID			BH161 0-0.2	BH162 0-0.2	BH162 0.4-0.5	BH164 0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap27650	S21-Ap27651	S21-Ap27652	S21-Ap27653
Date Sampled			Apr 15, 2021	Apr 15, 2021	Apr 15, 2021	Apr 15, 2021
Test/Reference	LOR	Unit				
Acid Herbicides						
Actril (loxynil)	0.5	mg/kg	-	-	< 0.5	-
Dicamba	0.5	mg/kg	-	-	< 0.5	-
Dichlorprop	0.5	mg/kg	-	-	< 0.5	-
Dinitro-o-cresol	0.5	mg/kg	-	-	< 0.5	-
Dinoseb	0.5	mg/kg	-	-	< 0.5	-
MCPA	0.5	mg/kg	-	-	< 0.5	-
MCPB	0.5	mg/kg	-	-	< 0.5	-
Mecoprop	0.5	mg/kg	-	-	< 0.5	-
Warfarin (surr.)	1	%	-	-	99	-
Heavy Metals						
Arsenic	2	mg/kg	9.7	-	11	-
Cadmium	0.4	mg/kg	< 0.4	-	< 0.4	-
Chromium	5	mg/kg	14	-	15	-
Copper	5	mg/kg	7.7	-	8.3	-
Lead	5	mg/kg	14	-	12	-
Mercury	0.1	mg/kg	< 0.1	-	< 0.1	-
Nickel	5	mg/kg	6.1	-	7.6	-
Zinc	5	mg/kg	20	-	19	-
% Moisture	1	%	9.5	9.7	9.3	11
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-C36 (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	%	-	INT	-	62
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
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	-	< 100

Client Sample ID			BH165 0-0.2	BH166 0-0.2	BH167 0-0.2	BH244 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap27654	S21-Ap27655	S21-Ap27656	S21-Ap27658
Date Sampled			Apr 15, 2021	Apr 15, 2021	Apr 15, 2021	Apr 15, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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	-	-
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	-	-
2-Fluorobiphenyl (surr.)	1	%	-	91	-	-
p-Terphenyl-d14 (surr.)	1	%	-	92	-	-
Acid Herbicides						
2.4-D	0.5	mg/kg	-	-	-	< 0.5
2.4-DB	0.5	mg/kg	-	-	-	< 0.5
2.4.5-T	0.5	mg/kg	-	-	-	< 0.5
2.4.5-TP	0.5	mg/kg	-	-	-	< 0.5
Actril (loxynil)	0.5	mg/kg	-	-	-	< 0.5
Dicamba	0.5	mg/kg	-	-	-	< 0.5
Dichlorprop	0.5	mg/kg	-	-	-	< 0.5
Dinitro-o-cresol	0.5	mg/kg	-	-	-	< 0.5
Dinoseb	0.5	mg/kg	-	-	-	< 0.5
MCPA	0.5	mg/kg	-	-	-	< 0.5
MCPB	0.5	mg/kg	-	-	-	< 0.5
Mecoprop	0.5	mg/kg	-	-	-	< 0.5
Warfarin (surr.)	1	%	-	-	-	98
Heavy Metals						
Arsenic	2	mg/kg	8.6	-	-	10
Cadmium	0.4	mg/kg	< 0.4	-	-	< 0.4
Chromium	5	mg/kg	11	-	-	16
Copper	5	mg/kg	6.2	-	-	29
Lead	5	mg/kg	14	-	-	19
Mercury	0.1	mg/kg	< 0.1	-	-	< 0.1
Nickel	5	mg/kg	5.2	-	-	12
Zinc	5	mg/kg	22	-	-	70
% Moisture	1	%	10	8.4	12	22

Client Sample ID			BH165 0-0.2	BH166 0-0.2	BH167 0-0.2	BH244 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap27654	S21-Ap27655	S21-Ap27656	S21-Ap27658
Date Sampled			Apr 15, 2021	Apr 15, 2021	Apr 15, 2021	Apr 15, 2021
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	< 50	< 50
TRH C10-C36 (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	%	-	62	59	54
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
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	< 100	< 100

Client Sample ID			BH244 0.2-0.3	BH248 0-0.1	BH249 0-0.2	BH250 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap27659	S21-Ap27660	S21-Ap27661	S21-Ap27662
Date Sampled			Apr 15, 2021	Apr 15, 2021	Apr 15, 2021	Apr 15, 2021
Test/Reference	LOR	Unit				
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

Client Sample ID			BH244 0.2-0.3	BH248 0-0.1	BH249 0-0.2	BH250 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap27659	S21-Ap27660	S21-Ap27661	S21-Ap27662
Date Sampled			Apr 15, 2021	Apr 15, 2021	Apr 15, 2021	Apr 15, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	92	96	116	90
p-Terphenyl-d14 (surr.)	1	%	93	100	118	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	0.1	mg/kg	-	< 0.1	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.2	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.2	-	-
Dibutylchlorendate (surr.)	1	%	-	119	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	101	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	< 0.5	-	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	-
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	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	101	-	-
Acid Herbicides						
2.4-D	0.5	mg/kg	-	-	-	< 0.5
2.4-DB	0.5	mg/kg	-	-	-	< 0.5
2.4.5-T	0.5	mg/kg	-	-	-	< 0.5
2.4.5-TP	0.5	mg/kg	-	-	-	< 0.5
Actril (loxynil)	0.5	mg/kg	-	-	-	< 0.5
Dicamba	0.5	mg/kg	-	-	-	< 0.5

Client Sample ID			BH244 0.2-0.3	BH248 0-0.1	BH249 0-0.2	BH250 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap27659	S21-Ap27660	S21-Ap27661	S21-Ap27662
Date Sampled			Apr 15, 2021	Apr 15, 2021	Apr 15, 2021	Apr 15, 2021
Test/Reference	LOR	Unit				
Acid Herbicides						
Dichlorprop	0.5	mg/kg	-	-	-	< 0.5
Dinitro-o-cresol	0.5	mg/kg	-	-	-	< 0.5
Dinoseb	0.5	mg/kg	-	-	-	< 0.5
MCPA	0.5	mg/kg	-	-	-	< 0.5
MCPB	0.5	mg/kg	-	-	-	< 0.5
Mecoprop	0.5	mg/kg	-	-	-	< 0.5
Warfarin (surr.)	1	%	-	-	-	100
Heavy Metals						
Arsenic	2	mg/kg	-	12	11	13
Cadmium	0.4	mg/kg	-	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	-	17	18	21
Copper	5	mg/kg	-	61	81	81
Lead	5	mg/kg	-	19	22	23
Mercury	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	-	9.7	13	13
Zinc	5	mg/kg	-	87	110	110
% Moisture	1	%	20	3.8	3.0	4.1
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-C36 (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	%	-	82	-	INT
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
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	-	< 100
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	< 5	-	-	-
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	< 5	-	-	-
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	< 5	-	-	-

Client Sample ID			BH244 0.2-0.3	BH248 0-0.1	BH249 0-0.2	BH250 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap27659	S21-Ap27660	S21-Ap27661	S21-Ap27662
Date Sampled			Apr 15, 2021	Apr 15, 2021	Apr 15, 2021	Apr 15, 2021
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	< 5	-	-	-
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	< 5	-	-	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	< 5	-	-	-
13C4-PFBA (surr.)	1	%	132	-	-	-
13C5-PFPeA (surr.)	1	%	69	-	-	-
13C5-PFHxA (surr.)	1	%	64	-	-	-
13C4-PFHpA (surr.)	1	%	87	-	-	-
13C8-PFOA (surr.)	1	%	89	-	-	-
13C5-PFNA (surr.)	1	%	100	-	-	-
13C6-PFDA (surr.)	1	%	96	-	-	-
13C2-PFUnDA (surr.)	1	%	104	-	-	-
13C2-PFDoDA (surr.)	1	%	106	-	-	-
13C2-PFTeDA (surr.)	1	%	89	-	-	-
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	< 5	-	-	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	< 5	-	-	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	< 5	-	-	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)[N11]	5	ug/kg	< 5	-	-	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)[N11]	5	ug/kg	< 5	-	-	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	< 10	-	-	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	< 10	-	-	-
13C8-FOSA (surr.)	1	%	106	-	-	-
D3-N-MeFOSA (surr.)	1	%	121	-	-	-
D5-N-EtFOSA (surr.)	1	%	140	-	-	-
D7-N-MeFOSE (surr.)	1	%	82	-	-	-
D9-N-EtFOSE (surr.)	1	%	88	-	-	-
D5-N-EtFOSAA (surr.)	1	%	102	-	-	-
D3-N-MeFOSAA (surr.)	1	%	149	-	-	-
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5	-	-	-
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5	-	-	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5	-	-	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5	-	-	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	-	-	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	< 5	-	-	-
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5	-	-	-
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	< 5	-	-	-
13C3-PFBS (surr.)	1	%	71	-	-	-
18O2-PFHxS (surr.)	1	%	115	-	-	-
13C8-PFOS (surr.)	1	%	119	-	-	-

Client Sample ID			BH244 0.2-0.3	BH248 0-0.1	BH249 0-0.2	BH250 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap27659	S21-Ap27660	S21-Ap27661	S21-Ap27662
Date Sampled			Apr 15, 2021	Apr 15, 2021	Apr 15, 2021	Apr 15, 2021
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5	-	-	-
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)[N11]	10	ug/kg	< 10	-	-	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5	-	-	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5	-	-	-
13C2-4:2 FTS (surr.)	1	%	89	-	-	-
13C2-6:2 FTSA (surr.)	1	%	99	-	-	-
13C2-8:2 FTSA (surr.)	1	%	104	-	-	-
13C2-10:2 FTSA (surr.)	1	%	99	-	-	-
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	-	-	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	-	-	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	-	-	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	-	-	-
Sum of PFASs (n=30)*	50	ug/kg	< 50	-	-	-

Client Sample ID			BH251 0-0.1	BH252 0-0.1	BH257 0-0.1	BH271 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap27663	S21-Ap27664	S21-Ap27665	S21-Ap27667
Date Sampled			Apr 15, 2021	Apr 15, 2021	Apr 15, 2021	Apr 14, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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
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
2-Fluorobiphenyl (surr.)	1	%	98	-	89	96
p-Terphenyl-d14 (surr.)	1	%	108	-	97	92

Client Sample ID			BH251 0-0.1	BH252 0-0.1	BH257 0-0.1	BH271 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap27663	S21-Ap27664	S21-Ap27665	S21-Ap27667
Date Sampled			Apr 15, 2021	Apr 15, 2021	Apr 15, 2021	Apr 14, 2021
Test/Reference	LOR	Unit				
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	0.1	mg/kg	-	-	-	< 0.1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	-	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	-	< 0.2
Dibutylchlorendate (surr.)	1	%	-	-	-	100
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	83
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1221	0.1	mg/kg	-	-	-	< 0.1
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
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	83
Acid Herbicides						
2.4-D	0.5	mg/kg	< 0.5	< 0.5	-	-
2.4-DB	0.5	mg/kg	< 0.5	< 0.5	-	-
2.4.5-T	0.5	mg/kg	< 0.5	< 0.5	-	-
2.4.5-TP	0.5	mg/kg	< 0.5	< 0.5	-	-
Actril (loxynil)	0.5	mg/kg	< 0.5	< 0.5	-	-
Dicamba	0.5	mg/kg	< 0.5	< 0.5	-	-
Dichlorprop	0.5	mg/kg	< 0.5	< 0.5	-	-
Dinitro-o-cresol	0.5	mg/kg	< 0.5	< 0.5	-	-
Dinoseb	0.5	mg/kg	< 0.5	< 0.5	-	-
MCPA	0.5	mg/kg	< 0.5	< 0.5	-	-

Client Sample ID			BH251 0-0.1	BH252 0-0.1	BH257 0-0.1	BH271 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap27663	S21-Ap27664	S21-Ap27665	S21-Ap27667
Date Sampled			Apr 15, 2021	Apr 15, 2021	Apr 15, 2021	Apr 14, 2021
Test/Reference	LOR	Unit				
Acid Herbicides						
MCPB	0.5	mg/kg	< 0.5	< 0.5	-	-
Mecoprop	0.5	mg/kg	< 0.5	< 0.5	-	-
Warfarin (surr.)	1	%	99	100	-	-
Heavy Metals						
Arsenic	2	mg/kg	9.2	9.5	10	7.3
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	20	20	20	31
Copper	5	mg/kg	25	25	82	13
Lead	5	mg/kg	22	22	25	19
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	9.7	13	14	8.4
Zinc	5	mg/kg	78	53	120	34
% Moisture	1	%	15	18	9.5	19
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-C36 (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	%	81	54	65	-
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	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	-

Client Sample ID			BH272 0-0.1	BH272 0.4-0.5	BH281 0.1-0.2	BH282 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap27668	S21-Ap27669	S21-Ap27670	S21-Ap27671
Date Sampled			Apr 14, 2021	Apr 14, 2021	Apr 15, 2021	Apr 15, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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
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
2-Fluorobiphenyl (surr.)	1	%	77	-	-	75
p-Terphenyl-d14 (surr.)	1	%	86	-	-	98
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	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2	-	< 0.2	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2	-	< 0.2	< 0.2
Dibutylchlorendate (surr.)	1	%	85	-	120	118
Tetrachloro-m-xylene (surr.)	1	%	86	-	80	84

Client Sample ID			BH272 0-0.1	BH272 0.4-0.5	BH281 0.1-0.2	BH282 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap27668	S21-Ap27669	S21-Ap27670	S21-Ap27671
Date Sampled			Apr 14, 2021	Apr 14, 2021	Apr 15, 2021	Apr 15, 2021
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Aroclor-1221	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
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	%	85	-	120	118
Tetrachloro-m-xylene (surr.)	1	%	86	-	80	84
Acid Herbicides						
2.4-D	0.5	mg/kg	-	-	-	< 0.5
2.4-DB	0.5	mg/kg	-	-	-	< 0.5
2.4.5-T	0.5	mg/kg	-	-	-	< 0.5
2.4.5-TP	0.5	mg/kg	-	-	-	< 0.5
Actril (loxynil)	0.5	mg/kg	-	-	-	< 0.5
Dicamba	0.5	mg/kg	-	-	-	< 0.5
Dichlorprop	0.5	mg/kg	-	-	-	< 0.5
Dinitro-o-cresol	0.5	mg/kg	-	-	-	< 0.5
Dinoseb	0.5	mg/kg	-	-	-	< 0.5
MCPA	0.5	mg/kg	-	-	-	< 0.5
MCPB	0.5	mg/kg	-	-	-	< 0.5
Mecoprop	0.5	mg/kg	-	-	-	< 0.5
Warfarin (surr.)	1	%	-	-	-	95
Heavy Metals						
Arsenic	2	mg/kg	8.1	-	18	11
Cadmium	0.4	mg/kg	< 0.4	-	< 0.4	< 0.4
Chromium	5	mg/kg	22	-	20	18
Copper	5	mg/kg	20	-	27	26
Lead	5	mg/kg	33	-	16	17
Mercury	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Nickel	5	mg/kg	9.5	-	13	9.8
Zinc	5	mg/kg	88	-	52	54
% Moisture	1	%	15	23	25	23
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-C36 (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	%	-	144	76	76

Client Sample ID			BH272 0-0.1	BH272 0.4-0.5	BH281 0.1-0.2	BH282 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap27668	S21-Ap27669	S21-Ap27670	S21-Ap27671
Date Sampled			Apr 14, 2021	Apr 14, 2021	Apr 15, 2021	Apr 15, 2021
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	< 100	< 100
TRH >C34-C40	100	mg/kg	-	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	< 100	< 100

Client Sample ID			BH282 0.2-0.3	BH283 0.2-0.3	BH284 0.2-0.3	BH285 0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap27672	S21-Ap27673	S21-Ap27674	S21-Ap27675
Date Sampled			Apr 15, 2021	Apr 15, 2021	Apr 14, 2021	Apr 14, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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
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
2-Fluorobiphenyl (surr.)	1	%	-	87	93	74
p-Terphenyl-d14 (surr.)	1	%	-	101	96	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	-

Client Sample ID			BH282 0.2-0.3	BH283 0.2-0.3	BH284 0.2-0.3	BH285 0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap27672	S21-Ap27673	S21-Ap27674	S21-Ap27675
Date Sampled			Apr 15, 2021	Apr 15, 2021	Apr 14, 2021	Apr 14, 2021
Test/Reference	LOR	Unit				
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	0.1	mg/kg	-	< 0.1	< 0.1	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.2	< 0.2	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.2	< 0.2	-
Dibutylchlorendate (surr.)	1	%	-	135	101	-
Tetrachloro-m-xylene (surr.)	1	%	-	97	87	-
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	< 0.5	< 0.5	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	< 0.1	-
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	%	-	135	101	-
Tetrachloro-m-xylene (surr.)	1	%	-	97	87	-
Heavy Metals						
Arsenic	2	mg/kg	-	7.0	7.5	10
Cadmium	0.4	mg/kg	-	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	-	13	16	15
Copper	5	mg/kg	-	19	19	17
Lead	5	mg/kg	-	12	14	13
Mercury	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	-	< 5	5.9	< 5
Zinc	5	mg/kg	-	25	26	16
% Moisture	1	%	22	18	20	19
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-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50

Client Sample ID			BH282 0.2-0.3	BH283 0.2-0.3	BH284 0.2-0.3	BH285 0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap27672	S21-Ap27673	S21-Ap27674	S21-Ap27675
Date Sampled			Apr 15, 2021	Apr 15, 2021	Apr 14, 2021	Apr 14, 2021
Test/Reference	LOR	Unit				
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	76	76	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
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	-	< 5	-	-
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	-	< 5	-	-
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	-	< 5	-	-
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	-	< 5	-	-
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	-	< 5	-	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	-	< 5	-	-
13C4-PFBA (surr.)	1	%	-	124	-	-
13C5-PFPeA (surr.)	1	%	-	73	-	-
13C5-PFHxA (surr.)	1	%	-	68	-	-
13C4-PFHpA (surr.)	1	%	-	88	-	-
13C8-PFOA (surr.)	1	%	-	91	-	-
13C5-PFNA (surr.)	1	%	-	101	-	-
13C6-PFDA (surr.)	1	%	-	97	-	-
13C2-PFUnDA (surr.)	1	%	-	108	-	-
13C2-PFDoDA (surr.)	1	%	-	104	-	-
13C2-PFTeDA (surr.)	1	%	-	96	-	-
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	-	< 5	-	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	-	< 5	-	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	-	< 5	-	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)[N11]	5	ug/kg	-	< 5	-	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)[N11]	5	ug/kg	-	< 5	-	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	-	< 10	-	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	-	< 10	-	-

Client Sample ID			BH282 0.2-0.3	BH283 0.2-0.3	BH284 0.2-0.3	BH285 0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap27672	S21-Ap27673	S21-Ap27674	S21-Ap27675
Date Sampled			Apr 15, 2021	Apr 15, 2021	Apr 14, 2021	Apr 14, 2021
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
13C8-FOSA (surr.)	1	%	-	108	-	-
D3-N-MeFOSA (surr.)	1	%	-	123	-	-
D5-N-EtFOSA (surr.)	1	%	-	151	-	-
D7-N-MeFOSE (surr.)	1	%	-	99	-	-
D9-N-EtFOSE (surr.)	1	%	-	131	-	-
D5-N-EtFOSAA (surr.)	1	%	-	104	-	-
D3-N-MeFOSAA (surr.)	1	%	-	142	-	-
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	-	< 5	-	-
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	-	< 5	-	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	-	< 5	-	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	-	< 5	-	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	-	< 5	-	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	-	< 5	-	-
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	-	< 5	-	-
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	-	< 5	-	-
13C3-PFBS (surr.)	1	%	-	86	-	-
18O2-PFHxS (surr.)	1	%	-	124	-	-
13C8-PFOS (surr.)	1	%	-	117	-	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	-	< 5	-	-
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)[N11]	10	ug/kg	-	< 10	-	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	-	< 5	-	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	-	< 5	-	-
13C2-4:2 FTS (surr.)	1	%	-	117	-	-
13C2-6:2 FTSA (surr.)	1	%	-	129	-	-
13C2-8:2 FTSA (surr.)	1	%	-	100	-	-
13C2-10:2 FTSA (surr.)	1	%	-	101	-	-
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	-	< 5	-	-
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	-	< 5	-	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	-	< 5	-	-
Sum of WA DWER PFAS (n=10)*	10	ug/kg	-	< 10	-	-
Sum of PFASs (n=30)*	50	ug/kg	-	< 50	-	-

Client Sample ID			BH286 0.3-0.4	BH288 0.1-0.2	BH294 0-0.1	BH295 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap27676	S21-Ap27677	S21-Ap27678	S21-Ap27679
Date Sampled			Apr 15, 2021	Apr 15, 2021	Apr 14, 2021	Apr 14, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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
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
2-Fluorobiphenyl (surr.)	1	%	-	61	74	65
p-Terphenyl-d14 (surr.)	1	%	-	97	97	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	0.1	mg/kg	-	< 0.1	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.2	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.2	-	-
Dibutylchlorendate (surr.)	1	%	-	126	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	88	-	-

Client Sample ID			BH286 0.3-0.4	BH288 0.1-0.2	BH294 0-0.1	BH295 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap27676	S21-Ap27677	S21-Ap27678	S21-Ap27679
Date Sampled			Apr 15, 2021	Apr 15, 2021	Apr 14, 2021	Apr 14, 2021
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	< 0.5	-	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	-
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	%	-	126	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	88	-	-
Heavy Metals						
Arsenic	2	mg/kg	-	17	14	15
Cadmium	0.4	mg/kg	-	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	-	13	29	48
Copper	5	mg/kg	-	22	24	26
Lead	5	mg/kg	-	15	24	30
Mercury	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	-	9.1	11	13
Zinc	5	mg/kg	-	52	55	62
% Moisture	1	%	19	21	18	16
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-C36 (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	%	105	101	105	112
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
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100

Client Sample ID			BH296 0-0.1	BH307 0-0.15	BH308 0-0.1	BH311 0.2-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap27680	S21-Ap27681	S21-Ap27682	S21-Ap27683
Date Sampled			Apr 14, 2021	Apr 15, 2021	Apr 14, 2021	Apr 15, 2021
Test/Reference	LOR	Unit				
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	%	72	70	76	87
p-Terphenyl-d14 (surr.)	1	%	82	90	88	96
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	0.1	mg/kg	-	-	< 0.1	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	< 0.2	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	< 0.2	-
Dibutylchlorendate (surr.)	1	%	-	-	103	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	90	-

Client Sample ID			BH296 0-0.1	BH307 0-0.15	BH308 0-0.1	BH311 0.2-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap27680	S21-Ap27681	S21-Ap27682	S21-Ap27683
Date Sampled			Apr 14, 2021	Apr 15, 2021	Apr 14, 2021	Apr 15, 2021
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1221	0.1	mg/kg	-	-	< 0.1	-
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	%	-	-	103	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	90	-
Heavy Metals						
Arsenic	2	mg/kg	5.2	11	5.0	10.0
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	21	13	110	13
Copper	5	mg/kg	27	7.9	33	6.9
Lead	5	mg/kg	23	16	26	14
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	11	7.7	83	6.0
Zinc	5	mg/kg	120	24	120	19
% Moisture	1	%	21	9.9	8.9	8.7
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	-
TRH C10-C14	20	mg/kg	29	< 20	30	-
TRH C15-C28	50	mg/kg	97	< 50	360	-
TRH C29-C36	50	mg/kg	130	< 50	150	-
TRH C10-C36 (Total)	50	mg/kg	256	< 50	540	-
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	%	107	106	120	-
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	170	< 100	420	-
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	170	< 100	420	-

Client Sample ID			BH313 0-0.1	BH314 0-0.1	BH315 0-0.1	BH316 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap27684	S21-Ap27685	S21-Ap27686	S21-Ap27687
Date Sampled			Apr 15, 2021	Apr 15, 2021	Apr 15, 2021	Apr 15, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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
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
2-Fluorobiphenyl (surr.)	1	%	-	107	95	104
p-Terphenyl-d14 (surr.)	1	%	-	104	95	103
Heavy Metals						
Arsenic	2	mg/kg	11	9.1	5.8	9.9
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	19	14	8.4	13
Copper	5	mg/kg	26	22	10	8.4
Lead	5	mg/kg	25	22	15	18
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	11	10	7.0	7.5
Zinc	5	mg/kg	55	140	40	23
% Moisture	1	%	21	17	11	10
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	53	-
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	53	-
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	%	84	103	136	-

Client Sample ID			BH313 0-0.1	BH314 0-0.1	BH315 0-0.1	BH316 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap27684	S21-Ap27685	S21-Ap27686	S21-Ap27687
Date Sampled			Apr 15, 2021	Apr 15, 2021	Apr 15, 2021	Apr 15, 2021
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	< 100	< 100	-
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	-

Client Sample ID			BH317 0-0.2	BH318 0-0.2	BH322 0.4-0.5	BH323 0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap27688	S21-Ap27689	S21-Ap27691	S21-Ap27693
Date Sampled			Apr 15, 2021	Apr 15, 2021	Apr 15, 2021	Apr 15, 2021
Test/Reference	LOR	Unit				
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	%	100	115	104	108
p-Terphenyl-d14 (surr.)	1	%	103	114	105	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	-	-

Client Sample ID			BH317 0-0.2	BH318 0-0.2	BH322 0.4-0.5	BH323 0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap27688	S21-Ap27689	S21-Ap27691	S21-Ap27693
Date Sampled			Apr 15, 2021	Apr 15, 2021	Apr 15, 2021	Apr 15, 2021
Test/Reference	LOR	Unit				
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	0.1	mg/kg	-	< 0.1	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.2	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.2	-	-
Dibutylchlorendate (surr.)	1	%	-	112	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	101	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	< 0.5	-	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	-
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	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	101	-	-
Heavy Metals						
Arsenic	2	mg/kg	-	11	13	9.8
Cadmium	0.4	mg/kg	-	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	-	16	17	15
Copper	5	mg/kg	-	9.5	8.7	8.5
Lead	5	mg/kg	-	18	22	20
Mercury	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	-	8.0	7.9	7.8
Zinc	5	mg/kg	-	25	25	23
% Moisture	1	%	9.7	9.1	10	7.7
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-C36 (Total)	50	mg/kg	-	-	-	< 50

Client Sample ID			BH317 0-0.2	BH318 0-0.2	BH322 0.4-0.5	BH323 0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap27688	S21-Ap27689	S21-Ap27691	S21-Ap27693
Date Sampled			Apr 15, 2021	Apr 15, 2021	Apr 15, 2021	Apr 15, 2021
Test/Reference	LOR	Unit				
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	%	-	-	-	84
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
TRH >C10-C40 (total)*	100	mg/kg	-	-	-	< 100

Client Sample ID			BH328 0-0.1	BH329 0-0.1	BH329 0.5-0.6	BH330 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap27697	S21-Ap27698	S21-Ap27699	S21-Ap27700
Date Sampled			Apr 15, 2021	Apr 15, 2021	Apr 15, 2021	Apr 15, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 10	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	< 10	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	12	1.2	-
Acenaphthene	0.5	mg/kg	< 0.5	< 5	< 0.5	-
Acenaphthylene	0.5	mg/kg	< 0.5	< 5	< 0.5	-
Anthracene	0.5	mg/kg	< 0.5	< 5	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 5	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 5	< 0.5	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 5	< 0.5	-
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 5	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 5	< 0.5	-
Chrysene	0.5	mg/kg	< 0.5	< 10	< 0.5	-
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 5	< 0.5	-
Fluoranthene	0.5	mg/kg	< 0.5	< 10	< 0.5	-
Fluorene	0.5	mg/kg	< 0.5	< 5	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 5	< 0.5	-
Naphthalene	0.5	mg/kg	< 0.5	< 5	< 0.5	-
Phenanthrene	0.5	mg/kg	< 0.5	< 5	< 0.5	-
Pyrene	0.5	mg/kg	< 0.5	5.2	< 0.5	-
Total PAH*	0.5	mg/kg	< 0.5	< 10	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	88	84	107	-
p-Terphenyl-d14 (surr.)	1	%	82	98	105	-

Client Sample ID			BH328 0-0.1	BH329 0-0.1	BH329 0.5-0.6	BH330 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap27697	S21-Ap27698	S21-Ap27699	S21-Ap27700
Date Sampled			Apr 15, 2021	Apr 15, 2021	Apr 15, 2021	Apr 15, 2021
Test/Reference	LOR	Unit				
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	0.1	mg/kg	< 0.1	-	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2	-	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2	-	-	-
Dibutylchlorendate (surr.)	1	%	103	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	89	-	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1221	0.1	mg/kg	< 0.1	-	-	-
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	%	103	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	89	-	-	-
Heavy Metals						
Arsenic	2	mg/kg	-	3.3	9.7	5.6
Cadmium	0.4	mg/kg	-	0.7	< 0.4	< 0.4
Chromium	5	mg/kg	-	30	15	18
Copper	5	mg/kg	-	49	8.1	53
Lead	5	mg/kg	-	40	18	28
Mercury	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	-	68	7.2	35
Zinc	5	mg/kg	-	100	21	100
% Moisture	1	%	9.6	2.6	9.2	1.9

Client Sample ID			BH328 0-0.1	BH329 0-0.1	BH329 0.5-0.6	BH330 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap27697	S21-Ap27698	S21-Ap27699	S21-Ap27700
Date Sampled			Apr 15, 2021	Apr 15, 2021	Apr 15, 2021	Apr 15, 2021
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	< 1000	-	< 1000
TRH C15-C28	50	mg/kg	< 50	< 2500	-	< 2500
TRH C29-C36	50	mg/kg	85	< 2500	-	< 2500
TRH C10-C36 (Total)	50	mg/kg	85	< 2500	-	< 2500
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	%	106	143	-	106
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	< 2500	-	< 2500
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 2500	-	< 2500
TRH >C16-C34	100	mg/kg	< 100	< 5000	-	< 5000
TRH >C34-C40	100	mg/kg	< 100	< 5000	-	< 5000
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 5000	-	< 5000

Client Sample ID			BH253 0-0.1	BH254 0-0.1	BH255 0-0.1	BH256 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap27701	S21-Ap27702	S21-Ap27703	S21-Ap27704
Date Sampled			Apr 15, 2021	Apr 15, 2021	Apr 15, 2021	Apr 15, 2021
Test/Reference	LOR	Unit				
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

Client Sample ID			BH253 0-0.1	BH254 0-0.1	BH255 0-0.1	BH256 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap27701	S21-Ap27702	S21-Ap27703	S21-Ap27704
Date Sampled			Apr 15, 2021	Apr 15, 2021	Apr 15, 2021	Apr 15, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	128	90	100	91
p-Terphenyl-d14 (surr.)	1	%	140	76	114	85
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	0.1	mg/kg	-	< 0.1	-	< 0.1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.2	-	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.2	-	< 0.2
Dibutylchlorendate (surr.)	1	%	-	102	-	96
Tetrachloro-m-xylene (surr.)	1	%	-	83	-	85
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	< 0.5	-	< 0.5
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	< 0.1
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	-	96
Tetrachloro-m-xylene (surr.)	1	%	-	83	-	85
Acid Herbicides						
2.4-D	0.5	mg/kg	-	< 0.5	-	< 0.5
2.4-DB	0.5	mg/kg	-	< 0.5	-	< 0.5
2.4.5-T	0.5	mg/kg	-	< 0.5	-	< 0.5
2.4.5-TP	0.5	mg/kg	-	< 0.5	-	< 0.5
Actril (loxynil)	0.5	mg/kg	-	< 0.5	-	< 0.5
Dicamba	0.5	mg/kg	-	< 0.5	-	< 0.5

Client Sample ID			BH253 0-0.1	BH254 0-0.1	BH255 0-0.1	BH256 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap27701	S21-Ap27702	S21-Ap27703	S21-Ap27704
Date Sampled			Apr 15, 2021	Apr 15, 2021	Apr 15, 2021	Apr 15, 2021
Test/Reference	LOR	Unit				
Acid Herbicides						
Dichlorprop	0.5	mg/kg	-	< 0.5	-	< 0.5
Dinitro-o-cresol	0.5	mg/kg	-	< 0.5	-	< 0.5
Dinoseb	0.5	mg/kg	-	< 0.5	-	< 0.5
MCPA	0.5	mg/kg	-	< 0.5	-	< 0.5
MCPB	0.5	mg/kg	-	< 0.5	-	< 0.5
Mecoprop	0.5	mg/kg	-	< 0.5	-	< 0.5
Warfarin (surr.)	1	%	-	106	-	100
Heavy Metals						
Arsenic	2	mg/kg	6.8	8.5	7.7	7.8
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	21	19	21	20
Copper	5	mg/kg	35	26	35	29
Lead	5	mg/kg	22	28	24	22
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	12	13	13	10
Zinc	5	mg/kg	130	70	83	70
% Moisture	1	%	11	11	16	12
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-C36 (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	110	-	142
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
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	-	< 100

Client Sample ID			BH365 0-0.2	BH399 0-0.1	BH406 0.15-0.3	BH407 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap27705	S21-Ap27706	S21-Ap27707	S21-Ap27708
Date Sampled			Apr 15, 2021	Apr 14, 2021	Apr 15, 2021	Apr 15, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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
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
2-Fluorobiphenyl (surr.)	1	%	89	-	81	91
p-Terphenyl-d14 (surr.)	1	%	87	-	78	98
Heavy Metals						
Arsenic	2	mg/kg	9.7	-	11	10
Cadmium	0.4	mg/kg	< 0.4	-	< 0.4	< 0.4
Chromium	5	mg/kg	17	-	18	20
Copper	5	mg/kg	79	-	81	63
Lead	5	mg/kg	22	-	24	25
Mercury	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Nickel	5	mg/kg	13	-	13	14
Zinc	5	mg/kg	100	-	110	100
% Moisture	1	%	7.4	19	5.3	3.3
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-C36 (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	%	-	99	128	67

Client Sample ID			BH365 0-0.2	BH399 0-0.1	BH406 0.15-0.3	BH407 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap27705	S21-Ap27706	S21-Ap27707	S21-Ap27708
Date Sampled			Apr 15, 2021	Apr 14, 2021	Apr 15, 2021	Apr 15, 2021
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	< 100	< 100
TRH >C34-C40	100	mg/kg	-	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	< 100	< 100
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	< 5	-	-	< 5
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	< 5	-	-	< 5
13C4-PFBA (surr.)	1	%	131	-	-	122
13C5-PFPeA (surr.)	1	%	68	-	-	72
13C5-PFHxA (surr.)	1	%	77	-	-	86
13C4-PFHpA (surr.)	1	%	78	-	-	85
13C8-PFOA (surr.)	1	%	89	-	-	99
13C5-PFNA (surr.)	1	%	111	-	-	116
13C6-PFDA (surr.)	1	%	96	-	-	102
13C2-PFUnDA (surr.)	1	%	95	-	-	103
13C2-PFDoDA (surr.)	1	%	104	-	-	108
13C2-PFTeDA (surr.)	1	%	119	-	-	120
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	< 5	-	-	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	< 5	-	-	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	< 5	-	-	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)[N11]	5	ug/kg	< 5	-	-	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)[N11]	5	ug/kg	< 5	-	-	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	< 10	-	-	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	< 10	-	-	< 10
13C8-FOSA (surr.)	1	%	116	-	-	99
D3-N-MeFOSA (surr.)	1	%	93	-	-	104
D5-N-EtFOSA (surr.)	1	%	111	-	-	105
D7-N-MeFOSE (surr.)	1	%	100	-	-	115
D9-N-EtFOSE (surr.)	1	%	131	-	-	120
D5-N-EtFOSAA (surr.)	1	%	128	-	-	120
D3-N-MeFOSAA (surr.)	1	%	152	-	-	157

Client Sample ID			BH365 0-0.2	BH399 0-0.1	BH406 0.15-0.3	BH407 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap27705	S21-Ap27706	S21-Ap27707	S21-Ap27708
Date Sampled			Apr 15, 2021	Apr 14, 2021	Apr 15, 2021	Apr 15, 2021
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5	-	-	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5	-	-	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5	-	-	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	< 5	-	-	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	< 5	-	-	< 5
13C3-PFBS (surr.)	1	%	85	-	-	94
18O2-PFHxS (surr.)	1	%	131	-	-	125
13C8-PFOS (surr.)	1	%	112	-	-	117
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5	-	-	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)[N11]	10	ug/kg	< 10	-	-	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5	-	-	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5	-	-	< 5
13C2-4:2 FTS (surr.)	1	%	131	-	-	142
13C2-6:2 FTSA (surr.)	1	%	114	-	-	118
13C2-8:2 FTSA (surr.)	1	%	110	-	-	125
13C2-10:2 FTSA (surr.)	1	%	94	-	-	97
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	-	-	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	-	-	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	-	-	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	-	-	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50	-	-	< 50

Client Sample ID			BH410 0.2-0.5	BH412 0-0.1	BH414 0-0.1	BH415 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap27712	S21-Ap27715	S21-Ap27717	S21-Ap27719
Date Sampled			Apr 15, 2021	Apr 14, 2021	Apr 14, 2021	Apr 14, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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	-
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	-

Client Sample ID			BH410 0.2-0.5	BH412 0-0.1	BH414 0-0.1	BH415 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap27712	S21-Ap27715	S21-Ap27717	S21-Ap27719
Date Sampled			Apr 15, 2021	Apr 14, 2021	Apr 14, 2021	Apr 14, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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	-
2-Fluorobiphenyl (surr.)	1	%	100	93	92	-
p-Terphenyl-d14 (surr.)	1	%	103	99	102	-
Heavy Metals						
Arsenic	2	mg/kg	8.7	7.8	7.1	-
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	-
Chromium	5	mg/kg	16	31	33	-
Copper	5	mg/kg	79	46	25	-
Lead	5	mg/kg	20	33	36	-
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Nickel	5	mg/kg	13	14	14	-
Zinc	5	mg/kg	100	130	80	-
% Moisture	1	%	5.4	12	13	13
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	-	57	< 50	-
TRH C10-C36 (Total)	50	mg/kg	-	57	< 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	%	-	116	85	-
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	-
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	< 100	-
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	< 5	-	-	< 5

Client Sample ID			BH410 0.2-0.5	BH412 0-0.1	BH414 0-0.1	BH415 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap27712	S21-Ap27715	S21-Ap27717	S21-Ap27719
Date Sampled			Apr 15, 2021	Apr 14, 2021	Apr 14, 2021	Apr 14, 2021
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	< 5	-	-	< 5
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	< 5	-	-	< 5
13C4-PFBA (surr.)	1	%	118	-	-	133
13C5-PFPeA (surr.)	1	%	72	-	-	69
13C5-PFHxA (surr.)	1	%	80	-	-	70
13C4-PFHpA (surr.)	1	%	85	-	-	85
13C8-PFOA (surr.)	1	%	94	-	-	96
13C5-PFNA (surr.)	1	%	116	-	-	120
13C6-PFDA (surr.)	1	%	104	-	-	103
13C2-PFUnDA (surr.)	1	%	101	-	-	108
13C2-PFDoDA (surr.)	1	%	106	-	-	100
13C2-PFTeDA (surr.)	1	%	120	-	-	107
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	< 5	-	-	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	< 5	-	-	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	< 5	-	-	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)[N11]	5	ug/kg	< 5	-	-	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)[N11]	5	ug/kg	< 5	-	-	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	< 10	-	-	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	< 10	-	-	< 10
13C8-FOSA (surr.)	1	%	135	-	-	144
D3-N-MeFOSA (surr.)	1	%	112	-	-	93
D5-N-EtFOSA (surr.)	1	%	106	-	-	134
D7-N-MeFOSE (surr.)	1	%	123	-	-	129
D9-N-EtFOSE (surr.)	1	%	128	-	-	146
D5-N-EtFOSAA (surr.)	1	%	140	-	-	147
D3-N-MeFOSAA (surr.)	1	%	162	-	-	161
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5	-	-	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5	-	-	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5	-	-	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	< 5	-	-	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	< 5	-	-	< 5
13C3-PFBS (surr.)	1	%	88	-	-	79
18O2-PFHxS (surr.)	1	%	131	-	-	133
13C8-PFOS (surr.)	1	%	117	-	-	117

Client Sample ID			BH410 0.2-0.5	BH412 0-0.1	BH414 0-0.1	BH415 0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap27712	S21-Ap27715	S21-Ap27717	S21-Ap27719
Date Sampled			Apr 15, 2021	Apr 14, 2021	Apr 14, 2021	Apr 14, 2021
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5	-	-	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)[N11]	10	ug/kg	< 10	-	-	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5	-	-	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5	-	-	< 5
13C2-4:2 FTS (surr.)	1	%	136	-	-	153
13C2-6:2 FTSA (surr.)	1	%	125	-	-	125
13C2-8:2 FTSA (surr.)	1	%	129	-	-	155
13C2-10:2 FTSA (surr.)	1	%	103	-	-	115
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	-	-	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	-	-	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	-	-	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	-	-	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50	-	-	< 50

Client Sample ID			BH416 0-0.1	BH417 0-0.1	BH418 0-0.1	BH421 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap27721	S21-Ap27723	S21-Ap27725	S21-Ap27729
Date Sampled			Apr 14, 2021	Apr 14, 2021	Apr 15, 2021	Apr 15, 2021
Test/Reference	LOR	Unit				
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	0.8	< 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	0.8	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	2.6	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	103	114	96	100
p-Terphenyl-d14 (surr.)	1	%	108	128	80	100

Client Sample ID			BH416 0-0.1	BH417 0-0.1	BH418 0-0.1	BH421 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap27721	S21-Ap27723	S21-Ap27725	S21-Ap27729
Date Sampled			Apr 14, 2021	Apr 14, 2021	Apr 15, 2021	Apr 15, 2021
Test/Reference	LOR	Unit				
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	-	-	0.14	-
4.4'-DDT	0.05	mg/kg	-	-	0.08	-
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	0.1	mg/kg	-	-	< 0.1	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	0.22	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	0.22	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	< 0.2	-
Dibutylchlorendate (surr.)	1	%	-	-	82	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	97	-
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1221	0.1	mg/kg	-	-	< 0.1	-
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	%	-	-	82	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	97	-
Heavy Metals						
Arsenic	2	mg/kg	6.9	4.5	6.5	5.3
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	34	25	25	16
Copper	5	mg/kg	59	47	47	62
Lead	5	mg/kg	48	61	36	19
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	20	24	16	16
Zinc	5	mg/kg	160	350	130	94
% Moisture	1	%	14	24	21	16

Client Sample ID			BH416 0-0.1	BH417 0-0.1	BH418 0-0.1	BH421 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap27721	S21-Ap27723	S21-Ap27725	S21-Ap27729
Date Sampled			Apr 14, 2021	Apr 14, 2021	Apr 15, 2021	Apr 15, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	< 20	< 20	-
TRH C10-C14	20	mg/kg	-	42	< 20	-
TRH C15-C28	50	mg/kg	-	300	60	-
TRH C29-C36	50	mg/kg	-	250	62	-
TRH C10-C36 (Total)	50	mg/kg	-	592	122	-
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	%	-	99	100	-
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	-	52	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	52	< 50	-
TRH >C16-C34	100	mg/kg	-	480	100	-
TRH >C34-C40	100	mg/kg	-	200	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	-	732	100	-

Client Sample ID			BH432 0-0.3	BH432 0.5-0.6	QC09 - SOIL	QC10 - SOIL
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap27730	S21-Ap27731	S21-Ap27732	S21-Ap27733
Date Sampled			Apr 15, 2021	Apr 15, 2021	Apr 15, 2021	Apr 15, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	1.0	< 0.5	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	1.3	0.6	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.6	1.2	1.2	-
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	0.8	< 0.5	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	0.8	< 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	0.9	< 0.5	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	0.7	< 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	1.2	< 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	0.6	< 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	1.1	< 0.5	< 0.5	-

Client Sample ID			BH432 0-0.3	BH432 0.5-0.6	QC09 - SOIL	QC10 - SOIL
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap27730	S21-Ap27731	S21-Ap27732	S21-Ap27733
Date Sampled			Apr 15, 2021	Apr 15, 2021	Apr 15, 2021	Apr 15, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Total PAH*	0.5	mg/kg	6.7	< 0.5	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	107	81	91	-
p-Terphenyl-d14 (surr.)	1	%	86	92	85	-
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	0.1	mg/kg	-	-	< 0.1	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	< 0.2	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	< 0.2	-
Dibutylchlorendate (surr.)	1	%	-	-	91	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	82	-
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1221	0.1	mg/kg	-	-	< 0.1	-
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	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	82	-
Acid Herbicides						
2.4-D	0.5	mg/kg	-	-	< 0.5	-
2.4-DB	0.5	mg/kg	-	-	< 0.5	-
2.4.5-T	0.5	mg/kg	-	-	< 0.5	-
2.4.5-TP	0.5	mg/kg	-	-	< 0.5	-
Actril (loxynil)	0.5	mg/kg	-	-	< 0.5	-
Dicamba	0.5	mg/kg	-	-	< 0.5	-

Client Sample ID			BH432 0-0.3	BH432 0.5-0.6	QC09 - SOIL	QC10 - SOIL
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap27730	S21-Ap27731	S21-Ap27732	S21-Ap27733
Date Sampled			Apr 15, 2021	Apr 15, 2021	Apr 15, 2021	Apr 15, 2021
Test/Reference	LOR	Unit				
Acid Herbicides						
Dichlorprop	0.5	mg/kg	-	-	< 0.5	-
Dinitro-o-cresol	0.5	mg/kg	-	-	< 0.5	-
Dinoseb	0.5	mg/kg	-	-	< 0.5	-
MCPA	0.5	mg/kg	-	-	< 0.5	-
MCPB	0.5	mg/kg	-	-	< 0.5	-
Mecoprop	0.5	mg/kg	-	-	< 0.5	-
Warfarin (surr.)	1	%	-	-	98	-
Heavy Metals						
Arsenic	2	mg/kg	8.0	13	9.3	-
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	-
Chromium	5	mg/kg	20	20	20	-
Copper	5	mg/kg	51	10.0	29	-
Lead	5	mg/kg	22	17	22	-
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Nickel	5	mg/kg	33	11	11	-
Zinc	5	mg/kg	74	31	73	-
% Moisture	1	%	8.1	10	11	13
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	-	< 20	-
TRH C10-C14	20	mg/kg	< 100	-	26	-
TRH C15-C28	50	mg/kg	330	-	85	-
TRH C29-C36	50	mg/kg	520	-	110	-
TRH C10-C36 (Total)	50	mg/kg	850	-	221	-
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	%	78	-	80	-
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	< 250	-	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 250	-	< 50	-
TRH >C16-C34	100	mg/kg	700	-	160	-
TRH >C34-C40	100	mg/kg	< 500	-	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	700	-	160	-
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	< 5	-	-	< 5

Client Sample ID			BH432 0-0.3	BH432 0.5-0.6	QC09 - SOIL	QC10 - SOIL
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap27730	S21-Ap27731	S21-Ap27732	S21-Ap27733
Date Sampled			Apr 15, 2021	Apr 15, 2021	Apr 15, 2021	Apr 15, 2021
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	< 5	-	-	< 5
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	< 5	-	-	< 5
13C4-PFBA (surr.)	1	%	130	-	-	122
13C5-PFPeA (surr.)	1	%	81	-	-	83
13C5-PFHxA (surr.)	1	%	75	-	-	68
13C4-PFHpA (surr.)	1	%	101	-	-	108
13C8-PFOA (surr.)	1	%	107	-	-	103
13C5-PFNA (surr.)	1	%	129	-	-	120
13C6-PFDA (surr.)	1	%	111	-	-	103
13C2-PFUnDA (surr.)	1	%	105	-	-	105
13C2-PFDoDA (surr.)	1	%	114	-	-	108
13C2-PFTeDA (surr.)	1	%	137	-	-	119
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	< 5	-	-	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	< 5	-	-	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	< 5	-	-	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)[N11]	5	ug/kg	< 5	-	-	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)[N11]	5	ug/kg	< 5	-	-	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	< 10	-	-	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	< 10	-	-	< 10
13C8-FOSA (surr.)	1	%	130	-	-	143
D3-N-MeFOSA (surr.)	1	%	83	-	-	94
D5-N-EtFOSA (surr.)	1	%	119	-	-	153
D7-N-MeFOSE (surr.)	1	%	120	-	-	131
D9-N-EtFOSE (surr.)	1	%	106	-	-	165
D5-N-EtFOSAA (surr.)	1	%	137	-	-	138
D3-N-MeFOSAA (surr.)	1	%	156	-	-	167
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5	-	-	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5	-	-	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5	-	-	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	< 5	-	-	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5	-	-	< 5
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	< 5	-	-	< 5
13C3-PFBS (surr.)	1	%	92	-	-	85
18O2-PFHxS (surr.)	1	%	129	-	-	130
13C8-PFOS (surr.)	1	%	112	-	-	118

Client Sample ID			BH432 0-0.3	BH432 0.5-0.6	QC09 - SOIL	QC10 - SOIL
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap27730	S21-Ap27731	S21-Ap27732	S21-Ap27733
Date Sampled			Apr 15, 2021	Apr 15, 2021	Apr 15, 2021	Apr 15, 2021
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5	-	-	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)[N11]	10	ug/kg	< 10	-	-	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5	-	-	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5	-	-	< 5
13C2-4:2 FTS (surr.)	1	%	173	-	-	120
13C2-6:2 FTSA (surr.)	1	%	163	-	-	123
13C2-8:2 FTSA (surr.)	1	%	162	-	-	140
13C2-10:2 FTSA (surr.)	1	%	117	-	-	105
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	-	-	< 5
Sum of US EPA PFAS (PFOS + PFOA)*	5	ug/kg	< 5	-	-	< 5
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	5	ug/kg	< 5	-	-	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	-	-	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50	-	-	< 50

Client Sample ID			QC11 - SOIL	QC12 - SOIL
Sample Matrix			Soil	Soil
Eurofins Sample No.			S21-Ap27734	S21-Ap27735
Date Sampled			Apr 15, 2021	Apr 15, 2021
Test/Reference	LOR	Unit		
Polycyclic Aromatic Hydrocarbons				
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	-
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	0.8	-
Pyrene	0.5	mg/kg	< 0.5	-
Total PAH*	0.5	mg/kg	0.8	-
2-Fluorobiphenyl (surr.)	1	%	97	-
p-Terphenyl-d14 (surr.)	1	%	87	-

Client Sample ID			QC11 - SOIL	QC12 - SOIL
Sample Matrix			Soil	Soil
Eurofins Sample No.			S21-Ap27734	S21-Ap27735
Date Sampled			Apr 15, 2021	Apr 15, 2021
Test/Reference	LOR	Unit		
Heavy Metals				
Arsenic	2	mg/kg	5.8	2.9
Cadmium	0.4	mg/kg	< 0.4	< 0.4
Chromium	5	mg/kg	21	20
Copper	5	mg/kg	84	35
Lead	5	mg/kg	20	25
Mercury	0.1	mg/kg	0.1	< 0.1
Nickel	5	mg/kg	19	31
Zinc	5	mg/kg	140	94
% Moisture	1	%	17	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
Eurofins Suite B4			
Polycyclic Aromatic Hydrocarbons	Sydney	Apr 21, 2021	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Organochlorine Pesticides	Sydney	Apr 21, 2021	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Polychlorinated Biphenyls	Sydney	Apr 21, 2021	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Acid Herbicides	Melbourne	Apr 23, 2021	14 Days
- Method: LTM-ORG-2180 Phenoxy Acid Herbicides			
Eurofins Suite B6			
Metals M8	Sydney	Apr 21, 2021	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Apr 21, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Apr 21, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Apr 21, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Apr 21, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
% Moisture	Sydney	Apr 19, 2021	14 Days
- Method: LTM-GEN-7080 Moisture			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Brisbane	Apr 21, 2021	14 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Brisbane	Apr 21, 2021	14 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Brisbane	Apr 21, 2021	14 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Brisbane	Apr 21, 2021	180 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 788078
Phone: 02 8245 0300
Fax:

Received: Apr 15, 2021 4:42 PM
Due: Apr 22, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - AS4964	Asbestos - WA guidelines	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	BTEX	Suite B13: OCP/PCB	Moisture Set	Moisture Set	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B4	Eurofins Suite B6	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory																						
External Laboratory																						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**																	
1	BH122 0-0.2	Apr 15, 2021		Soil	S21-Ap27646					X	X	X		X		X						
2	BH123 0-0.2	Apr 15, 2021		Soil	S21-Ap27647						X			X		X	X					
3	BH158 0-0.2	Apr 15, 2021		Soil	S21-Ap27648											X			X			
4	BH159 0-0.2	Apr 15, 2021		Soil	S21-Ap27649					X		X				X						
5	BH161 0-0.2	Apr 15, 2021		Soil	S21-Ap27650					X		X		X		X						
6	BH162 0-0.2	Apr 15, 2021		Soil	S21-Ap27651											X			X			
7	BH162 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27652					X	X	X				X						
8	BH164 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27653											X			X			
9	BH165 0-0.2	Apr 15, 2021		Soil	S21-Ap27654							X				X						

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Australia

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Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
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46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
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IANZ # 1327

Christchurch
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Rolleston, Christchurch 7675
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Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory																						
External Laboratory																						
10	BH166 0-0.2	Apr 15, 2021		Soil	S21-Ap27655											X			X			
11	BH167 0-0.2	Apr 15, 2021		Soil	S21-Ap27656											X		X				
12	BH168 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27657			X														
13	BH244 0-0.1	Apr 15, 2021		Soil	S21-Ap27658						X					X				X		
14	BH244 0.2-0.3	Apr 15, 2021		Soil	S21-Ap27659					X						X					X	
15	BH248 0-0.1	Apr 15, 2021		Soil	S21-Ap27660		X							X		X	X					
16	BH249 0-0.2	Apr 15, 2021		Soil	S21-Ap27661					X		X				X						
17	BH250 0-0.2	Apr 15, 2021		Soil	S21-Ap27662		X				X					X	X					
18	BH251 0-0.1	Apr 15, 2021		Soil	S21-Ap27663						X					X	X					
19	BH252 0-0.1	Apr 15, 2021		Soil	S21-Ap27664						X					X				X		
20	BH257 0-0.1	Apr 15, 2021		Soil	S21-Ap27665											X	X					

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Australia

Melbourne
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Newcastle
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Auckland
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Sample Detail						Asbestos - AS4964	Asbestos - WA guidelines	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	BTEX	Suite B13: OCP/PCB	Moisture Set	Moisture Set	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B4	Eurofins Suite B6	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory																						
External Laboratory																						
21	BH258 0-0.2	Apr 15, 2021		Soil	S21-Ap27666			X														
22	BH271 0-0.1	Apr 14, 2021		Soil	S21-Ap27667					X		X		X		X						
23	BH272 0-0.1	Apr 14, 2021		Soil	S21-Ap27668		X			X		X		X		X						
24	BH272 0.4-0.5	Apr 14, 2021		Soil	S21-Ap27669		X									X		X				
25	BH281 0.1-0.2	Apr 15, 2021		Soil	S21-Ap27670									X		X				X		
26	BH282 0-0.1	Apr 15, 2021		Soil	S21-Ap27671						X			X		X	X					
27	BH282 0.2-0.3	Apr 15, 2021		Soil	S21-Ap27672											X		X				
28	BH283 0.2-0.3	Apr 15, 2021		Soil	S21-Ap27673									X		X	X				X	
29	BH284 0.2-0.3	Apr 14, 2021		Soil	S21-Ap27674									X		X	X					
30	BH285 0.2-0.3	Apr 14, 2021		Soil	S21-Ap27675											X	X					
31	BH286 0.3-0.4	Apr 15, 2021		Soil	S21-Ap27676											X		X				

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
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NSW 2000

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Fax:

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Due: Apr 22, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

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Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory																						
External Laboratory																						
32	BH288 0.1-0.2	Apr 15, 2021		Soil	S21-Ap27677									X		X	X					
33	BH294 0-0.1	Apr 14, 2021		Soil	S21-Ap27678											X	X					
34	BH295 0-0.1	Apr 14, 2021		Soil	S21-Ap27679											X	X					
35	BH296 0-0.1	Apr 14, 2021		Soil	S21-Ap27680											X	X					
36	BH307 0-0.15	Apr 15, 2021		Soil	S21-Ap27681		X									X	X					
37	BH308 0-0.1	Apr 14, 2021		Soil	S21-Ap27682		X							X		X	X					
38	BH311 0.2-0.5	Apr 15, 2021		Soil	S21-Ap27683	X				X		X				X						
39	BH313 0-0.1	Apr 15, 2021		Soil	S21-Ap27684											X				X		
40	BH314 0-0.1	Apr 15, 2021		Soil	S21-Ap27685		X									X	X					
41	BH315 0-0.1	Apr 15, 2021		Soil	S21-Ap27686											X	X					
42	BH316 0-0.2	Apr 15, 2021		Soil	S21-Ap27687					X		X				X						

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Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory																						
External Laboratory																						
43	BH317 0-0.2	Apr 15, 2021		Soil	S21-Ap27688		X			X						X						
44	BH318 0-0.2	Apr 15, 2021		Soil	S21-Ap27689					X		X		X		X						
45	BH321 0-0.1	Apr 15, 2021		Soil	S21-Ap27690		X															
46	BH322 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27691					X		X				X						
47	BH323 0-0.1	Apr 15, 2021		Soil	S21-Ap27692		X															
48	BH323 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27693											X	X					
49	BH324 0-0.2	Apr 15, 2021		Soil	S21-Ap27694		X															
50	BH326 0-0.1	Apr 15, 2021		Soil	S21-Ap27695		X															
51	BH327 0-0.1	Apr 15, 2021		Soil	S21-Ap27696		X															
52	BH328 0-0.1	Apr 15, 2021		Soil	S21-Ap27697									X		X			X			
53	BH329 0-0.1	Apr 15, 2021		Soil	S21-Ap27698		X									X	X					

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Unit F3, Building F
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Welshpool WA 6106
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Newcastle
4/52 Industrial Drive
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New Zealand

Auckland
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Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory																						
External Laboratory																						
54	BH329 0.5-0.6	Apr 15, 2021		Soil	S21-Ap27699					X		X				X						
55	BH330 0-0.2	Apr 15, 2021		Soil	S21-Ap27700		X									X				X		
56	BH253 0-0.1	Apr 15, 2021		Soil	S21-Ap27701		X									X	X					
57	BH254 0-0.1	Apr 15, 2021		Soil	S21-Ap27702		X				X			X		X	X					
58	BH255 0-0.1	Apr 15, 2021		Soil	S21-Ap27703		X			X		X				X						
59	BH256 0-0.1	Apr 15, 2021		Soil	S21-Ap27704						X			X		X	X					
60	BH365 0-0.2	Apr 15, 2021		Soil	S21-Ap27705		X			X		X				X					X	
61	BH399 0-0.1	Apr 14, 2021		Soil	S21-Ap27706											X		X				
62	BH406 0.15-0.3	Apr 15, 2021		Soil	S21-Ap27707		X									X	X					
63	BH407 0-0.1	Apr 15, 2021		Soil	S21-Ap27708		X									X	X				X	

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Australia

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Site # 1254 & 14271

Sydney
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16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
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Brisbane
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Welshpool WA 6106
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Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory																						
External Laboratory																						
64	BH408 0-0.1	Apr 15, 2021		Soil	S21-Ap27709		X															
65	BH409 0-0.15	Apr 15, 2021		Soil	S21-Ap27710		X															
66	BH410 0-0.2	Apr 15, 2021		Soil	S21-Ap27711		X															
67	BH410 0.2-0.5	Apr 15, 2021		Soil	S21-Ap27712					X		X				X					X	
68	BH411 0-0.2	Apr 15, 2021		Soil	S21-Ap27713		X															
69	BH412 0-0.4	Apr 14, 2021		Soil	S21-Ap27714		X															
70	BH412 0-0.1	Apr 14, 2021		Soil	S21-Ap27715											X	X					
71	BH413 0-1	Apr 14, 2021		Soil	S21-Ap27716		X															
72	BH414 0-0.1	Apr 14, 2021		Soil	S21-Ap27717											X	X					
73	BH414 0-0.2	Apr 14, 2021		Soil	S21-Ap27718		X															
74	BH415 0-0.2	Apr 14, 2021		Soil	S21-Ap27719										X						X	

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Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

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Phone : +61 7 3902 4600
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Welshpool WA 6106
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Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

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Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory																						
External Laboratory																						
75	BH415 0-0.2	Apr 14, 2021		Soil	S21-Ap27720		X															
76	BH416 0-0.1	Apr 14, 2021		Soil	S21-Ap27721					X		X				X						
77	BH416 0-0.2	Apr 14, 2021		Soil	S21-Ap27722		X															
78	BH417 0-0.1	Apr 14, 2021		Soil	S21-Ap27723											X	X					
79	BH417 0-0.2	Apr 14, 2021		Soil	S21-Ap27724		X															
80	BH418 0-0.1	Apr 15, 2021		Soil	S21-Ap27725									X		X	X					
81	BH418 0-0.3	Apr 15, 2021		Soil	S21-Ap27726		X															
82	BH419 0-0.15	Apr 15, 2021		Soil	S21-Ap27727		X															
83	BH420 0-0.1	Apr 15, 2021		Soil	S21-Ap27728		X															
84	BH421 0-0.1	Apr 15, 2021		Soil	S21-Ap27729		X			X		X				X						
85	BH432 0-0.3	Apr 15, 2021		Soil	S21-Ap27730		X									X	X				X	

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Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory																						
External Laboratory																						
86	BH432 0.5-0.6	Apr 15, 2021		Soil	S21-Ap27731					X		X				X						
87	QC09 - SOIL	Apr 15, 2021		Soil	S21-Ap27732						X			X		X	X					
88	QC10 - SOIL	Apr 15, 2021		Soil	S21-Ap27733										X						X	
89	QC11 - SOIL	Apr 15, 2021		Soil	S21-Ap27734					X		X				X						
90	QC12 - SOIL	Apr 15, 2021		Soil	S21-Ap27735							X				X						
91	RIN140421	Apr 14, 2021		Water	S21-Ap27736												X					
92	RIN150421	Apr 15, 2021		Water	S21-Ap27738			X														
93	TB1	Apr 15, 2021		Water	S21-Ap27739								X									
94	TB2	Apr 14, 2021		Water	S21-Ap27740								X									
95	TS1	Apr 15, 2021		Water	S21-Ap27741																	X
96	TS2	Apr 14, 2021		Water	S21-Ap27742																	X

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Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory																						
External Laboratory																						
97	BH122 0.3-0.4	Apr 15, 2021		Soil	S21-Ap27743				X													
98	BH123 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27744				X													
99	BH148 0-0.1	Apr 15, 2021		Soil	S21-Ap27745				X													
100	BH148 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27746				X													
101	BH158 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27747				X													
102	BH160 0-0.2	Apr 15, 2021		Soil	S21-Ap27748				X													
103	BH160 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27749				X													
104	BH163 0-0.2	Apr 15, 2021		Soil	S21-Ap27750				X													
105	BH164 0-0.2	Apr 15, 2021		Soil	S21-Ap27751				X													
106	BH166 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27752				X													
107	BH168 0-0.2	Apr 15, 2021		Soil	S21-Ap27753				X													

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Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
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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Phone : +61 7 3902 4600
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Welshpool WA 6106
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4/52 Industrial Drive
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PO Box 60 Wickham 2293
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New Zealand

Auckland
35 O'Rorke Road
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Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

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Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory																						
External Laboratory																						
108	BH232 0-0.1	Apr 15, 2021		Soil	S21-Ap27754				X													
109	BH232 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27755				X													
110	BH233 0-0.5	Apr 15, 2021		Soil	S21-Ap27756				X													
111	BH233 0.5-0.6	Apr 15, 2021		Soil	S21-Ap27757			X														
112	BH245 0-0.1	Apr 15, 2021		Soil	S21-Ap27758				X													
113	BH245 0.2-0.3	Apr 15, 2021		Soil	S21-Ap27759				X													
114	BH247 0-0.2	Apr 15, 2021		Soil	S21-Ap27760				X													
115	BH247 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27761				X													
116	BH248 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27762				X													
117	BH249 0.3-0.4	Apr 15, 2021		Soil	S21-Ap27763				X													
118	BH250 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27764				X													

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Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory																						
External Laboratory																						
119	BH251 0.2-0.3	Apr 15, 2021		Soil	S21-Ap27765				X													
120	BH252 0.1-0.2	Apr 15, 2021		Soil	S21-Ap27766				X													
121	BH257 0.3-0.4	Apr 15, 2021		Soil	S21-Ap27767				X													
122	BH257 0.6-0.7	Apr 15, 2021		Soil	S21-Ap27768				X													
123	BH258 0.5-0.6	Apr 15, 2021		Soil	S21-Ap27769			X														
124	BH262 0-0.1	Apr 15, 2021		Soil	S21-Ap27770				X													
125	BH262 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27771				X													
126	BH271 0.4-0.5	Apr 14, 2021		Soil	S21-Ap27772				X													
127	BH281 0-0.1	Apr 15, 2021		Soil	S21-Ap27773				X													
128	BH283 0-0.1	Apr 15, 2021		Soil	S21-Ap27774				X													
129	BH284 0-0.1	Apr 14, 2021		Soil	S21-Ap27775				X													

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Australia

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Newcastle
4/52 Industrial Drive
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PO Box 60 Wickham 2293
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New Zealand

Auckland
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Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory																						
External Laboratory																						
130	BH284-B 0-0.1	Apr 14, 2021		Soil	S21-Ap27776				X													
131	BH284-B 0.2-0.3	Apr 14, 2021		Soil	S21-Ap27777				X													
132	BH285 0-0.1	Apr 14, 2021		Soil	S21-Ap27778				X													
133	BH286 0-0.1	Apr 14, 2021		Soil	S21-Ap27779				X													
134	BH287 0-0.1	Apr 15, 2021		Soil	S21-Ap27780				X													
135	BH287 0.3-0.4	Apr 15, 2021		Soil	S21-Ap27781				X													
136	BH288 0-0.1	Apr 15, 2021		Soil	S21-Ap27782				X													
137	BH288 0.2-0.3	Apr 15, 2021		Soil	S21-Ap27783				X													
138	BH294 0.4-0.5	Apr 14, 2021		Soil	S21-Ap27784				X													
139	BH295 0.4-0.5	Apr 14, 2021		Soil	S21-Ap27785				X													

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Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

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Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
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Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory																						
External Laboratory																						
140	BH296 0.4-0.5	Apr 14, 2021		Soil	S21-Ap27786				X													
141	BH307 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27787				X													
142	BH308 0.4-0.5	Apr 14, 2021		Soil	S21-Ap27788				X													
143	BH311 0-0.1	Apr 15, 2021		Soil	S21-Ap27789				X													
144	BH312 0-0.1	Apr 15, 2021		Soil	S21-Ap27790				X													
145	BH312 0.3-0.4	Apr 15, 2021		Soil	S21-Ap27791				X													
146	BH313 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27792				X													
147	BH314 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27793				X													
148	BH315 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27794				X													
149	BH316 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27795				X													
150	BH317 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27796				X													

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Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
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1/21 Smallwood Place
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Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
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Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory																						
External Laboratory																						
151	BH318 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27797				X													
152	BH319 0-0.1	Apr 15, 2021		Soil	S21-Ap27798				X													
153	BH320 0-0.2	Apr 15, 2021		Soil	S21-Ap27799				X													
154	BH320 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27800				X													
155	BH321 0.2-0.3	Apr 15, 2021		Soil	S21-Ap27801				X													
156	BH321 0.5-0.6	Apr 15, 2021		Soil	S21-Ap27802				X													
157	BH322 0-0.2	Apr 15, 2021		Soil	S21-Ap27803				X													
158	BH325 0-0.1	Apr 15, 2021		Soil	S21-Ap27804				X													
159	BH327 0.3-0.4	Apr 15, 2021		Soil	S21-Ap27805				X													
160	BH328 0.2-0.3	Apr 15, 2021		Soil	S21-Ap27806				X													
161	BH328 0.5-0.6	Apr 15, 2021		Soil	S21-Ap27807				X													

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Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory																						
External Laboratory																						
162	BH329 0.2-0.3	Apr 15, 2021		Soil	S21-Ap27808				X													
163	BH330 0.3-0.4	Apr 15, 2021		Soil	S21-Ap27809				X													
164	BH330 0.6-0.7	Apr 15, 2021		Soil	S21-Ap27810				X													
165	BH353 0.3-0.4	Apr 15, 2021		Soil	S21-Ap27811				X													
166	BH254 0.3-0.4	Apr 15, 2021		Soil	S21-Ap27812				X													
167	BH255 0.3-0.4	Apr 15, 2021		Soil	S21-Ap27813				X													
168	BH256 0.3-0.4	Apr 15, 2021		Soil	S21-Ap27814				X													
169	BH365 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27815				X													
170	BH399 0.5-0.6	Apr 14, 2021		Soil	S21-Ap27816				X													
171	BH406 0-0.15	Apr 15, 2021		Soil	S21-Ap27817				X													
172	BH406 0.5-0.6	Apr 15, 2021		Soil	S21-Ap27818				X													

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Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory																						
External Laboratory																						
173	BH407 0.1-0.5	Apr 15, 2021		Soil	S21-Ap27819				X													
174	BH407 0.7-0.8	Apr 15, 2021		Soil	S21-Ap27820				X													
175	BH408 0.1-0.4	Apr 15, 2021		Soil	S21-Ap27821				X													
176	BH408 0.5-0.6	Apr 15, 2021		Soil	S21-Ap27822				X													
177	BH409 0.15-0.4	Apr 15, 2021		Soil	S21-Ap27823				X													
178	BH409 0.5-0.6	Apr 15, 2021		Soil	S21-Ap27824				X													
179	BH411 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27825				X													
180	BH413 0-0.1	Apr 14, 2021		Soil	S21-Ap27826				X													
181	BH415 0-0.1	Apr 14, 2021		Soil	S21-Ap27827				X													
182	BH419 0.2-0.3	Apr 15, 2021		Soil	S21-Ap27828				X													

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Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - AS4964	Asbestos - WA guidelines	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	BTEX	Suite B13: OCP/PCB	Moisture Set	Moisture Set	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B4	Eurofins Suite B6	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory																						
External Laboratory																						
183	BH419 0.5-0.6	Apr 15, 2021		Soil	S21-Ap27829				X													
184	BH420 0.2-0.3	Apr 15, 2021		Soil	S21-Ap27830				X													
185	BH420 0.5-0.6	Apr 15, 2021		Soil	S21-Ap27831				X													
186	BH421 0.1-0.2	Apr 15, 2021		Soil	S21-Ap27832				X													
187	BH421 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27833			X														
188	BH421 0.8-0.9	Apr 15, 2021		Soil	S21-Ap27834				X													
189	BH432 0.7-0.8	Apr 15, 2021		Soil	S21-Ap27835				X													
190	RIN130421	Apr 15, 2021		Water	S21-Ap28191				X													
191	BH482 0.0-0.2	Apr 15, 2021		Soil	S21-Ap28192				X													
192	BH482 0.5-0.6	Apr 15, 2021		Soil	S21-Ap28193				X													
Test Counts						1	36	6	93	21	11	21	2	18	70	70	31	5	5	5	8	2

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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.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram | **mg/L:** milligrams per litre | **ug/L:** micrograms per litre

ppm: Parts per million | **ppb:** Parts per billion | **%:** Percentage

org/100mL: Organisms per 100 millilitres | **NTU:** Nephelometric Turbidity Units | **MPN/100mL:** Most Probable Number of organisms per 100 millilitres

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 and 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.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
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 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

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, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene 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 Aroclor 1260 in Matrix Spikes and LCS.
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 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							
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	
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	< 0.1			0.1	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.5			0.5	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	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			0.5	Pass	
Method Blank							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Acid Herbicides							
2.4-D	mg/kg	< 0.5			0.5	Pass	
2.4-DB	mg/kg	< 0.5			0.5	Pass	
2.4.5-T	mg/kg	< 0.5			0.5	Pass	
2.4.5-TP	mg/kg	< 0.5			0.5	Pass	
Actril (loxynil)	mg/kg	< 0.5			0.5	Pass	
Dicamba	mg/kg	< 0.5			0.5	Pass	
Dichlorprop	mg/kg	< 0.5			0.5	Pass	
Dinitro-o-cresol	mg/kg	< 0.5			0.5	Pass	
Dinoseb	mg/kg	< 0.5			0.5	Pass	
MCPA	mg/kg	< 0.5			0.5	Pass	
MCPB	mg/kg	< 0.5			0.5	Pass	
Mecoprop	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	
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 >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							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/kg	< 5			5	Pass	
Perfluoropentanoic acid (PFPeA)	ug/kg	< 5			5	Pass	
Perfluorohexanoic acid (PFHxA)	ug/kg	< 5			5	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/kg	< 5			5	Pass	
Perfluorooctanoic acid (PFOA)	ug/kg	< 5			5	Pass	
Perfluorononanoic acid (PFNA)	ug/kg	< 5			5	Pass	
Perfluorodecanoic acid (PFDA)	ug/kg	< 5			5	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/kg	< 5			5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorododecanoic acid (PFDoDA)	ug/kg	< 5			5	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/kg	< 5			5	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/kg	< 5			5	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/kg	< 5			5	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/kg	< 5			5	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/kg	< 5			5	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	ug/kg	< 5			5	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	ug/kg	< 5			5	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	< 10			10	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	< 10			10	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	ug/kg	< 5			5	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/kg	< 5			5	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/kg	< 5			5	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/kg	< 5			5	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	< 5			5	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/kg	< 5			5	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/kg	< 5			5	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/kg	< 5			5	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	ug/kg	< 10			10	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/kg	< 5			5	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	87			70-130	Pass	
Acenaphthylene	%	92			70-130	Pass	
Anthracene	%	92			70-130	Pass	
Benz(a)anthracene	%	104			70-130	Pass	
Benzo(a)pyrene	%	107			70-130	Pass	
Benzo(b&j)fluoranthene	%	109			70-130	Pass	
Benzo(g.h.i)perylene	%	97			70-130	Pass	
Benzo(k)fluoranthene	%	89			70-130	Pass	
Chrysene	%	96			70-130	Pass	
Dibenz(a.h)anthracene	%	105			70-130	Pass	
Fluoranthene	%	95			70-130	Pass	
Fluorene	%	93			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	105			70-130	Pass	
Naphthalene	%	93			70-130	Pass	
Phenanthrene	%	92			70-130	Pass	
Pyrene	%	94			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	82			70-130	Pass	
4.4'-DDD	%	96			70-130	Pass	
4.4'-DDE	%	80			70-130	Pass	
4.4'-DDT	%	92			70-130	Pass	
a-BHC	%	97			70-130	Pass	
Aldrin	%	82			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
b-BHC	%	89			70-130	Pass	
d-BHC	%	94			70-130	Pass	
Dieldrin	%	94			70-130	Pass	
Endosulfan I	%	110			70-130	Pass	
Endosulfan II	%	104			70-130	Pass	
Endosulfan sulphate	%	103			70-130	Pass	
Endrin	%	111			70-130	Pass	
Endrin aldehyde	%	108			70-130	Pass	
Endrin ketone	%	116			70-130	Pass	
g-BHC (Lindane)	%	92			70-130	Pass	
Heptachlor	%	76			70-130	Pass	
Heptachlor epoxide	%	92			70-130	Pass	
Hexachlorobenzene	%	82			70-130	Pass	
Methoxychlor	%	129			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1016	%	85			70-130	Pass	
Aroclor-1260	%	121			70-130	Pass	
LCS - % Recovery							
Acid Herbicides							
2.4-D	%	77			70-130	Pass	
2.4-DB	%	84			70-130	Pass	
2.4.5-T	%	78			70-130	Pass	
2.4.5-TP	%	80			70-130	Pass	
Actril (loxynil)	%	72			70-130	Pass	
Dicamba	%	80			70-130	Pass	
Dichlorprop	%	74			70-130	Pass	
Dinitro-o-cresol	%	76			70-130	Pass	
Dinoseb	%	122			70-130	Pass	
MCPA	%	70			70-130	Pass	
MCPB	%	91			70-130	Pass	
Mecoprop	%	91			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	100			80-120	Pass	
Cadmium	%	88			80-120	Pass	
Chromium	%	105			80-120	Pass	
Copper	%	103			80-120	Pass	
Lead	%	104			80-120	Pass	
Mercury	%	108			80-120	Pass	
Nickel	%	106			80-120	Pass	
Zinc	%	105			80-120	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	92			70-130	Pass	
TRH C10-C14	%	87			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	97			70-130	Pass	
Toluene	%	94			70-130	Pass	
Ethylbenzene	%	92			70-130	Pass	
m&p-Xylenes	%	93			70-130	Pass	
o-Xylene	%	94			70-130	Pass	
Xylenes - Total*	%	93			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	78			70-130	Pass	
TRH C6-C10	%	93			70-130	Pass	
TRH >C10-C16	%	86			70-130	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	105			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	107			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	91			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	104			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	107			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	115			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	113			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	104			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	107			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	114			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	102			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	99			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	87			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	144			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	%	137			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	%	119			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	113			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	115			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	92			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	71			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	98			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	81			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	99			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	80			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	100			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	82			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	110			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	%	135			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	116			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	110			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S21-Ap30467	NCP	%	83			70-130	Pass	
4.4'-DDD	S21-Ap30467	NCP	%	80			70-130	Pass	
4.4'-DDE	S21-Ap30467	NCP	%	72			70-130	Pass	
4.4'-DDT	S21-Ap30233	NCP	%	100			70-130	Pass	
a-BHC	S21-Ap30467	NCP	%	75			70-130	Pass	
Aldrin	S21-Ap30467	NCP	%	81			70-130	Pass	
Dieldrin	S21-Ap30467	NCP	%	80			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endosulfan I	S21-Ap30467	NCP	%	80			70-130	Pass	
Endosulfan II	S21-Ap30467	NCP	%	75			70-130	Pass	
Endosulfan sulphate	S21-Ap30233	NCP	%	79			70-130	Pass	
Endrin	S21-Ap30233	NCP	%	100			70-130	Pass	
Endrin aldehyde	S21-Ap30467	NCP	%	85			70-130	Pass	
Endrin ketone	S21-Ap30233	NCP	%	87			70-130	Pass	
g-BHC (Lindane)	S21-Ap30467	NCP	%	87			70-130	Pass	
Heptachlor	S21-Ap30233	NCP	%	81			70-130	Pass	
Hexachlorobenzene	S21-Ap30467	NCP	%	86			70-130	Pass	
Methoxychlor	S21-Ap30233	NCP	%	105			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S21-Ap27646	CP	%	106			75-125	Pass	
Chromium	S21-Ap27646	CP	%	113			75-125	Pass	
Lead	S21-Ap27646	CP	%	116			75-125	Pass	
Nickel	S21-Ap27646	CP	%	101			75-125	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S21-Ap27656	CP	%	94			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S21-Ap27656	CP	%	92			70-130	Pass	
Toluene	S21-Ap27656	CP	%	93			70-130	Pass	
Ethylbenzene	S21-Ap27656	CP	%	97			70-130	Pass	
m&p-Xylenes	S21-Ap27656	CP	%	98			70-130	Pass	
o-Xylene	S21-Ap27656	CP	%	99			70-130	Pass	
Xylenes - Total*	S21-Ap27656	CP	%	98			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S21-Ap27656	CP	%	86			70-130	Pass	
TRH C6-C10	S21-Ap27656	CP	%	97			70-130	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	S21-Ap25988	NCP	%	98			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	S21-Ap25988	NCP	%	103			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	S21-Ap25988	NCP	%	84			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	S21-Ap25988	NCP	%	103			50-150	Pass	
Perfluorooctanoic acid (PFOA)	S21-Ap25988	NCP	%	118			50-150	Pass	
Perfluorononanoic acid (PFNA)	S21-Ap25988	NCP	%	105			50-150	Pass	
Perfluorodecanoic acid (PFDA)	S21-Ap25988	NCP	%	101			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	S21-Ap25988	NCP	%	101			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	S21-Ap25988	NCP	%	111			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	S21-Ap25988	NCP	%	105			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	S21-Ap25988	NCP	%	88			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	S21-Ap25988	NCP	%	105			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S21-Ap25988	NCP	%	96			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S21-Ap25988	NCP	%	108			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	S21-Ap25988	NCP	%	96			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	S21-Ap25988	NCP	%	91			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S21-Ap25988	NCP	%	102			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S21-Ap25988	NCP	%	99			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	S21-Ap25988	NCP	%	84			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	S21-Ap25988	NCP	%	78			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	S21-Ap25988	NCP	%	97			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	S21-Ap25988	NCP	%	82			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	S21-Ap25988	NCP	%	93			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	S21-Ap25988	NCP	%	80			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	S21-Ap25988	NCP	%	102			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	S21-Ap25988	NCP	%	73			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S21-Ap25988	NCP	%	100			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	S21-Ap25988	NCP	%	103			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S21-Ap25988	NCP	%	101			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S21-Ap25988	NCP	%	97			50-150	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C10-C14	S21-Ap27660	CP	%	84			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH >C10-C16	S21-Ap27660	CP	%	83			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S21-Ap27663	CP	%	86			75-125	Pass	
Cadmium	S21-Ap27663	CP	%	87			75-125	Pass	
Chromium	S21-Ap27663	CP	%	87			75-125	Pass	
Copper	S21-Ap27663	CP	%	96			75-125	Pass	
Lead	S21-Ap27663	CP	%	93			75-125	Pass	
Mercury	S21-Ap27663	CP	%	100			75-125	Pass	
Nickel	S21-Ap27663	CP	%	90			75-125	Pass	
Zinc	S21-Ap27663	CP	%	105			75-125	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C10-C14	S21-Ap27674	CP	%	85			70-130	Pass	
Spike - % Recovery									

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH >C10-C16	S21-Ap27674	CP	%	84			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C10-C14	S21-Ap27685	CP	%	116			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH >C10-C16	S21-Ap27685	CP	%	110			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S21-Ap27687	CP	%	84			75-125	Pass	
Cadmium	S21-Ap27687	CP	%	81			75-125	Pass	
Chromium	S21-Ap27687	CP	%	88			75-125	Pass	
Copper	S21-Ap27687	CP	%	88			75-125	Pass	
Lead	S21-Ap27687	CP	%	94			75-125	Pass	
Mercury	S21-Ap27687	CP	%	101			75-125	Pass	
Nickel	S21-Ap27687	CP	%	92			75-125	Pass	
Zinc	S21-Ap27687	CP	%	87			75-125	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
b-BHC	S21-Ap38389	NCP	%	93			70-130	Pass	
d-BHC	S21-Ap38389	NCP	%	100			70-130	Pass	
Heptachlor epoxide	S21-Ap38389	NCP	%	94			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1016	S21-Ap38389	NCP	%	92			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S21-Ap27702	CP	%	91			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S21-Ap27702	CP	%	92			70-130	Pass	
Toluene	S21-Ap27702	CP	%	96			70-130	Pass	
Ethylbenzene	S21-Ap27702	CP	%	101			70-130	Pass	
m&p-Xylenes	S21-Ap27702	CP	%	103			70-130	Pass	
o-Xylene	S21-Ap27702	CP	%	105			70-130	Pass	
Xylenes - Total*	S21-Ap27702	CP	%	104			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S21-Ap27702	CP	%	96			70-130	Pass	
TRH C6-C10	S21-Ap27702	CP	%	101			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S21-Ap27704	CP	%	95			70-130	Pass	
Acenaphthylene	S21-Ap27704	CP	%	108			70-130	Pass	
Anthracene	S21-Ap27704	CP	%	99			70-130	Pass	
Benz(a)anthracene	S21-Ap27704	CP	%	98			70-130	Pass	
Benzo(a)pyrene	S21-Ap27704	CP	%	106			70-130	Pass	
Benzo(b&j)fluoranthene	S21-Ap27704	CP	%	100			70-130	Pass	
Benzo(g.h.i)perylene	S21-Ap27704	CP	%	118			70-130	Pass	
Benzo(k)fluoranthene	S21-Ap27704	CP	%	97			70-130	Pass	
Chrysene	S21-Ap27704	CP	%	101			70-130	Pass	
Dibenz(a.h)anthracene	S21-Ap27704	CP	%	114			70-130	Pass	
Fluoranthene	S21-Ap27704	CP	%	88			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Fluorene	S21-Ap27704	CP	%	100			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S21-Ap27704	CP	%	116			70-130	Pass	
Naphthalene	S21-Ap27704	CP	%	95			70-130	Pass	
Phenanthrene	S21-Ap27704	CP	%	87			70-130	Pass	
Pyrene	S21-Ap27704	CP	%	88			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C10-C14	S21-Ap27707	CP	%	117			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH >C10-C16	S21-Ap27707	CP	%	111			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S21-Ap27729	CP	%	97			70-130	Pass	
Acenaphthylene	S21-Ap27729	CP	%	104			70-130	Pass	
Anthracene	S21-Ap27729	CP	%	100			70-130	Pass	
Benz(a)anthracene	S21-Ap27729	CP	%	104			70-130	Pass	
Benzo(a)pyrene	S21-Ap27729	CP	%	102			70-130	Pass	
Benzo(b&j)fluoranthene	S21-Ap27729	CP	%	94			70-130	Pass	
Benzo(g.h.i)perylene	S21-Ap27729	CP	%	103			70-130	Pass	
Benzo(k)fluoranthene	S21-Ap27729	CP	%	97			70-130	Pass	
Chrysene	S21-Ap27729	CP	%	117			70-130	Pass	
Dibenz(a.h)anthracene	S21-Ap27729	CP	%	102			70-130	Pass	
Fluoranthene	S21-Ap27729	CP	%	117			70-130	Pass	
Fluorene	S21-Ap27729	CP	%	110			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S21-Ap27729	CP	%	100			70-130	Pass	
Naphthalene	S21-Ap27729	CP	%	114			70-130	Pass	
Phenanthrene	S21-Ap27729	CP	%	117			70-130	Pass	
Pyrene	S21-Ap27729	CP	%	112			70-130	Pass	
Spike - % Recovery									
Acid Herbicides				Result 1					
Actril (loxynil)	S21-Ap27732	CP	%	85			70-130	Pass	
Dichlorprop	S21-Ap27732	CP	%	75			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S21-Ap27732	CP	%	92			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S21-Ap27732	CP	%	92			70-130	Pass	
Toluene	S21-Ap27732	CP	%	94			70-130	Pass	
Ethylbenzene	S21-Ap27732	CP	%	99			70-130	Pass	
m&p-Xylenes	S21-Ap27732	CP	%	99			70-130	Pass	
o-Xylene	S21-Ap27732	CP	%	99			70-130	Pass	
Xylenes - Total*	S21-Ap27732	CP	%	99			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S21-Ap27732	CP	%	96			70-130	Pass	
TRH C6-C10	S21-Ap27732	CP	%	101			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	S21-Ap27646	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S21-Ap27646	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S21-Ap27646	CP	mg/kg	< 0.5	< 0.5	<1	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			
Benz(a)anthracene	S21-Ap27646	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S21-Ap27646	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S21-Ap27646	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S21-Ap27646	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S21-Ap27646	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S21-Ap27646	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S21-Ap27646	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S21-Ap27646	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S21-Ap27646	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S21-Ap27646	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S21-Ap27646	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S21-Ap27646	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S21-Ap27646	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S21-Ap27646	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S21-Ap27646	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S21-Ap27646	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S21-Ap27646	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-BHC	S21-Ap27646	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S21-Ap27646	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	S21-Ap27646	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-BHC	S21-Ap27646	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S21-Ap27646	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S21-Ap27646	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S21-Ap27646	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S21-Ap27646	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S21-Ap27646	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S21-Ap27646	CP	mg/kg	0.06	< 0.05	170	30%	Fail	Q15
Endrin ketone	S21-Ap27646	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	S21-Ap27646	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S21-Ap27646	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S21-Ap27646	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S21-Ap27646	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S21-Ap27646	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	S21-Ap27646	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1221	S21-Ap27646	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	S21-Ap27646	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1242	S21-Ap27646	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1248	S21-Ap27646	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1254	S21-Ap27646	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1260	S21-Ap27646	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Total PCB*	S21-Ap30456	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-Ap27646	CP	%	9.9	13	26	30%	Pass	

Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S21-Ap27647	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S21-Ap27647	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S21-Ap27647	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S21-Ap27647	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S21-Ap27647	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S21-Ap27647	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S21-Ap27647	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S21-Ap27647	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S21-Ap27647	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S21-Ap27647	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S21-Ap27647	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S21-Ap27647	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S21-Ap27647	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S21-Ap27647	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S21-Ap27647	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S21-Ap27647	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S21-Ap27647	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S21-Ap27647	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S21-Ap27647	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S21-Ap27647	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-BHC	S21-Ap27647	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S21-Ap27647	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	S21-Ap27647	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-BHC	S21-Ap27647	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S21-Ap27647	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S21-Ap27647	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S21-Ap27647	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S21-Ap27647	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S21-Ap27647	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S21-Ap27647	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S21-Ap27647	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	S21-Ap27647	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S21-Ap27647	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S21-Ap27647	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S21-Ap27647	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S21-Ap27647	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	S21-Ap27647	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1221	S21-Ap27647	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	S21-Ap27647	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1242	S21-Ap27647	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1248	S21-Ap27647	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1254	S21-Ap27647	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1260	S21-Ap27647	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-Ap27656	CP	%	12	10	14	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C10-C14	S21-Ap27658	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S21-Ap27658	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S21-Ap27658	CP	mg/kg	< 50	< 50	<1	30%	Pass	

Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
TRH >C10-C16	S21-Ap27658	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S21-Ap27658	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S21-Ap27658	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-Ap27662	CP	mg/kg	13	13	5.0	30%	Pass	
Cadmium	S21-Ap27662	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S21-Ap27662	CP	mg/kg	21	21	1.0	30%	Pass	
Copper	S21-Ap27662	CP	mg/kg	81	82	1.0	30%	Pass	
Lead	S21-Ap27662	CP	mg/kg	23	27	14	30%	Pass	
Mercury	S21-Ap27662	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S21-Ap27662	CP	mg/kg	13	14	5.0	30%	Pass	
Zinc	S21-Ap27662	CP	mg/kg	110	110	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-Ap27667	CP	%	19	22	12	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C10-C14	S21-Ap27673	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S21-Ap27673	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S21-Ap27673	CP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
TRH >C10-C16	S21-Ap27673	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S21-Ap27673	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S21-Ap27673	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-Ap27675	CP	mg/kg	10	11	3.0	30%	Pass	
Cadmium	S21-Ap27675	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S21-Ap27675	CP	mg/kg	15	15	2.0	30%	Pass	
Copper	S21-Ap27675	CP	mg/kg	17	17	2.0	30%	Pass	
Lead	S21-Ap27675	CP	mg/kg	13	13	3.0	30%	Pass	
Mercury	S21-Ap27675	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S21-Ap27675	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Zinc	S21-Ap27675	CP	mg/kg	16	16	1.0	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-Ap27677	CP	mg/kg	17	20	15	30%	Pass	
Cadmium	S21-Ap27677	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S21-Ap27677	CP	mg/kg	13	15	11	30%	Pass	
Copper	S21-Ap27677	CP	mg/kg	22	26	13	30%	Pass	
Lead	S21-Ap27677	CP	mg/kg	15	15	<1	30%	Pass	
Mercury	S21-Ap27677	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S21-Ap27677	CP	mg/kg	9.1	9.5	5.0	30%	Pass	
Zinc	S21-Ap27677	CP	mg/kg	52	50	2.0	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-Ap27677	CP	%	21	23	10	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S21-Ap27680	CP	mg/kg	< 20	< 20	<1	30%	Pass	

Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S21-Ap27680	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S21-Ap27680	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S21-Ap27680	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S21-Ap27680	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S21-Ap27680	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S21-Ap27680	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S21-Ap27680	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S21-Ap27680	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S21-Ap27684	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S21-Ap27684	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S21-Ap27684	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S21-Ap27684	CP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S21-Ap27684	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S21-Ap27684	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S21-Ap27684	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S21-Ap27684	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S21-Ap27684	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S21-Ap27684	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S21-Ap27684	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S21-Ap27684	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S21-Ap27684	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S21-Ap27684	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S21-Ap27684	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-Ap27686	CP	mg/kg	5.8	5.2	10	30%	Pass	
Cadmium	S21-Ap27686	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S21-Ap27686	CP	mg/kg	8.4	8.0	6.0	30%	Pass	
Copper	S21-Ap27686	CP	mg/kg	10	9.7	7.0	30%	Pass	
Lead	S21-Ap27686	CP	mg/kg	15	14	7.0	30%	Pass	
Mercury	S21-Ap27686	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S21-Ap27686	CP	mg/kg	7.0	6.5	7.0	30%	Pass	
Zinc	S21-Ap27686	CP	mg/kg	40	36	11	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-Ap27687	CP	%	10	11	11	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S21-Ap27701	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S21-Ap27701	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S21-Ap27701	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S21-Ap27701	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S21-Ap27701	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S21-Ap27701	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S21-Ap27701	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	

Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S21-Ap27701	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S21-Ap27701	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-Ap27702	CP	%	11	11	3.0	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S21-Ap27703	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S21-Ap27703	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S21-Ap27703	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S21-Ap27703	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S21-Ap27703	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S21-Ap27703	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S21-Ap27703	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S21-Ap27703	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S21-Ap27703	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S21-Ap27703	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S21-Ap27703	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S21-Ap27703	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S21-Ap27703	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S21-Ap27703	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S21-Ap27703	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S21-Ap27703	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-Ap27703	CP	mg/kg	7.7	8.0	3.0	30%	Pass	
Cadmium	S21-Ap27703	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S21-Ap27703	CP	mg/kg	21	23	8.0	30%	Pass	
Copper	S21-Ap27703	CP	mg/kg	35	37	5.0	30%	Pass	
Lead	S21-Ap27703	CP	mg/kg	24	25	7.0	30%	Pass	
Mercury	S21-Ap27703	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S21-Ap27703	CP	mg/kg	13	14	7.0	30%	Pass	
Zinc	S21-Ap27703	CP	mg/kg	83	92	10	30%	Pass	
Duplicate									
Acid Herbicides				Result 1	Result 2	RPD			
2.4-D	S21-Ap27704	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4-DB	S21-Ap27704	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4.5-T	S21-Ap27704	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4.5-TP	S21-Ap27704	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Actril (loxynil)	S21-Ap27704	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dicamba	S21-Ap27704	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorprop	S21-Ap27704	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dinitro-o-cresol	S21-Ap27704	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dinoseb	S21-Ap27704	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
MCPA	S21-Ap27704	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
MCPB	S21-Ap27704	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Mecoprop	S21-Ap27704	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C10-C14	S21-Ap27706	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S21-Ap27706	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S21-Ap27706	CP	mg/kg	< 50	53	28	30%	Pass	

Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
TRH >C10-C16	S21-Ap27706	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S21-Ap27706	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S21-Ap27706	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S21-Ap27725	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S21-Ap27725	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S21-Ap27725	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S21-Ap27725	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S21-Ap27725	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S21-Ap27725	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S21-Ap27725	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S21-Ap27725	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S21-Ap27725	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S21-Ap27725	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S21-Ap27725	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S21-Ap27725	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S21-Ap27725	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S21-Ap27725	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S21-Ap27725	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S21-Ap27725	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S21-Ap27725	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S21-Ap27725	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S21-Ap27725	CP	mg/kg	0.14	0.08	51	30%	Fail	Q15
4.4'-DDT	S21-Ap27725	CP	mg/kg	0.08	0.13	53	30%	Fail	Q15
a-BHC	S21-Ap27725	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S21-Ap27725	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	S21-Ap27725	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-BHC	S21-Ap27725	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S21-Ap27725	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S21-Ap27725	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S21-Ap27725	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S21-Ap27725	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S21-Ap27725	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S21-Ap27725	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S21-Ap27725	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	S21-Ap27725	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S21-Ap27725	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S21-Ap27725	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S21-Ap27725	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S21-Ap27725	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Toxaphene	S21-Ap37334	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	S21-Ap27725	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1221	S21-Ap27725	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	S21-Ap27725	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1242	S21-Ap27725	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1248	S21-Ap27725	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1254	S21-Ap27725	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1260	S21-Ap27725	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-Ap27725	CP	mg/kg	6.5	6.6	2.0	30%	Pass	
Cadmium	S21-Ap27725	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S21-Ap27725	CP	mg/kg	25	27	5.0	30%	Pass	
Copper	S21-Ap27725	CP	mg/kg	47	51	9.0	30%	Pass	
Lead	S21-Ap27725	CP	mg/kg	36	39	8.0	30%	Pass	
Mercury	S21-Ap27725	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S21-Ap27725	CP	mg/kg	16	17	7.0	30%	Pass	
Zinc	S21-Ap27725	CP	mg/kg	130	140	9.0	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C10-C14	S21-Ap27725	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S21-Ap27725	CP	mg/kg	60	53	11	30%	Pass	
TRH C29-C36	S21-Ap27725	CP	mg/kg	62	< 50	29	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
TRH >C10-C16	S21-Ap27725	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S21-Ap27725	CP	mg/kg	100	< 100	21	30%	Pass	
TRH >C34-C40	S21-Ap27725	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	S21-Ap27733	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	S21-Ap27733	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	S21-Ap27733	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	S21-Ap27733	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	S21-Ap27733	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	S21-Ap27733	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	S21-Ap27733	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	S21-Ap27733	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	S21-Ap27733	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	S21-Ap27733	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	S21-Ap27733	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	S21-Ap27733	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S21-Ap27733	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S21-Ap27733	CP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	S21-Ap27733	CP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	S21-Ap27733	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S21-Ap27733	CP	ug/kg	< 10	< 10	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S21-Ap27733	CP	ug/kg	< 10	< 10	<1	30%	Pass	

Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	S21-Ap27733	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	S21-Ap27733	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	S21-Ap27733	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	S21-Ap27733	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	S21-Ap27733	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	S21-Ap27733	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	S21-Ap27733	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	S21-Ap27733	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S21-Ap27733	CP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	S21-Ap27733	CP	ug/kg	< 10	< 10	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S21-Ap27733	CP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S21-Ap27733	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-Ap27735	CP	%	8.3	7.2	14	30%	Pass	

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

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
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).
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)
John Nguyen	Senior Analyst-Metal (NSW)
Joseph Edouard	Senior Analyst-Organic (VIC)
Sarah McCallion	Senior Analyst-PFAS (QLD)

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.

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

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 and proficiency testing scheme providers reports.

Attention: **Ryan Lill**

Report **788078-W**
Project name KEMPS CREEK DSI
Project ID 60482
Received Date Apr 15, 2021

Client Sample ID			**RIN140421**	**TB1**	**TB2**	**TS1**
Sample Matrix			**Water**	**Water**	**Water**	**Water**
Eurofins Sample No.			**S21-Ap27736**	**S21-Ap27739**	**S21-Ap27740**	**S21-Ap27741**
Date Sampled			**Apr 14, 2021**	**Apr 15, 2021**	**Apr 14, 2021**	**Apr 15, 2021**
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-C36 (Total)	0.1	mg/L	< 0.1	-	-	-
BTEX						
Benzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Toluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
m&p-Xylenes	0.002	mg/L	< 0.002	< 0.002	< 0.002	-
o-Xylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	-
Xylenes - Total*	0.003	mg/L	< 0.003	< 0.003	< 0.003	-
4-Bromofluorobenzene (surr.)	1	%	95	90	90	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.01	mg/L	< 0.01	-	-	-
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	-	-	-
TRH >C10-C40 (total)*	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	-	-	-

Client Sample ID			RIN140421	TB1	TB2	TS1
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S21-Ap27736	S21-Ap27739	S21-Ap27740	S21-Ap27741
Date Sampled			Apr 14, 2021	Apr 15, 2021	Apr 14, 2021	Apr 15, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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*	0.001	mg/L	< 0.001	-	-	-
2-Fluorobiphenyl (surr.)	1	%	77	-	-	-
p-Terphenyl-d14 (surr.)	1	%	60	-	-	-
Heavy Metals						
Arsenic	0.001	mg/L	< 0.001	-	-	-
Cadmium	0.0002	mg/L	< 0.0002	-	-	-
Chromium	0.001	mg/L	< 0.001	-	-	-
Copper	0.001	mg/L	0.002	-	-	-
Lead	0.001	mg/L	< 0.001	-	-	-
Mercury	0.0001	mg/L	< 0.0001	-	-	-
Nickel	0.001	mg/L	0.004	-	-	-
Zinc	0.005	mg/L	0.015	-	-	-
BTEX						
Benzene	1	%	-	-	-	93
Ethylbenzene	1	%	-	-	-	85
m&p-Xylenes	1	%	-	-	-	91
o-Xylene	1	%	-	-	-	81
Toluene	1	%	-	-	-	88
Xylenes - Total	1	%	-	-	-	84
4-Bromofluorobenzene (surr.)	1	%	-	-	-	92

Client Sample ID			TS2
Sample Matrix			Water
Eurofins Sample No.			S21-Ap27742
Date Sampled			Apr 14, 2021
Test/Reference	LOR	Unit	
BTEX			
Benzene	1	%	93
Ethylbenzene	1	%	85
m&p-Xylenes	1	%	90
o-Xylene	1	%	80
Toluene	1	%	87
Xylenes - Total	1	%	83
4-Bromofluorobenzene (surr.)	1	%	89

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
Eurofins Suite B6			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Apr 19, 2021	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Apr 19, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Apr 19, 2021	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Apr 19, 2021	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Metals M8	Sydney	Apr 22, 2021	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Eurofins Suite B4			
Polycyclic Aromatic Hydrocarbons	Sydney	Apr 19, 2021	7 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			

eurofins | Environment Testing

ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 788078
Phone: 02 8245 0300
Fax:

Received: Apr 15, 2021 4:42 PM
Due: Apr 22, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - AS4964	Asbestos - WA guidelines	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	BTEX	Suite B13: OCP/PCB	Moisture Set	Moisture Set	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B4	Eurofins Suite B6	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory																						
External Laboratory																						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**																	
1	BH122 0-0.2	Apr 15, 2021		Soil	S21-Ap27646					X	X	X		X		X						
2	BH123 0-0.2	Apr 15, 2021		Soil	S21-Ap27647						X			X		X	X					
3	BH158 0-0.2	Apr 15, 2021		Soil	S21-Ap27648											X			X			
4	BH159 0-0.2	Apr 15, 2021		Soil	S21-Ap27649					X		X				X						
5	BH161 0-0.2	Apr 15, 2021		Soil	S21-Ap27650					X		X		X		X						
6	BH162 0-0.2	Apr 15, 2021		Soil	S21-Ap27651											X			X			
7	BH162 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27652					X	X	X				X						
8	BH164 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27653											X			X			
9	BH165 0-0.2	Apr 15, 2021		Soil	S21-Ap27654							X				X						

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Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory																						
External Laboratory																						
10	BH166 0-0.2	Apr 15, 2021		Soil	S21-Ap27655											X			X			
11	BH167 0-0.2	Apr 15, 2021		Soil	S21-Ap27656											X		X				
12	BH168 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27657			X														
13	BH244 0-0.1	Apr 15, 2021		Soil	S21-Ap27658						X					X				X		
14	BH244 0.2-0.3	Apr 15, 2021		Soil	S21-Ap27659					X						X					X	
15	BH248 0-0.1	Apr 15, 2021		Soil	S21-Ap27660		X							X		X	X					
16	BH249 0-0.2	Apr 15, 2021		Soil	S21-Ap27661					X		X				X						
17	BH250 0-0.2	Apr 15, 2021		Soil	S21-Ap27662		X				X					X	X					
18	BH251 0-0.1	Apr 15, 2021		Soil	S21-Ap27663						X					X	X					
19	BH252 0-0.1	Apr 15, 2021		Soil	S21-Ap27664						X					X				X		
20	BH257 0-0.1	Apr 15, 2021		Soil	S21-Ap27665											X	X					

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Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory																						
External Laboratory																						
21	BH258 0-0.2	Apr 15, 2021		Soil	S21-Ap27666			X														
22	BH271 0-0.1	Apr 14, 2021		Soil	S21-Ap27667					X		X		X		X						
23	BH272 0-0.1	Apr 14, 2021		Soil	S21-Ap27668		X			X		X		X		X						
24	BH272 0.4-0.5	Apr 14, 2021		Soil	S21-Ap27669		X									X		X				
25	BH281 0.1-0.2	Apr 15, 2021		Soil	S21-Ap27670									X		X				X		
26	BH282 0-0.1	Apr 15, 2021		Soil	S21-Ap27671						X			X		X	X					
27	BH282 0.2-0.3	Apr 15, 2021		Soil	S21-Ap27672											X		X				
28	BH283 0.2-0.3	Apr 15, 2021		Soil	S21-Ap27673									X		X	X				X	
29	BH284 0.2-0.3	Apr 14, 2021		Soil	S21-Ap27674									X		X	X					
30	BH285 0.2-0.3	Apr 14, 2021		Soil	S21-Ap27675											X	X					
31	BH286 0.3-0.4	Apr 15, 2021		Soil	S21-Ap27676											X		X				

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Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
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Due: Apr 22, 2021
Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

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Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory																						
External Laboratory																						
32	BH288 0.1-0.2	Apr 15, 2021		Soil	S21-Ap27677									X		X	X					
33	BH294 0-0.1	Apr 14, 2021		Soil	S21-Ap27678											X	X					
34	BH295 0-0.1	Apr 14, 2021		Soil	S21-Ap27679											X	X					
35	BH296 0-0.1	Apr 14, 2021		Soil	S21-Ap27680											X	X					
36	BH307 0-0.15	Apr 15, 2021		Soil	S21-Ap27681		X									X	X					
37	BH308 0-0.1	Apr 14, 2021		Soil	S21-Ap27682		X							X		X	X					
38	BH311 0.2-0.5	Apr 15, 2021		Soil	S21-Ap27683	X				X		X				X						
39	BH313 0-0.1	Apr 15, 2021		Soil	S21-Ap27684											X				X		
40	BH314 0-0.1	Apr 15, 2021		Soil	S21-Ap27685		X									X	X					
41	BH315 0-0.1	Apr 15, 2021		Soil	S21-Ap27686											X	X					
42	BH316 0-0.2	Apr 15, 2021		Soil	S21-Ap27687					X		X				X						

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Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory																						
External Laboratory																						
43	BH317 0-0.2	Apr 15, 2021		Soil	S21-Ap27688		X			X						X						
44	BH318 0-0.2	Apr 15, 2021		Soil	S21-Ap27689					X		X		X		X						
45	BH321 0-0.1	Apr 15, 2021		Soil	S21-Ap27690		X															
46	BH322 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27691					X		X				X						
47	BH323 0-0.1	Apr 15, 2021		Soil	S21-Ap27692		X															
48	BH323 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27693											X	X					
49	BH324 0-0.2	Apr 15, 2021		Soil	S21-Ap27694		X															
50	BH326 0-0.1	Apr 15, 2021		Soil	S21-Ap27695		X															
51	BH327 0-0.1	Apr 15, 2021		Soil	S21-Ap27696		X															
52	BH328 0-0.1	Apr 15, 2021		Soil	S21-Ap27697									X		X			X			
53	BH329 0-0.1	Apr 15, 2021		Soil	S21-Ap27698		X									X	X					

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Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory																						
External Laboratory																						
54	BH329 0.5-0.6	Apr 15, 2021		Soil	S21-Ap27699					X		X				X						
55	BH330 0-0.2	Apr 15, 2021		Soil	S21-Ap27700		X									X				X		
56	BH253 0-0.1	Apr 15, 2021		Soil	S21-Ap27701		X									X	X					
57	BH254 0-0.1	Apr 15, 2021		Soil	S21-Ap27702		X				X			X		X	X					
58	BH255 0-0.1	Apr 15, 2021		Soil	S21-Ap27703		X			X		X				X						
59	BH256 0-0.1	Apr 15, 2021		Soil	S21-Ap27704						X			X		X	X					
60	BH365 0-0.2	Apr 15, 2021		Soil	S21-Ap27705		X			X		X				X					X	
61	BH399 0-0.1	Apr 14, 2021		Soil	S21-Ap27706											X		X				
62	BH406 0.15-0.3	Apr 15, 2021		Soil	S21-Ap27707		X									X	X					
63	BH407 0-0.1	Apr 15, 2021		Soil	S21-Ap27708		X									X	X				X	

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Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory																						
External Laboratory																						
64	BH408 0-0.1	Apr 15, 2021		Soil	S21-Ap27709		X															
65	BH409 0-0.15	Apr 15, 2021		Soil	S21-Ap27710		X															
66	BH410 0-0.2	Apr 15, 2021		Soil	S21-Ap27711		X															
67	BH410 0.2-0.5	Apr 15, 2021		Soil	S21-Ap27712					X		X				X					X	
68	BH411 0-0.2	Apr 15, 2021		Soil	S21-Ap27713		X															
69	BH412 0-0.4	Apr 14, 2021		Soil	S21-Ap27714		X															
70	BH412 0-0.1	Apr 14, 2021		Soil	S21-Ap27715											X	X					
71	BH413 0-1	Apr 14, 2021		Soil	S21-Ap27716		X															
72	BH414 0-0.1	Apr 14, 2021		Soil	S21-Ap27717											X	X					
73	BH414 0-0.2	Apr 14, 2021		Soil	S21-Ap27718		X															
74	BH415 0-0.2	Apr 14, 2021		Soil	S21-Ap27719										X						X	

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NATA # 1261
Site # 1254 & 14271

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Unit F3, Building F
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Lane Cove West NSW 2066
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Perth
46-48 Banksia Road
Welshpool WA 6106
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Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory																						
External Laboratory																						
75	BH415 0-0.2	Apr 14, 2021		Soil	S21-Ap27720		X															
76	BH416 0-0.1	Apr 14, 2021		Soil	S21-Ap27721					X		X				X						
77	BH416 0-0.2	Apr 14, 2021		Soil	S21-Ap27722		X															
78	BH417 0-0.1	Apr 14, 2021		Soil	S21-Ap27723											X	X					
79	BH417 0-0.2	Apr 14, 2021		Soil	S21-Ap27724		X															
80	BH418 0-0.1	Apr 15, 2021		Soil	S21-Ap27725									X		X	X					
81	BH418 0-0.3	Apr 15, 2021		Soil	S21-Ap27726		X															
82	BH419 0-0.15	Apr 15, 2021		Soil	S21-Ap27727		X															
83	BH420 0-0.1	Apr 15, 2021		Soil	S21-Ap27728		X															
84	BH421 0-0.1	Apr 15, 2021		Soil	S21-Ap27729		X			X		X				X						
85	BH432 0-0.3	Apr 15, 2021		Soil	S21-Ap27730		X									X	X				X	

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Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory																						
External Laboratory																						
86	BH432 0.5-0.6	Apr 15, 2021		Soil	S21-Ap27731					X		X				X						
87	QC09 - SOIL	Apr 15, 2021		Soil	S21-Ap27732						X			X		X	X					
88	QC10 - SOIL	Apr 15, 2021		Soil	S21-Ap27733										X						X	
89	QC11 - SOIL	Apr 15, 2021		Soil	S21-Ap27734					X		X				X						
90	QC12 - SOIL	Apr 15, 2021		Soil	S21-Ap27735							X				X						
91	RIN140421	Apr 14, 2021		Water	S21-Ap27736												X					
92	RIN150421	Apr 15, 2021		Water	S21-Ap27738			X														
93	TB1	Apr 15, 2021		Water	S21-Ap27739								X									
94	TB2	Apr 14, 2021		Water	S21-Ap27740								X									
95	TS1	Apr 15, 2021		Water	S21-Ap27741																	X
96	TS2	Apr 14, 2021		Water	S21-Ap27742																	X

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Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory																						
External Laboratory																						
97	BH122 0.3-0.4	Apr 15, 2021		Soil	S21-Ap27743				X													
98	BH123 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27744				X													
99	BH148 0-0.1	Apr 15, 2021		Soil	S21-Ap27745				X													
100	BH148 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27746				X													
101	BH158 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27747				X													
102	BH160 0-0.2	Apr 15, 2021		Soil	S21-Ap27748				X													
103	BH160 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27749				X													
104	BH163 0-0.2	Apr 15, 2021		Soil	S21-Ap27750				X													
105	BH164 0-0.2	Apr 15, 2021		Soil	S21-Ap27751				X													
106	BH166 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27752				X													
107	BH168 0-0.2	Apr 15, 2021		Soil	S21-Ap27753				X													

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Priority: 5 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - AS4964	Asbestos - WA guidelines	CANCELLED	HOLD	Polycyclic Aromatic Hydrocarbons	Acid Herbicides	Metals M8	BTEX	Suite B13: OCP/PCB	Moisture Set	Moisture Set	Eurofins Suite B7	Eurofins Suite B1	Eurofins Suite B4	Eurofins Suite B6	Per- and Polyfluoroalkyl Substances (PFASs)	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory																						
External Laboratory																						
108	BH232 0-0.1	Apr 15, 2021		Soil	S21-Ap27754				X													
109	BH232 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27755				X													
110	BH233 0-0.5	Apr 15, 2021		Soil	S21-Ap27756				X													
111	BH233 0.5-0.6	Apr 15, 2021		Soil	S21-Ap27757			X														
112	BH245 0-0.1	Apr 15, 2021		Soil	S21-Ap27758				X													
113	BH245 0.2-0.3	Apr 15, 2021		Soil	S21-Ap27759				X													
114	BH247 0-0.2	Apr 15, 2021		Soil	S21-Ap27760				X													
115	BH247 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27761				X													
116	BH248 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27762				X													
117	BH249 0.3-0.4	Apr 15, 2021		Soil	S21-Ap27763				X													
118	BH250 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27764				X													

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

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Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
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New Zealand

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
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IANZ # 1327

Christchurch
43 Detroit Drive
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IANZ # 1290

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Project ID: 60482

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Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory																						
External Laboratory																						
119	BH251 0.2-0.3	Apr 15, 2021		Soil	S21-Ap27765				X													
120	BH252 0.1-0.2	Apr 15, 2021		Soil	S21-Ap27766				X													
121	BH257 0.3-0.4	Apr 15, 2021		Soil	S21-Ap27767				X													
122	BH257 0.6-0.7	Apr 15, 2021		Soil	S21-Ap27768				X													
123	BH258 0.5-0.6	Apr 15, 2021		Soil	S21-Ap27769			X														
124	BH262 0-0.1	Apr 15, 2021		Soil	S21-Ap27770				X													
125	BH262 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27771				X													
126	BH271 0.4-0.5	Apr 14, 2021		Soil	S21-Ap27772				X													
127	BH281 0-0.1	Apr 15, 2021		Soil	S21-Ap27773				X													
128	BH283 0-0.1	Apr 15, 2021		Soil	S21-Ap27774				X													
129	BH284 0-0.1	Apr 14, 2021		Soil	S21-Ap27775				X													

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Australia

Melbourne
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NATA # 1261
Site # 1254 & 14271

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4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
35 O'Rorke Road
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Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory																						
External Laboratory																						
130	BH284-B 0-0.1	Apr 14, 2021		Soil	S21-Ap27776				X													
131	BH284-B 0.2-0.3	Apr 14, 2021		Soil	S21-Ap27777				X													
132	BH285 0-0.1	Apr 14, 2021		Soil	S21-Ap27778				X													
133	BH286 0-0.1	Apr 14, 2021		Soil	S21-Ap27779				X													
134	BH287 0-0.1	Apr 15, 2021		Soil	S21-Ap27780				X													
135	BH287 0.3-0.4	Apr 15, 2021		Soil	S21-Ap27781				X													
136	BH288 0-0.1	Apr 15, 2021		Soil	S21-Ap27782				X													
137	BH288 0.2-0.3	Apr 15, 2021		Soil	S21-Ap27783				X													
138	BH294 0.4-0.5	Apr 14, 2021		Soil	S21-Ap27784				X													
139	BH295 0.4-0.5	Apr 14, 2021		Soil	S21-Ap27785				X													

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Australia

Melbourne
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Sydney
Unit F3, Building F
16 Mars Road
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Welshpool WA 6106
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NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
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Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory																						
External Laboratory																						
140	BH296 0.4-0.5	Apr 14, 2021		Soil	S21-Ap27786				X													
141	BH307 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27787				X													
142	BH308 0.4-0.5	Apr 14, 2021		Soil	S21-Ap27788				X													
143	BH311 0-0.1	Apr 15, 2021		Soil	S21-Ap27789				X													
144	BH312 0-0.1	Apr 15, 2021		Soil	S21-Ap27790				X													
145	BH312 0.3-0.4	Apr 15, 2021		Soil	S21-Ap27791				X													
146	BH313 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27792				X													
147	BH314 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27793				X													
148	BH315 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27794				X													
149	BH316 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27795				X													
150	BH317 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27796				X													

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Australia

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Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
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Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory																						
External Laboratory																						
151	BH318 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27797				X													
152	BH319 0-0.1	Apr 15, 2021		Soil	S21-Ap27798				X													
153	BH320 0-0.2	Apr 15, 2021		Soil	S21-Ap27799				X													
154	BH320 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27800				X													
155	BH321 0.2-0.3	Apr 15, 2021		Soil	S21-Ap27801				X													
156	BH321 0.5-0.6	Apr 15, 2021		Soil	S21-Ap27802				X													
157	BH322 0-0.2	Apr 15, 2021		Soil	S21-Ap27803				X													
158	BH325 0-0.1	Apr 15, 2021		Soil	S21-Ap27804				X													
159	BH327 0.3-0.4	Apr 15, 2021		Soil	S21-Ap27805				X													
160	BH328 0.2-0.3	Apr 15, 2021		Soil	S21-Ap27806				X													
161	BH328 0.5-0.6	Apr 15, 2021		Soil	S21-Ap27807				X													

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Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
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Perth
46-48 Banksia Road
Welshpool WA 6106
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Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
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Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory																						
External Laboratory																						
162	BH329 0.2-0.3	Apr 15, 2021		Soil	S21-Ap27808				X													
163	BH330 0.3-0.4	Apr 15, 2021		Soil	S21-Ap27809				X													
164	BH330 0.6-0.7	Apr 15, 2021		Soil	S21-Ap27810				X													
165	BH353 0.3-0.4	Apr 15, 2021		Soil	S21-Ap27811				X													
166	BH254 0.3-0.4	Apr 15, 2021		Soil	S21-Ap27812				X													
167	BH255 0.3-0.4	Apr 15, 2021		Soil	S21-Ap27813				X													
168	BH256 0.3-0.4	Apr 15, 2021		Soil	S21-Ap27814				X													
169	BH365 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27815				X													
170	BH399 0.5-0.6	Apr 14, 2021		Soil	S21-Ap27816				X													
171	BH406 0-0.15	Apr 15, 2021		Soil	S21-Ap27817				X													
172	BH406 0.5-0.6	Apr 15, 2021		Soil	S21-Ap27818				X													

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Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory																						
External Laboratory																						
173	BH407 0.1-0.5	Apr 15, 2021		Soil	S21-Ap27819				X													
174	BH407 0.7-0.8	Apr 15, 2021		Soil	S21-Ap27820				X													
175	BH408 0.1-0.4	Apr 15, 2021		Soil	S21-Ap27821				X													
176	BH408 0.5-0.6	Apr 15, 2021		Soil	S21-Ap27822				X													
177	BH409 0.15-0.4	Apr 15, 2021		Soil	S21-Ap27823				X													
178	BH409 0.5-0.6	Apr 15, 2021		Soil	S21-Ap27824				X													
179	BH411 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27825				X													
180	BH413 0-0.1	Apr 14, 2021		Soil	S21-Ap27826				X													
181	BH415 0-0.1	Apr 14, 2021		Soil	S21-Ap27827				X													
182	BH419 0.2-0.3	Apr 15, 2021		Soil	S21-Ap27828				X													

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Melbourne Laboratory - NATA Site # 1254 & 14271											X											
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X		X	X	X	X	X	X	X	X	X		X
Brisbane Laboratory - NATA Site # 20794															X	X					X	
Perth Laboratory - NATA Site # 23736																						
Mayfield Laboratory																						
External Laboratory																						
183	BH419 0.5-0.6	Apr 15, 2021		Soil	S21-Ap27829				X													
184	BH420 0.2-0.3	Apr 15, 2021		Soil	S21-Ap27830				X													
185	BH420 0.5-0.6	Apr 15, 2021		Soil	S21-Ap27831				X													
186	BH421 0.1-0.2	Apr 15, 2021		Soil	S21-Ap27832				X													
187	BH421 0.4-0.5	Apr 15, 2021		Soil	S21-Ap27833			X														
188	BH421 0.8-0.9	Apr 15, 2021		Soil	S21-Ap27834				X													
189	BH432 0.7-0.8	Apr 15, 2021		Soil	S21-Ap27835				X													
190	RIN130421	Apr 15, 2021		Water	S21-Ap28191				X													
191	BH482 0.0-0.2	Apr 15, 2021		Soil	S21-Ap28192				X													
192	BH482 0.5-0.6	Apr 15, 2021		Soil	S21-Ap28193				X													
Test Counts						1	36	6	93	21	11	21	2	18	70	70	31	5	5	5	8	2

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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.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram | **mg/L:** milligrams per litre | **ug/L:** micrograms per litre

ppm: Parts per million | **ppb:** Parts per billion | **%:** Percentage

org/100mL: Organisms per 100 millilitres | **NTU:** Nephelometric Turbidity Units | **MPN/100mL:** Most Probable Number of organisms per 100 millilitres

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 and 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.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
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 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

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, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene 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 Aroclor 1260 in Matrix Spikes and LCS.
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 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 - 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	< 0.01			0.01	Pass	
TRH C6-C10	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	< 0.001			0.001	Pass	
Cadmium	mg/L	< 0.0002			0.0002	Pass	
Chromium	mg/L	0.001			0.001	Pass	
Copper	mg/L	< 0.001			0.001	Pass	
Lead	mg/L	< 0.001			0.001	Pass	
Mercury	mg/L	< 0.0001			0.0001	Pass	
Nickel	mg/L	< 0.001			0.001	Pass	
Zinc	mg/L	< 0.005			0.005	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	103			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
TRH C10-C14	%	71			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	102			70-130	Pass	
Toluene	%	98			70-130	Pass	
Ethylbenzene	%	100			70-130	Pass	
m&p-Xylenes	%	97			70-130	Pass	
o-Xylene	%	96			70-130	Pass	
Xylenes - Total*	%	96			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	106			70-130	Pass	
TRH C6-C10	%	108			70-130	Pass	
TRH >C10-C16	%	75			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	99			70-130	Pass	
Acenaphthylene	%	111			70-130	Pass	
Anthracene	%	104			70-130	Pass	
Benz(a)anthracene	%	72			70-130	Pass	
Fluoranthene	%	95			70-130	Pass	
Fluorene	%	113			70-130	Pass	
Naphthalene	%	111			70-130	Pass	
Phenanthrene	%	110			70-130	Pass	
Pyrene	%	94			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	92			80-120	Pass	
Cadmium	%	96			80-120	Pass	
Chromium	%	103			80-120	Pass	
Copper	%	104			80-120	Pass	
Lead	%	107			80-120	Pass	
Mercury	%	106			80-120	Pass	
Nickel	%	103			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									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S21-Ap26478	NCP	%	99			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S21-Ap26478	NCP	%	96			70-130	Pass	
Toluene	S21-Ap26478	NCP	%	94			70-130	Pass	
Ethylbenzene	S21-Ap26478	NCP	%	94			70-130	Pass	
m&p-Xylenes	S21-Ap26478	NCP	%	88			70-130	Pass	
o-Xylene	S21-Ap26478	NCP	%	93			70-130	Pass	
Xylenes - Total*	S21-Ap26478	NCP	%	89			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH C6-C10	S21-Ap26478	NCP	%	109			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S21-Ap23384	NCP	%	96			75-125	Pass	
Cadmium	S21-Ap23384	NCP	%	96			75-125	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Chromium	S21-Ap23384	NCP	%	100			75-125	Pass	
Copper	S21-Ap23384	NCP	%	100			75-125	Pass	
Lead	S21-Ap23384	NCP	%	102			75-125	Pass	
Mercury	S21-Ap23384	NCP	%	106			75-125	Pass	
Nickel	S21-Ap23384	NCP	%	97			75-125	Pass	
Zinc	S21-Ap23384	NCP	%	97			75-125	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	S21-Ap24794	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH C10-C14	S21-Ap26436	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH C15-C28	S21-Ap26436	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH C29-C36	S21-Ap26436	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S21-Ap24794	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Toluene	S21-Ap24794	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Ethylbenzene	S21-Ap24794	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
m&p-Xylenes	S21-Ap24794	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
o-Xylene	S21-Ap24794	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Xylenes - Total*	S21-Ap24794	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S21-Ap24794	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
TRH C6-C10	S21-Ap24794	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH >C10-C16	S21-Ap26436	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH >C16-C34	S21-Ap26436	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH >C34-C40	S21-Ap26436	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-Ap24144	NCP	mg/L	0.002	0.002	9.0	30%	Pass	
Cadmium	S21-Ap24144	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Chromium	S21-Ap24144	NCP	mg/L	0.004	0.003	37	30%	Fail	Q15
Copper	S21-Ap24144	NCP	mg/L	0.002	0.002	3.0	30%	Pass	
Lead	S21-Ap24144	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Mercury	S21-Ap24144	NCP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel	S21-Ap24144	NCP	mg/L	0.014	0.014	1.0	30%	Pass	
Zinc	S21-Ap24144	NCP	mg/L	0.023	0.024	6.0	30%	Pass	

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

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 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)
John Nguyen	Senior Analyst-Metal (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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Grace Tuckwell

From: #AU04_Enviro_Sample_NSW
Subject: FW: Eurofins Test Results - Report 786610 : Site KEMPS CREEK DSI (60482)

From: Ryan Lill <rlill@jbsg.com.au>
Sent: Thursday, 22 April 2021 1:58 PM
To: Ursula Long <UrsulaLong@eurofins.com>
Subject: FW: Eurofins Test Results - Report 786610 : Site KEMPS CREEK DSI (60482)

EXTERNAL EMAIL*

HI Ursula,

Could I please have the following samples analysed on three day TAT

Heavy Metals and TRH/BTEX: BH380 0.0-0.1 - 21-Ap19660
Heavy Metals: BH375 0-0.1 - 21-Ap17385
TRH/BTEX: BH375 0.3-0.4 - 21-Ap17482

Regards,
Ryan

Ryan Lill | Project Manager | JBS&G
Sydney | Melbourne | Adelaide | Perth | Brisbane | Canberra | Darwin | Wollongong | Bunbury
Level 1, 50 Margaret Street Sydney NSW 2000
T: 02 8245 0300 | M: 0468 771 734 | E: rlill@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
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From: Ryan Lill
Sent: Wednesday, 21 April 2021 6:05 PM
To: UrsulaLong@eurofins.com
Cc: Christopher Dagger <cdagger@jbsg.com.au>
Subject: RE: Eurofins Test Results - Report 786610 : Site KEMPS CREEK DSI (60482)

Hi Ursula,

Could I have the following sample analysed on 3 day TAT please.

Heavy Metals and TRH/BTEX on:
TP357 0-0.1 - 21-Ap17526
TP358 0-0.1 - 21-Ap17527

Heavy Metals and asbestos on
BH375 0.3-0.4 - 21-Ap17482

Kind Regards,

Ryan

Ryan Lill | Project Manager | JBS&G
Sydney | Melbourne | Adelaide | Perth | Brisbane | Canberra | Darwin | Wollongong | Bunbury
Level 1, 50 Margaret Street Sydney NSW 2000
T: 02 8245 0300 | M: 0468 771 734 | E: rlill@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
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From: UrsulaLong@eurofins.com <UrsulaLong@eurofins.com>
Sent: Tuesday, 20 April 2021 11:36 AM
To: Ryan Lill <rlill@jbsg.com.au>
Cc: Christopher Dagger <cdagger@jbsg.com.au>
Subject: Eurofins Test Results - Report 786610 : Site KEMPS CREEK DSI (60482)

[EXTERNAL EMAIL] Stop and think before opening attachments, clicking or responding.

Please find attached final results for your project in the subject header.

Regards

Ursula Long

Eurofins
Unit F3, Parkview Building
16 Mars Road
LANE COVE WEST NSW 2066
AUSTRALIA
Phone: +61 428 845 495
Email: UrsulaLong@eurofins.com
Website:environment.eurofins.com.au
EnviroNote 1108 - Emissions from Stationary Sources
EnviroNote 1103 - NATA Accreditation for Dioxins

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eurofins | Environment Testing

ABN: 50 005 085 521 www.eurofins.com.au EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

New Zealand

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:	Ryan Lill
Project name:	ADDITIONAL KEMPS CREEK DSI
Project ID:	60482
Turnaround time:	3 Day
Date/Time received	Apr 21, 2021 6:05 PM
Eurofins reference	789051

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 Sample Receipt : 1.1 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

BH380 0.0-0.1 received as only a bag, additional analysis cancelled.

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 Ryan Lill - rlill@jbsg.com.au.

Global Leader - Results you can trust

eurofins | Environment Testing

ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

New Zealand

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: ADDITIONAL KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 789051
Phone: 02 8245 0300
Fax:

Received: Apr 21, 2021 6:05 PM
Due: Apr 26, 2021
Priority: 3 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Metals M8	Moisture Set	Eurofins Suite B1
Melbourne Laboratory - NATA Site # 1254 & 14271								
Sydney Laboratory - NATA Site # 18217						X	X	X
Brisbane Laboratory - NATA Site # 20794								
Perth Laboratory - NATA Site # 23736								
Mayfield Laboratory - NATA Site # 25079								
External Laboratory								
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**			
1	BH375 0-0.1	Apr 08, 2021		Soil	S21-Ap35657	X	X	
2	BH375 0.3-0.4	Apr 08, 2021		Soil	S21-Ap35658		X	X
Test Counts						1	2	1

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

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 and proficiency testing scheme providers reports.

Attention: **Ryan Lill**

Report **789051-S**
Project name ADDITIONAL KEMPS CREEK DSI
Project ID 60482
Received Date Apr 21, 2021

Client Sample ID			**BH375 0-0.1**	**BH375 0.3-0.4**
Sample Matrix			**Soil**	**Soil**
Eurofins Sample No.			**S21-Ap35657**	**S21-Ap35658**
Date Sampled			**Apr 08, 2021**	**Apr 08, 2021**
Test/Reference	LOR	Unit		
Heavy Metals				
Arsenic	2	mg/kg	13	-
Cadmium	0.4	mg/kg	< 0.4	-
Chromium	5	mg/kg	23	-
Copper	5	mg/kg	74	-
Lead	5	mg/kg	22	-
Mercury	0.1	mg/kg	< 0.1	-
Nickel	5	mg/kg	17	-
Zinc	5	mg/kg	110	-
% Moisture	1	%	18	16
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-C36 (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	%	-	83
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
TRH >C10-C40 (total)*	100	mg/kg	-	< 100

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
Metals M8	Sydney	Apr 23, 2021	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
% Moisture	Sydney	Apr 21, 2021	14 Days
- Method: LTM-GEN-7080 Moisture			
Eurofins Suite B1			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Apr 23, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Apr 23, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Apr 23, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Apr 23, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

New Zealand

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: ADDITIONAL KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 789051
Phone: 02 8245 0300
Fax:

Received: Apr 21, 2021 6:05 PM
Due: Apr 26, 2021
Priority: 3 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Metals M8	Moisture Set	Eurofins Suite B1
Melbourne Laboratory - NATA Site # 1254 & 14271								
Sydney Laboratory - NATA Site # 18217						X	X	X
Brisbane Laboratory - NATA Site # 20794								
Perth Laboratory - NATA Site # 23736								
Mayfield Laboratory - NATA Site # 25079								
External Laboratory								
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**			
1	BH375 0-0.1	Apr 08, 2021		Soil	S21-Ap35657	X	X	
2	BH375 0.3-0.4	Apr 08, 2021		Soil	S21-Ap35658		X	X
Test Counts						1	2	1

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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.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram | **mg/L:** milligrams per litre | **ug/L:** micrograms per litre

ppm: Parts per million | **ppb:** Parts per billion | **%:** Percentage

org/100mL: Organisms per 100 millilitres | **NTU:** Nephelometric Turbidity Units | **MPN/100mL:** Most Probable Number of organisms per 100 millilitres

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 and 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.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
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 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

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, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene 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 Aroclor 1260 in Matrix Spikes and LCS.
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 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							
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	
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 >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	87			80-120	Pass	
Cadmium	%	89			80-120	Pass	
Chromium	%	100			80-120	Pass	
Copper	%	99			80-120	Pass	
Lead	%	102			80-120	Pass	
Mercury	%	89			80-120	Pass	
Nickel	%	104			80-120	Pass	
Zinc	%	86			80-120	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	86			70-130	Pass	
TRH C10-C14	%	74			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	93			70-130	Pass	
Toluene	%	100			70-130	Pass	
Ethylbenzene	%	98			70-130	Pass	
m&p-Xylenes	%	100			70-130	Pass	
o-Xylene	%	102			70-130	Pass	

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Xylenes - Total*			%	101			70-130	Pass	
LCS - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions									
Naphthalene			%	101			70-130	Pass	
TRH C6-C10			%	86			70-130	Pass	
TRH >C10-C16			%	75			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	S21-Ap35720	NCP	%	100			75-125	Pass	
Cadmium	S21-Ap35720	NCP	%	92			75-125	Pass	
Chromium	S21-Ap35720	NCP	%	94			75-125	Pass	
Copper	S21-Ap35720	NCP	%	101			75-125	Pass	
Lead	S21-Ap35720	NCP	%	101			75-125	Pass	
Mercury	S21-Ap35720	NCP	%	96			75-125	Pass	
Nickel	S21-Ap35720	NCP	%	108			75-125	Pass	
Zinc	S21-Ap35720	NCP	%	100			75-125	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S21-Ap35719	NCP	%	78			70-130	Pass	
TRH C10-C14	S21-Ap38690	NCP	%	99			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S21-Ap35719	NCP	%	86			70-130	Pass	
Toluene	S21-Ap35719	NCP	%	88			70-130	Pass	
Ethylbenzene	S21-Ap35719	NCP	%	85			70-130	Pass	
m&p-Xylenes	S21-Ap35719	NCP	%	86			70-130	Pass	
o-Xylene	S21-Ap35719	NCP	%	87			70-130	Pass	
Xylenes - Total*	S21-Ap35719	NCP	%	86			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S21-Ap35719	NCP	%	95			70-130	Pass	
TRH C6-C10	S21-Ap35719	NCP	%	78			70-130	Pass	
TRH >C10-C16	S21-Ap38690	NCP	%	97			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	S21-Ap35716	NCP	mg/kg	6.6	6.1	8.0	30%	Pass	
Cadmium	S21-Ap35716	NCP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S21-Ap35716	NCP	mg/kg	19	17	12	30%	Pass	
Copper	S21-Ap35716	NCP	mg/kg	30	34	11	30%	Pass	
Lead	S21-Ap35716	NCP	mg/kg	19	18	7.0	30%	Pass	
Mercury	S21-Ap35716	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S21-Ap35716	NCP	mg/kg	17	18	8.0	30%	Pass	
Zinc	S21-Ap35716	NCP	mg/kg	51	58	13	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-Ap33719	NCP	%	7.8	8.8	13	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S21-Ap34263	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S21-Ap38686	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S21-Ap38686	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S21-Ap38686	NCP	mg/kg	< 50	< 50	<1	30%	Pass	

Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S21-Ap34263	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S21-Ap34263	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S21-Ap34263	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S21-Ap34263	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S21-Ap34263	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S21-Ap34263	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S21-Ap34263	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S21-Ap34263	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S21-Ap38686	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S21-Ap38686	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S21-Ap38686	NCP	mg/kg	< 100	< 100	<1	30%	Pass	

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

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.

Authorised by:

Asim Khan	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)
John Nguyen	Senior Analyst-Metal (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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Grace Tuckwell

From: #AU04_Enviro_Sample_NSW
Subject: FW: Eurofins Test Results - Report 786604 : Site KEMPS CREEK DSI (60482)

From: Ryan Lill <rlill@jbsg.com.au>
Sent: Wednesday, 21 April 2021 6:05 PM
To: Ursula Long <UrsulaLong@eurofins.com>
Cc: Christopher Dagger <cdagger@jbsg.com.au>
Subject: RE: Eurofins Test Results - Report 786604 : Site KEMPS CREEK DSI (60482)

EXTERNAL EMAIL*

Hi Ursula,

Could I have the following sample analysed for asbestos on 3 day TAT – TP458_0-0.9 / 21-Ap17225

Kind Regards,
Ryan

Ryan Lill | Project Manager | JBS&G
Sydney | Melbourne | Adelaide | Perth | Brisbane | Canberra | Darwin | Wollongong | Bunbury
Level 1, 50 Margaret Street Sydney NSW 2000
T: 02 8245 0300 | M: 0468 771 734 | E: rlill@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
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From: UrsulaLong@eurofins.com <UrsulaLong@eurofins.com>
Sent: Wednesday, 21 April 2021 2:02 PM
To: Ryan Lill <rlill@jbsg.com.au>
Cc: Christopher Dagger <cdagger@jbsg.com.au>
Subject: Eurofins Test Results - Report 786604 : Site KEMPS CREEK DSI (60482)

[EXTERNAL EMAIL] Stop and think before opening attachments, clicking or responding.

Please find attached final results for your project in the subject header.

Regards

Ursula Long

Eurofins
Unit F3, Parkview Building
16 Mars Road
LANE COVE WEST NSW 2066

AUSTRALIA
Phone: +61 428 845 495
Email: UrsulaLong@eurofins.com
Website:environment.eurofins.com.au
EnviroNote 1108 - Emissions from Stationary Sources
EnviroNote 1103 - NATA Accreditation for Dioxins

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ABN: 50 005 085 521 www.eurofins.com.au EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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:	Ryan Lill
Project name:	ADDITIONAL KEMPS CREEK DSI
Project ID:	60482
Turnaround time:	3 Day
Date/Time received	Apr 21, 2021 6:05 PM
Eurofins reference	789056

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 Sample Receipt : 1.5 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:

Ursula Long on phone : or by email: UrsulaLong@eurofins.com

Results will be delivered electronically via email to Ryan Lill - rlill@jbsg.com.au.

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Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
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Site # 1254 & 14271

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NATA # 1261 Site # 20794

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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	**Order No.:**	
Address:	Level 1, 50 Margaret St Sydney NSW 2000	**Report #:**	789056
		Phone:	02 8245 0300
		Fax:	
Project Name:	ADDITIONAL KEMPS CREEK DSI		
Project ID:	60482		

Received:	Apr 21, 2021 6:05 PM	
Due:	Apr 26, 2021	
Priority:	3 Day	
Contact Name:	Ryan Lill	

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines
Melbourne Laboratory - NATA Site # 1254 & 14271						
Sydney Laboratory - NATA Site # 18217						X
Brisbane Laboratory - NATA Site # 20794						
Perth Laboratory - NATA Site # 23736						
Mayfield Laboratory						
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	TP458_0-0.9	Apr 09, 2021		Soil	S21-Ap35665	X
Test Counts						1

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 and proficiency testing scheme providers reports.

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention:	Ryan Lill
Report	789056-AID
Project Name	ADDITIONAL KEMPS CREEK DSI
Project ID	60482
Received Date	Apr 21, 2021
Date Reported	Apr 26, 2021

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.*

Accredited for compliance with ISO/IEC 17025–Testing
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Project Name ADDITIONAL KEMPS CREEK DSI
Project ID 60482
Date Sampled Apr 09, 2021
Report 789056-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
TP458_0-0.9	21-Ap35665	Apr 09, 2021	Approximate Sample 403g Sample consisted of: Brown coarse-grained soil, bitumen, plaster 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	Apr 21, 2021	Indefinite

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NATA # 1261 Site # 25079

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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: ADDITIONAL KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 789056
Phone: 02 8245 0300
Fax:

Received: Apr 21, 2021 6:05 PM
Due: Apr 26, 2021
Priority: 3 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines
Melbourne Laboratory - NATA Site # 1254 & 14271						
Sydney Laboratory - NATA Site # 18217						X
Brisbane Laboratory - NATA Site # 20794						
Perth Laboratory - NATA Site # 23736						
Mayfield Laboratory - NATA Site # 25079						
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	TP458_0-0.9	Apr 09, 2021		Soil	S21-Ap35665	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 blue colour, 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 '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 Advice.

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: weight for weight basis	grams per kilogram
Filter loading:	fibres/100 graticule areas
Reported Concentration:	fibres/mL
Flowrate:	L/min

Terms

Dry	Sample is dried by heating prior to analysis
LOR	Limit of Reporting
COC	Chain of Custody
SRA	Sample Receipt Advice
ISO	International Standards Organisation
AS	Australian Standards
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 (2009), including supporting document Recommended Procedures for Laboratory Analysis of Asbestos in Soil (2011)
NEPM	National Environment Protection (Assessment of Site Contamination) Measure, 2013 (as amended)
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded and/or sound condition. For the purposes of the NEPM, ACM is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
AF	Asbestos Fines. Asbestos containing materials, including friable, weathered and bonded materials, able to pass a 7mm x 7mm sieve. Considered under the NEPM as equivalent to “non-bonded / friable”.
FA	Fibrous Asbestos. Asbestos containing materials in a friable and/or severely weathered condition. For the purposes of the NEPM, FA is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
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.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres in the matrix.

Comments

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	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N/A	Not applicable

Asbestos Counter/Identifier:

Laxman Dias	Senior Analyst-Asbestos (NSW)

Authorised by:

Chamath JHM Annakkage	Senior Analyst-Asbestos (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.

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.

Grace Tuckwell

From: #AU04_Enviro_Sample_NSW
Subject: FW: Eurofins Draft Test Results - Report 786622 : Site KEMPS CREEK DSI (60482)

From: Ryan Lill <rlill@jbsg.com.au>
Sent: Wednesday, 21 April 2021 6:03 PM
To: Ursula Long <UrsulaLong@eurofins.com>
Subject: RE: Eurofins Draft Test Results - Report 786622 : Site KEMPS CREEK DSI (60482)

EXTERNAL EMAIL*

Hi Ursula,

Could I have the following sample analysed for asbestos (WA – guidelines) on three day TAT:

- BH431 0-0.2 - 21-Ap17767 and
- BH207-0-0.1 - 21-Ap17650

The following for Heavy Metals on 3 day TAT:

- BH207-0-0.1 - 21-Ap17650
- TP214-0.4-0.5 - 21-Ap17216
- BH217-0-0.1 - 21-Ap17658
- TP222 0.4-0.5 - 21-Ap17201
- BH208-0-0.1 - 21-Ap17652

Kind Regards,

Ryan

Ryan Lill | Project Manager | JBS&G
Sydney | Melbourne | Adelaide | Perth | Brisbane | Canberra | Darwin | Wollongong | Bunbury
Level 1, 50 Margaret Street Sydney NSW 2000
T: 02 8245 0300 | M: 0468 771 734 | E: rlill@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
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From: UrsulaLong@eurofins.com <UrsulaLong@eurofins.com>
Sent: Tuesday, 20 April 2021 8:13 PM
To: Ryan Lill <rlill@jbsg.com.au>
Subject: Eurofins Draft Test Results - Report 786622 : Site KEMPS CREEK DSI (60482)

[EXTERNAL EMAIL] Stop and think before opening attachments, clicking or responding.

Please find attached draft results for your project in the subject header.
ETA for remaining results is tomorrow evening.

Regards

Ursula Long

Eurofins
Unit F3, Parkview Building
16 Mars Road
LANE COVE WEST NSW 2066
AUSTRALIA
Phone: +61 428 845 495
Email: UrsulaLong@eurofins.com
Website:environment.eurofins.com.au
EnviroNote 1108 - Emissions from Stationary Sources
EnviroNote 1103 - NATA Accreditation for Dioxins

Click here to report this email as spam.

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Dandenong South VIC 3175
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Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Ryan Lill
Project name:	ADDITIONAL KEMPS CREEK DSI
Project ID:	60482
Turnaround time:	3 Day
Date/Time received	Apr 21, 2021 6:04 PM
Eurofins reference	789058

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 Sample Receipt : 4.2 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.
X	Split sample sent to requested external lab.
X	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

No bag received for BH431 0-0.2, please see SRA for 786622, asbestos analysis cancelled. Insufficient sample remaining for TP222 0.4-0.5, analysis cancelled.

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 Ryan Lill - rlill@jbsg.com.au.

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: ADDITIONAL KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 789058
Phone: 02 8245 0300
Fax:

Received: Apr 21, 2021 6:04 PM
Due: Apr 26, 2021
Priority: 3 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	CANCELLED	Metals M8	Moisture Set
Melbourne Laboratory - NATA Site # 1254 & 14271									
Sydney Laboratory - NATA Site # 18217						X	X	X	X
Brisbane Laboratory - NATA Site # 20794									
Perth Laboratory - NATA Site # 23736									
Mayfield Laboratory - NATA Site # 25079									
External Laboratory									
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**				
1	TP222 0.4-0.5	Apr 07, 2021		Soil	S21-Ap35674		X		
2	TP214-0.4-0.5	Apr 09, 2021		Soil	S21-Ap35675			X	X
3	BH207-0-0.1	Apr 12, 2021		Soil	S21-Ap35676	X		X	X
4	BH208-0-0.1	Apr 12, 2021		Soil	S21-Ap35677			X	X
5	BH217-0-0.1	Apr 12, 2021		Soil	S21-Ap35678			X	X
6	BH431 0-0.2	Apr 12, 2021		Soil	S21-Ap35679		X		
Test Counts						1	2	4	4

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NSW 2000

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Accreditation Number 1261
Site Number 18217

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Attention:	Ryan Lill
Report	789058-AID
Project Name	ADDITIONAL KEMPS CREEK DSI
Project ID	60482
Received Date	Apr 21, 2021
Date Reported	Apr 26, 2021

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.*

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Project Name ADDITIONAL KEMPS CREEK DSI
Project ID 60482
Date Sampled Apr 12, 2021
Report 789058-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
BH207-0-0.1	21-Ap35676	Apr 12, 2021	Approximate Sample 347g 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	Apr 21, 2021	Indefinite

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IANZ # 1290

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
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NSW 2000

Project Name: ADDITIONAL KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 789058
Phone: 02 8245 0300
Fax:

Received: Apr 21, 2021 6:04 PM
Due: Apr 26, 2021
Priority: 3 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	CANCELLED	Metals M8	Moisture Set
Melbourne Laboratory - NATA Site # 1254 & 14271									
Sydney Laboratory - NATA Site # 18217						X	X	X	X
Brisbane Laboratory - NATA Site # 20794									
Perth Laboratory - NATA Site # 23736									
Mayfield Laboratory - NATA Site # 25079									
External Laboratory									
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**				
1	TP222 0.4-0.5	Apr 07, 2021		Soil	S21-Ap35674		X		
2	TP214-0.4-0.5	Apr 09, 2021		Soil	S21-Ap35675			X	X
3	BH207-0-0.1	Apr 12, 2021		Soil	S21-Ap35676	X		X	X
4	BH208-0-0.1	Apr 12, 2021		Soil	S21-Ap35677			X	X
5	BH217-0-0.1	Apr 12, 2021		Soil	S21-Ap35678			X	X
6	BH431 0-0.2	Apr 12, 2021		Soil	S21-Ap35679		X		
Test Counts						1	2	4	4

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 blue colour, 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 '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 Advice.

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: weight for weight basis	grams per kilogram
Filter loading:	fibres/100 graticule areas
Reported Concentration:	fibres/mL
Flowrate:	L/min

Terms

Dry	Sample is dried by heating prior to analysis
LOR	Limit of Reporting
COC	Chain of Custody
SRA	Sample Receipt Advice
ISO	International Standards Organisation
AS	Australian Standards
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 (2009), including supporting document Recommended Procedures for Laboratory Analysis of Asbestos in Soil (2011)
NEPM	National Environment Protection (Assessment of Site Contamination) Measure, 2013 (as amended)
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded and/or sound condition. For the purposes of the NEPM, ACM is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
AF	Asbestos Fines. Asbestos containing materials, including friable, weathered and bonded materials, able to pass a 7mm x 7mm sieve. Considered under the NEPM as equivalent to “non-bonded / friable”.
FA	Fibrous Asbestos. Asbestos containing materials in a friable and/or severely weathered condition. For the purposes of the NEPM, FA is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
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.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres in the matrix.

Comments

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	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
N/A	Not applicable

Asbestos Counter/Identifier:

Laxman Dias	Senior Analyst-Asbestos (NSW)

Authorised by:

Chamath JHM Annakkage	Senior Analyst-Asbestos (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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JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

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 and proficiency testing scheme providers reports.

Attention: **Ryan Lill**

Report **789058-S**
Project name ADDITIONAL KEMPS CREEK DSI
Project ID 60482
Received Date Apr 21, 2021

Client Sample ID			**TP214-0.4-0.5**	**BH207-0-0.1**	**BH208-0-0.1**	**BH217-0-0.1**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**S21-Ap35675**	**S21-Ap35676**	**S21-Ap35677**	**S21-Ap35678**
Date Sampled			**Apr 09, 2021**	**Apr 12, 2021**	**Apr 12, 2021**	**Apr 12, 2021**
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	5.8	11	10.0	11
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	16	26	26	29
Copper	5	mg/kg	23	42	38	39
Lead	5	mg/kg	12	26	23	25
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	5.6	13	14	15
Zinc	5	mg/kg	27	68	56	59
% Moisture	1	%	21	16	16	16

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
Metals M8	Sydney	Apr 23, 2021	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
% Moisture	Sydney	Apr 21, 2021	14 Days
- Method: LTM-GEN-7080 Moisture			

eurofins | Environment Testing

ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

New Zealand

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: ADDITIONAL KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 789058
Phone: 02 8245 0300
Fax:

Received: Apr 21, 2021 6:04 PM
Due: Apr 26, 2021
Priority: 3 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	CANCELLED	Metals M8	Moisture Set
Melbourne Laboratory - NATA Site # 1254 & 14271									
Sydney Laboratory - NATA Site # 18217						X	X	X	X
Brisbane Laboratory - NATA Site # 20794									
Perth Laboratory - NATA Site # 23736									
Mayfield Laboratory - NATA Site # 25079									
External Laboratory									
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**				
1	TP222 0.4-0.5	Apr 07, 2021		Soil	S21-Ap35674		X		
2	TP214-0.4-0.5	Apr 09, 2021		Soil	S21-Ap35675			X	X
3	BH207-0-0.1	Apr 12, 2021		Soil	S21-Ap35676	X		X	X
4	BH208-0-0.1	Apr 12, 2021		Soil	S21-Ap35677			X	X
5	BH217-0-0.1	Apr 12, 2021		Soil	S21-Ap35678			X	X
6	BH431 0-0.2	Apr 12, 2021		Soil	S21-Ap35679		X		
Test Counts						1	2	4	4

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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.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram | **mg/L:** milligrams per litre | **ug/L:** micrograms per litre

ppm: Parts per million | **ppb:** Parts per billion | **%:** Percentage

org/100mL: Organisms per 100 millilitres | **NTU:** Nephelometric Turbidity Units | **MPN/100mL:** Most Probable Number of organisms per 100 millilitres

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 and 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.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
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 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

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, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene 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 Aroclor 1260 in Matrix Spikes and LCS.
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 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							
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							
Heavy Metals							
Arsenic	%	89			80-120	Pass	
Cadmium	%	94			80-120	Pass	
Chromium	%	102			80-120	Pass	
Copper	%	105			80-120	Pass	
Lead	%	104			80-120	Pass	
Mercury	%	109			80-120	Pass	
Nickel	%	106			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									
Heavy Metals				Result 1					
Chromium	S21-Ap27208	NCP	%	98			75-125	Pass	
Copper	S21-Ap27208	NCP	%	102			75-125	Pass	
Lead	S21-Ap27208	NCP	%	102			75-125	Pass	
Mercury	S21-Ap27208	NCP	%	111			75-125	Pass	
Nickel	S21-Ap27208	NCP	%	105			75-125	Pass	
Zinc	S21-Ap27208	NCP	%	104			75-125	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S21-Ap35676	CP	%	124			75-125	Pass	
Cadmium	S21-Ap35676	CP	%	125			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	S21-Ap35675	CP	mg/kg	5.8	4.5	25	30%	Pass	
Cadmium	S21-Ap35675	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S21-Ap35675	CP	mg/kg	16	13	22	30%	Pass	
Copper	S21-Ap35675	CP	mg/kg	23	18	27	30%	Pass	
Lead	S21-Ap35675	CP	mg/kg	12	10	18	30%	Pass	
Mercury	S21-Ap35675	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S21-Ap35675	CP	mg/kg	5.6	< 5	27	30%	Pass	
Zinc	S21-Ap35675	CP	mg/kg	27	20	28	30%	Pass	Q15
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-Ap35854	NCP	%	15	13	13	30%	Pass	

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

Qualifier Codes/Comments

Code	Description
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
John Nguyen	Senior Analyst-Metal (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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From: Ryan Lill <rlill@jbsg.com.au>
Sent: Monday, 26 April 2021 8:34 PM
To: Ursula Long <UrsulaLong@eurofins.com>
Cc: Christopher Dagger <cdagger@jbsg.com.au>
Subject: 24 hr TAT RE: Eurofins Test Results - Report 787245 : Site KEMPS CREEK DSI (60482)

EXTERNAL EMAIL*

Hi Ursula,

Could I please have the following samples run on 24 hr TAT.

PAH and TRH
TP398_0.3-0.4 - S21-Ap21967

Thanks,

Ryan

Ryan Lill | Project Manager | JBS&G
Sydney | Melbourne | Adelaide | Perth | Brisbane | Canberra | Darwin | Wollongong | Bunbury
Level 1, 50 Margaret Street Sydney NSW 2000
T: 02 8245 0300 | M: 0468 771 734 | E: rlill@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
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ABN: 50 005 085 521 www.eurofins.com.au EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

New Zealand

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:	Ryan Lill
Project name:	ADDITIONAL: KEMPS CREEK DSI
Project ID:	60482
Turnaround time:	1 Day
Date/Time received	Apr 26, 2021 8:34 PM
Eurofins reference	790219

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 Sample Receipt : 12.7 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.
✓	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

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:

Ursula Long on phone : or by email: UrsulaLong@eurofins.com

Results will be delivered electronically via email to Ryan Lill - rlill@jbsg.com.au.

Global Leader - Results you can trust

eurofins | Environment Testing

ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
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Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
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46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
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4/52 Industrial Drive
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New Zealand

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: ADDITIONAL: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 790219
Phone: 02 8245 0300
Fax:

Received: Apr 26, 2021 8:34 PM
Due: Apr 27, 2021
Priority: 1 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Polycyclic Aromatic Hydrocarbons	Moisture Set	Total Recoverable Hydrocarbons
Melbourne Laboratory - NATA Site # 1254 & 14271								
Sydney Laboratory - NATA Site # 18217						X	X	X
Brisbane Laboratory - NATA Site # 20794								
Perth Laboratory - NATA Site # 23736								
Mayfield Laboratory - NATA Site # 25079								
External Laboratory								
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**			
1	TP398_0.3-0.4	Apr 13, 2021		Soil	S21-Ap45126	X	X	X
Test Counts						1	1	1

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

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 and proficiency testing scheme providers reports.

Attention: **Ryan Lill**

Report **790219-S**
Project name ADDITIONAL: KEMPS CREEK DSI
Project ID 60482
Received Date Apr 26, 2021

Client Sample ID			**TP398_0.3-0.4**
Sample Matrix			**Soil**
Eurofins Sample No.			**S21-Ap45126**
Date Sampled			**Apr 13, 2021**
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	< 50
TRH C29-C36	50	mg/kg	< 50
TRH C10-C36 (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
TRH >C10-C40 (total)*	100	mg/kg	< 100
Polycyclic Aromatic Hydrocarbons			
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
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

Client Sample ID			TP398_0.3-0.4
Sample Matrix			Soil
Eurofins Sample No.			S21-Ap45126
Date Sampled			Apr 13, 2021
Test/Reference	LOR	Unit	
Polycyclic Aromatic Hydrocarbons			
2-Fluorobiphenyl (surr.)	1	%	98
p-Terphenyl-d14 (surr.)	1	%	82
% Moisture	1	%	22

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	Apr 26, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Apr 26, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Apr 26, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons	Sydney	Apr 26, 2021	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
% Moisture	Sydney	Apr 26, 2021	14 Days
- Method: LTM-GEN-7080 Moisture			

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

New Zealand

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: ADDITIONAL: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 790219
Phone: 02 8245 0300
Fax:

Received: Apr 26, 2021 8:34 PM
Due: Apr 27, 2021
Priority: 1 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Polycyclic Aromatic Hydrocarbons	Moisture Set	Total Recoverable Hydrocarbons
Melbourne Laboratory - NATA Site # 1254 & 14271								
Sydney Laboratory - NATA Site # 18217						X	X	X
Brisbane Laboratory - NATA Site # 20794								
Perth Laboratory - NATA Site # 23736								
Mayfield Laboratory - NATA Site # 25079								
External Laboratory								
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**			
1	TP398_0.3-0.4	Apr 13, 2021		Soil	S21-Ap45126	X	X	X
Test Counts						1	1	1

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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.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram | **mg/L:** milligrams per litre | **ug/L:** micrograms per litre

ppm: Parts per million | **ppb:** Parts per billion | **%:** Percentage

org/100mL: Organisms per 100 millilitres | **NTU:** Nephelometric Turbidity Units | **MPN/100mL:** Most Probable Number of organisms per 100 millilitres

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 and 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.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
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 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

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, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene 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 Aroclor 1260 in Matrix Spikes and LCS.
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 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 - 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 >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	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	98			70-130	Pass	
TRH C10-C14	%	123			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	126			70-130	Pass	
TRH C6-C10	%	96			70-130	Pass	
TRH >C10-C16	%	120			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	92			70-130	Pass	
Acenaphthylene	%	83			70-130	Pass	
Anthracene	%	86			70-130	Pass	
Benz(a)anthracene	%	92			70-130	Pass	
Benzo(a)pyrene	%	95			70-130	Pass	
Benzo(b&j)fluoranthene	%	127			70-130	Pass	
Benzo(g.h.i)perylene	%	104			70-130	Pass	
Benzo(k)fluoranthene	%	97			70-130	Pass	
Chrysene	%	87			70-130	Pass	
Dibenz(a.h)anthracene	%	99			70-130	Pass	

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Fluoranthene			%	88			70-130	Pass	
Fluorene			%	85			70-130	Pass	
Indeno(1.2.3-cd)pyrene			%	100			70-130	Pass	
Naphthalene			%	88			70-130	Pass	
Phenanthrene			%	95			70-130	Pass	
Pyrene			%	94			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	S21-Ap36194	NCP	%	93			70-130	Pass	
TRH C10-C14	S21-Ap44750	NCP	%	128			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S21-Ap36194	NCP	%	106			70-130	Pass	
TRH C6-C10	S21-Ap36194	NCP	%	92			70-130	Pass	
TRH >C10-C16	S21-Ap44750	NCP	%	128			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S21-Ap38475	NCP	%	90			70-130	Pass	
Acenaphthylene	S21-Ap38475	NCP	%	86			70-130	Pass	
Anthracene	S21-Ap38475	NCP	%	87			70-130	Pass	
Benz(a)anthracene	S21-Ap38475	NCP	%	87			70-130	Pass	
Benzo(a)pyrene	S21-Ap38475	NCP	%	90			70-130	Pass	
Benzo(b&j)fluoranthene	S21-Ap38475	NCP	%	90			70-130	Pass	
Benzo(g.h.i)perylene	S21-Ap27188	NCP	%	79			70-130	Pass	
Benzo(k)fluoranthene	S21-Ap38475	NCP	%	111			70-130	Pass	
Chrysene	S21-Ap38475	NCP	%	89			70-130	Pass	
Dibenz(a.h)anthracene	S21-Ap38475	NCP	%	88			70-130	Pass	
Fluoranthene	S21-Ap38475	NCP	%	85			70-130	Pass	
Fluorene	S21-Ap38475	NCP	%	87			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S21-Ap38475	NCP	%	88			70-130	Pass	
Naphthalene	S21-Ap38475	NCP	%	89			70-130	Pass	
Phenanthrene	S21-Ap38475	NCP	%	91			70-130	Pass	
Pyrene	S21-Ap38475	NCP	%	89			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	S21-Ap36193	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S21-Ap38894	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH C15-C28	S21-Ap38894	NCP	mg/kg	410	220	61	30%	Fail	Q15
TRH C29-C36	S21-Ap38894	NCP	mg/kg	< 250	< 250	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S21-Ap36193	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S21-Ap36193	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S21-Ap38894	NCP	mg/kg	< 250	< 250	<1	30%	Pass	
TRH >C16-C34	S21-Ap38894	NCP	mg/kg	< 500	< 500	<1	30%	Pass	
TRH >C34-C40	S21-Ap38894	NCP	mg/kg	< 500	< 500	<1	30%	Pass	

Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S21-Ap31887	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S21-Ap31887	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S21-Ap31887	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S21-Ap31887	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S21-Ap31887	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S21-Ap31887	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S21-Ap31887	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S21-Ap31887	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S21-Ap31887	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S21-Ap31887	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S21-Ap31887	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S21-Ap31887	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S21-Ap31887	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S21-Ap31887	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S21-Ap31887	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S21-Ap31887	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-Ap42220	NCP	%	10	7.5	28	30%	Pass	

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

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 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)

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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From: Ryan Lill <rlill@jbsg.com.au>
Sent: Monday, 26 April 2021 8:39 PM
To: Ursula Long <UrsulaLong@eurofins.com>
Cc: Christopher Dagger <cdagger@jbsg.com.au>
Subject: RE: Eurofins Test Results - Report 788078 : Site KEMPS CREEK DSI (60482)

EXTERNAL EMAIL*

Hi Ursula,
Could I please have the following run on 24 hr TAT.

TRH
BH308 0.4-0.5 - S21-Ap27788
BH432 0.5-0.6 - S21-Ap27731

Thanks,

Ryan

Ryan Lill | Project Manager | JBS&G
Sydney | Melbourne | Adelaide | Perth | Brisbane | Canberra | Darwin | Wollongong | Bunbury
Level 1, 50 Margaret Street Sydney NSW 2000
T: 02 8245 0300 | M: 0468 771 734 | E: rlill@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
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ABN: 50 005 085 521 www.eurofins.com.au EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

New Zealand

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:	Ryan Lill
Project name:	ADDITIONAL: KEMPS CREEK DSI
Project ID:	60482
Turnaround time:	1 Day
Date/Time received	Apr 26, 2021 8:39 PM
Eurofins reference	790225

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 Sample Receipt : 13.6 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.
✓	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

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:

Ursula Long on phone : or by email: UrsulaLong@eurofins.com

Results will be delivered electronically via email to Ryan Lill - rlill@jbsg.com.au.

Global Leader - Results you can trust

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
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Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

New Zealand

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: ADDITIONAL: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 790225
Phone: 02 8245 0300
Fax:

Received: Apr 26, 2021 8:39 PM
Due: Apr 27, 2021
Priority: 1 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Moisture Set	Total Recoverable Hydrocarbons
Melbourne Laboratory - NATA Site # 1254 & 14271							
Sydney Laboratory - NATA Site # 18217						X	X
Brisbane Laboratory - NATA Site # 20794							
Perth Laboratory - NATA Site # 23736							
Mayfield Laboratory - NATA Site # 25079							
External Laboratory							
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**		
1	BH308 0.4-0.5	Apr 15, 2021		Soil	S21-Ap45222	X	X
2	BH432 0.5-0.6	Apr 15, 2021		Soil	S21-Ap45223	X	X
Test Counts						2	2

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
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Attention: **Ryan Lill**

Report **790225-S**
Project name ADDITIONAL: KEMPS CREEK DSI
Project ID 60482
Received Date Apr 26, 2021

Client Sample ID			**BH308 0.4-0.5**	**BH432 0.5-0.6**
Sample Matrix			**Soil**	**Soil**
Eurofins Sample No.			**S21-Ap45222**	**S21-Ap45223**
Date Sampled			**Apr 15, 2021**	**Apr 15, 2021**
Test/Reference	LOR	Unit		
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-C36 (Total)	50	mg/kg	< 50	< 50
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
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100
% Moisture	1	%	16	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	Apr 26, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Apr 26, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Apr 26, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
% Moisture	Sydney	Apr 26, 2021	14 Days
- Method: LTM-GEN-7080 Moisture			

eurofins | Environment Testing

ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

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1/21 Smallwood Place
Murarrie QLD 4172
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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
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Project Name: ADDITIONAL: KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 790225
Phone: 02 8245 0300
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Received: Apr 26, 2021 8:39 PM
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Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Moisture Set	Total Recoverable Hydrocarbons
Melbourne Laboratory - NATA Site # 1254 & 14271							
Sydney Laboratory - NATA Site # 18217						X	X
Brisbane Laboratory - NATA Site # 20794							
Perth Laboratory - NATA Site # 23736							
Mayfield Laboratory - NATA Site # 25079							
External Laboratory							
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**		
1	BH308 0.4-0.5	Apr 15, 2021		Soil	S21-Ap45222	X	X
2	BH432 0.5-0.6	Apr 15, 2021		Soil	S21-Ap45223	X	X
Test Counts						2	2

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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.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
ug/L: micrograms per litre
ppm: Parts per million
ppb: Parts per billion
%: Percentage
org/100mL: Organisms per 100 millilitres
NTU: Nephelometric Turbidity Units
MPN/100mL: Most Probable Number of organisms per 100 millilitres

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 and 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.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
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 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

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, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene 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 Aroclor 1260 in Matrix Spikes and LCS.
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 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 - 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 >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	84			70-130	Pass	
TRH C10-C14	%	123			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	119			70-130	Pass	
TRH C6-C10	%	83			70-130	Pass	
TRH >C10-C16	%	120			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	S21-Ap44750	NCP	%	83			70-130	Pass	
TRH C10-C14	S21-Ap44750	NCP	%	128			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S21-Ap44750	NCP	%	111			70-130	Pass	
TRH C6-C10	S21-Ap44750	NCP	%	87			70-130	Pass	
TRH >C10-C16	S21-Ap44750	NCP	%	128			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1	Result 2	RPD	Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S21-Ap34961	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S21-Ap38894	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH C15-C28	S21-Ap38894	NCP	mg/kg	380	200	61	30%	Fail	Q15
TRH C29-C36	S21-Ap38894	NCP	mg/kg	< 250	< 250	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S21-Ap34961	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S21-Ap34961	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S21-Ap38894	NCP	mg/kg	< 250	< 250	<1	30%	Pass	
TRH >C16-C34	S21-Ap38894	NCP	mg/kg	< 500	< 500	<1	30%	Pass	
TRH >C34-C40	S21-Ap38894	NCP	mg/kg	< 500	< 500	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-Ap42220	NCP	%	10	7.5	28	30%	Pass	

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

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.
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:

John Nguyen	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (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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From: Ryan Lill <rlill@jbsg.com.au>
Sent: Tuesday, 27 April 2021 11:02 AM
To: Ursula Long <UrsulaLong@eurofins.com>
Cc: Christopher Dagger <cdagger@jbsg.com.au>
Subject: RE: Eurofins Test Results - Report 786604 : Site KEMPS CREEK DSI (60482)

EXTERNAL EMAIL*

Hi Ursula,

Could I please have sample S21-Ap17243 run on 24 hr TAT for asbestos.

Kind Regards,
Ryan

Ryan Lill | Project Manager | JBS&G
Sydney | Melbourne | Adelaide | Perth | Brisbane | Canberra | Darwin | Wollongong | Bunbury
Level 1, 50 Margaret Street Sydney NSW 2000
T: 02 8245 0300 | M: 0468 771 734 | E: rlill@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
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ABN: 50 005 085 521 www.eurofins.com.au EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
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Phone : 0800 856 450
IANZ # 1290

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Ryan Lill
Project name:	ADDITIONAL - KEMPS CREEK DSI
Project ID:	60482
Turnaround time:	1 Day
Date/Time received	Apr 27, 2021 11:02 AM
Eurofins reference	790320

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 Sample Receipt : 1.5 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.
✓	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 Ryan Lill - rlill@jbsg.com.au.

Global Leader - Results you can trust

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

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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: ADDITIONAL - KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 790320
Phone: 02 8245 0300
Fax:

Received: Apr 27, 2021 11:02 AM
Due: Apr 28, 2021
Priority: 1 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines
Melbourne Laboratory - NATA Site # 1254 & 14271						
Sydney Laboratory - NATA Site # 18217						X
Brisbane Laboratory - NATA Site # 20794						
Perth Laboratory - NATA Site # 23736						
Mayfield Laboratory - NATA Site # 25079						
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	TP463 1.8-2.8	Apr 09, 2021		Soil	S21-Ap46266	X
Test Counts						1

Certificate of Analysis

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025–Testing
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JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention:	Ryan Lill
Report	790320-AID
Project Name	ADDITIONAL - KEMPS CREEK DSI
Project ID	60482
Received Date	Apr 27, 2021
Date Reported	Apr 28, 2021

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.*

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Project Name ADDITIONAL - KEMPS CREEK DSI
Project ID 60482
Date Sampled Apr 09, 2021
Report 790320-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
TP463 1.8-2.8	21-Ap46266	Apr 09, 2021	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.

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	Apr 27, 2021	Indefinite

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
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Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
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PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
NATA # 1261 Site # 25079

New Zealand

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	**Order No.:**	
Address:	Level 1, 50 Margaret St Sydney NSW 2000	**Report #:**	790320
		Phone:	02 8245 0300
		Fax:	
Project Name:	ADDITIONAL - KEMPS CREEK DSI		
Project ID:	60482		

Received:	Apr 27, 2021 11:02 AM	
Due:	Apr 28, 2021	
Priority:	1 Day	
Contact Name:	Ryan Lill	

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines
Melbourne Laboratory - NATA Site # 1254 & 14271						
Sydney Laboratory - NATA Site # 18217						X
Brisbane Laboratory - NATA Site # 20794						
Perth Laboratory - NATA Site # 23736						
Mayfield Laboratory - NATA Site # 25079						
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	TP463 1.8-2.8	Apr 09, 2021		Soil	S21-Ap46266	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 blue colour, 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 '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 Advice.

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: weight for weight basis	grams per kilogram
Filter loading:	fibres/100 graticule areas
Reported Concentration:	fibres/mL
Flowrate:	L/min

Terms

Dry	Sample is dried by heating prior to analysis
LOR	Limit of Reporting
COC	Chain of Custody
SRA	Sample Receipt Advice
ISO	International Standards Organisation
AS	Australian Standards
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 (2009), including supporting document Recommended Procedures for Laboratory Analysis of Asbestos in Soil (2011)
NEPM	National Environment Protection (Assessment of Site Contamination) Measure, 2013 (as amended)
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded and/or sound condition. For the purposes of the NEPM, ACM is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
AF	Asbestos Fines. Asbestos containing materials, including friable, weathered and bonded materials, able to pass a 7mm x 7mm sieve. Considered under the NEPM as equivalent to “non-bonded / friable”.
FA	Fibrous Asbestos. Asbestos containing materials in a friable and/or severely weathered condition. For the purposes of the NEPM, FA is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
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.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres in the matrix.

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

Qualifier Codes/Comments

Code	Description
N/A	Not applicable

Asbestos Counter/Identifier:

Chamath JHM Annakkage	Senior Analyst-Asbestos (NSW)

Authorised by:

Sayeed Abu	Senior Analyst-Asbestos (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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Grace Tuckwell

From: #AU04_Enviro_Sample_NSW
Subject: FW: Eurofins Test Results - Report 787245 : Site KEMPS CREEK DSI (60482)

From: Ryan Lill <rlill@jbsg.com.au>
Sent: Wednesday, 28 April 2021 5:17 PM
To: Ursula Long <UrsulaLong@eurofins.com>
Subject: RE: Eurofins Test Results - Report 787245 : Site KEMPS CREEK DSI (60482)

EXTERNAL EMAIL*

Hi Ursula,

Could I please get the following sample run for TCLP and ASLP Benzo(a)pyrene on 24 hr TAT

TP398_0.0-0.2 - S21-Ap21904

And PAHs on 24 hr TAT on

TP398_0.3-0.4 - S21-Ap21967

Regards,

Ryan

Ryan Lill | Project Manager | JBS&G
Sydney | Melbourne | Adelaide | Perth | Brisbane | Canberra | Darwin | Wollongong | Bunbury
Level 1, 50 Margaret Street Sydney NSW 2000
T: 02 8245 0300 | M: 0468 771 734 | E: rlill@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
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From: UrsulaLong@eurofins.com <UrsulaLong@eurofins.com>
Sent: Monday, 26 April 2021 7:37 PM
To: Ryan Lill <rlill@jbsg.com.au>
Cc: Christopher Dagger <cdagger@jbsg.com.au>
Subject: Eurofins Test Results - Report 787245 : Site KEMPS CREEK DSI (60482)

[EXTERNAL EMAIL] Stop and think before opening attachments, clicking or responding.

Please find attached final results for your project in the subject header.

Regards

Ursula Long

Eurofins
Unit F3, Parkview Building
16 Mars Road
LANE COVE WEST NSW 2066
AUSTRALIA
Phone: +61 428 845 495
Email: UrsulaLong@eurofins.com
Website:environment.eurofins.com.au
EnviroNote 1108 - Emissions from Stationary Sources
EnviroNote 1103 - NATA Accreditation for Dioxins

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Christchurch
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Phone : 0800 856 450
IANZ # 1290

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Ryan Lill
Project name:	ADDITIONAL KEMPS CREEK DSI
Project ID:	60482
Turnaround time:	1 Day
Date/Time received	Apr 28, 2021 5:17 PM
Eurofins reference	790803

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 Sample Receipt : 12.7 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.
✓	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 Ryan Lill - rlill@jbsg.com.au.

Global Leader - Results you can trust

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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: ADDITIONAL KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 790803
Phone: 02 8245 0300
Fax:

Received: Apr 28, 2021 5:17 PM
Due: Apr 29, 2021
Priority: 1 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Benzo(a)pyrene	AUS Leaching Procedure	USA Leaching Procedure
Melbourne Laboratory - NATA Site # 1254 & 14271								
Sydney Laboratory - NATA Site # 18217						X	X	X
Brisbane Laboratory - NATA Site # 20794								
Perth Laboratory - NATA Site # 23736								
Mayfield Laboratory - NATA Site # 25079								
External Laboratory								
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**			
1	TP398_0.0-0.2	Apr 13, 2021		US Leachate	S21-Ap50287	X		X
2	TP398_0.0-0.2	Apr 13, 2021		AUS Leachate - Reagent Water	S21-Ap50288	X	X	
Test Counts						2	1	1

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

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 and proficiency testing scheme providers reports.

Attention: **Ryan Lill**

Report **790803-L**
Project name ADDITIONAL KEMPS CREEK DSI
Project ID 60482
Received Date Apr 28, 2021

Client Sample ID			**TP398_0.0-0.2**	**TP398_0.0-0.2**
Sample Matrix			**US Leachate**	**AUS Leachate - Reagent Water**
Eurofins Sample No.			**S21-Ap50287**	**S21-Ap50288**
Date Sampled			**Apr 13, 2021**	**Apr 13, 2021**
Test/Reference	LOR	Unit		
Polycyclic Aromatic Hydrocarbons				
Benzo(a)pyrene	0.001	mg/L	< 0.002	< 0.002
USA Leaching Procedure				
Leachate Fluid[C01]		comment	1.0	-
pH (initial)	0.1	pH Units	5.9	-
pH (off)	0.1	pH Units	5.2	-
pH (USA HCl addition)	0.1	pH Units	1.8	-
AUS Leaching Procedure				
Leachate Fluid[C01]		comment	-	4.0
pH (initial)	0.1	pH Units	-	6.8
pH (Leachate fluid)	0.1	pH Units	-	4.9
pH (off)	0.1	pH Units	-	8.1

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
Polycyclic Aromatic Hydrocarbons	Sydney	Apr 28, 2021	7 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
USA Leaching Procedure	Sydney	Apr 28, 2021	14 Days
- Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes			
AUS Leaching Procedure	Sydney	Apr 28, 2021	7 Days
- Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes			

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: ADDITIONAL KEMPS CREEK DSI
Project ID: 60482

Order No.:
Report #: 790803
Phone: 02 8245 0300
Fax:

Received: Apr 28, 2021 5:17 PM
Due: Apr 29, 2021
Priority: 1 Day
Contact Name: Ryan Lill

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Benzo(a)pyrene	AUS Leaching Procedure	USA Leaching Procedure
Melbourne Laboratory - NATA Site # 1254 & 14271								
Sydney Laboratory - NATA Site # 18217						X	X	X
Brisbane Laboratory - NATA Site # 20794								
Perth Laboratory - NATA Site # 23736								
Mayfield Laboratory - NATA Site # 25079								
External Laboratory								
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**			
1	TP398_0.0-0.2	Apr 13, 2021		US Leachate	S21-Ap50287	X		X
2	TP398_0.0-0.2	Apr 13, 2021		AUS Leachate - Reagent Water	S21-Ap50288	X	X	
Test Counts						2	1	1

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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.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram | **mg/L:** milligrams per litre | **ug/L:** micrograms per litre

ppm: Parts per million | **ppb:** Parts per billion | **%:** Percentage

org/100mL: Organisms per 100 millilitres | **NTU:** Nephelometric Turbidity Units | **MPN/100mL:** Most Probable Number of organisms per 100 millilitres

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 and 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.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
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 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

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, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene 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 Aroclor 1260 in Matrix Spikes and LCS.
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 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							
Polycyclic Aromatic Hydrocarbons							
Benzo(a)pyrene	mg/L	< 0.001			0.001	Pass	

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

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:

Ursula Long	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (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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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 266198

Client Details

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

Sample Details

Your Reference	**60482, Kemps Creek DSI**
Number of Samples	1 Water
Date samples received	09/04/2021
Date completed instructions received	09/04/2021

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	16/04/2021
Date of Issue	15/04/2021

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Results Approved By
Dragana Tomas, Senior Chemist
Giovanni Agosti, Group Technical Manager
Priya Samarawickrama, Senior Chemist

Authorised By

Nancy Zhang, Laboratory Manager

vTRH(C6-C10)/BTEXN in Water		
Our Reference		266198-1
Your Reference	UNITS	QA01_SW
Date Sampled		07/04/2021
Type of sample		Water
Date extracted	-	14/04/2021
Date analysed	-	15/04/2021
TRH C_6 - C_9	µg/L	<10
TRH C_6 - C_{10}	µg/L	<10
TRH C_6 - C_{10} less BTEX (F1)	µg/L	<10
Benzene	µg/L	<1
Toluene	µg/L	<1
Ethylbenzene	µg/L	<1
m+p-xylene	µg/L	<2
o-xylene	µg/L	<1
Naphthalene	µg/L	<1
Surrogate Dibromofluoromethane	%	101
Surrogate toluene-d8	%	100
Surrogate 4-BFB	%	126

svTRH (C10-C40) in Water		
Our Reference		266198-1
Your Reference	UNITS	QA01_SW
Date Sampled		07/04/2021
Type of sample		Water
Date extracted	-	12/04/2021
Date analysed	-	13/04/2021
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_{10} - C_{16} less Naphthalene (F2)	µg/L	<50
TRH >C_{16} - C_{34}	µg/L	<100
TRH >C_{34} - C_{40}	µg/L	<100
Surrogate o-Terphenyl	%	61

PAHs in Water - Low Level		
Our Reference		266198-1
Your Reference	UNITS	QA01_SW
Date Sampled		07/04/2021
Type of sample		Water
Date extracted	-	12/04/2021
Date analysed	-	12/04/2021
Naphthalene	µg/L	<0.2
Acenaphthylene	µg/L	<0.1
Acenaphthene	µg/L	<0.1
Fluorene	µg/L	<0.1
Phenanthrene	µg/L	<0.1
Anthracene	µg/L	<0.1
Fluoranthene	µg/L	<0.1
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
Benzo(a)pyrene TEQ	µg/L	<0.5
Total +ve PAH's	µg/L	<0.1
Surrogate p-Terphenyl-d14	%	92

HM in water - dissolved		
Our Reference		266198-1
Your Reference	UNITS	QA01_SW
Date Sampled		07/04/2021
Type of sample		Water
Date prepared	-	12/04/2021
Date analysed	-	12/04/2021
Arsenic-Dissolved	µg/L	3
Cadmium-Dissolved	µg/L	<0.1
Chromium-Dissolved	µg/L	<1
Copper-Dissolved	µg/L	11
Lead-Dissolved	µg/L	<1
Mercury-Dissolved	µg/L	<0.05
Nickel-Dissolved	µg/L	3
Zinc-Dissolved	µg/L	4

Miscellaneous Inorganics		
Our Reference	UNITS	266198-1
Your Reference		QA01_SW
Date Sampled		07/04/2021
Type of sample		Water
Date prepared	-	09/04/2021
Date analysed	-	09/04/2021
pH	pH Units	6.9
Electrical Conductivity	µS/cm	330
Total Suspended Solids	mg/L	66
Total Alkalinity as $CaCO_3$	mg/L	64
Ammonia as N in water	mg/L	0.11
Nitrite as N in water	mg/L	<0.005
Nitrate as N in water	mg/L	0.01

Cations in water Dissolved		
Our Reference	UNITS	266198-1
Your Reference		QA01_SW
Date Sampled		07/04/2021
Type of sample		Water
Date digested	-	12/04/2021
Date analysed	-	12/04/2021
Calcium - Dissolved	mg/L	15
Magnesium - Dissolved	mg/L	9.3
Hardness	mgCaCO 3 /L	77

Method ID	Methodology Summary
Inorg-001	pH - Measured using pH meter and electrode in accordance with APHA latest edition, 4500-H+. Please note that the results for water analyses are indicative only, as analysis outside of the APHA storage times.
Inorg-002	Conductivity and Salinity - measured using a conductivity cell at 25°C in accordance with APHA latest edition 2510 and Rayment & Lyons.
Inorg-006	Alkalinity - determined titrimetrically in accordance with APHA latest edition, 2320-B.
Inorg-019	Suspended Solids - determined gravimetricially by filtration of the sample. The samples are dried at 104+/-5°C.
Inorg-055	Nitrate - determined colourimetrically. Waters samples are filtered on receipt prior to analysis. Soils are analysed following a water extraction.
Inorg-055	Nitrite - determined colourimetrically based on APHA latest edition NO2- B. Waters samples are filtered on receipt prior to analysis. Soils are analysed following a water extraction.
Inorg-057	Ammonia - determined colourimetrically, based on APHA latest edition 4500-NH3 F. Waters samples are filtered on receipt prior to analysis. Soils are analysed following a KCl extraction.
Metals-020	Determination of various metals by ICP-AES.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Metals-022	Determination of various metals by ICP-MS.
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-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.
Org-023	Water samples are analysed directly 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.

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			14/04/2021	[NT]	[NT]	[NT]	[NT]	14/04/2021	[NT]
Date analysed	-			15/04/2021	[NT]	[NT]	[NT]	[NT]	15/04/2021	[NT]
TRH C_6 - C_9	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	94	[NT]
TRH C_6 - C_{10}	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	94	[NT]
Benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	80	[NT]
Toluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	80	[NT]
Ethylbenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	102	[NT]
m+p-xylene	µg/L	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	104	[NT]
o-xylene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	105	[NT]
Naphthalene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	96	[NT]	[NT]	[NT]	[NT]	98	[NT]
Surrogate toluene-d8	%		Org-023	99	[NT]	[NT]	[NT]	[NT]	99	[NT]
Surrogate 4-BFB	%		Org-023	124	[NT]	[NT]	[NT]	[NT]	126	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Water					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			12/04/2021	[NT]	[NT]	[NT]	[NT]	12/04/2021	[NT]
Date analysed	-			12/04/2021	[NT]	[NT]	[NT]	[NT]	12/04/2021	[NT]
TRH C_{10} - C_{14}	µg/L	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	84	[NT]
TRH C_{15} - C_{28}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	81	[NT]
TRH C_{29} - C_{36}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	96	[NT]
TRH >C_{10} - C_{16}	µg/L	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	84	[NT]
TRH >C_{16} - C_{34}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	81	[NT]
TRH >C_{34} - C_{40}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	96	[NT]
Surrogate o-Terphenyl	%		Org-020	82	[NT]	[NT]	[NT]	[NT]	104	[NT]

QUALITY CONTROL: PAHs in Water - Low Level						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	[NT]
Date extracted	-			12/04/2021	[NT]	[NT]	[NT]	[NT]	12/04/2021	[NT]
Date analysed	-			12/04/2021	[NT]	[NT]	[NT]	[NT]	12/04/2021	[NT]
Naphthalene	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	94	[NT]
Acenaphthylene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	87	[NT]
Fluorene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	89	[NT]
Phenanthrene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	106	[NT]
Anthracene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	93	[NT]
Pyrene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	95	[NT]
Benzo(a)anthracene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chrysene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	84	[NT]
Benzo(b,j+k)fluoranthene	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	88	[NT]
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	114	[NT]	[NT]	[NT]	[NT]	117	[NT]

QUALITY CONTROL: HM in water - dissolved						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			12/04/2021	[NT]	[NT]	[NT]	[NT]	12/04/2021	[NT]
Date analysed	-			12/04/2021	[NT]	[NT]	[NT]	[NT]	12/04/2021	[NT]
Arsenic-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	114	[NT]
Cadmium-Dissolved	µg/L	0.1	Metals-022	<0.1	[NT]	[NT]	[NT]	[NT]	105	[NT]
Chromium-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	110	[NT]
Copper-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	109	[NT]
Lead-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	111	[NT]
Mercury-Dissolved	µg/L	0.05	Metals-021	<0.05	[NT]	[NT]	[NT]	[NT]	101	[NT]
Nickel-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	108	[NT]
Zinc-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	109	[NT]

QUALITY CONTROL: Miscellaneous Inorganics						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			09/04/2021	1	09/04/2021	09/04/2021		09/04/2021	[NT]
Date analysed	-			09/04/2021	1	09/04/2021	09/04/2021		09/04/2021	[NT]
pH	pH Units		Inorg-001	[NT]	1	6.9	6.9	0	102	[NT]
Electrical Conductivity	µS/cm	1	Inorg-002	<1	1	330	320	3	105	[NT]
Total Suspended Solids	mg/L	5	Inorg-019	<5	1	66	[NT]		95	[NT]
Total Alkalinity as $CaCO_3$	mg/L	5	Inorg-006	<5	1	64	65	2	111	[NT]
Ammonia as N in water	mg/L	0.005	Inorg-057	<0.005	1	0.11	[NT]		98	[NT]
Nitrite as N in water	mg/L	0.005	Inorg-055	<0.005	1	<0.005	[NT]		91	[NT]
Nitrate as N in water	mg/L	0.005	Inorg-055	<0.005	1	0.01	[NT]		107	[NT]

QUALITY CONTROL: Cations in water Dissolved						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date digested	-			12/04/2021	[NT]	[NT]	[NT]	[NT]	12/04/2021	[NT]
Date analysed	-			12/04/2021	[NT]	[NT]	[NT]	[NT]	12/04/2021	[NT]
Calcium - Dissolved	mg/L	0.5	Metals-020	<0.5	[NT]	[NT]	[NT]	[NT]	105	[NT]
Magnesium - Dissolved	mg/L	0.5	Metals-020	<0.5	[NT]	[NT]	[NT]	[NT]	113	[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.

Report Comments

pH
Samples were out of the recommended holding time for this analysis.

Dissolved Metals: no filtered, preserved sample was received, therefore the unpreserved sample was filtered through 0.45µm filter at the lab.
Note: there is a possibility some elements may be underestimated.

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 60482 | LABORATORY BATCH NO.:

PROJECT NAME: Kemps Creek DSI | SAMPLERS:

DATE NEEDED BY: Standard TAT | 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) .....rlill@jbsg.com.au; (3) .....cdagger@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs (low level)	~~Asbestos~~	~~OCPs/PCBs~~	Phenols	Herbicides	PFAS	EC, pH, alkalinity, hardness	Ammonia	Nitrite/Nitrate	OH/TSS							TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
	~~Soil~~																									
QA01-SW	Water	7/4/21		1xA, 1xM, 2xV, 1xPre.(ng. 1x1mog		x	x	x	~~x~~	-				x	x	x	x									

ENVIROLAB GROUP
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 266198
Date Received: 7/4/21
Time Received: 1120
Received By: BD
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Ryan Lill DATE: 7/4/21	CONSIGNMENT NOTE NO.	NAME: Jason Day DATE: 7/4/21	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	OF: EGS SYD 1120	COOLER TEMP ..... deg C 22
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

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	R Lill

Sample Login Details

Your reference	60482, Kemps Creek DSI
Envirolab Reference	266198
Date Sample Received	09/04/2021
Date Instructions Received	09/04/2021
Date Results Expected to be Reported	16/04/2021

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	1 Water
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	15
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
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	vTRH(C6-C10)/BTEXN in Water	svTRH (C10-C40) in Water	PAHs in Water - Low Level	HM in water - dissolved	pH	Electrical Conductivity	Total Suspended Solids	Total Alkalinity as CaCO3	Ammonia as N in water	Nitrite as N in water	Nitrate as N in water	Cations in water Dissolved
QA01_SW	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

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 266402

Client Details

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

Sample Details

Your Reference	**60482, Kemps Creek DSI**
Number of Samples	4 Soil
Date samples received	13/04/2021
Date completed instructions received	13/04/2021

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	20/04/2021
Date of Issue	20/04/2021

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Asbestos Approved By
Analysed by Asbestos Approved Identifier: Panika Wongchanda
Authorised by Asbestos Approved Signatory: Lucy Zhu

Results Approved By
Dragana Tomas, Senior Chemist
Giovanni Agosti, Group Technical Manager
Lucy Zhu, Asbestos Supervisor
Nancy Zhang, Laboratory Manager, Sydney

Authorised By

Nancy Zhang, Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil				
Our Reference		266402-1	266402-3	266402-4
Your Reference	UNITS	QA01-Soil	QA03-Soil	QA04-Soil
Date Sampled		12/04/2021	12/04/2021	12/04/2021
Type of sample		Soil	Soil	Soil
Date extracted	-	14/04/2021	14/04/2021	14/04/2021
Date analysed	-	16/04/2021	16/04/2021	16/04/2021
TRH C_6 - C_9	mg/kg	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1
naphthalene	mg/kg	<1	<1	<1
Total +ve Xylenes	mg/kg	<3	<3	<3
Surrogate aaa-Trifluorotoluene	%	85	96	97

svTRH (C10-C40) in Soil				
Our Reference		266402-1	266402-3	266402-4
Your Reference	UNITS	QA01-Soil	QA03-Soil	QA04-Soil
Date Sampled		12/04/2021	12/04/2021	12/04/2021
Type of sample		Soil	Soil	Soil
Date extracted	-	14/04/2021	14/04/2021	14/04/2021
Date analysed	-	17/04/2021	17/04/2021	17/04/2021
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50
Surrogate o-Terphenyl	%	94	92	95

PAHs in Soil					
Our Reference		266402-1	266402-2	266402-3	266402-4
Your Reference	UNITS	QA01-Soil	QA02-Soil	QA03-Soil	QA04-Soil
Date Sampled		12/04/2021	12/04/2021	12/04/2021	12/04/2021
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	14/04/2021	14/04/2021	14/04/2021	14/04/2021
Date analysed	-	19/04/2021	19/04/2021	19/04/2021	19/04/2021
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	110	111	111	111

Organochlorine Pesticides in soil			
Our Reference		266402-1	266402-2
Your Reference	UNITS	QA01-Soil	QA02-Soil
Date Sampled		12/04/2021	12/04/2021
Type of sample		Soil	Soil
Date extracted	-	14/04/2021	14/04/2021
Date analysed	-	19/04/2021	19/04/2021
alpha-BHC	mg/kg	<0.1	<0.1
HCB	mg/kg	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1
gamma-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
Endosulfan II	mg/kg	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1
Surrogate TCMX	%	114	112

PCBs in Soil			
Our Reference		266402-1	266402-2
Your Reference	UNITS	QA01-Soil	QA02-Soil
Date Sampled		12/04/2021	12/04/2021
Type of sample		Soil	Soil
Date extracted	-	14/04/2021	14/04/2021
Date analysed	-	19/04/2021	19/04/2021
Aroclor 1016	mg/kg	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1
Surrogate TCMX	%	114	112

Acid Extractable metals in soil				
Our Reference		266402-1	266402-3	266402-4
Your Reference	UNITS	QA01-Soil	QA03-Soil	QA04-Soil
Date Sampled		12/04/2021	12/04/2021	12/04/2021
Type of sample		Soil	Soil	Soil
Date prepared	-	15/04/2021	15/04/2021	15/04/2021
Date analysed	-	15/04/2021	15/04/2021	15/04/2021
Arsenic	mg/kg	6	7	7
Cadmium	mg/kg	<0.4	<0.4	<0.4
Chromium	mg/kg	9	17	17
Copper	mg/kg	17	21	15
Lead	mg/kg	8	16	21
Mercury	mg/kg	<0.1	<0.1	<0.1
Nickel	mg/kg	3	7	8
Zinc	mg/kg	20	30	23

Moisture					
Our Reference		266402-1	266402-2	266402-3	266402-4
Your Reference	UNITS	QA01-Soil	QA02-Soil	QA03-Soil	QA04-Soil
Date Sampled		12/04/2021	12/04/2021	12/04/2021	12/04/2021
Type of sample		Soil	Soil	Soil	Soil
Date prepared	-	14/04/2021	14/04/2021	14/04/2021	14/04/2021
Date analysed	-	15/04/2021	15/04/2021	15/04/2021	15/04/2021
Moisture	%	15	21	18	22

Asbestos ID - soils NEPM - ASB-001		
Our Reference		266402-4
Your Reference	UNITS	QA04-Soil
Date Sampled		12/04/2021
Type of sample		Soil
Date analysed	-	20/04/2021
Sample mass tested	g	492.52
Sample Description	-	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
Trace Analysis	-	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected
ACM >7mm Estimation*	g	–
FA and AF Estimation*	g	–
ACM >7mm Estimation*	%(w/w)	<0.01
FA and AF Estimation*#2	%(w/w)	<0.001

Phenoxy Acid Herbicides in Soil		
Our Reference		266402-2
Your Reference	UNITS	QA02-Soil
Date Sampled		12/04/2021
Type of sample		Soil
Date extracted	-	15/04/2021
Date analysed	-	16/04/2021
Clopyralid	mg/kg	<0.5
3,5-Dichlorobenzoic acid	mg/kg	<0.5
o-chlorophenoxy acetic acid	mg/kg	<0.5
4-CPA	mg/kg	<0.5
Dicamba	mg/kg	<0.5
MCPP	mg/kg	<0.5
MCPA	mg/kg	<0.5
Dichlorprop	mg/kg	<0.5
2,4-D	mg/kg	<0.5
Bromoxynil	mg/kg	<0.5
Triclopyr	mg/kg	<0.5
2,4,5-TP	mg/kg	<0.5
2,4,5-T	mg/kg	<0.5
MCPB	mg/kg	<0.5
Dinoseb	mg/kg	<1
2,4-DB	mg/kg	<0.5
Ioxynil	mg/kg	<1
Picloram	mg/kg	<0.5
DCPA (Chlorthal) Diacid	mg/kg	<0.5
Acifluorfen	mg/kg	<2
2,4,6-T	mg/kg	<0.5
2,6-D	mg/kg	<0.5
Surrogate 2.4- DCPA	%	86

Triazine Herbicides in Soil		
Our Reference		266402-2
Your Reference	UNITS	QA02-Soil
Date Sampled		12/04/2021
Type of sample		Soil
Date extracted	-	14/04/2021
Date analysed	-	19/04/2021
Simazine	mg/kg	<0.5
Atrazine	mg/kg	<0.5
Propazine	mg/kg	<0.5
Terbuthylazine	mg/kg	<0.5
Metribuzin	mg/kg	<0.5
Ametryn	mg/kg	<0.5
Prometryn	mg/kg	<0.5
Terbutryn	mg/kg	<0.5
Cyanazine	mg/kg	<0.5
Irgarol	mg/kg	<0.5
Hexazinone	mg/kg	<0.5
Surrogate p-Terphenyl-d14	%	115

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.
Ext-054	Analysed by MPL Envirolab
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.
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.

Method ID	Methodology Summary
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-021	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.
Org-021	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD. Note, the Total +ve PCBs PQL is reflective of the lowest individual PQL and is therefore" Total +ve PCBs" is simply a sum of the positive individual PCBs.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-022/025	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-MS/GC-MSMS. Note, the Total +ve reported DDD+DDE+DDT PQL is reflective of the lowest individual PQL and is therefore simply a sum of the positive individually report DDD+DDE+DDT.
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-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-6	[NT]
Date extracted	-			14/04/2021	[NT]	[NT]	[NT]	[NT]	14/04/2021	[NT]
Date analysed	-			16/04/2021	[NT]	[NT]	[NT]	[NT]	16/04/2021	[NT]
TRH C_6 - C_9	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	119	[NT]
TRH C_6 - C_{10}	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	119	[NT]
Benzene	mg/kg	0.2	Org-023	<0.2	[NT]	[NT]	[NT]	[NT]	104	[NT]
Toluene	mg/kg	0.5	Org-023	<0.5	[NT]	[NT]	[NT]	[NT]	112	[NT]
Ethylbenzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	123	[NT]
m+p-xylene	mg/kg	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	129	[NT]
o-Xylene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	129	[NT]
naphthalene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	131	[NT]	[NT]	[NT]	[NT]	111	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	[NT]
Date extracted	-			14/04/2021	[NT]	[NT]	[NT]	[NT]	14/04/2021	[NT]
Date analysed	-			17/04/2021	[NT]	[NT]	[NT]	[NT]	17/04/2021	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	129	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	99	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	102	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	129	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	99	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	102	[NT]
Surrogate o-Terphenyl	%		Org-020	93	[NT]	[NT]	[NT]	[NT]	83	[NT]

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-7	[NT]
Date extracted	-			14/04/2021	[NT]	[NT]	[NT]	[NT]	14/04/2021	[NT]
Date analysed	-			19/04/2021	[NT]	[NT]	[NT]	[NT]	19/04/2021	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	105	[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]	87	[NT]
Fluorene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	100	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	107	[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]	82	[NT]
Pyrene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	89	[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]	78	[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]	85	[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	120	[NT]	[NT]	[NT]	[NT]	111	[NT]

QUALITY CONTROL: Organochlorine Pesticides in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-7	[NT]
Date extracted	-			14/04/2021	[NT]	[NT]	[NT]	[NT]	14/04/2021	[NT]
Date analysed	-			19/04/2021	[NT]	[NT]	[NT]	[NT]	19/04/2021	[NT]
alpha-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	90	[NT]
HCB	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	96	[NT]
gamma-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	83	[NT]
delta-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	97	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	97	[NT]
gamma-Chlordane	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	97	[NT]
Dieldrin	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	99	[NT]
Endrin	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	93	[NT]
Endosulfan II	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	81	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	91	[NT]
Methoxychlor	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	123	[NT]	[NT]	[NT]	[NT]	115	[NT]

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-7	[NT]
Date extracted	-			14/04/2021	[NT]	[NT]	[NT]	[NT]	14/04/2021	[NT]
Date analysed	-			19/04/2021	[NT]	[NT]	[NT]	[NT]	19/04/2021	[NT]
Aroclor 1016	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	70	[NT]
Aroclor 1260	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate TCMX	%		Org-021	123	[NT]	[NT]	[NT]	[NT]	115	[NT]

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-7	[NT]
Date prepared	-			15/04/2021	[NT]	[NT]	[NT]	[NT]	15/04/2021	[NT]
Date analysed	-			15/04/2021	[NT]	[NT]	[NT]	[NT]	15/04/2021	[NT]
Arsenic	mg/kg	4	Metals-020	<4	[NT]	[NT]	[NT]	[NT]	110	[NT]
Cadmium	mg/kg	0.4	Metals-020	<0.4	[NT]	[NT]	[NT]	[NT]	96	[NT]
Chromium	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	101	[NT]
Copper	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	110	[NT]
Lead	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	95	[NT]
Mercury	mg/kg	0.1	Metals-021	<0.1	[NT]	[NT]	[NT]	[NT]	103	[NT]
Nickel	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	102	[NT]
Zinc	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	98	[NT]

QUALITY CONTROL: Phenoxy Acid Herbicides in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-7	266402-2
Date extracted	-			15/04/2021	2	15/04/2021	15/04/2021		15/04/2021	15/04/2021
Date analysed	-			16/04/2021	2	16/04/2021	16/04/2021		16/04/2021	16/04/2021
Clopyralid	mg/kg	0.5	Ext-054	<0.5	2	<0.5	<0.5	0	100	88
3,5-Dichlorobenzoic acid	mg/kg	0.5	Ext-054	<0.5	2	<0.5	<0.5	0	[NT]	[NT]
o-chlorophenoxy acetic acid	mg/kg	0.5	Ext-054	<0.5	2	<0.5	<0.5	0	[NT]	[NT]
4-CPA	mg/kg	0.5	Ext-054	<0.5	2	<0.5	<0.5	0	[NT]	[NT]
Dicamba	mg/kg	0.5	Ext-054	<0.5	2	<0.5	<0.5	0	[NT]	[NT]
MCPP	mg/kg	0.5	Ext-054	<0.5	2	<0.5	<0.5	0	[NT]	[NT]
MCPA	mg/kg	0.5	Ext-054	<0.5	2	<0.5	<0.5	0	[NT]	[NT]
Dichlorprop	mg/kg	0.5	Ext-054	<0.5	2	<0.5	<0.5	0	[NT]	[NT]
2,4-D	mg/kg	0.5	Ext-054	<0.5	2	<0.5	<0.5	0	84	80
Bromoxynil	mg/kg	0.5	Ext-054	<0.5	2	<0.5	<0.5	0	[NT]	[NT]
Triclopyr	mg/kg	0.5	Ext-054	<0.5	2	<0.5	<0.5	0	[NT]	[NT]
2,4,5-TP	mg/kg	0.5	Ext-054	<0.5	2	<0.5	<0.5	0	[NT]	[NT]
2,4,5-T	mg/kg	0.5	Ext-054	<0.5	2	<0.5	<0.5	0	90	86
MCPB	mg/kg	0.5	Ext-054	<0.5	2	<0.5	<0.5	0	[NT]	[NT]
Dinoseb	mg/kg	1	Ext-054	<1	2	<1	<1	0	[NT]	[NT]
2,4-DB	mg/kg	0.5	Ext-054	<0.5	2	<0.5	<0.5	0	[NT]	[NT]
Ioxynil	mg/kg	1	Ext-054	<1	2	<1	<1	0	[NT]	[NT]
Picloram	mg/kg	0.5	Ext-054	<0.5	2	<0.5	<0.5	0	[NT]	[NT]
DCPA (Chlorthal) Diacid	mg/kg	0.5	Ext-054	<0.5	2	<0.5	<0.5	0	[NT]	[NT]
Acifluorfen	mg/kg	2	Ext-054	<2	2	<2	<2	0	[NT]	[NT]
2,4,6-T	mg/kg	0.5	Ext-054	<0.5	2	<0.5	<0.5	0	[NT]	[NT]
2,6-D	mg/kg	0.5	Ext-054	<0.5	2	<0.5	<0.5	0	[NT]	[NT]
Surrogate 2.4- DCPA	%		Ext-054	88	2	86	88	2	86	84

QUALITY CONTROL: Triazine Herbicides in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-7	266402-2
Date extracted	-			14/04/2021	2	14/04/2021	14/04/2021		14/04/2021	14/04/2021
Date analysed	-			19/04/2021	2	19/04/2021	19/04/2021		19/04/2021	19/04/2021
Simazine	mg/kg	0.5	Org-022/025	<0.5	2	<0.5	<0.5	0	[NT]	[NT]
Atrazine	mg/kg	0.5	Org-022/025	<0.5	2	<0.5	<0.5	0	111	112
Propazine	mg/kg	0.5	Org-022/025	<0.5	2	<0.5	<0.5	0	104	102
Terbuthylazine	mg/kg	0.5	Org-022/025	<0.5	2	<0.5	<0.5	0	[NT]	[NT]
Metribuzin	mg/kg	0.5	Org-022/025	<0.5	2	<0.5	<0.5	0	[NT]	[NT]
Ametryn	mg/kg	0.5	Org-022/025	<0.5	2	<0.5	<0.5	0	[NT]	[NT]
Prometryn	mg/kg	0.5	Org-022/025	<0.5	2	<0.5	<0.5	0	120	124
Terbutryn	mg/kg	0.5	Org-022/025	<0.5	2	<0.5	<0.5	0	[NT]	[NT]
Cyanazine	mg/kg	0.5	Org-022/025	<0.5	2	<0.5	<0.5	0	[NT]	[NT]
Irgarol	mg/kg	0.5	Org-022/025	<0.5	2	<0.5	<0.5	0	[NT]	[NT]
Hexazinone	mg/kg	0.5	Org-022/025	<0.5	2	<0.5	<0.5	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	121	2	115	116	1	117	114

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

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.

Acid Herbicides in Soil - analysed by Envirolab Mel, report 25326.

CHAIN OF CUSTODY

* lab to dry #3 for asbestos - AB -

JBS&G

PROJECT NO.: 60482	LABORATORY BATCH NO.:
PROJECT NAME: Kemps Creek DSI	SAMPLERS:
DATE NEEDED BY: Standard TAT	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) .....rlill@jbsg.com.au; (3) .....cdagger@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs	Asbestos	OCPs/PCBs	Phenols	Herbicides	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
	~~QA01-S~~	Soil	12-4-24		~~J+B~~												
1	QA01_Soil	↓	↓		J		x	x	x		x						
2	QA02_Soil				J+B				x		x		x				
3	QA03_Soil				J+B		x	x	x	x							
4	QA04_Soil				J+B		x	x	x	x							

CHAIN OF CUSTODY
12 Ashley St
Chatswood NSW 2067
Ph: (02) ~~9910 6200~~

Job No: 266402

Date Received: 13/4/24
Time Received: 10 05
Received By: AB
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Broken/None

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: A-BVI	COOLER SEAL – Yes..... (No)..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 13/4/24 OF: ELS40	COOLER TEMP ..14.. 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

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	R Lill

Sample Login Details

Your reference	60482, Kemps Creek DSI
Envirolab Reference	266402
Date Sample Received	13/04/2021
Date Instructions Received	13/04/2021
Date Results Expected to be Reported	20/04/2021

Sample Condition

Samples received in appropriate condition for analysis	
No. of Samples Provided	4 Soil
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	14
Cooling Method	Ice
Sampling Date Provided	YES

Comments

no asbestos bag received for QA03-soil

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	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticides in soil	PCBsin Soil	Acid Extractable metalsin soil	Asbestos ID - soils NEPM - ASB-001	Phenoxy Acid Herbicidesin Soil	Triazine Herbicides in Soil
QA01-Soil	✓	✓	✓	✓	✓	✓			
QA02-Soil			✓	✓	✓			✓	✓
QA03-Soil	✓	✓	✓			✓			
QA04-Soil	✓	✓	✓			✓	✓		

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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ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

CERTIFICATE OF ANALYSIS 266405

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	**60482, Kemps Creek DSI**
Number of Samples	3 Water
Date samples received	13/04/2021
Date completed instructions received	13/04/2021

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	20/04/2021
Date of Issue	19/04/2021

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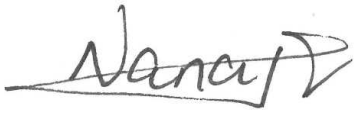
Accredited for compliance with ISO/IEC 17025 - Testing. **Tests not covered by NATA are denoted with ***

Results Approved By
Dragana Tomas, Senior Chemist
Giovanni Agosti, Group Technical Manager
Jaimie Loa-Kum-Cheung, Metals Supervisor
Priya Samarawickrama, Senior Chemist

Authorised By



Nancy Zhang, Laboratory Manager

vTRH(C6-C10)/BTEXN in Water		
Our Reference		266405-1
Your Reference	UNITS	QA01-GW
Date Sampled		12/04/2021
Type of sample		Water
Date extracted	-	16/04/2021
Date analysed	-	19/04/2021
TRH C_6 - C_9	µg/L	<10
TRH C_6 - C_{10}	µg/L	<10
TRH C_6 - C_{10} less BTEX (F1)	µg/L	<10
Benzene	µg/L	<1
Toluene	µg/L	<1
Ethylbenzene	µg/L	<1
m+p-xylene	µg/L	<2
o-xylene	µg/L	<1
Naphthalene	µg/L	<1
Surrogate Dibromofluoromethane	%	107
Surrogate toluene-d8	%	101
Surrogate 4-BFB	%	102

svTRH (C10-C40) in Water		
Our Reference		266405-1
Your Reference	UNITS	QA01-GW
Date Sampled		12/04/2021
Type of sample		Water
Date extracted	-	14/04/2021
Date analysed	-	15/04/2021
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_{10} - C_{16} less Naphthalene (F2)	µg/L	<50
TRH >C_{16} - C_{34}	µg/L	<100
TRH >C_{34} - C_{40}	µg/L	<100
Surrogate o-Terphenyl	%	84

PAHs in Water - Low Level		
Our Reference		266405-1
Your Reference	UNITS	QA01-GW
Date Sampled		12/04/2021
Type of sample		Water
Date extracted	-	14/04/2021
Date analysed	-	15/04/2021
Naphthalene	µg/L	<0.2
Acenaphthylene	µg/L	<0.1
Acenaphthene	µg/L	<0.1
Fluorene	µg/L	<0.1
Phenanthrene	µg/L	<0.1
Anthracene	µg/L	<0.1
Fluoranthene	µg/L	<0.1
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
Benzo(a)pyrene TEQ	µg/L	<0.5
Total +ve PAH's	µg/L	<0.1
Surrogate p-Terphenyl-d14	%	93

HM in water - dissolved		
Our Reference		266405-1
Your Reference	UNITS	QA01-GW
Date Sampled		12/04/2021
Type of sample		Water
Date prepared	-	14/04/2021
Date analysed	-	14/04/2021
Arsenic-Dissolved	µg/L	<1
Cadmium-Dissolved	µg/L	<0.1
Chromium-Dissolved	µg/L	<1
Copper-Dissolved	µg/L	<1
Lead-Dissolved	µg/L	<1
Mercury-Dissolved	µg/L	<0.05
Nickel-Dissolved	µg/L	<1
Zinc-Dissolved	µg/L	<1

Miscellaneous Inorganics		
Our Reference	UNITS	266405-1
Your Reference		QA01-GW
Date Sampled		12/04/2021
Type of sample		Water
Date prepared	-	13/04/2021
Date analysed	-	13/04/2021
pH	pH Units	7.4
Electrical Conductivity	µS/cm	3,300
Total Alkalinity as $CaCO_3$	mg/L	1,300

Cations in water Dissolved		
Our Reference		266405-1
Your Reference	UNITS	QA01-GW
Date Sampled		12/04/2021
Type of sample		Water
Date digested	-	14/04/2021
Date analysed	-	14/04/2021
Calcium - Dissolved	mg/L	9.1
Magnesium - Dissolved	mg/L	75
Hardness	mgCaCO 3 /L	330

Method ID	Methodology Summary
Inorg-001	pH - Measured using pH meter and electrode in accordance with APHA latest edition, 4500-H+. Please note that the results for water analyses are indicative only, as analysis outside of the APHA storage times.
Inorg-002	Conductivity and Salinity - measured using a conductivity cell at 25°C in accordance with APHA latest edition 2510 and Rayment & Lyons.
Inorg-006	Alkalinity - determined titrimetrically in accordance with APHA latest edition, 2320-B.
Metals-020	Determination of various metals by ICP-AES.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Metals-022	Determination of various metals by ICP-MS.
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-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.
Org-023	Water samples are analysed directly 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.

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Water					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	[NT]
Date extracted	-			16/04/2021	[NT]	[NT]	[NT]	[NT]	16/04/2021	[NT]
Date analysed	-			19/04/2021	[NT]	[NT]	[NT]	[NT]	19/04/2021	[NT]
TRH C_6 - C_9	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	105	[NT]
TRH C_6 - C_{10}	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	105	[NT]
Benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	104	[NT]
Toluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	104	[NT]
Ethylbenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	105	[NT]
m+p-xylene	µg/L	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	106	[NT]
o-xylene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	101	[NT]
Naphthalene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	98	[NT]	[NT]	[NT]	[NT]	101	[NT]
Surrogate toluene-d8	%		Org-023	102	[NT]	[NT]	[NT]	[NT]	100	[NT]
Surrogate 4-BFB	%		Org-023	101	[NT]	[NT]	[NT]	[NT]	99	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date extracted	-			14/04/2021	1	14/04/2021	14/04/2021		14/04/2021	[NT]
Date analysed	-			15/04/2021	1	15/04/2021	15/04/2021		15/04/2021	[NT]
TRH C_{10} - C_{14}	µg/L	50	Org-020	<50	1	<50	<50	0	107	[NT]
TRH C_{15} - C_{28}	µg/L	100	Org-020	<100	1	<100	<100	0	108	[NT]
TRH C_{29} - C_{36}	µg/L	100	Org-020	<100	1	<100	<100	0	84	[NT]
TRH >C_{10} - C_{16}	µg/L	50	Org-020	<50	1	<50	<50	0	107	[NT]
TRH >C_{16} - C_{34}	µg/L	100	Org-020	<100	1	<100	<100	0	108	[NT]
TRH >C_{34} - C_{40}	µg/L	100	Org-020	<100	1	<100	<100	0	84	[NT]
Surrogate o-Terphenyl	%		Org-020	88	1	84	83	1	90	[NT]

QUALITY CONTROL: PAHs in Water - Low Level						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	[NT]
Date extracted	-			14/04/2021	1	14/04/2021	14/04/2021		14/04/2021	[NT]
Date analysed	-			15/04/2021	1	15/04/2021	15/04/2021		15/04/2021	[NT]
Naphthalene	µg/L	0.2	Org-022/025	<0.2	1	<0.2	<0.2	0	89	[NT]
Acenaphthylene	µg/L	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	83	[NT]
Fluorene	µg/L	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	76	[NT]
Phenanthrene	µg/L	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	110	[NT]
Anthracene	µg/L	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	88	[NT]
Pyrene	µg/L	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	93	[NT]
Benzo(a)anthracene	µg/L	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Chrysene	µg/L	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	70	[NT]
Benzo(b,j+k)fluoranthene	µg/L	0.2	Org-022/025	<0.2	1	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	72	[NT]
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	107	1	93	88	6	109	[NT]

QUALITY CONTROL: HM in water - dissolved						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			14/04/2021	[NT]	[NT]	[NT]	[NT]	14/04/2021	[NT]
Date analysed	-			14/04/2021	[NT]	[NT]	[NT]	[NT]	14/04/2021	[NT]
Arsenic-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	103	[NT]
Cadmium-Dissolved	µg/L	0.1	Metals-022	<0.1	[NT]	[NT]	[NT]	[NT]	92	[NT]
Chromium-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	99	[NT]
Copper-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	101	[NT]
Lead-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	99	[NT]
Mercury-Dissolved	µg/L	0.05	Metals-021	<0.05	[NT]	[NT]	[NT]	[NT]	103	[NT]
Nickel-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	97	[NT]
Zinc-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	99	[NT]

QUALITY CONTROL: Miscellaneous Inorganics					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			13/04/2021	[NT]	[NT]	[NT]	[NT]	13/04/2021	[NT]
Date analysed	-			13/04/2021	[NT]	[NT]	[NT]	[NT]	13/04/2021	[NT]
pH	pH Units		Inorg-001	[NT]	[NT]	[NT]	[NT]	[NT]	100	[NT]
Electrical Conductivity	µS/cm	1	Inorg-002	<1	[NT]	[NT]	[NT]	[NT]	105	[NT]
Total Alkalinity as $CaCO_3$	mg/L	5	Inorg-006	<5	[NT]	[NT]	[NT]	[NT]	109	[NT]

QUALITY CONTROL: Cations in water Dissolved						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date digested	-			14/04/2021	[NT]	[NT]	[NT]	[NT]	14/04/2021	[NT]
Date analysed	-			14/04/2021	[NT]	[NT]	[NT]	[NT]	14/04/2021	[NT]
Calcium - Dissolved	mg/L	0.5	Metals-020	<0.5	[NT]	[NT]	[NT]	[NT]	91	[NT]
Magnesium - Dissolved	mg/L	0.5	Metals-020	<0.5	[NT]	[NT]	[NT]	[NT]	96	[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.: 60482	LABORATORY BATCH NO.:
PROJECT NAME: Kemps Creek DSI	SAMPLERS:
DATE NEEDED BY: Standard TAT	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) .....rlill@jbsg.com.au; (3) .....cdagger@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs (low level)	~~Asbestos~~	~~OCPs/PCBs~~	~~Phenols~~	~~Herbicides~~	~~PFAS~~	EC, pH, Alkalinity, Hardness									TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
(1)	QA01-GW	~~Soil~~ Water	12-4-21		2xV, 1xA, 1xNorg, 1xM		x	x	x						x											
(2)	Water Trip Blank	1 Extra																								
(3)	Water Trip Spike	-SD.																								

ENVIROLAB
12 Ashley
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 266405

Date Received: 13/4/21
Time Received: 1005
Received By: AG
Temp: Cool/Ambient
Cooling: Ice/icepack
Security: Intact/Broken

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Ryan Lill DATE: 12-4-21	CONSIGNMENT NOTE NO.	NAME: A-BV1	COOLER SEAL – Yes..... No..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 13/4/21	
		OF: ELS JHB	COOLER TEMP ...17... 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

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	C Dagger

Sample Login Details

Your reference	60482, Kemps Creek DSI
Envirolab Reference	266405
Date Sample Received	13/04/2021
Date Instructions Received	13/04/2021
Date Results Expected to be Reported	20/04/2021

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	3 Water
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	14
Cooling Method	Ice Pack
Sampling Date Provided	YES

Comments

extra TB/TS received

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	vTRH(C6-C10)/BTEXN in Water	svTRH (C10-C40) in Water	PAHs in Water - Low Level	HM in water - dissolved	pH	Electrical Conductivity	Total Alkalinity as CaCO3	Cations in water Dissolved	On Hold
QA01-GW	✓	✓	✓	✓	✓	✓	✓	✓	
TB									✓
TS									✓

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 266600

Client Details

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

Sample Details

Your Reference	**60482. Kemps Creek DSI**
Number of Samples	4 SOIL
Date samples received	14/04/2021
Date completed instructions received	14/04/2021

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	21/04/2021
Date of Issue	21/04/2021

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Asbestos Approved By
Analysed by Asbestos Approved Identifier: Panika Wongchanda
Authorised by Asbestos Approved Signatory: Lucy Zhu

Results Approved By
Diego Bigolin, Team Leader, Inorganics
Dragana Tomas, Senior Chemist
Giovanni Agosti, Group Technical Manager
Lucy Zhu, Asbestos Supervisor
Nancy Zhang, Laboratory Manager, Sydney
Steven Luong, Organics Supervisor

Authorised By

Nancy Zhang, Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil					
Our Reference		266600-1	266600-2	266600-3	266600-4
Your Reference	UNITS	QA07-SOIL	QA05-SOIL	QA08-SOIL	QA06-SOIL
Date Sampled		13/04/2021	13/04/2021	13/04/2021	13/04/2021
Type of sample		SOIL	SOIL	SOIL	SOIL
Date extracted	-	15/04/2021	15/04/2021	15/04/2021	15/04/2021
Date analysed	-	19/04/2021	19/04/2021	19/04/2021	19/04/2021
TRH C_6 - C_9	mg/kg	<25	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1
naphthalene	mg/kg	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<3	<3	<3	<3
Surrogate aaa-Trifluorotoluene	%	97	109	114	93

svTRH (C10-C40) in Soil					
Our Reference		266600-1	266600-2	266600-3	266600-4
Your Reference	UNITS	QA07-SOIL	QA05-SOIL	QA08-SOIL	QA06-SOIL
Date Sampled		13/04/2021	13/04/2021	13/04/2021	13/04/2021
Type of sample		SOIL	SOIL	SOIL	SOIL
Date extracted	-	15/04/2021	15/04/2021	15/04/2021	15/04/2021
Date analysed	-	16/04/2021	16/04/2021	16/04/2021	16/04/2021
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	110	<100
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	130	<100	140	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	120	<100
Total +ve TRH (>C10-C40)	mg/kg	130	<50	260	<50
Surrogate o-Terphenyl	%	116	110	100	108

PAHs in Soil					
Our Reference		266600-1	266600-2	266600-3	266600-4
Your Reference	UNITS	QA07-SOIL	QA05-SOIL	QA08-SOIL	QA06-SOIL
Date Sampled		13/04/2021	13/04/2021	13/04/2021	13/04/2021
Type of sample		SOIL	SOIL	SOIL	SOIL
Date extracted	-	15/04/2021	15/04/2021	15/04/2021	16/04/2021
Date analysed	-	16/04/2021	16/04/2021	16/04/2021	16/04/2021
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	1.2	<0.1	0.2	<0.1
Anthracene	mg/kg	0.2	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	1.9	<0.1	0.3	<0.1
Pyrene	mg/kg	1.6	<0.1	0.3	<0.1
Benzo(a)anthracene	mg/kg	0.8	<0.1	0.1	<0.1
Chrysene	mg/kg	0.8	<0.1	0.2	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	1	<0.2	0.3	<0.2
Benzo(a)pyrene	mg/kg	0.75	<0.05	0.2	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	0.6	<0.1	0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	0.8	<0.1	0.2	<0.1
Total +ve PAH's	mg/kg	10	<0.05	1.8	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	1.2	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	1.2	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	1.2	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	117	114	114	103

Organochlorine Pesticides in soil		
Our Reference		266600-4
Your Reference	UNITS	QA06-SOIL
Date Sampled		13/04/2021
Type of sample		SOIL
Date extracted	-	15/04/2021
Date analysed	-	16/04/2021
alpha-BHC	mg/kg	<0.1
HCB	mg/kg	<0.1
beta-BHC	mg/kg	<0.1
gamma-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
Endosulfan II	mg/kg	<0.1
pp-DDD	mg/kg	<0.1
Endrin Aldehyde	mg/kg	<0.1
pp-DDT	mg/kg	<0.1
Endosulfan Sulphate	mg/kg	<0.1
Methoxychlor	mg/kg	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1
Surrogate TCMX	%	102

PCBs in Soil		
Our Reference		266600-4
Your Reference	UNITS	QA06-SOIL
Date Sampled		13/04/2021
Type of sample		SOIL
Date extracted	-	15/04/2021
Date analysed	-	16/04/2021
Aroclor 1016	mg/kg	<0.1
Aroclor 1221	mg/kg	<0.1
Aroclor 1232	mg/kg	<0.1
Aroclor 1242	mg/kg	<0.1
Aroclor 1248	mg/kg	<0.1
Aroclor 1254	mg/kg	<0.1
Aroclor 1260	mg/kg	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1
Surrogate TCMX	%	102

Acid Extractable metals in soil					
Our Reference		266600-1	266600-2	266600-3	266600-4
Your Reference	UNITS	QA07-SOIL	QA05-SOIL	QA08-SOIL	QA06-SOIL
Date Sampled		13/04/2021	13/04/2021	13/04/2021	13/04/2021
Type of sample		SOIL	SOIL	SOIL	SOIL
Date prepared	-	16/04/2021	16/04/2021	16/04/2021	16/04/2021
Date analysed	-	16/04/2021	16/04/2021	16/04/2021	16/04/2021
Arsenic	mg/kg	8	7	8	10
Cadmium	mg/kg	<0.4	<0.4	<0.4	<0.4
Chromium	mg/kg	16	18	23	15
Copper	mg/kg	31	23	26	15
Lead	mg/kg	21	18	18	12
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1
Nickel	mg/kg	15	10	10	6
Zinc	mg/kg	72	38	44	26

Misc Soil - Inorg		
Our Reference		266600-4
Your Reference	UNITS	QA06-SOIL
Date Sampled		13/04/2021
Type of sample		SOIL
Date prepared	-	15/04/2021
Date analysed	-	15/04/2021
Total Phenolics (as Phenol)	mg/kg	<5

Moisture					
Our Reference		266600-1	266600-2	266600-3	266600-4
Your Reference	UNITS	QA07-SOIL	QA05-SOIL	QA08-SOIL	QA06-SOIL
Date Sampled		13/04/2021	13/04/2021	13/04/2021	13/04/2021
Type of sample		SOIL	SOIL	SOIL	SOIL
Date prepared	-	15/04/2021	15/04/2021	15/04/2021	15/04/2021
Date analysed	-	16/04/2021	16/04/2021	16/04/2021	16/04/2021
Moisture	%	23	17	9.2	16

Asbestos ID - soils NEPM - ASB-001				
Our Reference	UNITS	266600-1	266600-3	266600-4
Your Reference		QA07-SOIL	QA08-SOIL	QA06-SOIL
Date Sampled		13/04/2021	13/04/2021	13/04/2021
Type of sample		SOIL	SOIL	SOIL
Date analysed	-	21/04/2021	21/04/2021	21/04/2021
Sample mass tested	g	511.71	604.84	495.4
Sample Description	-	Brown coarse-grained soil & rocks	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	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos#1	g/kg	<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
ACM >7mm Estimation*	g	–	–	–
FA and AF Estimation*	g	–	–	–
ACM >7mm Estimation*	%(w/w)	<0.01	<0.01	<0.01
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001

Phenoxy Acid Herbicides in Soil		
Our Reference		266600-4
Your Reference	UNITS	QA06-SOIL
Date Sampled		13/04/2021
Type of sample		SOIL
Date extracted	-	19/04/2021
Date analysed	-	20/04/2021
Clopyralid	mg/kg	<0.5
3,5-Dichlorobenzoic acid	mg/kg	<0.5
o-chlorophenoxy acetic acid	mg/kg	<0.5
4-CPA	mg/kg	<0.5
Dicamba	mg/kg	<0.5
MCPP	mg/kg	<0.5
MCPA	mg/kg	<0.5
Dichlorprop	mg/kg	<0.5
2,4-D	mg/kg	<0.5
Bromoxynil	mg/kg	<0.5
Triclopyr	mg/kg	<0.5
2,4,5-TP	mg/kg	<0.5
2,4,5-T	mg/kg	<0.5
MCPB	mg/kg	<0.5
Dinoseb	mg/kg	<1
2,4-DB	mg/kg	<0.5
Ioxynil	mg/kg	<1
Picloram	mg/kg	<0.5
DCPA (Chlorthal) Diacid	mg/kg	<0.5
Acifluorfen	mg/kg	<2
2,4,6-T	mg/kg	<0.5
2,6-D	mg/kg	<0.5
Surrogate 2.4- DCPA	%	110

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.
Ext-054	Analysed by MPL Envirolab
Inorg-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
Inorg-031	Total Phenolics by segmented flow analyser (in line distillation with colourimetric finish). Solids are extracted in a caustic media prior to analysis.
Metals-020	Determination of various metals by ICP-AES.
Metals-021	Determination of Mercury by Cold Vapour AAS.
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.

Method ID	Methodology Summary
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-021	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.
Org-021	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD. Note, the Total +ve PCBs PQL is reflective of the lowest individual PQL and is therefore" Total +ve PCBs" is simply a sum of the positive individual PCBs.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-022/025	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-MS/GC-MSMS. Note, the Total +ve reported DDD+DDE+DDT PQL is reflective of the lowest individual PQL and is therefore simply a sum of the positive individually report DDD+DDE+DDT.
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-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-5	266600-4
Date extracted	-			15/04/2021	4	15/04/2021	15/04/2021		15/04/2021	15/04/2021
Date analysed	-			19/04/2021	4	19/04/2021	19/04/2021		19/04/2021	19/04/2021
TRH C_6 - C_9	mg/kg	25	Org-023	<25	4	<25	<25	0	103	106
TRH C_6 - C_{10}	mg/kg	25	Org-023	<25	4	<25	<25	0	103	106
Benzene	mg/kg	0.2	Org-023	<0.2	4	<0.2	<0.2	0	123	122
Toluene	mg/kg	0.5	Org-023	<0.5	4	<0.5	<0.5	0	112	111
Ethylbenzene	mg/kg	1	Org-023	<1	4	<1	<1	0	101	103
m+p-xylene	mg/kg	2	Org-023	<2	4	<2	<2	0	90	96
o-Xylene	mg/kg	1	Org-023	<1	4	<1	<1	0	96	100
naphthalene	mg/kg	1	Org-023	<1	4	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	99	4	93	104	11	105	108

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	266600-4
Date extracted	-			15/04/2021	4	15/04/2021	15/04/2021		15/04/2021	15/04/2021
Date analysed	-			16/04/2021	4	16/04/2021	16/04/2021		16/04/2021	16/04/2021
TRH C_{10} - C_{14}	mg/kg	50	Org-020	<50	4	<50	<50	0	117	125
TRH C_{15} - C_{28}	mg/kg	100	Org-020	<100	4	<100	<100	0	89	99
TRH C_{29} - C_{36}	mg/kg	100	Org-020	<100	4	<100	<100	0	92	83
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	<50	4	<50	<50	0	117	125
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	<100	4	<100	<100	0	89	99
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	<100	4	<100	<100	0	92	83
Surrogate o-Terphenyl	%		Org-020	109	4	108	97	11	116	88

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-8	266600-4
Date extracted	-			15/04/2021	4	16/04/2021	16/04/2021		15/04/2021	15/04/2021
Date analysed	-			16/04/2021	4	16/04/2021	16/04/2021		16/04/2021	16/04/2021
Naphthalene	mg/kg	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	95	122
Acenaphthylene	mg/kg	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	81	94
Fluorene	mg/kg	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	89	100
Phenanthrene	mg/kg	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	103	94
Anthracene	mg/kg	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	89	110
Pyrene	mg/kg	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	91	112
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	86	82
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	<0.2	4	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	<0.05	4	<0.05	<0.05	0	85	110
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	110	4	103	105	2	113	115

QUALITY CONTROL: Organochlorine Pesticides in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	266600-4
Date extracted	-			15/04/2021	4	15/04/2021	15/04/2021		15/04/2021	15/04/2021
Date analysed	-			16/04/2021	4	16/04/2021	16/04/2021		16/04/2021	16/04/2021
alpha-BHC	mg/kg	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	97	92
HCB	mg/kg	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	91	85
gamma-BHC	mg/kg	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	69	93
delta-BHC	mg/kg	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	103	110
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	105	112
gamma-Chlordane	mg/kg	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	104	91
Dieldrin	mg/kg	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	105	127
Endrin	mg/kg	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	84	104
Endosulfan II	mg/kg	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	94	106
Endrin Aldehyde	mg/kg	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	72	82
Methoxychlor	mg/kg	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	105	4	102	103	1	106	103

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-5	266600-4
Date extracted	-			15/04/2021	4	15/04/2021	15/04/2021		15/04/2021	15/04/2021
Date analysed	-			16/04/2021	4	16/04/2021	16/04/2021		16/04/2021	16/04/2021
Aroclor 1016	mg/kg	0.1	Org-021	<0.1	4	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021	<0.1	4	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021	<0.1	4	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021	<0.1	4	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021	<0.1	4	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021	<0.1	4	<0.1	<0.1	0	101	102
Aroclor 1260	mg/kg	0.1	Org-021	<0.1	4	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-021	105	4	102	103	1	106	103

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	266600-4
Date prepared	-			16/04/2021	4	16/04/2021	16/04/2021		16/04/2021	16/04/2021
Date analysed	-			16/04/2021	4	16/04/2021	16/04/2021		16/04/2021	16/04/2021
Arsenic	mg/kg	4	Metals-020	<4	4	10	11	10	106	94
Cadmium	mg/kg	0.4	Metals-020	<0.4	4	<0.4	<0.4	0	107	82
Chromium	mg/kg	1	Metals-020	<1	4	15	17	12	122	95
Copper	mg/kg	1	Metals-020	<1	4	15	13	14	119	106
Lead	mg/kg	1	Metals-020	<1	4	12	15	22	104	85
Mercury	mg/kg	0.1	Metals-021	<0.1	4	<0.1	<0.1	0	120	110
Nickel	mg/kg	1	Metals-020	<1	4	6	6	0	113	91
Zinc	mg/kg	1	Metals-020	<1	4	26	24	8	126	94

QUALITY CONTROL: Misc Soil - Inorg					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	266600-4
Date prepared	-			15/04/2021	[NT]	[NT]	[NT]	[NT]	15/04/2021	15/04/2021
Date analysed	-			15/04/2021	[NT]	[NT]	[NT]	[NT]	15/04/2021	15/04/2021
Total Phenolics (as Phenol)	mg/kg	5	Inorg-031	<5	[NT]	[NT]	[NT]	[NT]	103	97

QUALITY CONTROL: Phenoxy Acid Herbicides in Soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			19/04/2021	[NT]	[NT]	[NT]	[NT]	19/04/2021	[NT]
Date analysed	-			20/04/2021	[NT]	[NT]	[NT]	[NT]	20/04/2021	[NT]
Clopyralid	mg/kg	0.5	Ext-054	<0.5	[NT]	[NT]	[NT]	[NT]	120	[NT]
3,5-Dichlorobenzoic acid	mg/kg	0.5	Ext-054	<0.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
o-chlorophenoxy acetic acid	mg/kg	0.5	Ext-054	<0.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
4-CPA	mg/kg	0.5	Ext-054	<0.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dicamba	mg/kg	0.5	Ext-054	<0.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
MCPP	mg/kg	0.5	Ext-054	<0.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
MCPA	mg/kg	0.5	Ext-054	<0.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dichlorprop	mg/kg	0.5	Ext-054	<0.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
2,4-D	mg/kg	0.5	Ext-054	<0.5	[NT]	[NT]	[NT]	[NT]	86	[NT]
Bromoxynil	mg/kg	0.5	Ext-054	<0.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Triclopyr	mg/kg	0.5	Ext-054	<0.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
2,4,5-TP	mg/kg	0.5	Ext-054	<0.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
2,4,5-T	mg/kg	0.5	Ext-054	<0.5	[NT]	[NT]	[NT]	[NT]	104	[NT]
MCPB	mg/kg	0.5	Ext-054	<0.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dinoseb	mg/kg	1	Ext-054	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
2,4-DB	mg/kg	0.5	Ext-054	<0.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Ioxynil	mg/kg	1	Ext-054	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Picloram	mg/kg	0.5	Ext-054	<0.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
DCPA (Chlorthal) Diacid	mg/kg	0.5	Ext-054	<0.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Acifluorfen	mg/kg	2	Ext-054	<2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
2,4,6-T	mg/kg	0.5	Ext-054	<0.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
2,6-D	mg/kg	0.5	Ext-054	<0.5	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate 2.4- DCPA	%		Ext-054	110	[NT]	[NT]	[NT]	[NT]	94	[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.

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.

Acid Herbicides in Soil - analysed by Envirolab Mel, report no 25359.

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 60482

PROJECT NAME: Kemps Creek DSI

DATE NEEDED BY: Standard TAT

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

LABORATORY BATCH NO.:

SAMPLERS:

QC LEVEL: NEPM (2013)

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....rlill@jbsg.com.au; (3) .....cdagger@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs	Asbestos	OCPs/PCBs	Phenols	Herbicides	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
1	QA07_Soil	Soil	13-4-21		J+B		x	x	x	x							
2	QA05_Soil	↓	↓		J		x	x	x								
3	QA08_Soil				J+B		x	x	x	x							
4	QA06_Soil				J+B		x	x	x	x	x	x	x				

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

Job No: 266600

Date Received: 14/4/21

Time Received: 14:20

Received By: DF

Temp: Cool/Ambient

Ice/Icepack

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Ryan Lill DATE: 13-4-21	CONSIGNMENT NOTE NO.	NAME: Daniel	COOLER SEAL – (Yes) ..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 14/4/21	COOLER TEMP 14 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

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 266867

Client Details

Client	JBS & G (NSW & WA) Pty Ltd
Attention	C Dagger, R Lill
Address	Level 1, 50 Margaret St, Sydney, NSW, 2000

Sample Details

Your Reference	**60482, Kemps Creek DSI**
Number of Samples	4 SOIL, 2 WATER
Date samples received	16/04/2021
Date completed instructions received	16/04/2021

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

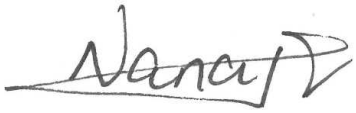
Date results requested by	23/04/2021
Date of Issue	21/04/2021

NATA Accreditation Number 2901. This document shall not be reproduced except in full.

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

Results Approved By
Alexander Mitchell Maclean, Senior Chemist
Dragana Tomas, Senior Chemist
Giovanni Agosti, Group Technical Manager

Authorised By



Nancy Zhang, Laboratory Manager

Acid Extractable metals in soil		
Our Reference		266867-3
Your Reference	UNITS	QA12-Soil
Date Sampled		15/03/2021
Type of sample		SOIL
Date prepared	-	20/04/2021
Date analysed	-	20/04/2021
Arsenic	mg/kg	<4
Cadmium	mg/kg	<0.4
Chromium	mg/kg	9
Copper	mg/kg	30
Lead	mg/kg	9
Mercury	mg/kg	<0.1
Nickel	mg/kg	40
Zinc	mg/kg	30

Moisture			
Our Reference		266867-1	266867-3
Your Reference	UNITS	QA10-Soil	QA12-Soil
Date Sampled		14/04/2021	15/03/2021
Type of sample		SOIL	SOIL
Date prepared	-	19/04/2021	19/04/2021
Date analysed	-	20/04/2021	20/04/2021
Moisture	%	4.8	2.6

PFAS in Soils Extended		
Our Reference		266867-1
Your Reference	UNITS	QA10-Soil
Date Sampled		14/04/2021
Type of sample		SOIL
Date prepared	-	19/04/2021
Date analysed	-	19/04/2021
Perfluorobutanesulfonic acid	µg/kg	<0.1
Perfluoropentanesulfonic acid	µg/kg	<0.1
Perfluorohexanesulfonic acid - PFHxS	µg/kg	<0.1
Perfluoroheptanesulfonic acid	µg/kg	<0.1
Perfluorooctanesulfonic acid PFOS	µg/kg	0.5
Perfluorodecanesulfonic acid	µg/kg	<0.2
Perfluorobutanoic acid	µg/kg	<0.2
Perfluoropentanoic acid	µg/kg	<0.2
Perfluorohexanoic acid	µg/kg	<0.1
Perfluoroheptanoic acid	µg/kg	<0.1
Perfluorooctanoic acid PFOA	µg/kg	<0.1
Perfluorononanoic acid	µg/kg	<0.1
Perfluorodecanoic acid	µg/kg	<0.5
Perfluoroundecanoic acid	µg/kg	<0.5
Perfluorododecanoic acid	µg/kg	<0.5
Perfluorotridecanoic acid	µg/kg	<0.5
Perfluorotetradecanoic acid	µg/kg	<5
4:2 FTS	µg/kg	<0.1
6:2 FTS	µg/kg	<0.1
8:2 FTS	µg/kg	<0.2
10:2 FTS	µg/kg	<0.2
Perfluorooctane sulfonamide	µg/kg	<1
N-Methyl perfluorooctane sulfonamide	µg/kg	<1
N-Ethyl perfluorooctanesulfon amide	µg/kg	<1
N-Me perfluorooctanesulfonamid oethanol	µg/kg	<1
N-Et perfluorooctanesulfonamid oethanol	µg/kg	<5
MePerfluorooctanesulf- amid oacetic acid	µg/kg	<0.2
EtPerfluorooctanesulf amid oacetic acid	µg/kg	<0.2
Surrogate $^{13}C_8$ *PFOS*	%	98
Surrogate $^{13}C_2$ *PFOA*	%	114
Extracted ISTD $^{13}C_3$ *PFBS*	%	66
Extracted ISTD $^{18}O_2$ *PFHxS*	%	106
Extracted ISTD $^{13}C_4$ *PFOS*	%	85
Extracted ISTD $^{13}C_4$ *PFBA*	%	94

PFAS in Soils Extended		
Our Reference		266867-1
Your Reference	UNITS	QA10-Soil
Date Sampled		14/04/2021
Type of sample		SOIL
Extracted ISTD $^{13}C_3$ *PFPeA*	%	72
Extracted ISTD $^{13}C_2$ *PFHxA*	%	97
Extracted ISTD $^{13}C_4$ *PFHpA*	%	80
Extracted ISTD $^{13}C_4$ *PFOA*	%	97
Extracted ISTD $^{13}C_5$ *PFNA*	%	111
Extracted ISTD $^{13}C_2$ *PFDA*	%	133
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	141
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	113
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	74
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	92
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	118
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	147
Extracted ISTD $^{13}C_8$ *FOSA*	%	86
Extracted ISTD d_3 *N MeFOSA*	%	79
Extracted ISTD d_5 *N EtFOSA*	%	82
Extracted ISTD d_7 *N MeFOSE*	%	137
Extracted ISTD d_9 *N EtFOSE*	%	114
Extracted ISTD d_3 *N MeFOSAA*	%	123
Extracted ISTD d_5 *N EtFOSAA*	%	103
Total Positive PFHxS & PFOS	µg/kg	0.5
Total Positive PFOS & PFOA	µg/kg	0.5
Total Positive PFAS	µg/kg	0.5

BTEX in Water			
Our Reference	UNITS	266867-4	266867-5
Your Reference		TS	TB
Date Sampled		15/03/2021	15/03/2021
Type of sample		WATER	WATER
Date extracted	-	19/04/2021	19/04/2021
Date analysed	-	20/04/2021	20/04/2021
Benzene	µg/L	78%	<1
Toluene	µg/L	86%	<1
Ethylbenzene	µg/L	99%	<1
m+p-xylene	µg/L	94%	<2
o-xylene	µg/L	94%	<1
Surrogate Dibromofluoromethane	%	98	98
Surrogate toluene-d8	%	101	102
Surrogate 4-BFB	%	100	100

Method ID	Methodology Summary
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.
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-029	Soil samples are extracted with basified Methanol. Waters and soil extracts are directly injected and/or concentrated/extracted using SPE. TCLPs/ASLP leachates are centrifuged, the supernatant is then analysed (including amendment with solvent) - as per the option in AS4439.3. Analysis is undertaken with LC-MS/MS. PFAS results include the sum of branched and linear isomers where applicable. Please note that PFAS results are corrected for Extracted Internal Standards (QSM 5.3 Table B-15 terminology), which are mass labelled analytes added prior to sample preparation to assess matrix effects and verify processing of the sample. PFAS analytes without a commercially available mass labelled analogue are corrected vs a closely eluting mass labelled PFAS compound. Surrogates are also reported, in this context they are mass labelled PFAS compounds added prior to extraction but are used as monitoring compounds only (not used for result correction). Envicarb (or similar) is used discretionally to remove interfering matrix components. Please contact the laboratory if estimates of Measurement Uncertainty are required as per WA DER.

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-15	[NT]
Date prepared	-			20/04/2021	[NT]	[NT]	[NT]	[NT]	20/04/2021	[NT]
Date analysed	-			20/04/2021	[NT]	[NT]	[NT]	[NT]	20/04/2021	[NT]
Arsenic	mg/kg	4	Metals-020	<4	[NT]	[NT]	[NT]	[NT]	107	[NT]
Cadmium	mg/kg	0.4	Metals-020	<0.4	[NT]	[NT]	[NT]	[NT]	109	[NT]
Chromium	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	104	[NT]
Copper	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	101	[NT]
Lead	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	101	[NT]
Mercury	mg/kg	0.1	Metals-021	<0.1	[NT]	[NT]	[NT]	[NT]	106	[NT]
Nickel	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	103	[NT]
Zinc	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	106	[NT]

QUALITY CONTROL: PFAS in Soils Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	[NT]
Date prepared	-			19/04/2021	[NT]	[NT]	[NT]	[NT]	19/04/2021	[NT]
Date analysed	-			19/04/2021	[NT]	[NT]	[NT]	[NT]	19/04/2021	[NT]
Perfluorobutanesulfonic acid	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	112	[NT]
Perfluoropentanesulfonic acid	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	91	[NT]
Perfluorohexanesulfonic acid - PFHxS	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	97	[NT]
Perfluoroheptanesulfonic acid	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	96	[NT]
Perfluorooctanesulfonic acid PFOS	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	92	[NT]
Perfluorodecanesulfonic acid	µg/kg	0.2	Org-029	<0.2	[NT]	[NT]	[NT]	[NT]	91	[NT]
Perfluorobutanoic acid	µg/kg	0.2	Org-029	<0.2	[NT]	[NT]	[NT]	[NT]	100	[NT]
Perfluoropentanoic acid	µg/kg	0.2	Org-029	<0.2	[NT]	[NT]	[NT]	[NT]	112	[NT]
Perfluorohexanoic acid	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	88	[NT]
Perfluoroheptanoic acid	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	109	[NT]
Perfluorooctanoic acid PFOA	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	94	[NT]
Perfluorononanoic acid	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	85	[NT]
Perfluorodecanoic acid	µg/kg	0.5	Org-029	<0.5	[NT]	[NT]	[NT]	[NT]	76	[NT]
Perfluoroundecanoic acid	µg/kg	0.5	Org-029	<0.5	[NT]	[NT]	[NT]	[NT]	90	[NT]
Perfluorododecanoic acid	µg/kg	0.5	Org-029	<0.5	[NT]	[NT]	[NT]	[NT]	97	[NT]
Perfluorotridecanoic acid	µg/kg	0.5	Org-029	<0.5	[NT]	[NT]	[NT]	[NT]	91	[NT]
Perfluorotetradecanoic acid	µg/kg	5	Org-029	<5	[NT]	[NT]	[NT]	[NT]	109	[NT]
4:2 FTS	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	115	[NT]
6:2 FTS	µg/kg	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	108	[NT]
8:2 FTS	µg/kg	0.2	Org-029	<0.2	[NT]	[NT]	[NT]	[NT]	103	[NT]
10:2 FTS	µg/kg	0.2	Org-029	<0.2	[NT]	[NT]	[NT]	[NT]	86	[NT]
Perfluorooctane sulfonamide	µg/kg	1	Org-029	<1	[NT]	[NT]	[NT]	[NT]	102	[NT]
N-Methyl perfluorooctane sulfonamide	µg/kg	1	Org-029	<1	[NT]	[NT]	[NT]	[NT]	99	[NT]
N-Ethyl perfluorooctanesulfon amide	µg/kg	1	Org-029	<1	[NT]	[NT]	[NT]	[NT]	102	[NT]
N-Me perfluorooctanesulfonamid oethanol	µg/kg	1	Org-029	<1	[NT]	[NT]	[NT]	[NT]	92	[NT]
N-Et perfluorooctanesulfonamid oethanol	µg/kg	5	Org-029	<5	[NT]	[NT]	[NT]	[NT]	90	[NT]
MePerfluorooctanesulf- amid oacetic acid	µg/kg	0.2	Org-029	<0.2	[NT]	[NT]	[NT]	[NT]	84	[NT]
EtPerfluorooctanesulf amid oacetic acid	µg/kg	0.2	Org-029	<0.2	[NT]	[NT]	[NT]	[NT]	94	[NT]
Surrogate $^{13}C_8$ *PFOS*	%		Org-029	102	[NT]	[NT]	[NT]	[NT]	100	[NT]
Surrogate $^{13}C_2$ *PFOA*	%		Org-029	112	[NT]	[NT]	[NT]	[NT]	107	[NT]

QUALITY CONTROL: PFAS in Soils Extended					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	[NT]
Extracted ISTD $^{13}C_3$ *PFBS*	%		Org-029	73	[NT]	[NT]	[NT]	[NT]	72	[NT]
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-029	106	[NT]	[NT]	[NT]	[NT]	101	[NT]
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-029	90	[NT]	[NT]	[NT]	[NT]	89	[NT]
Extracted ISTD $^{13}C_4$ *PFBA*	%		Org-029	97	[NT]	[NT]	[NT]	[NT]	94	[NT]
Extracted ISTD $^{13}C_3$ *PFPeA*	%		Org-029	78	[NT]	[NT]	[NT]	[NT]	77	[NT]
Extracted ISTD $^{13}C_2$ *PFHxA*	%		Org-029	98	[NT]	[NT]	[NT]	[NT]	98	[NT]
Extracted ISTD $^{13}C_4$ *PFHpA*	%		Org-029	85	[NT]	[NT]	[NT]	[NT]	84	[NT]
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-029	95	[NT]	[NT]	[NT]	[NT]	97	[NT]
Extracted ISTD $^{13}C_5$ *PFNA*	%		Org-029	100	[NT]	[NT]	[NT]	[NT]	101	[NT]
Extracted ISTD $^{13}C_2$ *PFDA*	%		Org-029	111	[NT]	[NT]	[NT]	[NT]	115	[NT]
Extracted ISTD $^{13}C_2$ *PFUnDA*	%		Org-029	106	[NT]	[NT]	[NT]	[NT]	107	[NT]
Extracted ISTD $^{13}C_2$ *PFDoDA*	%		Org-029	90	[NT]	[NT]	[NT]	[NT]	80	[NT]
Extracted ISTD $^{13}C_2$ *PFTeDA*	%		Org-029	82	[NT]	[NT]	[NT]	[NT]	76	[NT]
Extracted ISTD $^{13}C_2$ *4:2FTS*	%		Org-029	87	[NT]	[NT]	[NT]	[NT]	83	[NT]
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-029	90	[NT]	[NT]	[NT]	[NT]	89	[NT]
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-029	89	[NT]	[NT]	[NT]	[NT]	91	[NT]
Extracted ISTD $^{13}C_8$ *FOSA*	%		Org-029	90	[NT]	[NT]	[NT]	[NT]	86	[NT]
Extracted ISTD d_3 *N MeFOSA*	%		Org-029	78	[NT]	[NT]	[NT]	[NT]	80	[NT]
Extracted ISTD d_5 *N EtFOSA*	%		Org-029	74	[NT]	[NT]	[NT]	[NT]	80	[NT]
Extracted ISTD d_7 *N MeFOSE*	%		Org-029	125	[NT]	[NT]	[NT]	[NT]	128	[NT]

QUALITY CONTROL: PFAS in Soils Extended					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-2	[NT]
Extracted ISTD d_9 *N EtFOSE*	%		Org-029	110	[NT]	[NT]	[NT]	[NT]	115	[NT]
Extracted ISTD d_3 *N MeFOSAA*	%		Org-029	93	[NT]	[NT]	[NT]	[NT]	105	[NT]
Extracted ISTD d_5 *N EtFOSAA*	%		Org-029	94	[NT]	[NT]	[NT]	[NT]	104	[NT]

QUALITY CONTROL: BTEX in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date extracted	-			19/04/2021	[NT]	[NT]	[NT]	[NT]	19/04/2021	[NT]
Date analysed	-			20/04/2021	[NT]	[NT]	[NT]	[NT]	20/04/2021	[NT]
Benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	102	[NT]
Toluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	103	[NT]
Ethylbenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	108	[NT]
m+p-xylene	µg/L	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	109	[NT]
o-xylene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	104	[NT]
Surrogate Dibromofluoromethane	%		Org-023	100	[NT]	[NT]	[NT]	[NT]	97	[NT]
Surrogate toluene-d8	%		Org-023	102	[NT]	[NT]	[NT]	[NT]	100	[NT]
Surrogate 4-BFB	%		Org-023	101	[NT]	[NT]	[NT]	[NT]	99	[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.: 60482

PROJECT NAME: Kemps Creek DSI

DATE NEEDED BY: Standard TAT

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

LABORATORY BATCH NO.:

SAMPLERS:

QC LEVEL: NEPM (2013)

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....rlill@jbsg.com.au; (3) .....cdagger@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRHs/BTEX	PAHs	Asbestos	OCPs/PCBs	Phenols	Herbicides	PFAS	BTEX	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
~~1~~	~~TEST~~	Soil	14-4-21															
1	QA10-Soil	↓	↓		PFAS									X				
2	QA11-Soil	↓	↓		Jar													
3	QA12-Soil	↓	15-4-21		Jar													
4	TS	↓	↓		2xV		X											
5	TB	↓	↓		2xV										X			
6	(extra) QA09_Soil AD														X			

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

Job No: 266867

Date Received: 16/4/21

Time Received: 10:50

Received By: AB

Temp: Cool/Ambient

Cooling: Ice/Icepack

Security: Intact/Broken/None

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Ryan Lill DATE: 15-4-21	CONSIGNMENT NOTE NO.	NAME: A-BAI	COOLER SEAL – Yes..... No..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 16/4/21	
NAME: DATE:	CONSIGNMENT NOTE NO.	OF: ENSW 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

Chain of Custody

1081006

JBS&G

PROJECT NO.: ALDINGTON 04	LABORATORY BATCH NO.:
PROJECT NAME: 66105	SAMPLERS: MASSIMO CHARMAN
DATE NEEDED BY: 48 HR.	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) .....@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:
1x - 01	SOIL	22/3/24		3502		X		X	
02									
03									
04									
05									
06									
07									
08									
09									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: MASSIMO CHARMAN DATE: 22/3/24	CONSIGNMENT NOTE NO.	NAME: Blakeout	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 6:30 pm	COOLER TEMP ..... deg C N/A
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME:	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

22/3/24

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Chain of Custody

JBS&G

PROJECT NO.: ADDINGTON – 04
PROJECT NAME: 66105
DATE NEEDED BY: 48 HR

LABORATORY BATCH NO.:
SAMPLERS: MASSIMO CHAPMAN.
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) melbourne.....@jbsg.com.au; (3) .....Sknott.....@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:
~~TX~~ – 20	SOIL	22/3/24		BAG.		X		X	
21									
TP07 – E									
S									
W									
N									
B									
BC – 01									
02									
03									
04									
05									
06									
07									
08									
09									
10									
11									
12									

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: MASSIMO CHAPMAN DATE: 22/3/24 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.:	LABORATORY BATCH NO.:
PROJECT NAME:	SAMPLERS:
DATE NEEDED BY:	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) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	AS bedtops	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
BC - 13	SOIL	22/3/24		PAE		X		X	
↓ 14	↓	↓		↓		↓		↓	
↓ 15									
↓ 16									
QC03									
QC04									

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: MASSIMO DATE: 22/3/24	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G CHASTOMER	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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Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

Eurofins ARL Pty Ltd

ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
NATA# 2377
Site# 2370

Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

Auckland	Auckland (Asb)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,
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+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Massimo Chapman
Project name:	ALDINGTON_04
Project ID:	66105
Turnaround time:	2 Day
Date/Time received	Mar 22, 2024 6:30 PM
Eurofins reference	1081006

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

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 Massimo Chapman - mchapman@jbsg.com.au.

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
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ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
NATA# 2377
Site# 2370

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NZBN: 9429046024954

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+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: ALDINGTON_04
Project ID: 66105

Order No.:
Report #: 1081006
Phone: 02 8245 0300
Fax:

Received: Mar 22, 2024 6:30 PM
Due: Mar 26, 2024
Priority: 2 Day
Contact Name: Massimo Chapman

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	IX_01	Mar 22, 2024		Soil	S24-Ma0056361	X
2	IX_02	Mar 22, 2024		Soil	S24-Ma0056362	X
3	IX_03	Mar 22, 2024		Soil	S24-Ma0056363	X
4	IX_04	Mar 22, 2024		Soil	S24-Ma0056364	X
5	IX_05	Mar 22, 2024		Soil	S24-Ma0056365	X
6	IX_06	Mar 22, 2024		Soil	S24-Ma0056366	X
7	IX_07	Mar 22, 2024		Soil	S24-Ma0056367	X
8	IX_08	Mar 22, 2024		Soil	S24-Ma0056368	X
9	IX_09	Mar 22, 2024		Soil	S24-Ma0056369	X
10	IX_10	Mar 22, 2024		Soil	S24-Ma0056370	X
11	IX_11	Mar 22, 2024		Soil	S24-Ma0056371	X
12	IX_12	Mar 22, 2024		Soil	S24-Ma0056372	X
13	IX_13	Mar 22, 2024		Soil	S24-Ma0056373	X

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

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ABN: 91 05 0159 898

Perth
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Welshpool
WA 6106
+61 8 6253 4444
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+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: ALDINGTON_04
Project ID: 66105

Order No.:
Report #: 1081006
Phone: 02 8245 0300
Fax:

Received: Mar 22, 2024 6:30 PM
Due: Mar 26, 2024
Priority: 2 Day
Contact Name: Massimo Chapman

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
14	IX_14	Mar 22, 2024		Soil	S24-Ma0056374	X
15	IX_15	Mar 22, 2024		Soil	S24-Ma0056375	X
16	IX_16	Mar 22, 2024		Soil	S24-Ma0056376	X
17	IX_17	Mar 22, 2024		Soil	S24-Ma0056377	X
18	IX_18	Mar 22, 2024		Soil	S24-Ma0056378	X
19	IX_19	Mar 22, 2024		Soil	S24-Ma0056379	X
20	IX_20	Mar 22, 2024		Soil	S24-Ma0056380	X
21	IX_21	Mar 22, 2024		Soil	S24-Ma0056381	X
22	TP09-E	Mar 22, 2024		Soil	S24-Ma0056382	X
23	TP09-S	Mar 22, 2024		Soil	S24-Ma0056383	X
24	TP09-W	Mar 22, 2024		Soil	S24-Ma0056384	X
25	TP09-N	Mar 22, 2024		Soil	S24-Ma0056385	X
26	TP09-B	Mar 22, 2024		Soil	S24-Ma0056386	X
27	6C_01	Mar 22, 2024		Soil	S24-Ma0056387	X
28	6C_02	Mar 22, 2024		Soil	S24-Ma0056388	X
29	6C_03	Mar 22, 2024		Soil	S24-Ma0056389	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	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

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ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
NATA# 2377
Site# 2370

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NZBN: 9429046024954

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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: ALDINGTON_04
Project ID: 66105

Order No.:
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Phone: 02 8245 0300
Fax:

Received: Mar 22, 2024 6:30 PM
Due: Mar 26, 2024
Priority: 2 Day
Contact Name: Massimo Chapman

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
30	6C_04	Mar 22, 2024		Soil	S24-Ma0056390	X
31	6C_05	Mar 22, 2024		Soil	S24-Ma0056391	X
32	6C_06	Mar 22, 2024		Soil	S24-Ma0056392	X
33	6C_07	Mar 22, 2024		Soil	S24-Ma0056393	X
34	6C_08	Mar 22, 2024		Soil	S24-Ma0056394	X
35	6C_09	Mar 22, 2024		Soil	S24-Ma0056395	X
36	6C_10	Mar 22, 2024		Soil	S24-Ma0056396	X
37	6C_11	Mar 22, 2024		Soil	S24-Ma0056397	X
38	6C_12	Mar 22, 2024		Soil	S24-Ma0056398	X
39	6C_13	Mar 22, 2024		Soil	S24-Ma0056399	X
40	6C_14	Mar 22, 2024		Soil	S24-Ma0056400	X
41	6C_15	Mar 22, 2024		Soil	S24-Ma0056401	X
42	6C_16	Mar 22, 2024		Soil	S24-Ma0056402	X
43	QC03	Mar 22, 2024		Soil	S24-Ma0056403	X
44	QC04	Mar 22, 2024		Soil	S24-Ma0056404	X
Test Counts						44

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention:	Massimo Chapman
Report	1081006-AID
Project Name	ALDINGTON_04
Project ID	66105
Received Date	Mar 22, 2024
Date Reported	Mar 27, 2024

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 ALDINGTON_04
Project ID 66105
Date Sampled Mar 22, 2024
Report 1081006-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
IX_01	24-Ma0056361	Mar 22, 2024	Approximate Sample 617g Sample consisted of: Brown fine-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.
IX_02	24-Ma0056362	Mar 22, 2024	Approximate Sample 402g / >500ml Sample consisted of: Brown fine-grained clayey sandy soil, plant matter and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
IX_03	24-Ma0056363	Mar 22, 2024	Approximate Sample 756g Sample consisted of: Brown fine-grained clayey sandy soil, plant matter and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Synthetic mineral fibre detected. Organic fibre detected. No trace asbestos detected.
IX_04	24-Ma0056364	Mar 22, 2024	Approximate Sample 652g Sample consisted of: Brown fine-grained clayey sandy soil, plant matter and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
IX_05	24-Ma0056365	Mar 22, 2024	Approximate Sample 732g Sample consisted of: Brown fine-grained clayey sandy soil, plant matter and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
IX_06	24-Ma0056366	Mar 22, 2024	Approximate Sample 700g Sample consisted of: Brown fine-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.
IX_07	24-Ma0056367	Mar 22, 2024	Approximate Sample 522g Sample consisted of: Brown fine-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.
IX_08	24-Ma0056368	Mar 22, 2024	Approximate Sample 494g / >500ml Sample consisted of: Brown fine-grained clayey sandy soil, plant matter 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
IX_09	24-Ma0056369	Mar 22, 2024	Approximate Sample 570g Sample consisted of: Brown fine-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.
IX_10	24-Ma0056370	Mar 22, 2024	Approximate Sample 518g 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.
IX_11	24-Ma0056371	Mar 22, 2024	Approximate Sample 450g / >500ml 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.
IX_12	24-Ma0056372	Mar 22, 2024	Approximate Sample 420g / >500ml Sample consisted of: Brown fine-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.
IX_13	24-Ma0056373	Mar 22, 2024	Approximate Sample 311g / >500ml Sample consisted of: Brown fine-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.
IX_14	24-Ma0056374	Mar 22, 2024	Approximate Sample 487g / >500ml Sample consisted of: Brown fine-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.
IX_15	24-Ma0056375	Mar 22, 2024	Approximate Sample 559g 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.
IX_16	24-Ma0056376	Mar 22, 2024	Approximate Sample 524g Sample consisted of: Brown fine-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.
IX_17	24-Ma0056377	Mar 22, 2024	Approximate Sample 346g / >500ml Sample consisted of: Brown fine-grained clayey sandy soil, plant matter and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
IX_18	24-Ma0056378	Mar 22, 2024	Approximate Sample 483g / >500ml 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.
IX_19	24-Ma0056379	Mar 22, 2024	Approximate Sample 568g Sample consisted of: Brown fine-grained clayey sandy soil, plant matter and rocks	FA: Chrysotile asbestos detected in weathered fibre cement material. Approximate raw weight of FA = 0.019g Estimated asbestos content in FA = 0.0056g* Total estimated asbestos concentration in FA = 0.00099% 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
IX_20	24-Ma0056380	Mar 22, 2024	Approximate Sample 598g 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.
IX_21	24-Ma0056381	Mar 22, 2024	Approximate Sample 599g 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.
TP09-E	24-Ma0056382	Mar 22, 2024	Approximate Sample 760g Sample consisted of: Brown fine-grained clayey sandy soil, sand stone, bitumen like material and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP09-S	24-Ma0056383	Mar 22, 2024	Approximate Sample 501g 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.
TP09-W	24-Ma0056384	Mar 22, 2024	Approximate Sample 621g 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.
TP09-N	24-Ma0056385	Mar 22, 2024	Approximate Sample 595g 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.
TP09-B	24-Ma0056386	Mar 22, 2024	Approximate Sample 618g 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.
6C_01	24-Ma0056387	Mar 22, 2024	Approximate Sample 765g Sample consisted of: Black fine-grained clayey sandy soil, bitumen like material and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
6C_02	24-Ma0056388	Mar 22, 2024	Approximate Sample 567g Sample consisted of: Black fine-grained clayey sandy soil, organic debris, bitumen like material and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
6C_03	24-Ma0056389	Mar 22, 2024	Approximate Sample 599g 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.
6C_04	24-Ma0056390	Mar 22, 2024	Approximate Sample 544g 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.
6C_05	24-Ma0056391	Mar 22, 2024	Approximate Sample 529g Sample consisted of: Grey coarse-grained clayey sandy soil, sand stone, organic debris and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
6C_06	24-Ma0056392	Mar 22, 2024	Approximate Sample 542g Sample consisted of: Brown fine-grained clayey sandy soil, plant matter 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
6C_07	24-Ma0056393	Mar 22, 2024	Approximate Sample 681g Sample consisted of: Red-Brown coarse-grained clayey soil and rocks	AF: Chrysotile asbestos detected in the form of loose fibre bundles. Approximate raw weight of AF = 0.94g* Estimated asbestos content in AF = 0.90g* Total estimated asbestos concentration in AF = 0.13% w/w* Organic fibre detected. No trace asbestos detected.
6C_08	24-Ma0056394	Mar 22, 2024	Approximate Sample 825g Sample consisted of: Brown fine-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.
6C_09	24-Ma0056395	Mar 22, 2024	Approximate Sample 604g Sample consisted of: Brown fine-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.
6C_10	24-Ma0056396	Mar 22, 2024	Approximate Sample 831g Sample consisted of: Black fine-grained clayey sandy soil, bitumen like material and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
6C_11	24-Ma0056397	Mar 22, 2024	Approximate Sample 540g Sample consisted of: Brown fine-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.
6C_12	24-Ma0056398	Mar 22, 2024	Approximate Sample 630g 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.
6C_13	24-Ma0056399	Mar 22, 2024	Approximate Sample 720g Sample consisted of: Brown fine-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.
6C_14	24-Ma0056400	Mar 22, 2024	Approximate Sample 849g Sample consisted of: Brown fine-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.
6C_15	24-Ma0056401	Mar 22, 2024	Approximate Sample 487g / >500ml 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.
6C_16	24-Ma0056402	Mar 22, 2024	Approximate Sample 500g Sample consisted of: Brown fine-grained 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.
QC03	24-Ma0056403	Mar 22, 2024	Approximate Sample 592g 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.
QC04	24-Ma0056404	Mar 22, 2024	Approximate Sample 843g Sample consisted of: Black fine-grained clayey sandy soil, bitumen like material 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, 2024	Indefinite

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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
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
NATA# 2377
Site# 2370

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland	Auckland (Asb)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,
Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: ALDINGTON_04
Project ID: 66105

Order No.:
Report #: 1081006
Phone: 02 8245 0300
Fax:

Received: Mar 22, 2024 6:30 PM
Due: Mar 26, 2024
Priority: 2 Day
Contact Name: Massimo Chapman

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	IX_01	Mar 22, 2024		Soil	S24-Ma0056361	X
2	IX_02	Mar 22, 2024		Soil	S24-Ma0056362	X
3	IX_03	Mar 22, 2024		Soil	S24-Ma0056363	X
4	IX_04	Mar 22, 2024		Soil	S24-Ma0056364	X
5	IX_05	Mar 22, 2024		Soil	S24-Ma0056365	X
6	IX_06	Mar 22, 2024		Soil	S24-Ma0056366	X
7	IX_07	Mar 22, 2024		Soil	S24-Ma0056367	X
8	IX_08	Mar 22, 2024		Soil	S24-Ma0056368	X
9	IX_09	Mar 22, 2024		Soil	S24-Ma0056369	X
10	IX_10	Mar 22, 2024		Soil	S24-Ma0056370	X
11	IX_11	Mar 22, 2024		Soil	S24-Ma0056371	X
12	IX_12	Mar 22, 2024		Soil	S24-Ma0056372	X
13	IX_13	Mar 22, 2024		Soil	S24-Ma0056373	X

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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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Contact Name: Massimo Chapman

Eurofins Analytical Services Manager : Andrew Black

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Sydney Laboratory - NATA # 1261 Site # 18217						X
14	IX_14	Mar 22, 2024		Soil	S24-Ma0056374	X
15	IX_15	Mar 22, 2024		Soil	S24-Ma0056375	X
16	IX_16	Mar 22, 2024		Soil	S24-Ma0056376	X
17	IX_17	Mar 22, 2024		Soil	S24-Ma0056377	X
18	IX_18	Mar 22, 2024		Soil	S24-Ma0056378	X
19	IX_19	Mar 22, 2024		Soil	S24-Ma0056379	X
20	IX_20	Mar 22, 2024		Soil	S24-Ma0056380	X
21	IX_21	Mar 22, 2024		Soil	S24-Ma0056381	X
22	TP09-E	Mar 22, 2024		Soil	S24-Ma0056382	X
23	TP09-S	Mar 22, 2024		Soil	S24-Ma0056383	X
24	TP09-W	Mar 22, 2024		Soil	S24-Ma0056384	X
25	TP09-N	Mar 22, 2024		Soil	S24-Ma0056385	X
26	TP09-B	Mar 22, 2024		Soil	S24-Ma0056386	X
27	6C_01	Mar 22, 2024		Soil	S24-Ma0056387	X
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29	6C_03	Mar 22, 2024		Soil	S24-Ma0056389	X

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

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46-48 Banksia Road
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44	QC04	Mar 22, 2024		Soil	S24-Ma0056404	X
Test Counts						44

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**). This estimate is not NATA-accredited.
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	N/A
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Asbestos Counter/Identifier:

Sayeed Abu	Senior Analyst-Asbestos

Authorised by:

Laxman Dias	Senior Analyst-Asbestos

Glenn Jackson
Managing Director

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.: 66105	LABORATORY BATCH NO.:
PROJECT NAME: Aldington Dr - 263	SAMPLERS: SK
DATE NEEDED BY: Overnight	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) .....SRnott.....@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

Overnight TAT

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
UF2-EW4	Soil	26.3		A. Bag		1		X	
UF2-EW5						2		X	
UF2-WW4						X		X	
UF2-WW5						7		X	
IE-20A						X		X	
IE-2019A						X		X	
QC260324						7		X	
UF1-01						X		X	
UF1-02						X		X	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Sam Knott DATE: 26.3.24	CONSIGNMENT NOTE NO.	NAME: [illegible]	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 26/3/24 5:30	COOLER TEMP 10.4 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

1081847

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www.eurofins.com.au EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

Eurofins ARL Pty Ltd

ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
NATA# 2377
Site# 2370

Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

Auckland	Auckland (Asb)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,
Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Samuel Knott
Project name:	ALDINGTON-263
Project ID:	66105
Turnaround time:	Overnight
Date/Time received	Mar 26, 2024 5:30 PM
Eurofins reference	1081847

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 Samuel Knott - sknott@jbsg.com.au.

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eurofins

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: ALDINGTON-263
Project ID: 66105

Order No.:
Report #: 1081847
Phone: 02 8245 0300
Fax:

Received: Mar 26, 2024 5:30 PM
Due: Mar 27, 2024
Priority: Overnight
Contact Name: Samuel Knott

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	UF2-EW4	Mar 26, 2024		Soil	S24-Ma0063222	X
2	UF2-EW5	Mar 26, 2024		Soil	S24-Ma0063223	X
3	UF2-WW4	Mar 26, 2024		Soil	S24-Ma0063224	X
4	UF2-WW5	Mar 26, 2024		Soil	S24-Ma0063225	X
5	IE-20A	Mar 26, 2024		Soil	S24-Ma0063226	X
6	IE-19A	Mar 26, 2024		Soil	S24-Ma0063227	X
7	QC260324	Mar 26, 2024		Soil	S24-Ma0063228	X
8	UF1-01	Mar 26, 2024		Soil	S24-Ma0063229	X
9	UF1-02	Mar 26, 2024		Soil	S24-Ma0063230	X
Test Counts						9

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:	Samuel Knott
Report	1081847-AID
Project Name	ALDINGTON-263
Project ID	66105
Received Date	Mar 26, 2024
Date Reported	Mar 27, 2024

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 ALDINGTON-263
Project ID 66105
Date Sampled Mar 26, 2024
Report 1081847-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
UF2-EW4	24-Ma0063222	Mar 26, 2024	Approximate Sample 657g 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.
UF2-EW5	24-Ma0063223	Mar 26, 2024	Approximate Sample 576g 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.
UF2-WW4	24-Ma0063224	Mar 26, 2024	Approximate Sample 573g 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.
UF2-WW5	24-Ma0063225	Mar 26, 2024	Approximate Sample 525g 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.
IE-20A	24-Ma0063226	Mar 26, 2024	Approximate Sample 566g 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.
IE-19A	24-Ma0063227	Mar 26, 2024	Approximate Sample 491g 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.
QC260324	24-Ma0063228	Mar 26, 2024	Approximate Sample 647g 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
UF1-01	24-Ma0063229	Mar 26, 2024	Approximate Sample 725.5g Sample consisted of: Brown fine-grained clayey soil, cement and rocks	AF: Chrysotile asbestos detected in fibre cement fragments. Approximate raw weight of AF = 0.0048g* Estimated asbestos content in AF = 0.00048g* Total estimated asbestos concentration in AF = 0.000066% w/w* No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected.
UF1-02	24-Ma0063230	Mar 26, 2024	Approximate Sample 520g Sample consisted of: Brown fine-grained clayey soil, plaster material 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 26, 2024	Indefinite

eurofins

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

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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	UF2-EW4	Mar 26, 2024		Soil	S24-Ma0063222	X
2	UF2-EW5	Mar 26, 2024		Soil	S24-Ma0063223	X
3	UF2-WW4	Mar 26, 2024		Soil	S24-Ma0063224	X
4	UF2-WW5	Mar 26, 2024		Soil	S24-Ma0063225	X
5	IE-20A	Mar 26, 2024		Soil	S24-Ma0063226	X
6	IE-19A	Mar 26, 2024		Soil	S24-Ma0063227	X
7	QC260324	Mar 26, 2024		Soil	S24-Ma0063228	X
8	UF1-01	Mar 26, 2024		Soil	S24-Ma0063229	X
9	UF1-02	Mar 26, 2024		Soil	S24-Ma0063230	X
Test Counts						9

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**). This estimate is not NATA-accredited.
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

24-Ma0063227, 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	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
Managing Director

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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Attachment 5 – JBS&G Logs

TEST PIT TP101

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 12-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** CD

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		ML-CL	Clayey Silt, dark brown, dry to damp, heterogeneous, low plasticity, soft with no inclusions		TP101_0.0-0.1	0.1	No odours, staining or ACM observed.
				CL	Clay - light brown mottled orange, damp, homogeneous, moderate to high plasiticty, stiff				
		0.2					TP101_0.2-0.3	0.1	No odours, staining or ACM observed.
		0.3							
		0.4							
		0.5							
		0.6			Termination Depth at: 0.6 m.				
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP102

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 12-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** CD

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		ML-CL	Clayey Silt, dark brown, dry to damp, heterogeneous, low plasticity, soft with trace inclusions of claystone gravels		TP102_0.0-0.1	0	No odours, staining or ACM observed.
		0.2							
		0.3		CL	Clay - light brown mottled orange, damp, homogeneous, moderate to high plasiticty, stiff		TP102_0.3-0.4	0	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6							
		0.7							
		0.8			Termination Depth at: 0.8 m.				
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP103

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 12-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** CD

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		ML-CL	Clayey Silt, dark brown, dry to damp, heterogeneous, low plasticity, soft with no inclusions		TP103_0.0-0.1	0	No odours, staining or ACM observed.
		0.2							
		0.3		CL	Clay - light brown mottled orange, damp, homogeneous, moderate to high plasiticty, stiff		TP103_0.3-0.4	0.1	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6							
		0.7							
		0.8			Termination Depth at: 0.8 m.				
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP104

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 12-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** CD

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		ML-CL	Clayey Silt, dark brown, dry to damp, heterogeneous, low plasticity, soft with no inclusions		TP104_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - light brown mottled orange, damp, homogeneous, moderate to high plasiticty, stiff				
		0.3							
		0.4					TP104_0.4-0.5	0	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP105

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 12-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** CD

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		ML-CL	Clayey Silt, dark brown, dry to damp, heterogeneous, low plasticity, soft with no inclusions		TP105_0.0-0.1	0.1	No odours, staining or ACM observed.
		0.2							
		0.3					TP105_0.3-0.4	0	No odours, staining or ACM observed.
		0.4							
		0.5		CL	Clay - light brown mottled orange, damp, homogeneous, moderate to high plasiticty, stiff				
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP106

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 12-Apr-21
DRILL RIG
DRILLING METHOD
DIMENSIONS 1.5 x 0.4 m

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY CD

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1 0.2 0.3 0.4		ML-CL	Clayey Silt, dark brown, dry to damp, heterogeneous, low plasticity, soft with no inclusions		TP106_0.0-0.1	0.2	No odours, staining or ACM observed.
		0.5 0.6 0.7 0.8 0.9		CL	Clay - light brown mottled orange, damp, homogeneous, moderate to high plasiticty, stiff		TP106_0.5-0.6	0	No odours, staining or ACM observed.
		1 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9			Termination Depth at: 0.9 m.				

TEST PIT TP107

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 12-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** CD

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		ML-CL	Clayey Silt, dark brown, dry to damp, heterogeneous, low plasticity, soft with no inclusions		TP107_0.0-0.1	0.1	No odours, staining or ACM observed.
				CL	Clay - light brown mottled orange, damp, homogeneous, moderate to high plasiticty, stiff				
		0.2					TP107_0.2-0.3	0	No odours, staining or ACM observed.
		0.3							
		0.4							
		0.5							
		0.6			Termination Depth at: 0.6 m.				
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP108

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 12-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** CD

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		ML-CL	Clayey Silt, dark brown, dry to damp, heterogeneous, low plasticity, soft with no inclusions				
		0.2		CL	Clay - light brown mottled orange, damp, homogeneous, moderate to high plasiticty, stiff		TP108_0.2-0.3	0	No odours, staining or ACM observed.
		0.3							
		0.4							
		0.5							
		0.6			Termination Depth at: 0.6 m.				
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP109

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 12-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** CD

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		ML-CL	Clayey Silt, dark brown, dry to damp, heterogeneous, low plasticity, soft with no inclusions		TP109_0.0-0.1	0	No odours, staining or ACM observed.
		0.2							
		0.3		CL	Clay - light brown mottled orange, damp, homogeneous, moderate to high plasiticty, stiff		TP109_0.3-0.4	0.2	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6							
		0.7							
		0.8			Termination Depth at: 0.8 m.				
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP110

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 12-Apr-21
DRILL RIG
DRILLING METHOD
DIMENSIONS 1.5 x 0.4 m

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		ML-CL	Silty Clay, blackish brown, damp, heterogeneous, low plasticity, firm with trace inclusions of rootlets		TP110_0.0-0.1	0.1	No odours, staining or ACM observed.
		0.3		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.5					TP110_0.5-0.6	0	No odours, staining or ACM observed.
		0.8			Termination Depth at: 0.8 m.				
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP111

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 12-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** RL

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		ML-CL	Silty Clay, blackish brown, damp, heterogeneous, low plasticity, firm with trace inclusions of rootlets				No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP112

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 12-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** CD

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		ML-CL	Clayey Silt, dark brown, dry to damp, heterogeneous, low plasticity, soft with no inclusions		TP112_0.0-0.1	0.1	No odours, staining or ACM observed.
		0.2		CL	Clay - light brown mottled orange, damp, homogeneous, moderate to high plasiticty, stiff				
		0.3					TP112_0.3-0.4	0.1	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP113

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 12-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** CD

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		ML-CL	Clayey Silt, dark brown, dry to damp, heterogeneous, low plasticity, soft with no inclusions		TP113_0.0-0.1	0	No odours, staining or ACM observed.
		0.2							
		0.3		CL	Clay - light brown mottled orange, damp, homogeneous, moderate to high plasiticty, stiff				
		0.4					TP113_0.4-0.5	0.1	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7							
		0.8			Termination Depth at: 0.8 m.				
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP114

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 12-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** CD

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		ML-CL	Clayey Silt, dark brown, dry to damp, heterogeneous, low plasticity, soft with no inclusions		TP114_0.0-0.1	0.1	No odours, staining or ACM observed.
		0.2		CL	Clay - light brown mottled orange, damp, homogeneous, moderate to high plasiticty, stiff		TP114_0.3-0.4	0	No odours, staining or ACM observed.
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP115

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 12-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** CD

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		ML-CL	Clayey Silt, dark brown, dry to damp, heterogeneous, low plasticity, soft with trace inclusions of claystone gravels		TP115_0.0-0.1	0	No odours, staining or ACM observed.
		0.2							
		0.3		CL	Clay - light brown mottled orange, damp, homogeneous, moderate to high plasiticty, stiff		TP115_0.3-0.4	0	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6							
		0.7							
		0.8			Termination Depth at: 0.8 m.				
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP116

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 12-Apr-21
DRILL RIG
DRILLING METHOD
DIMENSIONS 1.5 x 0.4 m

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY CD

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2 0.4 0.6 0.8 1 1.2 1.4 1.6 1.8 2 2.2 2.4 2.6 2.8 3 3.2 3.4		ML-CL	Clayey Silt, dark brown, dry to damp, heterogeneous, low plasticity, soft with trace inclusions of gravel cobbles, terracotta, brick, concrete and glass		TP116 0-0.1 TP116_1.0-2.0 TP116_2.0-3.0	 0 0	 No odours, staining or ACM observed. No odours, staining or ACM observed.
		3.6 3.8 4 4.2 4.4 4.6 4.8		CL	Clay - light brown mottled orange, damp, homogeneous, moderate to high plasiticty, stiff Termination Depth at: 3.5 m.				

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TEST PIT TP117

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 12-Apr-21
DRILL RIG
DRILLING METHOD
DIMENSIONS 1.5 x 0.4 m

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY CD

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		ML-CL	Clayey Silt, dark brown, dry to damp, heterogeneous, low plasticity, soft with no inclusions		TP117_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - light brown mottled orange, damp, homogeneous, moderate to high plasiticty, stiff				
		0.3					TP117_0.3-0.4	0.1	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP118

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 12-Apr-21
DRILL RIG
DRILLING METHOD
DIMENSIONS 1.5 x 0.4 m

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY CD

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		ML-CL	Clayey Silt, dark brown, dry to damp, heterogeneous, low plasticity, soft with no inclusions		TP118_0.0-0.1	0.1	No odours, staining or ACM observed.
		0.3		CL	Clay - light brown mottled orange, damp, homogeneous, moderate to high plasiticty, stiff		TP118_0.4-0.5	0	No odours, staining or ACM observed.
		0.8			Termination Depth at: 0.8 m.				

TEST PIT TP119

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 12-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** CD

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		ML-CL	Clayey Silt, dark brown, dry to damp, heterogeneous, low plasticity, soft with no inclusions		TP119_0.0-0.1	0.1	No odours, staining or ACM observed.
				CL	Clay - light brown mottled orange, damp, homogeneous, moderate to high plasiticty, stiff				
		0.2					TP119_0.2-0.3	0.1	No odours, staining or ACM observed.
		0.3							
		0.4							
		0.5							
		0.6			Termination Depth at: 0.6 m.				
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP120

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 12-Apr-21
DRILL RIG
DRILLING METHOD
DIMENSIONS 1.5 x 0.4 m

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY CD

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		ML-CL	Clayey Silt, dark brown, dry to damp, heterogeneous, low plasticity, soft with no inclusions		TP120_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - light brown mottled orange, damp, homogeneous, moderate to high plasiticty, stiff		TP120_0.2-0.3	0	No odours, staining or ACM observed.
		0.6			Termination Depth at: 0.6 m.				
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP121

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 12-Apr-21
DRILL RIG
DRILLING METHOD
DIMENSIONS 1.5 x 0.4 m

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY CD

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		ML-CL	Clayey Silt, dark brown, dry to damp, heterogeneous, low plasticity, soft with no inclusions		TP121_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - light brown mottled orange, damp, homogeneous, moderate to high plasiticty, stiff. Increasing inclusions of natural claystone gravels with depth.		TP121_0.2-0.3	0.1	No odours, staining or ACM observed.
		0.3							
		0.4							
		0.5							
		0.6			Termination Depth at: 0.6 m.				
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH122

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 15-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		ML-CL	Clayey Silt, dark brown, dry to damp, heterogeneous, low plasticity, soft with no inclusions		BH122_0.0-0.2	0	No odours, staining or ACM observed.
		0.2		CL	Clay - light brown mottled orange, damp, homogeneous, moderate to high plasiticty, stiff				
		0.3					BH122_0.3-0.4	0	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH123

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 15-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		ML-CL	Clayey Silt, dark brown, dry to damp, heterogeneous, low plasticity, soft with no inclusions		BH123_0.0-0.2	0.1	No odours, staining or ACM observed.
		0.2		CL	Clay - light brown mottled orange, damp, homogeneous, moderate to high plasiticty, stiff				
		0.3							
		0.4					BH123_0.4-0.5	0	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP124

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 13-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** RL

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		ML-CL	Clayey Silt, brown, damp, heterogeneous, low plasticity, soft with trace inclusions of rootlets		TP124_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - light brown mottled red, damp, homogeneous, moderate to high plasiticty, stiff				
		0.3					TP124_0.3-0.4	0.2	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP125

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 13-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** RL

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		ML-CL	Clayey Silt, brown, damp, heterogeneous, low plasticity, soft with trace inclusions of rootlets		TP125_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - light brown mottled red, damp, homogeneous, moderate to high plasiticty, stiff				
		0.3					TP125_0.3-0.4	0.1	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP126

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 13-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** RL

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		ML-CL	Clayey Silt, brown, damp, heterogeneous, low plasticity, soft with trace inclusions of rootlets		TP126_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - light brown mottled red, damp, homogeneous, moderate to high plasiticty, stiff				
		0.3					TP126_0.3-0.4	0.2	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP127

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 13-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** CD

COMMENTS 7b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		ML-CL	Clayey Silt, dark brown, dry to damp, heterogeneous, low plasticity, soft with no inclusions		TP127_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		TP127_0.2-0.3	0.1	No odours, staining or ACM observed.
		0.3							
		0.4							
		0.5							
		0.6			Termination Depth at: 0.6 m.				
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP128

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 13-Apr-21
DRILL RIG
DRILLING METHOD
DIMENSIONS 1.5 x 0.4 m

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY CD

COMMENTS 7b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		ML-CL	Clayey Silt, dark brown, dry to damp, heterogeneous, low plasticity, soft with no inclusions		TP128_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		TP128_0.2-0.3	0.1	No odours, staining or ACM observed.
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP129

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 13-Apr-21
DRILL RIG
DRILLING METHOD
DIMENSIONS 1.5 x 0.4 m

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY CD

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		ML-CL	Clayey Silt, dark brown, dry, heterogeneous, low plasticity, soft with no inclusions		TP129_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		TP129_0.2-0.3		
		0.3							
		0.4							
		0.5							
		0.6			Termination Depth at: 0.6 m.				
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP130

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 13-Apr-21
DRILL RIG
DRILLING METHOD
DIMENSIONS 1.5 x 0.4 m

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY CD

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		ML-CL	Clayey Silt, dark brown, dry, heterogeneous, low plasticity, soft with no inclusions		TP130_0.0-0.1	0.1	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		TP130_0.2-0.3	0.1	No odours, staining or ACM observed.
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP131

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 13-Apr-21
DRILL RIG
DRILLING METHOD
DIMENSIONS 1.5 x 0.4 m

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY CD

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		ML-CL	Clayey Silt, dark brown, dry, heterogeneous, low plasticity, soft with trace inclusions of fine claystone gravels		TP131_0.0-0.1	0.1	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		TP131_0.2-0.3	0	No odours, staining or ACM observed.
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP132

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 12-Apr-21
DRILL RIG
DRILLING METHOD
DIMENSIONS 1.5 x 0.4 m

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY CD

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		ML-CL	Clayey Silt, dark brown, dry, heterogeneous, low plasticity, soft with no inclusions		TP132_0.0-0.1	0.1	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		TP132_0.2-0.3	0	No odours, staining or ACM observed.
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP133

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 12-Apr-21
DRILL RIG
DRILLING METHOD
DIMENSIONS 1.5 x 0.4 m

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY CD

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		ML-CL	Clayey Silt, dark brown, dry, heterogeneous, low plasticity, soft with no inclusions		TP133_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		TP133_0.2-0.3	0	No odours, staining or ACM observed.
		0.3							
		0.4							
		0.5							
		0.6			Termination Depth at: 0.6 m.				
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP134

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 12-Apr-21
DRILL RIG
DRILLING METHOD
DIMENSIONS 1.5 x 0.4 m

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY CD

COMMENTS 7b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		ML-CL	Clayey Silt, dark brown, dry, heterogeneous, low plasticity, soft with no inclusions		TP134_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		TP134_0.2-0.3	0	No odours, staining or ACM observed.
		0.3							
		0.4							
		0.5							
		0.6			Termination Depth at: 0.6 m.				
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP135

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 12-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** CD

COMMENTS 7b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		ML-CL	Clayey Silt, dark brown, dry, heterogeneous, low plasticity, soft with no inclusions		TP135_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3					TP135_0.3-0.4	0.1	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP136

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 12-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** CD

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		ML-CL	Clayey Silt, dark brown, dry, heterogeneous, low plasticity, soft with no inclusions		TP136_0.0-0.1	0	No odours, staining or ACM observed.
		0.2							
		0.3							
		0.4		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		TP136_0.4-0.5	0.2	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7							
		0.8							
		0.9			Termination Depth at: 0.9 m.				
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP137

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 12-Apr-21
DRILL RIG
DRILLING METHOD
DIMENSIONS 1.5 x 0.4 m

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY CD

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		ML-CL	Clayey Silt, dark brown, dry, heterogeneous, low plasticity, soft with no inclusions		TP137_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		TP137_0.2-0.3	0.1	No odours, staining or ACM observed.
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP138

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 13-Apr-21
DRILL RIG
DRILLING METHOD
DIMENSIONS 1.5 x 0.4 m

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		ML-CL	Clayey Silt, brown, damp, heterogeneous, low plasticity, soft with trace inclusions of rootlets		TP138_0.0-0.1	0.2	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3					TP138_0.3-0.4	0	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP139

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 13-Apr-21
DRILL RIG
DRILLING METHOD
DIMENSIONS 1.5 x 0.4 m

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY CD

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		ML-CL	Clayey Silt, dark brown, dry, heterogeneous, low plasticity, soft with no inclusions		TP139_0.0-0.1	0.1	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		TP139_0.2-0.3	0	No odours, staining or ACM observed.
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP140

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 13-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** CD

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		ML-CL	Clayey Silt, dark brown, dry, heterogeneous, low plasticity, soft with no inclusions		TP140_0.0-0.1	0.1	No odours, staining or ACM observed.
		0.3		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		TP140_0.3-0.4	0	No odours, staining or ACM observed.
		0.8			Termination Depth at: 0.8 m.				

TEST PIT TP141

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 13-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** CD

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		ML-CL	Clayey Silt, dark brown, dry, heterogeneous, low plasticity, soft with no inclusions		TP141_0.0-0.1	0.1	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, moderate to high plasiticty, stiff				
		0.3					TP141_0.3-0.4	0.1	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP142

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 13-Apr-21
DRILL RIG
DRILLING METHOD
DIMENSIONS 1.5 x 0.4 m

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY CD

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		ML-CL	Clayey Silt, dark brown, dry, heterogeneous, low plasticity, soft with no inclusions		TP142_0.0-0.1		
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		TP142_0.2-0.3	0.1	No odours, staining or ACM observed.
		0.3							
		0.4							
		0.5							
		0.6			Termination Depth at: 0.6 m.				
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP143

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 13-Apr-21
DRILL RIG
DRILLING METHOD
DIMENSIONS 1.5 x 0.4 m

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY CD

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		ML-CL	Clayey Silt, dark brown, dry, heterogeneous, low plasticity, soft with no inclusions		TP143_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		TP143_0.2-0.3	0	No odours, staining or ACM observed.
		0.3							
		0.4							
		0.5							
		0.6			Termination Depth at: 0.6 m.				
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP144

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 13-Apr-21
DRILL RIG
DRILLING METHOD
DIMENSIONS 1.5 x 0.4 m

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY CD

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		ML-CL	Clayey Silt, dark brown, dry, heterogeneous, low plasticity, soft with no inclusions		TP144_0.0-0.1	0.1	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff with inclusion of tree root		TP144_0.2-0.3	0	No odours, staining or ACM observed.
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP145

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 13-Apr-21
DRILL RIG
DRILLING METHOD
DIMENSIONS 1.5 x 0.4 m

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		ML-CL	Clayey Silt, brown, damp, heterogeneous, low plasticity, soft with trace inclusions of rootlets		TP145_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - light brown mottled red, damp, homogeneous, moderate to high plasiticty, stiff				
		0.3							
		0.4					TP145_0.4-0.5	0	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP146

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 13-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** RL

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		ML-CL	Clayey Silt, brown, damp, heterogeneous, low plasticity, soft with trace inclusions of rootlets		TP146_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - light brown mottled red, damp, homogeneous, moderate to high plasiticty, stiff				
		0.3					TP146_0.3-0.4	0.1	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP147

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 13-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** RL

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		ML-CL	Clayey Silt, brown, damp, heterogeneous, low plasticity, soft with trace inclusions of rootlets		TP147_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - light brown mottled red, damp, homogeneous, moderate to high plasiticty, stiff				
		0.3					TP147_0.3-0.4	0.2	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP148

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 15-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** PG

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		ML-CL	Clayey Silt, brown, damp, heterogeneous, low plasticity, soft with trace inclusions of rootlets				No odours, staining or ACM observed.
		0.2		CL	Clay - light brown mottled red, damp, homogeneous, moderate to high plasiticty, stiff				
		0.3							
		0.4							No odours, staining or ACM observed.
		0.5							
		0.6			Termination Depth at: 0.6 m.				
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP149

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 13-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** CD

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		ML-CL	Clayey Silt, brown, damp, heterogeneous, low plasticity, soft with trace inclusions of rootlets		TP149_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - light brown mottled red, damp, homogeneous, moderate to high plasiticty, stiff		TP149_0.2-0.3	0.2	No odours, staining or ACM observed.
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP150

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 13-Apr-21
DRILL RIG
DRILLING METHOD
DIMENSIONS 1.5 x 0.4 m

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY CD

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		ML-CL	Clayey Silt, brown, damp, heterogeneous, low plasticity, soft with trace inclusions of rootlets		TP150_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - light brown mottled red, damp, homogeneous, moderate to high plasiticty, stiff		TP150_0.2-0.3	0.1	No odours, staining or ACM observed.
		0.3							
		0.4							
		0.5							
		0.6			Termination Depth at: 0.6 m.				
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP151

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 13-Apr-21
DRILL RIG
DRILLING METHOD
DIMENSIONS 1.5 x 0.4 m

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY CD

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		ML-CL	Clayey Silt, brown, damp, heterogeneous, low plasticity, soft with trace inclusions of rootlets		TP151_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		TP151_0.2-0.3	0.1	No odours, staining or ACM observed.
		0.3							
		0.4							
		0.5							
		0.6			Termination Depth at: 0.6 m.				
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP152

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 13-Apr-21
DRILL RIG
DRILLING METHOD
DIMENSIONS 1.5 x 0.4 m

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY CD

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		ML-CL	Clayey Silt, brown, damp, heterogeneous, low plasticity, soft with trace inclusions of rootlets		TP152_0.0-0.1	0	No odours, staining or ACM observed.
		0.2							
		0.3		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff with inclusion of tree root		TP152_0.3-0.4	0.1	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6							
		0.7							
		0.8			Termination Depth at: 0.8 m.				
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP153

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 13-Apr-21
DRILL RIG
DRILLING METHOD
DIMENSIONS 1.5 x 0.4 m

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY CD

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		ML-CL	Clayey Silt, brown, damp, heterogeneous, low plasticity, soft with trace inclusions of rootlets		TP153_0.0-0.1	0.1	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		TP153_0.2-0.3	0.1	No odours, staining or ACM observed.
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP154

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 13-Apr-21
DRILL RIG
DRILLING METHOD
DIMENSIONS 1.5 x 0.4 m

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY CD

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		ML-CL	Clayey Silt, brown, damp, heterogeneous, low plasticity, soft with trace inclusions of rootlets		TP154_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		TP154_0.2-0.3	0	No odours, staining or ACM observed.
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP155

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 13-Apr-21
DRILL RIG
DRILLING METHOD
DIMENSIONS 1.5 x 0.4 m

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		ML-CL	Clayey Silt, brown, damp, heterogeneous, low plasticity, soft with trace inclusions of rootlets		TP155_0.0-0.1	0.1	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3					TP155_0.3-0.4	0	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP156

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 12-Apr-21
DRILL RIG
DRILLING METHOD
DIMENSIONS 1.5 x 0.4 m

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY CD

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		ML-CL	Clayey Silt, brown, damp, heterogeneous, low plasticity, soft with trace inclusions of rootlets		TP156_0.0-0.1	0	No odours, staining or ACM observed.
		0.2							
		0.3							
		0.4		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		TP156_0.4-0.5	0	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7							
		0.8							
		0.9			Termination Depth at: 0.9 m.				
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP157

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 12-Apr-21
DRILL RIG
DRILLING METHOD
DIMENSIONS 1.5 x 0.4 m

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY CD

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		ML-CL	Clayey Silt, brown, damp, heterogeneous, low plasticity, soft with trace inclusions of rootlets		TP157_0.0-0.1	0.1	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3					TP157_0.3-0.4	0	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH158

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 15-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		ML-CL	Clayey Silt, brown, damp, heterogeneous, low plasticity, soft with trace inclusions of rootlets		BH158 0-0.2		
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH158_0.4-0.5	0	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH159

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 15-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** RL

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		ML-CL	Clayey Silt, brown, damp, heterogeneous, low plasticity, soft with trace inclusions of rootlets		BH159_0.0-0.2	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH160

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 15-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** RL

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		ML-CL	Clayey Silt, brown, damp, heterogeneous, low plasticity, soft with trace inclusions of rootlets		BH160_0.0-0.2	0.1	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH160_0.4-0.5	0.1	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH161

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 15-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		ML-CL	Clayey Silt, brown, damp, heterogeneous, low plasticity, soft with trace inclusions of rootlets		BH161_0.0-0.2	0.1	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH162

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 15-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** RL

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		ML-CL	Clayey Silt, brown, damp, heterogeneous, low plasticity, soft with trace inclusions of rootlets		BH162_0.0-0.2	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH162_0.4-0.5	0	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH163

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 15-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** RL

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		ML-CL	Clayey Silt, brown, damp, heterogeneous, low plasticity, soft with trace inclusions of rootlets		BH163_0.0-0.2	0.1	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH164

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 15-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		ML-CL	Clayey Silt, brown, damp, heterogeneous, low plasticity, soft with trace inclusions of rootlets		BH164_0.0-0.2	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH164_0.4-0.5	0	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH165

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 15-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		ML-CL	Clayey Silt, brown, damp, heterogeneous, low plasticity, soft with trace inclusions of rootlets		BH165_0.0-0.2	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH166

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 15-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		ML-CL	Clayey Silt, brown, damp, heterogeneous, low plasticity, soft with trace inclusions of rootlets		BH166 0-0.2		
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH166_0.4-0.5	0	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH167

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 15-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		ML-CL	Clayey Silt, brown, damp, heterogeneous, low plasticity, soft with trace inclusions of rootlets		BH167_0.0-0.2	0.1	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH168

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 15-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** RL

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		ML-CL	Clayey Silt, brown, damp, heterogeneous, low plasticity, soft with trace inclusions of rootlets		BH168_0.0-0.2	0.2	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH168_0.4-0.5	0	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH169

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 08-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY KB

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		ML-CL	Clayey Silt, brown, damp, heterogeneous, low plasticity, soft with trace inclusions of rootlets		BH169_0.0-0.1	0.1	No odours, staining or ACM observed.
		0.2							
		0.3							
		0.4		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		BH169_0.4-0.5	0	No odours, staining or ACM observed.
		0.5							
		0.6			Termination Depth at: 0.6 m.				
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH170

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 08-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY KB

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		ML-CL	Clayey Silt, brown, damp, heterogeneous, low plasticity, soft with trace inclusions of rootlets		BH170_0.0-0.1	0.2	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH170_0.4-0.5	0	No odours, staining or ACM observed.
		0.5							
		0.6			Termination Depth at: 0.6 m.				
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH171

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 08-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY MC

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		ML-CL	Clayey Silt, brown, damp, heterogeneous, low plasticity, soft with trace inclusions of rootlets		BH171_0.0-0.1	0.1	No odours, staining or ACM observed.
				CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.4					BH171_0.4-0.5	0	No odours, staining or ACM observed.
		0.6			Termination Depth at: 0.6 m.				

SOIL BOREHOLE BH172

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 08-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY KB

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		ML-CL	Clayey Silt, brown, damp, heterogeneous, low plasticity, soft with trace inclusions of rootlets		BH172_0.0-0.1	0.1	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH172_0.4-0.5	0	No odours, staining or ACM observed.
		0.5							
		0.6			Termination Depth at: 0.6 m.				
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH173

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 08-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY MC

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		ML-CL	Clayey Silt, brown, damp, heterogeneous, low plasticity, soft with trace inclusions of rootlets		BH173_0.0-0.1	0.1	No odours, staining or ACM observed.
				CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.4					BH173_0.4-0.5	0	No odours, staining or ACM observed.
		0.6			Termination Depth at: 0.6 m.				

SOIL BOREHOLE BH174

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 08-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY KB

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		ML-CL	Clayey Silt, brown, damp, heterogeneous, low plasticity, soft with trace inclusions of rootlets		BH174_0.0-0.1	0.1	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH174_0.4-0.5	0.1	No odours, staining or ACM observed.
		0.5							
		0.6			Termination Depth at: 0.6 m.				
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH175

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 08-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY KB

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		ML-CL	Clayey Silt, brown, damp, heterogeneous, low plasticity, soft with trace inclusions of rootlets		BH175_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH175_0.4-0.5	0	No odours, staining or ACM observed.
		0.5							
		0.6			Termination Depth at: 0.6 m.				
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH176

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 08-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY KB

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		ML-CL	Clayey Silt, brown, damp, heterogeneous, low plasticity, soft with trace inclusions of rootlets		BH176_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH176_0.4-0.5	0.1	No odours, staining or ACM observed.
		0.5							
		0.6			Termination Depth at: 0.6 m.				
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH177

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 08-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY KB

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		ML-CL	Clayey Silt, brown, damp, heterogeneous, low plasticity, soft with trace inclusions of rootlets		BH177_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH177_0.4-0.5	0	No odours, staining or ACM observed.
		0.5							
		0.6			Termination Depth at: 0.6 m.				
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH178

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** MC

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		ML-CL	Clayey Silt, brown, damp, heterogeneous, low plasticity, soft with trace inclusions of rootlets		BH178_0.0-0.1	0.1	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3					BH178_0.3-0.5	0	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6			Termination Depth at: 0.6 m.				
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH179

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 08-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 7b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - Clayey Silt, brown, moist, heterogeneous, low plasticity, soft with trace inclusions of gravels		BH179_0.0-0.1	0.1	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3					BH179_0.3-0.4	0.1	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH180

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** RL

COMMENTS 7b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - Clayey Silt, brown, moist, heterogeneous, low plasticity, soft with no inclusions		BH180_0.0-0.2	0.1	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4							
		0.5					BH180_0.5-0.6	0.1	No odours, staining or ACM observed.
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH181

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 08-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 7b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - Clayey Silt, brown, moist, heterogeneous, low plasticity, soft with no inclusions		BH181_0.0-0.1	0.1	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		BH181_0.3-0.4	0.1	No odours, staining or ACM observed.
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH182

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 08-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 7b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - Clayey Silt, brown, moist, heterogeneous, low plasticity, soft with trace inclusions of claystone gravels		BH182_0.0-0.2	0.1	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4							
		0.5					BH182_0.5-0.6	0.1	No odours, staining or ACM observed.
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH183

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** RL

COMMENTS 7b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - Clayey Silt, brown, moist, heterogeneous, low plasticity, soft with no inclusions		BH183_0.0-0.1	0.1	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		BH183_0.3-0.4	0.1	No odours, staining or ACM observed.
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH184

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** RL

COMMENTS 7b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - Clayey Silt, brown, moist, heterogeneous, low plasticity, soft with no inclusions		BH184_0.0-0.1	0.1	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		BH184_0.3-0.4	0.1	No odours, staining or ACM observed.
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH185

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** RL

COMMENTS 7b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - Clayey Silt, brown, moist, heterogeneous, low plasticity, soft with no inclusions		BH185_0.0-0.2	0.1	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4							
		0.5					BH185_0.5-0.6	0.1	No odours, staining or ACM observed.
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH186

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** RL

COMMENTS 7b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - Clayey Silt, brown, moist, heterogeneous, low plasticity, soft with no inclusions		BH186_0.0-0.1	0.1	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		BH186_0.3-0.4	0.1	No odours, staining or ACM observed.
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH187

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** RL

COMMENTS 7b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - Clayey Silt, brown, moist, heterogeneous, low plasticity, soft with trace inclusions of black plastic sheeting		BH187_0.0-0.2	0.1	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4							
		0.5					BH187_0.5-0.6	0.1	No odours, staining or ACM observed.
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH188

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** RL

COMMENTS 7b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - Clayey Silt, brown, damp, heterogeneous, low plasticity, soft with no inclusions		BH188_0.0-0.1	0.1	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		BH188_0.3-0.4	0.1	No odours, staining or ACM observed.
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH189

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** RL

COMMENTS 7b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - Clayey Silt, brown, moist, heterogeneous, low plasticity, soft with no inclusions		BH189_0.0-0.2	0.1	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4							
		0.5					BH189_0.5-0.6	0.1	No odours, staining or ACM observed.
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH200

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 09-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** CD

COMMENTS 2b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Fill (Reworked Natural) - Clayey Silt, brown, damp, heterogeneous, low plasticity, soft with trace inclusions of rootlets				No odours, staining or ACM observed.
		0.2							
		0.3							
		0.4		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff. Grading to grey shale with increasing shale gravels at depth				No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1			Termination Depth at: 1.1 m.				
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP200

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 09-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS x m	**LOGGED BY** CD

COMMENTS 4a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), brown, damp, heterogeneous, low plasticity, soft with trace inclusions of rootlets		TP200_0.0-0.4	0	No odours, staining or ACM observed.
		0.2							
		0.3							
		0.4		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff. Grading to grey claystone with increasing claystone gravels at depth		TP200_0.4-0.5	0.2	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1			Termination Depth at: 1.1 m.				
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP201

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 09-Apr-21
DRILL RIG
DRILLING METHOD
DIMENSIONS 1.5 x 0.4 m

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY CD

COMMENTS 4a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		RWN	Clayey Silt (Reworked Natural), brown, damp, heterogeneous, low plasticity, soft with trace inclusions of rootlets		TP201_0.0-0.2	0.1	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff. Grading to grey claystone with increasing claystone gravels at depth				
		0.3							
		0.4							
		0.5					TP201_0.5-0.6	0	No odours, staining or ACM observed.
		0.6							
		0.7							
		0.8							
		0.9							
		1			Termination Depth at: 1.0 m.				
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH202

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 12-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 4a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), blackish brown, damp, heterogeneous, low plasticity, firm with trace inclusions of rootlets		BH202_0.0-0.1	0.2	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3					BH202_0.3-0.4	0	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH203

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 12-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 4a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), blackish brown, damp, heterogeneous, low plasticity, firm with trace inclusions of rootlets		BH203_0.0-0.2	0.1	No odours, staining or ACM observed.
		0.2							
		0.3		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.4					BH203_0.4-0.5	0	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7							
		0.8			Termination Depth at: 0.8 m.				
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP204

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 09-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** CD

COMMENTS 4a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		Fill	Fill (Road Base) - Gravel, light grey, dry, heterogeneous, well graded, fine to coarse, sub-angular, medium dense, no inclusions		TP204_0.0-0.1	0.1	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					TP204_0.4-0.5	0	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP205

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 09-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** CD

COMMENTS 4a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1		Fill	Fill (Road Base) - Gravel, light grey, dry, heterogeneous, well graded, fine to coarse, sub-angular, medium dense, no inclusions		TP205_0.0-0.2	0.1	No odours, staining or ACM observed.
							TP205_0.4-0.5	0	No odours, staining or ACM observed.
				CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9			Termination Depth at: 1.0 m.				

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SOIL BOREHOLE BH206

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 12-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 2a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), blackish brown, damp, heterogeneous, low plasticity, firm with trace inclusions of rootlets		BH206_0.0-0.1	0.1	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH206-0.4-0.5	0.1	No odours, staining or ACM observed.
		0.5							
		0.6			Termination Depth at: 0.6 m.				
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH207

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 12-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 2a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), blackish brown, damp, heterogeneous, low plasticity, firm with trace inclusions of rootlets		BH207_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH207-0.4-0.5	0	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH208

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 12-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 2a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), blackish brown, damp, heterogeneous, low plasticity, firm with trace inclusions of rootlets		BH208_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3					BH208_0.3-0.4	0.1	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH209

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 12-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 2a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), blackish brown, damp, heterogeneous, low plasticity, firm with trace inclusions of rootlets		BH209-0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3					BH209_0.3-0.4	0	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH210

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 12-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 2a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), blackish brown, damp, heterogeneous, low plasticity, firm with trace inclusions of rootlets		BH210-0-0.1	0.1	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH210_0.4-0.5	0	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP211

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 09-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** RL

COMMENTS 2a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		RWN	Clayey Silt (Reworked Natural), blackish brown, damp, heterogeneous, low plasticity, firm with no inclusions		TP211_0.0-0.1	0.2	No odours, staining or ACM observed.
		0.2							
		0.3							
		0.4							
		0.5		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.6					TP211_0.6-0.7	0	No odours, staining or ACM observed.
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2			Termination Depth at: 1.2 m.				
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP212

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 09-Apr-21
DRILL RIG
DRILLING METHOD
DIMENSIONS 1.5 x 0.4 m

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY CD

COMMENTS 2a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2 0.4 0.6 0.8 1 1.2 1.4 1.6 1.8		Fill	Fill - Gravelly Silt, dark brown, damp, heterogeneous, low plasticity, soft to firm with inclusions of brick, sandstone cobbles, plastic drink bottles, plastic rubbish		TP212_0.0-0.0 TP212_0.0-0.1 TP212_0.5-0.6 TP212_1.0-1.1	0.1 0 0 0.2	No odours, staining or ACM observed. No odours, staining or ACM observed. No odours, staining or ACM observed. No odours, staining or ACM observed.
		2 2.2 2.4		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		TP212_2.0-2.1	0.1	No odours, staining or ACM observed.
		2.6 2.8 3 3.2 3.4 3.6 3.8 4 4.2 4.4 4.6 4.8			Termination Depth at: 2.5 m.				

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TEST PIT TP213

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 09-Apr-21
DRILL RIG
DRILLING METHOD
DIMENSIONS 1.5 x 0.4 m

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 2a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		RWN	Clayey Silt (Reworked Natural), blackish brown, damp, heterogeneous, low plasticity, firm with trace inclusions of rootlets		TP213_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3					TP213_0.3-0.4	0.1	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP214

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 09-Apr-21
DRILL RIG
DRILLING METHOD
DIMENSIONS 1.5 x 0.4 m

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY PG

COMMENTS 2a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		RWN	Clayey Silt (Reworked Natural), blackish brown, damp, heterogeneous, low plasticity, firm with trace inclusions of rootlets		TP214_0.0-0.2	0	No odours, staining or ACM observed. No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					TP214_0.4-0.5	0.1	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP215

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 09-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** PG

COMMENTS 2a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		Fill	Fill (Imported Topsoil) - Silt, black, damp, homogeneous, non plastic, soft to firm, minor inclusions of ignesous gravels and plastic sheeting		TP215_0.0-0.1	0	No odours, staining or ACM observed.
		0.2							
		0.3							
		0.4					TP215_0.4-0.5	0.1	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1					TP215_1.0-1.0	0.1	No odours, staining or ACM observed.
		1.1		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff. Grading to grey claystones with increasing claystone gravels at depth				
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7					TP215-1.7-1.8	0	No odours, staining or ACM observed.
		1.8		Mudstone	Claystone (Weathered) - grey, damp, homogeneous, non plastic, hard				
		1.9							
		2							
					Termination Depth at: 2.0 m.				

TEST PIT TP216

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 12-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** RH

COMMENTS 2a/7b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		RWN	Clayey Silt (Reworked Natural), brown, damp, heterogeneous, low plasticity, soft with trace inclusions of rootlets		TP216_0.0-0.1	0	No odours, staining or ACM observed.
		0.2							
		0.3					TP216_0.3-0.4	0	No odours, staining or ACM observed.
		0.4					TP216_0.4-0.5	0	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7							
		0.8							
		0.9					TP216_0.9-1.0	0	No odours, staining or ACM observed.
		1							
		1.1							
		1.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		TP216_1.2-1.3	0.1	No odours, staining or ACM observed.
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8			Termination Depth at: 1.7 m.				
		1.9							

SOIL BOREHOLE BH217

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 12-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 2a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), brown, damp, heterogeneous, low plasticity, firm with trace inclusions of rootlets		BH217-0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		BH217_0.3-0.4	0	No odours, staining or ACM observed.
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH218

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 12-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** RL

COMMENTS 2a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), brown, damp, heterogeneous, low plasticity, firm with trace inclusions of rootlets		BH218-0-0.2	0.1	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH218_0.4-0.5	0.1	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP219

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 09-Apr-21
DRILL RIG
DRILLING METHOD
DIMENSIONS 1.5 x 0.4 m

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY PG

COMMENTS 2a/7b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		RWN	Clayey Silt (Reworked Natural), brown, damp, heterogeneous, low plasticity, firm with trace inclusions of rootlets		TP219_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay (Alluvium) - light brown, damp, homogeneous, high plasticity, stiff with trace inclusions of claystone gravels				
		0.3							
		0.4					TP219_0.4-0.5	0.1	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP220

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 09-Apr-21
DRILL RIG
DRILLING METHOD
DIMENSIONS 1.5 x 0.4 m

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 2a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		RWN	Clayey Silt (Reworked Natural), brown, damp, heterogeneous, low plasticity, firm with trace inclusions of rootlets		TP220_0.0-0.1	0.1	No odours, staining or ACM observed.
				CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.4					TP220_0.4-0.5	0	No odours, staining or ACM observed.
		0.6			Termination Depth at: 0.6 m.				

SOIL BOREHOLE BH221

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 09-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 2a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		RWN	Clayey Silt (Reworked Natural), brown, damp, heterogeneous, low plasticity, firm with trace inclusions of rootlets		BH221_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3					BH221_0.3-0.4	0	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6			Termination Depth at: 0.6 m.				
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP221

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 09-Apr-21
DRILL RIG
DRILLING METHOD
DIMENSIONS 1.5 x 0.4 m

EASTING 296,203.15
NORTHING 6,252,891.62
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 2b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		RWN	Fill (Reworked Natural) - Silty Clay, brown, damp, heterogeneous, low plasticity, firm with trace inclusions of rootlets				No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6			Termination Depth at: 0.6 m.				
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP222

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 09-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** RL

COMMENTS 2a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		RWN	Clayey Silt (Reworked Natural), brown, damp, heterogeneous, low plasticity, firm with trace inclusions of rootlets				
				CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		TP222_0.1-0.2	0	No odours, staining or ACM observed.
		0.4					TP222_0.4-0.5	0	No odours, staining or ACM observed.
		0.6			Termination Depth at: 0.6 m.				

TEST PIT TP223

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 13-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** CD

COMMENTS 2a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		RWN	Clayey Silt (Reworked Natural), brown, damp, heterogeneous, low plasticity, firm with trace inclusions of rootlets		TP223_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					TP223_0.4-0.5	0.1	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP224

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 13-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** CD

COMMENTS 2a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		RWN	Clayey Silt (Reworked Natural), brown, damp, heterogeneous, low plasticity, firm with trace inclusions of rootlets		TP224_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		TP224_0.2-0.3	0.2	No odours, staining or ACM observed.
		0.3							
		0.4							
		0.5							
		0.6			Termination Depth at: 0.6 m.				
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP225

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 13-Apr-21
DRILL RIG
DRILLING METHOD
DIMENSIONS 1.5 x 0.4 m

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY CD

COMMENTS 2a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		RWN	Clayey Silt (Reworked Natural), brown, damp, heterogeneous, low plasticity, firm with trace inclusions of rootlets		TP225_0.0-0.1	0.1	No odours, staining or ACM observed.
				CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3					TP225_0.3-0.4	0	No odours, staining or ACM observed.
		0.6			Termination Depth at: 0.6 m.				

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TEST PIT TP226

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 09-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** RL

COMMENTS 2a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		RWN	Clayey Silt (Reworked Natural), brown, damp, heterogeneous, low plasticity, firm with trace inclusions of rootlets				
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		TP226_0.1-0.2	0.2	No odours, staining or ACM observed.
		0.3							
		0.4					TP226_0.4-0.5	0	No odours, staining or ACM observed.
		0.5							
		0.6			Termination Depth at: 0.6 m.				
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP227

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 09-Apr-21
DRILL RIG
DRILLING METHOD
DIMENSIONS 1.5 x 0.4 m

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 2a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		RWN	Clayey Silt (Reworked Natural), brown, damp, heterogeneous, low plasticity, firm with trace inclusions of rootlets		TP227_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					TP227_0.4-0.5	0.1	No odours, staining or ACM observed.
		0.5							
		0.6			Termination Depth at: 0.6 m.				
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH228

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 12-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** PG

COMMENTS 2b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), brown, damp, heterogeneous, low plasticity, firm with trace inclusions of rootlets		BH228-0-0.1	0.1	No odours, staining or ACM observed.
		0.2							
		0.3							
		0.4					BH228_0.4-0.5	0.1	No odours, staining or ACM observed.
		0.5		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.6					BH228_0.6-0.7	0	No odours, staining or ACM observed.
		0.7							
		0.8							
		0.9							
		1			Termination Depth at: 1.0 m.				
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH229

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 12-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY PG

COMMENTS 2b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, damp, heterogeneous, low plasticity, firm with no inclusions		BH229-0-0.1	0.1	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH229_0.4-0.5	0.1	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH230

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 12-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY PG

COMMENTS 2b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, damp, heterogeneous, low plasticity, firm with no inclusions		BH230-0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH230_0.4-0.5	0	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH231

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 12-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY PG

COMMENTS 2b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, damp, heterogeneous, low plasticity, firm with no inclusions		BH231_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH231_0.4-0.5	0.1	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH232

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 14-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY PG

COMMENTS 2b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), brown, damp, heterogeneous, low plasticity, firm with trace inclusions of rootlets		BH232_0.0-0.1	0	No odours, staining or ACM observed.
		0.4		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		BH232_0.4-0.5	0	No odours, staining or ACM observed.
		0.9			Termination Depth at: 0.9 m.				

SOIL BOREHOLE BH233

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 14-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY PG

COMMENTS 4b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - Clayey Silt, blackish brown, damp, heterogeneous, low plasticity, firm and inclusions of igneous roadbase gravels and rootlets		BH233_0.0-0.5	0.1	No odours, staining or ACM observed.
		0.5		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		BH233_0.5-0.6	0	No odours, staining or ACM observed.
		1			Termination Depth at: 1.0 m.				
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP234

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 13-Apr-21
DRILL RIG
DRILLING METHOD
DIMENSIONS 1.5 x 0.4 m

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY CD

COMMENTS 3a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		Fill	Fill - Clayey Silt, blackish brown, damp, heterogeneous, low plasticity, firm and inclusions of igneous roadbase gravels on the surface and rootlets		TP234_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		TP234_0.2-0.3	0.2	No odours, staining or ACM observed.
		0.3							
		0.4							
		0.5							
		0.6			Termination Depth at: 0.6 m.				
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP235

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 13-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** RL

COMMENTS 3a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		Fill	Fill (Road Base) - Gravel, grey, dry, heterogeneous, well graded, fine to coarse, sub-angular, medium dense, trace inclusions of asphalt		TP235_0.0-0.1	0	No odours, staining or ACM observed.
				RWN					
		0.2			Clayey Silt (Reworked Natural), blackish brown, damp, heterogeneous, low plasticity, firm with trace inclusions of rootlets		TP235_0.1-0.2	0.1	No odours, staining or ACM observed.
		0.3		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.4					TP235_0.4-0.5	0	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP236

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 13-Apr-21
DRILL RIG
DRILLING METHOD
DIMENSIONS 1.5 x 0.4 m

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY CD

COMMENTS 3a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		RWN	Clayey Silt (Reworked Natural), brown, damp, heterogeneous, low plasticity, firm with trace inclusions of rootlets		TP236_0.0-0.1	0.2	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		TP236_0.2-0.3	0	No odours, staining or ACM observed.
		0.3							
		0.4							
		0.5							
		0.6			Termination Depth at: 0.6 m.				
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH237

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 13-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** PG

COMMENTS 3a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), brown, damp, heterogeneous, low plasticity, firm with no inclusions				
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH238

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 13-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY PG

COMMENTS 2b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), brown, damp, heterogeneous, low plasticity, firm with no inclusions		BH238_0.0-0.1	0.1	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH238_0.4-0.5	0	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH239

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 14-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY CD

COMMENTS 2b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), brown, damp, heterogeneous, low plasticity, firm with no inclusions		BH239_0.0-0.1	0.1	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH239_0.4-0.5	0	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH240

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 13-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY PG

COMMENTS 2b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), brown, damp, heterogeneous, low plasticity, firm with no inclusions		BH240_0.0-0.1	0.1	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH240_0.4-0.5	0.1	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH241

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 13-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY CD

COMMENTS 2b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), brown, damp, heterogeneous, low plasticity, firm with no inclusions		BH241_0.0-0.1	0.1	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		BH241_0.2-0.3	0	No odours, staining or ACM observed.
		0.3							
		0.4							
		0.5							
		0.6			Termination Depth at: 0.6 m.				
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH242

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 13-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY CD

COMMENTS 2b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), brown, damp, heterogeneous, low plasticity, firm with no inclusions		BH242_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		BH242_0.2-0.3	0.1	No odours, staining or ACM observed.
		0.3							
		0.4							
		0.5							
		0.6			Termination Depth at: 0.6 m.				
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH243

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 13-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** RL

COMMENTS 2b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), brown, damp, heterogeneous, low plasticity, firm with no inclusions				
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH244

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 13-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY CD

COMMENTS 2b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), brown, damp, heterogeneous, low plasticity, firm with no inclusions		BH244_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		BH244_0.2-0.3	0	No odours, staining or ACM observed.
		0.3							
		0.4							
		0.5							
		0.6			Termination Depth at: 0.6 m.				
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH245

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 13-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY CD

COMMENTS 2b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), brown, damp, heterogeneous, low plasticity, firm with no inclusions		BH245_0.0-0.3	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				No odours, staining or ACM observed.
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH246

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 13-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** RL

COMMENTS 6b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), brown, damp, heterogeneous, low plasticity, firm with no inclusions				
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH247

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 15-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 6b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), brown, damp, heterogeneous, low plasticity, firm with no inclusions		BH247_0.0-0.2	0	No odours, staining or ACM observed.
		0.2							
		0.3		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.4					BH247_0.4-0.5	0.1	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7							
		0.8			Termination Depth at: 0.8 m.				
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH248

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 15-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 6b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), brown, damp, heterogeneous, low plasticity, firm with no inclusions		BH248_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH248_0.4-0.5	0.2	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH249

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 15-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 6b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), brown, damp, heterogeneous, low plasticity, firm with no inclusions		BH249_0.0-0.2	0	No odours, staining or ACM observed.
		0.2							
		0.3		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		BH249_0.3-0.4	0.1	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6							
		0.7							
		0.8			Termination Depth at: 0.8 m.				
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH250

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 15-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 6b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), brown, damp, heterogeneous, low plasticity, firm with no inclusions		BH250_0.0-0.2	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH250_0.4-0.5	0.2	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH251

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 14-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY CD

COMMENTS 3a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), brown, damp, heterogeneous, low plasticity, firm with no inclusions		BH251_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		BH251_0.2-0.3	0.1	No odours, staining or ACM observed.
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH252

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 14-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY CD

COMMENTS 3a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), brown, damp, heterogeneous, low plasticity, firm with no inclusions		BH252 0-0.1		
				CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		BH252_0.1-0.2	0.1	No odours, staining or ACM observed.
		0.6			Termination Depth at: 0.6 m.				

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SOIL BOREHOLE BH253

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 14-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 4c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - Silty Clay, light brown, damp, heterogeneous, low plasticity, firm with trace inclusions of igneous gravel and rootlets		BH253_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.7			Termination Depth at: 0.7 m.				

SOIL BOREHOLE BH254

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 14-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** RL

COMMENTS 3a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - Silty Clay, brown, dry to damp, heterogeneous, low plasticity, firm with trace inclusions of rootlets		BH254_0.0-0.1	0.1	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3					BH254_0.3-0.4	0.1	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH255

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 14-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 4c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - Silty Clay, brown, damp, heterogeneous, low plasticity, firm with trace inclusions of rootlets		BH255_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3					BH255_0.3-0.4	0.1	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH256

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 14-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 3a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - Silty Clay, brown, dry to damp, heterogeneous, low plasticity, firm with trace inclusions of rootlets		BH256_0.0-0.1	0.1	No odours, staining or ACM observed.
		0.2							
		0.3		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		BH256_0.3-0.4	0	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH257

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 14-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** RL

COMMENTS 3a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - Silty Clay, brown, dry to damp, heterogeneous, low plasticity, firm with trace inclusions of rootlets		BH257_0.0-0.1	0	No odours, staining or ACM observed.
		0.2							
		0.3					BH257_0.3-0.4	0	No odours, staining or ACM observed.
		0.4		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.5							
		0.6					BH257_0.6-0.7	0	No odours, staining or ACM observed.
		0.7							
		0.8							
		0.9			Termination Depth at: 0.9 m.				
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH258

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 14-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** RL

COMMENTS 3a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - Silty Clay, brown, dry to damp, heterogeneous, low plasticity, firm with trace inclusions of rootlets		BH258_0.0-0.2	0.1	No odours, staining or ACM observed.
		0.2							
		0.3		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.4							
		0.5					BH258_0.5-0.6	0	No odours, staining or ACM observed.
		0.6							
		0.7							
		0.8			Termination Depth at: 0.8 m.				
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP259

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 13-Apr-21
DRILL RIG
DRILLING METHOD
DIMENSIONS 1.5 x 0.4 m

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 3a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		Fill	Fill - Silty Clay, brown, dry to damp, heterogeneous, low plasticity, firm with trace inclusions of rootlets		TP259_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3					TP259_0.3-0.4	0	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP260

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 13-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** RL

COMMENTS 3a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		Fill	Fill - Gravelly Silt, dark brown, damp, heterogeneous, low plasticity, firm with inclusions of brick (within wheel track)		TP260_0.0-0.1	0.1	No odours, staining or ACM observed.
		0.2		Fill	Fill - Silty Clay, brown, dry to damp, heterogeneous, low plasticity, firm with trace inclusions of rootlets		TP260_0.2-0.3	0.1	No odours, staining or ACM observed.
		0.3		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.4							
		0.5					TP260_0.5-0.6	0.1	No odours, staining or ACM observed.
		0.6							
		0.7							
		0.8			Termination Depth at: 0.8 m.				
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP261

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 13-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** PG

COMMENTS 3a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, damp, heterogeneous, low plasticity, firm with no inclusions		TP261_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					TP261_0.4-0.5	0	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH262

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 14-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY KB

COMMENTS 4b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, damp, heterogeneous, low plasticity, firm with no inclusions		BH262_0.0-0.1	0	No odours, staining or ACM observed.
		0.2							
		0.3							
		0.4		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		BH262_0.4-0.5	0.1	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7							
		0.8							
		0.9			Termination Depth at: 0.9 m.				
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH263

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 14-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** RL

COMMENTS 2b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), brown, damp, heterogeneous, low plasticity, firm with trace inclusions of claystoen gravels and rootlets				
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH264

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 14-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** RL

COMMENTS 2b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), brown, damp, heterogeneous, low plasticity, firm with trace inclusions of claystoen gravels and rootlets				
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH265

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 14-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** RL

COMMENTS 2b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), brown, damp, heterogeneous, low plasticity, firm with trace inclusions of claystoen gravels and rootlets				
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH266

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 14-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** RL

COMMENTS 2b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), brown, damp, heterogeneous, low plasticity, firm with trace inclusions of claystoen gravels and rootlets				
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH267

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 12-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY PG

COMMENTS 2b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, damp, heterogeneous, low plasticity, firm with no inclusions		BH267-0-0.1	0	No odours, staining or ACM observed.
		0.4		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		BH267_0.5-0.6	0	No odours, staining or ACM observed.
		0.9			Termination Depth at: 0.9 m.				

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SOIL BOREHOLE BH268

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 12-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** PG

COMMENTS 2b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, damp, heterogeneous, low plasticity, firm with no inclusions		BH268-0-0.1	0.1	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH268_0.4-0.5	0	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH269

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 12-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** PG

COMMENTS 2b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, damp, heterogeneous, low plasticity, firm with no inclusions		BH269_0.0-0.1	0.2	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH269-0.4-0.5	0	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH270

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 12-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY PG

COMMENTS 2b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, damp, heterogeneous, low plasticity, firm with no inclusions		BH270-0-0.1	0.1	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH270_0.4-0.5	0	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH271

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 14-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY KB

COMMENTS 4b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, damp, heterogeneous, low plasticity, firm with no inclusions		BH271_0.0-0.1	0.2	No odours, staining or ACM observed.
		0.4		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		BH271_0.4-0.5	0	No odours, staining or ACM observed.
		0.9			Termination Depth at: 0.9 m.				

SOIL BOREHOLE BH272

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 14-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** PG

COMMENTS 4b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, damp, heterogeneous, low plasticity, firm with no inclusions		BH272_0.0-0.1	0.1	No odours, staining or ACM observed.
		0.2							
		0.3		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.4					BH272_0.4-0.5	0	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7							
		0.8			Termination Depth at: 0.8 m.				
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH273

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 09-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY PG

COMMENTS 2b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, damp, heterogeneous, low plasticity, firm with no inclusions		BH273_0.0-0.2	0.1	No odours, staining or ACM observed.
		0.2							
		0.3		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.4					BH273_0.4-0.5	0	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7							
		0.8			Termination Depth at: 0.8 m.				
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH274

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 09-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY PG

COMMENTS 2b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, damp, heterogeneous, low plasticity, firm with no inclusions		BH274_0.0-0.2	0.1	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH274_0.4-0.5	0	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH275

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 09-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** PG

COMMENTS 2b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, damp, heterogeneous, low plasticity, firm with no inclusions		BH275_0.0-0.2	0.1	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH275_0.4-0.5	0.1	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH276

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 09-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** PG

COMMENTS 2b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, damp, heterogeneous, low plasticity, firm with no inclusions		BH276_0.0-0.2	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH276_0.4-0.5	0	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH277

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 13-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY PG

COMMENTS 2b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, damp, heterogeneous, low plasticity, firm with no inclusions		BH277_0.0-0.1	0.1	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH277_0.4-0.5	0	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH278

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 13-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** PG

COMMENTS 2b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, moist, heterogeneous, low plasticity, firm with no inclusions		BH278_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH278_0.4-0.5	0	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH279

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 13-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY PG

COMMENTS 2b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, moist, heterogeneous, low plasticity, firm with no inclusions		BH279_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH279_0.4-0.5	0.1	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH280

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 13-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY CD

COMMENTS 2b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, damp, heterogeneous, low plasticity, firm with no inclusions		BH280_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		BH280_0.2-0.3	0.2	No odours, staining or ACM observed.
		0.3							
		0.4							
		0.5							
		0.6			Termination Depth at: 0.6 m.				
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH281

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 14-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY CD

COMMENTS 2b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, damp, heterogeneous, low plasticity, firm with no inclusions		BH281_0.0-0.1	0.1	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		BH281_0.1-0.2	0	No odours, staining or ACM observed.
		0.3							
		0.4							
		0.5							
		0.6			Termination Depth at: 0.6 m.				
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH282

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 14-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY CD

COMMENTS 2b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, damp, heterogeneous, low plasticity, firm with no inclusions		BH282_0.0-0.1	0.2	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		BH282_0.2-0.3	0	No odours, staining or ACM observed.
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH283

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 14-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY CD

COMMENTS 2b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, moist, heterogeneous, low plasticity, firm with no inclusions		BH283_0.0-0.1	0.1	No odours, staining or ACM observed.
		0.2		Fill	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		BH283_0.2-0.3	0	No odours, staining or ACM observed.
		0.3							
		0.4							
		0.5							
		0.6			Termination Depth at: 0.6 m.				
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH284

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 14-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY CD

COMMENTS 2b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, moist, heterogeneous, low plasticity, firm with no inclusions		BH284_0.0-0.3	0	No odours, staining or ACM observed.
		0.2		Fill	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		BH284_0.2-0.3	0	No odours, staining or ACM observed.
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH285

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 14-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY CD

COMMENTS 2b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, moist, heterogeneous, low plasticity, firm with no inclusions		BH285_0.0-0.1	0.1	No odours, staining or ACM observed.
		0.2		Fill	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		BH285_0.2-0.3	0.1	No odours, staining or ACM observed.
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH286

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 14-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** CD

COMMENTS 2b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, damp, heterogeneous, low plasticity, firm with no inclusions		BH286_0.0-0.1	0	No odours, staining or ACM observed.
		0.2							
		0.3		Fill	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		BH286_0.3-0.4	0.1	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6							
		0.7							
		0.8			Termination Depth at: 0.8 m.				
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH287

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 14-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY CD

COMMENTS 2b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, damp, heterogeneous, low plasticity, firm with no inclusions		BH287_0.0-0.1	0.1	No odours, staining or ACM observed.
		0.2							
		0.3		Fill	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		BH287_0.3-0.4	0	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6							
		0.7							
		0.8			Termination Depth at: 0.8 m.				
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH288

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 14-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY CD

COMMENTS 2b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, damp, heterogeneous, low plasticity, firm with no inclusions		BH288_0.0-0.1	0	No odours, staining or ACM observed.
							BH288_0.1-0.2	0	No odours, staining or ACM observed.
		0.2		Fill	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		BH288_0.2-0.3	0	No odours, staining or ACM observed.
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH289

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 13-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY CD

COMMENTS 2b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, moist, heterogeneous, low plasticity, firm with no inclusions		BH289_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		Fill	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		BH289_0.2-0.3	0.1	No odours, staining or ACM observed.
		0.3							
		0.4							
		0.5							
		0.6			Termination Depth at: 0.6 m.				
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH290

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 13-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY PG

COMMENTS 2b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, moist, heterogeneous, low plasticity, firm with no inclusions		BH290_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH290_0.4-0.5	0.2	No odours, staining or ACM observed.
		0.5							
		0.6			Termination Depth at: 0.6 m.				
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH291

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 13-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY PG

COMMENTS 2b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, damp, heterogeneous, low plasticity, firm with no inclusions		BH291_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH291_0.4-0.5	0.1	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH292

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 13-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY PG

COMMENTS 2b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, damp, heterogeneous, low plasticity, firm with no inclusions		BH292_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH292_0.4-0.5	0.2	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH293

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 09-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY PG

COMMENTS 2b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, damp, heterogeneous, low plasticity, firm with no inclusions				
		0.2							
		0.3							
		0.4		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.5							
		0.6					BH293_0.6-0.7	0	No odours, staining or ACM observed.
		0.7							
		0.8							
		0.9			Termination Depth at: 0.9 m.				
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH294

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 14-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY PG

COMMENTS 2b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, damp, heterogeneous, low plasticity, firm with no inclusions		BH294_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH294_0.4-0.5	0.1	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH295

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 14-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY PG

COMMENTS 2b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, damp, heterogeneous, low plasticity, firm with no inclusions		BH295_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH295_0.4-0.5	0.1	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH296

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 14-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY PG

COMMENTS 2b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, damp, heterogeneous, low plasticity, firm with no inclusions		BH296_0.0-0.1	0.1	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH296_0.4-0.5	0.1	No odours, staining or ACM observed.
		0.5							
		0.6			Termination Depth at: 0.6 m.				
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH297

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 14-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RH

COMMENTS 2b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, damp, heterogeneous, low plasticity, firm with no inclusions		BH297_0.0-0.1	0	No odours, staining or ACM observed.
		0.2							
		0.3							
		0.4		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		BH297_0.4-0.5	0.1	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7							
		0.8							
		0.9			Termination Depth at: 0.9 m.				
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH298

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 12-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY PG

COMMENTS 2b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, damp, heterogeneous, low plasticity, firm with no inclusions		BH298_0.0-0.1	0.1	No odours, staining or ACM observed.
				CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.4					BH298_0.4-0.5	0	No odours, staining or ACM observed.
		0.8			Termination Depth at: 0.8 m.				

SOIL BOREHOLE BH299

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 12-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY PG

COMMENTS 2b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, damp, heterogeneous, low plasticity, firm with no inclusions		BH299_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH299_0.4-0.5	0	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH300

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 12-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** PG

COMMENTS 2b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, damp, heterogeneous, low plasticity, firm with no inclusions		BH300-0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH300_0.4-0.5	0	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH301

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 12-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY PG

COMMENTS 2b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, moist, heterogeneous, low plasticity, firm with no inclusions		BH301_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH301_0.4-0.5	0.1	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH302

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 12-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** RL

COMMENTS 2b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, damp, heterogeneous, low plasticity, firm with no inclusions				
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH303

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 12-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** RL

COMMENTS 2b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, damp, heterogeneous, low plasticity, firm with no inclusions				
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH304

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 12-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** RL

COMMENTS 2b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, damp, heterogeneous, low plasticity, firm with no inclusions				
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH305

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 12-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** RL

COMMENTS 2b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, moist, heterogeneous, low plasticity, firm with no inclusions				
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH306

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 12-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** RL

COMMENTS 2b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, damp, heterogeneous, low plasticity, firm with no inclusions				
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH307

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 15-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 4d

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, damp, heterogeneous, low plasticity, firm with no inclusions		BH307_0.0-0.2	0.1	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH307_0.4-0.5	0	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH308

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 14-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** PG

COMMENTS 5a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, moist, heterogeneous, low plasticity, firm with trace inclusions of roadbase gravels		BH308_0.0-0.1	0.1	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH308_0.4-0.5	0.1	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP309

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 13-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** RL

COMMENTS 5a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, damp, heterogeneous, low plasticity, firm with no inclusions		TP309_0.0-0.2	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					TP309_0.4-0.5	0	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7							
		0.8			Termination Depth at: 0.8 m.				
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP310

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 13-Apr-21
DRILL RIG
DRILLING METHOD
DIMENSIONS 1.5 x 0.4 m

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 4d

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, moist, heterogeneous, low plasticity, firm with no inclusions		TP310_0.0-0.2	0.1	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					TP310_0.4-0.5	0	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH311

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 13-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 4d

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, damp, heterogeneous, low plasticity, firm with no inclusions		BH311_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		BH311_0.2-0.5	0	No odours, staining or ACM observed.
		0.3							
		0.4							
		0.5							
		0.6			Termination Depth at: 0.6 m.				
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH312

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 13-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 4d

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, damp, heterogeneous, low plasticity, firm with no inclusions		BH312_0.0-0.1	0.1	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3					BH312_0.3-0.4	0	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH313

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 15-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY PG

COMMENTS 4e

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		ML-CL	Clayey Silt, dark brown, moist, heterogeneous, low plasticity, firm with no inclusions		BH313_0.0-0.1	0.2	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH313_0.4-0.5	0	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH314

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 15-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY PG

COMMENTS 4e

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		ML-CL	Clayey Silt, dark brown, moist, heterogeneous, low plasticity, firm with no inclusions		BH314_0.0-0.1	0.1	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH314_0.4-0.5	0	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH315

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 15-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY PG

COMMENTS 4e

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		ML-CL	Clayey Silt, dark brown, moist, heterogeneous, low plasticity, firm with no inclusions		BH315_0.0-0.1	0.2	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH315_0.4-0.5	0	No odours, staining or ACM observed.
		0.5							
		0.6			Termination Depth at: 0.6 m.				
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH316

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 15-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 4e

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, damp, heterogeneous, low plasticity, firm with no inclusions		BH316_0.0-0.2	0.1	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH316_0.4-0.5	0	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH317

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 15-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** RL

COMMENTS 4e

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, damp, heterogeneous, low plasticity, firm with no inclusions		BH317_0.0-0.2	0.1	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH317_0.4-0.5	0	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH318

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 15-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** RL

COMMENTS 4e

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		ML-CL	Clayey Silt, dark brown, moist, heterogeneous, low plasticity, firm with no inclusions		BH318_0.0-0.2	0.1	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH318_0.4-0.5	0	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7							
		0.8			Termination Depth at: 0.8 m.				
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH319

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 15-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 4e

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		ML-CL	Clayey Silt, dark brown, moist, heterogeneous, low plasticity, firm with no inclusions		BH319_0.0-0.1	0.1	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH320

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 15-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** RL

COMMENTS 4e

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, damp, heterogeneous, low plasticity, firm with no inclusions		BH320_0.0-0.2	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH320_0.4-0.5	0.1	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH321

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 15-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** RL

COMMENTS 4e

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill (Road Base) - Gravel, grey, dry, heterogeneous, poorly graded, fine to coarse, sub-angular, loose, inclusions of asphalt and crushed concrete		BH321_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		RWN	Clayey Silt (Reworked Natural), dark brown, moist, heterogeneous, low plasticity, firm with no inclusions		BH321_0.2-0.3	0	No odours, staining or ACM observed.
		0.3		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.4							
		0.5					BH321_0.5-0.6	0.1	No odours, staining or ACM observed.
		0.6							
		0.7							
		0.8			Termination Depth at: 0.8 m.				
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH322

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 15-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** RL

COMMENTS 4e

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, damp, heterogeneous, low plasticity, firm with no inclusions		BH322_0.0-0.2	0	No odours, staining or ACM observed.
		0.2							
		0.3		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.4					BH322_0.4-0.5	0	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH323

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 15-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 4e

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, damp, heterogeneous, low plasticity, firm with no inclusions		BH323_0.0-0.1	0.1	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH323_0.4-0.5	0	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH324

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 15-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** RL

COMMENTS 4e

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, damp, heterogeneous, low plasticity, firm with no inclusions		BH324_0.0-0.2	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH325

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 15-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY PG

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		ML-CL	Clayey Silt, dark brown, moist, heterogeneous, low plasticity, firm with no inclusions		BH325_0.0-0.1	0.2	No odours, staining or ACM observed.
		0.3			Termination Depth at: 0.3 m.				
		0.4							
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH326

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 15-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 4e

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		ML-CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		BH326_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clayey Silt, dark brown, moist, heterogeneous, low plasticity, firm with no inclusions				
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH327

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 15-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 4e

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		ML-CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		BH327_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clayey Silt, dark brown, moist, heterogeneous, low plasticity, firm with no inclusions		BH327_0.3-0.4	0.1	No odours, staining or ACM observed.
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH328

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 15-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 4e

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill (Road Base) - Gravel, grey, dry, heterogeneous, poorly graded, fine to coarse, sub-angular, loose, inclusions of asphalt		BH328_0.0-0.1	0.1	No odours, staining or ACM observed.
		0.2		RWN	Clayey Silt (Reworked Natural), dark brown, moist, heterogeneous, low plasticity, firm with no inclusions		BH328_0.2-0.3	0.2	No odours, staining or ACM observed.
		0.3		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.4							
		0.5					BH328_0.5-0.6	0	No odours, staining or ACM observed.
		0.6							
		0.7							
		0.8			Termination Depth at: 0.8 m.				
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH329

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 15-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 4e

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill (Road Base) - Gravel, grey, dry, heterogeneous, poorly graded, fine to coarse, sub-angular, loose, inclusions of asphalt and crushed concrete		BH329_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		RWN	Clayey Silt (Reworked Natural), dark brown, damp, heterogeneous, low plasticity, firm with no inclusions		BH329_0.2-0.3	0	No odours, staining or ACM observed.
		0.4		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		BH329_0.5-0.6	0.1	No odours, staining or ACM observed.
		0.8			Termination Depth at: 0.8 m.				
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH330

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 15-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill (Road Base) - Gravel, grey, dry, heterogeneous, poorly graded, fine to coarse, sub-angular, loose, inclusions of asphalt and crushed concrete		BH330_0.0-0.2	0.1	No odours, staining or ACM observed.
		0.2							
		0.3		RWN	Clayey Silt (Reworked Natural), dark brown, moist, heterogeneous, low plasticity, firm with no inclusions		BH330_0.3-0.4	0.1	No odours, staining or ACM observed.
		0.4							
		0.5			Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.6					BH330_0.6-0.7	0.1	No odours, staining or ACM observed.
		0.7							
		0.8							
		0.9							
		1			Termination Depth at: 1.0 m.				
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP331

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 13-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** CD

COMMENTS 2c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		ML-CL	Clayey Silt, brown, damp, heterogeneous, low plasticity, soft with trace inclusions of rootlets		TP331_0.0-0.1	0	No odours, staining or ACM observed.
		0.2							
		0.3		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		TP331_0.3-0.4	0	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6							
		0.7							
		0.8			Termination Depth at: 0.8 m.				
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH331

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 08-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY MC

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, moist, heterogeneous, low plasticity, firm with no inclusions		BH331_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		BH331_0.2-0.3	0	No odours, staining or ACM observed.
		0.3					BH331_0.3-0.4	0.1	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH332

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** MC

COMMENTS 2c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, damp, heterogeneous, low plasticity, firm with no inclusions		BH332_0.0-0.1	0	No odours, staining or ACM observed.
		0.2							
		0.3							
		0.4							
		0.5					BH332_0.5-0.5	0	No odours, staining or ACM observed.
		0.6		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.7							
		0.8							
		0.9							
		1			Termination Depth at: 1.0 m.				
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH333

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** MC

COMMENTS 2c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, damp, heterogeneous, low plasticity, firm with no inclusions				
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH334

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** PG

COMMENTS 2c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, damp, heterogeneous, low plasticity, firm with no inclusions		BH334_0.0-0.2	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH334_0.4-0.5	0.1	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH335

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 08-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY PG

COMMENTS 2c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, damp, heterogeneous, low plasticity, firm with trace inclusions of black plastic sheeting		BH335_0.0-0.2	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH335_0.4-0.5	0.2	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH336

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 08-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 2c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, damp, heterogeneous, low plasticity, firm with no inclusions		BH336_0.0-0.2	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH336_0.4-0.5	0.1	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH337

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 08-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 2c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, damp, heterogeneous, low plasticity, firm with no inclusions		BH337_0.0-0.2	0	No odours, staining or ACM observed.
		0.2							
		0.3		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.4					BH337_0.4-0.5	0.2	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7							
		0.8			Termination Depth at: 0.8 m.				
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH338

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 08-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 2c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, damp, heterogeneous, low plasticity, firm with no inclusions		BH338_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3					BH338_0.3-0.4	0.1	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6			Termination Depth at: 0.6 m.				
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH339

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 07-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 2c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, damp, heterogeneous, low plasticity, firm with no inclusions		BH339_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH339_0.4-0.5	0.1	No odours, staining or ACM observed.
		0.5							
		0.6			Termination Depth at: 0.6 m.				
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH340

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 07-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY PG

COMMENTS 2c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with no inclusions		BH340_0.0-0.2	0.1	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		BH340_0.2-0.5	0.1	No odours, staining or ACM observed.
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH341

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 07-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY MC

COMMENTS 2c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with no inclusions		BH341_0.0-0.2	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		BH341_0.2-0.5	0.1	No odours, staining or ACM observed.
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH342

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 07-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY MC

COMMENTS 2c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with no inclusions		BH342_0.0-0.1	0.1	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3					BH342_0.3-0.4	0	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6			Termination Depth at: 0.6 m.				
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH343

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 07-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** PG

COMMENTS 2c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with no inclusions		BH343_0.0-0.2	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		BH343_0.2-0.5	0	No odours, staining or ACM observed.
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH344

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 07-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** PG

COMMENTS 2c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with no inclusions		BH344_0.0-0.2	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		BH344_0.2-0.6	0	No odours, staining or ACM observed.
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH345

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 08-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 2c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with no inclusions		BH345_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3					BH345_0.3-0.4	0.1	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH346

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 08-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY PG

COMMENTS 2c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with no inclusions		BH346_0.0-0.2	0.1	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH346_0.4-0.5	0	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH347

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 14-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** RL

COMMENTS 2c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with no inclusions		BH347_0.0-0.2	0.1	No odours, staining or ACM observed.
		0.2							
		0.3		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.4					BH347_0.4-0.5	0.1	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7							
		0.8			Termination Depth at: 0.8 m.				
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH348

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 08-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY PG

COMMENTS 2c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with no inclusions		BH348_0.0-0.2	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH348_0.4-0.5	0	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH349

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 08-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY PG

COMMENTS 2c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with no inclusions		BH349_0.0-0.2	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH349_0.4-0.5	0.1	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH350

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 08-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY PG

COMMENTS 2c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with no inclusions		BH350_0.0-0.2	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH350_0.4-0.5	0	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH351

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 08-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY PG

COMMENTS 2c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with no inclusions		BH351_0.0-0.2	0.1	No odours, staining or ACM observed.
		0.2							
		0.3		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.4					BH351_0.4-0.5	0	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7							
		0.8			Termination Depth at: 0.8 m.				
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH352

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 08-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY KB

COMMENTS 2c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, damp, heterogeneous, low plasticity, firm with trace inclusions of black plastic sheeting		BH352_0.0-0.1	0.2	No odours, staining or ACM observed.
		0.2							
		0.3		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		BH352_0.3-0.4	0	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6							
		0.7							
		0.8			Termination Depth at: 0.8 m.				
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH353

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 08-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY MC

COMMENTS 2c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with no inclusions		BH353_0.0-0.1	0.1	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		BH353_0.3-0.4	0	No odours, staining or ACM observed.
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH354

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 08-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY PG

COMMENTS 2c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with no inclusions		BH354_0.0-0.2	0	No odours, staining or ACM observed.
		0.2							
		0.3							
		0.4		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		BH354_0.4-0.5	0	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7							
		0.8							
		0.9					BH354_0.9-1.0	0.2	No odours, staining or ACM observed.
		1							
		1.1							
		1.2							
		1.3			Termination Depth at: 1.2 m.				
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH355

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 08-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY PG

COMMENTS 2c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with no inclusions		BH355_0.0-0.2	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH355_0.4-0.5	0.1	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH356

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** KB

COMMENTS 2c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with no inclusions		BH356_0.0-0.1	0	No odours, staining or ACM observed.
		0.2							
		0.3		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		BH356_0.3-0.4	0.1	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6							
		0.7							
		0.8			Termination Depth at: 0.8 m.				
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH357

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 14-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** RL

COMMENTS 1b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1 0.2 0.3 0.4		RWN	Fill (Reworked Natural) - Silty Clay, dark brown, dry to damp, heterogeneous, low plasticity, firm with no inclusions				No odours, staining or ACM observed.
		0.5 0.6 0.7 0.8 0.9		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		1 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9			Termination Depth at: 0.9 m.				

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TEST PIT TP357

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 14-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS x m	**LOGGED BY** RL

COMMENTS 3b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with no inclusions		TP357_0.0-0.1	0.1	No odours, staining or ACM observed.
		0.2							
		0.3							
		0.4		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.5							
		0.6							
		0.7							
		0.8							
		0.9			Termination Depth at: 0.9 m.				
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP358

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 14-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS x m	**LOGGED BY** RL

COMMENTS 3b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with no inclusions		TP358_0.0-0.1	0.1	No odours, staining or ACM observed.
		0.3		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.8			Termination Depth at: 0.8 m.				

SOIL BOREHOLE BH358

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 14-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** RL

COMMENTS 1b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Fill (Reworked Natural) - Silty Clay, dark brown, dry to damp, heterogeneous, low plasticity, firm with no inclusions				No odours, staining or ACM observed.
		0.2							
		0.3		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.4							
		0.5							
		0.6							
		0.7							
		0.8			Termination Depth at: 0.8 m.				
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH359

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 14-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** RL

COMMENTS 3b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with no inclusions				
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH360

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 07-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY MC

COMMENTS 2c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with no inclusions		BH360_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3					BH360_0.3-0.4	0.1	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6			Termination Depth at: 0.6 m.				
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH361

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 08-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 2c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with no inclusions		BH361_0.0-0.4	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				No odours, staining or ACM observed.
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH362

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 08-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 2c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with no inclusions		BH362_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH362_0.4-0.5	0	No odours, staining or ACM observed.
		0.5							
		0.6			Termination Depth at: 0.6 m.				
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH363

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 08-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 2c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with no inclusions		BH363_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3					BH363_0.3-0.4	0	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6			Termination Depth at: 0.6 m.				
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH364

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 07-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY MC

COMMENTS 2c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with no inclusions		BH364_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3					BH364_0.3-0.4	0.1	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6			Termination Depth at: 0.6 m.				
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH365

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 15-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** RL

COMMENTS 2c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with no inclusions		BH365_0.0-0.2	0.1	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		BH365_0.2-0.6	0.2	No odours, staining or ACM observed.
		0.3							
		0.4					BH365_0.4-0.5	0	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH366

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** PG

COMMENTS 2c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with no inclusions		BH366_0.0-0.2	0.2	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		BH366_0.2-0.6	0	No odours, staining or ACM observed.
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH367

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 07-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY MC

COMMENTS 2c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with no inclusions		BH367_0.0-0.1	0.1	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3					BH367_0.3-0.4	0	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6			Termination Depth at: 0.6 m.				
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH368

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 07-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** MC

COMMENTS 2c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1 0.2 0.3 0.4 0.5		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with no inclusions				
		0.6 0.7 0.8 0.9 1 1.1		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9			Termination Depth at: 1.1 m.				

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SOIL BOREHOLE BH369

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 08-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 2c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with no inclusions		BH369_0.0-0.5	0	No odours, staining or ACM observed.
		0.2							No odours, staining or ACM observed.
		0.3		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.4							
		0.5					BH369_0.5-0.6	0	No odours, staining or ACM observed.
		0.6					BH369_0.6-1.1	0.1	
		0.7							
		0.8			Termination Depth at: 0.8 m.				
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH370

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 07-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY MC

COMMENTS 2c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, damp, heterogeneous, low plasticity, firm with trace inclusions of black plastic sheeting		BH370_0.0-0.1	0.1	No odours, staining or ACM observed.
				CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3					BH370_0.3-0.4	0.1	No odours, staining or ACM observed.
		0.6			Termination Depth at: 0.6 m.				

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SOIL BOREHOLE BH371

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 07-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY MC

COMMENTS 2c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with no inclusions		BH371_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3					BH371_0.3-0.4	0.1	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6			Termination Depth at: 0.6 m.				
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH372

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 08-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY KB

COMMENTS 2c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, damp, heterogeneous, low plasticity, firm with trace inclusions of black plastic sheeting		BH372_0.0-0.1	0.1	No odours, staining or ACM observed.
		0.2							
		0.3		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		BH372_0.3-0.4	0	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6							
		0.7							
		0.8			Termination Depth at: 0.8 m.				
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH373

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 08-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY KB

COMMENTS 2c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, damp, heterogeneous, low plasticity, firm with trace inclusions of black plastic sheeting		BH373_0.0-0.1	0	No odours, staining or ACM observed.
		0.2							
		0.3		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		BH373_0.3-0.4	0	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6							
		0.7							
		0.8			Termination Depth at: 0.8 m.				
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH374

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 08-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 3b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, damp, heterogeneous, low plasticity, firm with trace inclusions of black plastic sheeting				
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH375

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** KB

COMMENTS 3b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with no inclusions		BH375_0.0-0.1	0	No odours, staining or ACM observed.
		0.2							
		0.3					BH375_0.3-0.4	0	No odours, staining or ACM observed.
		0.4		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.5							
		0.6							
		0.7							
		0.8							
		0.9			Termination Depth at: 0.9 m.				
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH376

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 08-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 2c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with no inclusions				
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH377

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 08-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY KB

COMMENTS 2c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with no inclusions		BH377_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3					BH377_0.3-0.4	0.1	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6			Termination Depth at: 0.6 m.				
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH378

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 08-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY KB

COMMENTS 2c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with no inclusions		BH378_0.0-0.1	0	No odours, staining or ACM observed.
		0.2							
		0.3					BH378_0.3-0.4	0.2	No odours, staining or ACM observed.
		0.4		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.5							
		0.6							
		0.7							
		0.8							
		0.9			Termination Depth at: 0.9 m.				
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH379

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** KB

COMMENTS 2c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with no inclusions		BH379_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3					BH379_0.3-0.4	0.1	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH380

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** KB

COMMENTS 3b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with no inclusions		BH380_0.0-0.1	0.2	No odours, staining or ACM observed.
		0.2							
		0.3		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.4							
		0.5							
		0.6							
		0.7							
		0.8			Termination Depth at: 0.8 m.				
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH381

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** RL

COMMENTS 2c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with no inclusions				
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH382

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** KB

COMMENTS 2c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with no inclusions		BH382_0.0-0.1	0.1	No odours, staining or ACM observed.
		0.2							
		0.3		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		BH382_0.3-0.4	0	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6							
		0.7							
		0.8			Termination Depth at: 0.8 m.				
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH383

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 08-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY KB

COMMENTS 2c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with no inclusions		BH383_0.0-0.1	0.1	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3					BH383_0.3-0.4	0	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6			Termination Depth at: 0.6 m.				
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH384

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 08-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY MC

COMMENTS 2c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with no inclusions		BH384_0.0-0.1	0.1	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3					BH384_0.3-0.4	0	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6			Termination Depth at: 0.6 m.				
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH385

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 08-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY MC

COMMENTS 2c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with no inclusions		BH385_0.0-0.1	0.1	No odours, staining or ACM observed.
		0.6		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
					Termination Depth at: 0.6 m.				

SOIL BOREHOLE BH386

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 08-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 2c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with no inclusions		BH386_0.0-0.1	0.1	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3					BH386_0.3-0.4	0.1	No odours, staining or ACM observed.
		0.4							
		0.5					BH386_0.5-0.7	0	No odours, staining or ACM observed.
		0.6							No odours, staining or ACM observed.
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH387

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 08-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 2c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with no inclusions		BH387_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3					BH387_0.3-0.4	0	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6			Termination Depth at: 0.6 m.				
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH388

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 07-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY MC

COMMENTS 2c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with no inclusions		BH388_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3					BH388_0.3-0.4	0	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6			Termination Depth at: 0.6 m.				
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH389

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 07-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY MC

COMMENTS 2c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with no inclusions		BH389_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3					BH389_0.3-0.4	0.1	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6			Termination Depth at: 0.6 m.				
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP390

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 13-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS x m	**LOGGED BY** RL

COMMENTS 7a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill (Road Base) - Gravel, grey, dry, heterogeneous, poorly graded, fine to coarse, sub-angular, loose, inclusions of asphalt		TP390_0.0-0.1	0	No odours, staining or ACM observed.
		0.2							
		0.3		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.4					TP390_0.4-0.5	0.1	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7							
		0.8			Termination Depth at: 0.8 m.				
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP391

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 13-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS x m	**LOGGED BY** RL

COMMENTS 6c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill (Stockpiled Material) - Sand, white, dry, heterogeneous, well graded, fine to medium grained, angular, loose with inclusions of trace gravels		TP391_0.0-0.1	0.1	No odours, staining or ACM observed.
		0.2							
		0.3					TP391_0.3-0.4	0.1	No odours, staining or ACM observed.
		0.4		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with no inclusions				
		0.5					TP391_0.5-0.6	0	No odours, staining or ACM observed.
		0.6		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.7							
		0.8							
		0.9							
		1					TP391_1.0-1.1	0	No odours, staining or ACM observed.
		1.1			Termination Depth at: 1.1 m.				
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH392

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 13-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY PG

COMMENTS 5a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - broken cement roofing tiles		BH392_0.0-0.1	0.1	No odours, staining or ACM observed.
				ML-CL	Clayey Silt, brown, damp, heterogeneous, low plasticity, soft with no inclusions				
		0.3		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		BH392_0.4-0.5	0	No odours, staining or ACM observed.
		0.8			Termination Depth at: 0.8 m.				

SOIL BOREHOLE BH393

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 13-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY PG

COMMENTS 5a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - broken cement roofing tiles		BH393_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		ML-CL	Clayey Silt, brown, damp, heterogeneous, low plasticity, soft with no inclusions				
		0.3		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.4					BH393_0.4-0.5	0	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7							
		0.8			Termination Depth at: 0.8 m.				
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH394

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 13-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY PG

COMMENTS 5a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		ML-CL	Clayey Silt, brown, damp, heterogeneous, low plasticity, soft with no inclusions		BH394_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH394_0.4-0.5	0.1	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP395

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 13-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** RL

COMMENTS 6c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		Fill	Fill - Silt, black, damp, heterogeneous, non plastic, firm with trace inclusions of concrete and igneous gravels		TP395_0.0-0.1	0	No odours, staining or ACM observed.
		0.2							
		0.3					TP395_0.3-0.4	0.2	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6					TP395_0.6-0.7	0	No odours, staining or ACM observed.
		0.7							
		0.8		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff. Grading to grey claystone with increasing claystone gravels at depth				
		0.9							
		1					TP395_1.0-1.1	0.1	No odours, staining or ACM observed.
		1.1							
		1.2							
		1.3							
		1.4							
		1.5			Termination Depth at: 1.4 m.				
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP396

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 13-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** RL

COMMENTS 6c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with no inclusions		TP396_0.0-0.1	0	No odours, staining or ACM observed.
		0.2							
		0.3		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff. Grading to grey claystone with increasing claystone gravels at depth				
		0.4					TP396_0.4-0.5	0.2	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7							
		0.8			Termination Depth at: 0.8 m.				
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP397

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 13-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** RL

COMMENTS 6c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		Fill	Fill (Stockpiled Material) - Sandy Gravelly Silt, dry, heterogeneous, low plasticity, soft with inclusions of concrete blocks		TP397_0.0-0.1	0.1	No odours, staining or ACM observed.
		0.2							
		0.3					TP397_0.3-0.4	0	No odours, staining or ACM observed.
		0.4							
		0.5		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with no inclusions				
		0.6					TP397_0.6-0.7	0.1	No odours, staining or ACM observed.
		0.7							
		0.8		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff. Grading to grey claystone with increasing claystone gravels at depth				
		0.9							
		1					TP397_1.0-1.1	0	No odours, staining or ACM observed.
		1.1							
		1.2							
		1.3			Termination Depth at: 1.3 m.				
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP398

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 13-Apr-21
DRILL RIG
DRILLING METHOD
DIMENSIONS 1.5 x 0.4 m

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 6c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		Fill	Fill - Silty Gravel, black (stained), dry to damp, heterogeneous, poorly graded, medium grained, angular, loose to medium dense some inclusions of asphalt gravels		TP398_0.0-0.2	0.1	Hydrocarbon odour, black staining, No ACM observed.
		0.2							
		0.3		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff. Grading to grey claystone with increasing claystone gravels at depth		TP398_0.3-0.4	0.1	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6							
		0.7							
		0.8			Termination Depth at: 0.8 m.				
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH399

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 14-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY PG

COMMENTS 4b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with no inclusions		BH399_0.0-0.1	0	No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4							
		0.5					BH399_0.5-0.6	0.1	No odours, staining or ACM observed.
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP400

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 09-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** CD

COMMENTS 1a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1 0.2 0.3 0.4 0.5 0.6 0.7		ML-CL	Clayey Silt, brown, damp, heterogeneous, low plasticity, soft with no inclusions		TP400_0.0-0.3	0.1	10 Litre AQ taken. No odours, staining or ACM observed.
							TP400_0.4-0.6	0	No odours, staining or ACM observed.
		0.8 0.9 1 1.1 1.2 1.3 1.4		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff. Grading to grey claystone with increasing claystone gravels at depth				
		1.5 1.6 1.7 1.8 1.9			Termination Depth at: 1.4 m.				

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TEST PIT TP401

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 09-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** CD

COMMENTS 1a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1 1.1 1.2 1.3 1.4		ML-CL	Clayey Silt, brown, damp, heterogeneous, low plasticity, soft with no inclusions		TP401_0.0-0.3	0	10 Litre AQ taken. No odours, staining or ACM observed.
							TP401_0.4-0.6	0	No odours, staining or ACM observed.
				CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff. Grading to grey claystone with increasing claystone gravels at depth				
		1.5 1.6 1.7 1.8 1.9			Termination Depth at: 1.4 m.				

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TEST PIT TP402

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 09-Apr-21
DRILL RIG
DRILLING METHOD
DIMENSIONS 1.5 x 0.4 m

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY CD

COMMENTS 1a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1 0.2 0.3 0.4 0.5 0.6		ML-CL	Clayey Silt, brown, damp, heterogeneous, low plasticity, soft with no inclusions		TP402_0.0-0.3	0	10 Litre AQ taken. No odours, staining or ACM observed.
							TP402_0.4-0.6	0	No odours, staining or ACM observed.
		0.7 0.8 0.9 1 1.1 1.2 1.3 1.4		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff. Grading to grey claystone with increasing claystone gravels at depth				
		1.5 1.6 1.7 1.8 1.9			Termination Depth at: 1.4 m.				

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TEST PIT TP403

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 09-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** CD

COMMENTS 1a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8		Fill	Fill - Gravelly Clayey Silt, dark grey, damp, heterogeneous, low plasticity, firm. Gravels were black, igneous, medium to coarse size (roadbase)		TP403_0.0-0.3	0.1	10 Litre AQ taken. No odours, staining or ACM observed.
				CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff. Grading to grey claystone with increasing claystone gravels at depth				
		0.9 1 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9			Termination Depth at: 0.8 m.				

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TEST PIT TP404

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 09-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** CD

COMMENTS 1a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1 0.2 0.3 0.4		Fill	Fill - Gravelly Clayey Silt, dark grey, damp, heterogeneous, low plasticity, firm. Gravels were black, igneous, medium to coarse size (roadbase)		TP404_0.0-0.4	0	10 Litre AQ taken. No odours, staining or ACM observed.
		0.4 0.5 0.6 0.7		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff. Grading to grey claystone with increasing claystone gravels at depth				
		0.8 0.9 1 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9			Termination Depth at: 0.8 m.				

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TEST PIT TP405

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 09-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** CD

COMMENTS 1a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1 0.2 0.3 0.4		Fill	Fill - Gravelly Clayey Silt, dark grey, damp, heterogeneous, low plasticity, firm. Gravels were black, igneous, medium to coarse size (roadbase)		TP405_0.0-0.4	0.2	10 Litre AQ taken. No odours, staining or ACM observed.
		0.5 0.6 0.7 0.8		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff. Grading to grey claystone with increasing claystone gravels at depth				
		0.9 1 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9			Termination Depth at: 0.8 m.				

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SOIL BOREHOLE BH406

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 15-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** RL

COMMENTS 1a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - Gravelly Silt, black, dry, heterogeneous, non plastic, firm with no inclusions		BH406_0.0-0.2	0	10 Litre AQ taken. No odours, staining or ACM observed.
							BH406_0.1-0.3	0	10 Litre AQ taken. No odours, staining or ACM observed.
		0.2		ML-CL	Clayey Silt, brown, damp, heterogeneous, low plasticity, firm with no inclusions		BH406 0.15-0.3		
		0.3		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.4							
		0.5					BH406_0.5-0.6	0.1	No odours, staining or ACM observed.
		0.6							
		0.7							
		0.8			Termination Depth at: 0.8 m.				
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH407

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 15-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 1a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - Gravelly Silt, black, dry, heterogeneous, non plastic, firm with no inclusions		BH407_0.0-0.1	0.1	10 Litre AQ taken. No odours, staining or ACM observed.
				ML-CL	Clayey Silt, brown, damp, heterogeneous, low plasticity, firm with no inclusions		BH407_0.1-0.5	0.2	10 Litre AQ taken. No odours, staining or ACM observed.
		0.5		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.7					BH407_0.7-0.8	0	No odours, staining or ACM observed.
		1			Termination Depth at: 1.0 m.				
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH408

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 15-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 1a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - Gravelly Silt, black, dry, heterogeneous, non plastic, firm with no inclusions		BH408_0.0-0.1	0	10 Litre AQ taken. No odours, staining or ACM observed.
		0.2		ML-CL	Clayey Silt, brown, damp, heterogeneous, low plasticity, firm with no inclusions		BH408_0.1-0.4	0	10 Litre AQ taken. No odours, staining or ACM observed.
		0.3							
		0.4		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.5					BH408_0.5-0.6	0.1	No odours, staining or ACM observed.
		0.6							
		0.7							
		0.8							
		0.9			Termination Depth at: 0.9 m.				
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH409

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 15-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** RL

COMMENTS 1a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - Gravelly Silt, black, dry, heterogeneous, non plastic, firm with no inclusions		BH409_0.0-0.2	0.1	10 Litre AQ taken. No odours, staining or ACM observed.
							BH409_0.1-0.4	0.1	
		0.2		ML-CL	Clayey Silt, brown, damp, heterogeneous, low plasticity, firm with no inclusions				10 Litre AQ taken. No odours, staining or ACM observed.
		0.3							
		0.4		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.5					BH409_0.5-0.6	0.1	No odours, staining or ACM observed.
		0.6							
		0.7							
		0.8							
		0.9			Termination Depth at: 0.9 m.				
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH410

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 15-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 1a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - Gravelly Silt, black, dry, heterogeneous, non plastic, firm with no inclusions		BH410_0.0-0.2	0	10 Litre AQ taken. No odours, staining or ACM observed.
		0.2		ML-CL	Clayey Silt, brown, damp, heterogeneous, low plasticity, firm with no inclusions		BH410_0.2-0.5	0	10 Litre AQ taken. No odours, staining or ACM observed.
		0.5		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		1			Termination Depth at: 1.0 m.				
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH411

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 15-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** RL

COMMENTS 1a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		ML-CL	Clayey Silt, brown, damp, heterogeneous, low plasticity, firm with no inclusions		BH411_0.0-0.2	0	10 Litre AQ taken. No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH411_0.4-0.5	0.1	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH412

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 15-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** RL

COMMENTS 1b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - Clayey Silt, brown, dry, heterogeneous, low plasticity, soft to firm with little (10-20%) inclusions of tile, plastic and ACM fragments		BH412_0.0-0.4	0	No odours, staining or ACM observed. 10 Litre AQ taken - potential ACM Fragments observed. No odours or staining observed.
		0.2							
		0.3							
		0.4		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.5							
		0.6							
		0.7							
		0.8							
		0.9			Termination Depth at: 0.9 m.				
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH413

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 14-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** KB

COMMENTS 1b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - Clayey Silt, brown, dry, heterogeneous, low plasticity, soft to firm with trace inclusions of tile and plastic		BH413_0.0-1.0	0.1	No odours, staining or ACM observed.
		0.2							
		0.3		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.4							10 Litre AQ taken. No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7							
		0.8			Termination Depth at: 0.8 m.				
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH414

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 14-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY KB

COMMENTS 1b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - Clayey Silt, brown, dry, heterogeneous, low plasticity, soft to firm with trace inclusions of tile and plastic		BH414_0.0-0.2	0.2	No odours, staining or ACM observed. 10 Litre AQ taken. No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH415

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 14-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY KB

COMMENTS 1b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - Gravelly Clayey Silt, brown, dry, heterogeneous, low plasticity, stiff with no inclusions. Gravels were dark grey, igneous, medium to coarse size (roadbase)		BH415_0.0-0.2	0.1	No odours, staining or ACM observed. 10 Litre AQ taken. No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH416

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 14-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** KB

COMMENTS 1b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - Gravelly Clayey Silt, brown, dry, heterogeneous, low plasticity, stiff with no inclusions. Gravels were dark grey, igneous, medium to coarse size (roadbase)		BH416_0.0-0.2	0.2	No odours, staining or ACM observed. 10 Litre AQ taken. No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH417

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 14-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY KB

COMMENTS 1b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - Gravelly Clayey Silt, brown, dry, heterogeneous, low plasticity, firm with little (10-20%) inclusions of concrete, tile and plastic		BH417_0.0-0.2	0.1	No odours, staining or ACM observed. 10 Litre AQ taken. No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.7			Termination Depth at: 0.7 m.				

SOIL BOREHOLE BH418

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 14-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** KB

COMMENTS 1b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - Gravelly Clayey Silt, brown, dry, heterogeneous, low plasticity, firm with little (10-20%) inclusions of concrete, tile and plastic		BH418_0.0-0.3	0.1	No odours, staining or ACM observed. 10 Litre AQ taken. No odours, staining or ACM observed.
		0.2							
		0.3		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.4							
		0.5							
		0.6							
		0.7							
		0.8			Termination Depth at: 0.8 m.				
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH419

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 15-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 1b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - Gravelly Silt, black, dry, heterogeneous, non plastic, firm with trace inclusions of concrete and tile		BH419_0.0-0.2	0.1	10 Litre AQ taken. No odours, staining or ACM observed.
		0.2		Fill	Fill - Gravelly Clayey Silt, brown, dry, heterogeneous, low plasticity, firm with little (10-20%) inclusions of concrete, tile and plastic		BH419_0.2-0.3	0	No odours, staining or ACM observed.
		0.3		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.4							
		0.5					BH419_0.5-0.6	0.1	No odours, staining or ACM observed.
		0.6							
		0.7							
		0.8			Termination Depth at: 0.8 m.				
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH420

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 14-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY KB

COMMENTS 1b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - Gravelly Clayey Silt, brown, dry, heterogeneous, low plasticity, firm with some (20-35%) igneous medium gravels		BH420_0.0-0.1	0	10 Litre AQ taken. No odours, staining or ACM observed.
				Fill	Fill - Lense of black coal				
		0.2		Fill	Fill - Gravelly Sand, white, dry, heterogenous, poorly graded, fine to medium grained, sub angular, medium dense with no inclusions		BH420_0.2-0.3	0.1	10 Litre AQ taken. No odours, staining or ACM observed.
		0.3		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.4							
		0.5					BH420_0.5-0.6	0	No odours, staining or ACM observed.
		0.6							
		0.7							
		0.8			Termination Depth at: 0.8 m.				
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH421

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 14-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY KB

COMMENTS 1b

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - Gravelly Clayey Silt, brown, dry, heterogeneous, low plasticity, firm with some (20-35%) igneous medium gravels		BH421_0.0-0.1	0	10 Litre AQ taken. No odours, staining or ACM observed.
		0.2		Fill	Fill - Gravelly Sand, white, dry, heterogenous, poorly graded, fine to medium grained, sub angular, medium dense with no inclusions		BH421_0.1-0.2	0.1	10 Litre AQ taken. No odours, staining or ACM observed.
		0.3		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with no inclusions				
		0.4					BH421_0.4-0.5	0	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.8					BH421_0.8-0.9	0	No odours, staining or ACM observed.
		0.9							
		1							
		1.1							
		1.2			Termination Depth at: 1.2 m.				
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH422

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 12-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 1c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with inclusions of rootlets		BH422-0-0.1	0.1	10 Litre AQ taken. No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH422_0.4-0.5	0	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH423

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 12-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 1c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with inclusions of rootlets		BH423-0-0.1	0	10 Litre AQ taken. No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH423_0.4-0.5	0	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH424

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 12-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 1c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with inclusions of rootlets		BH424-0-0.1	0.1	10 Litre AQ taken. No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH424_0.4-0.5	0.1	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH425

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 12-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 1c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with inclusions of rootlets		BH425-0-0.2	0	10 Litre AQ taken. No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH425_0.4-0.5	0.1	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH426

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 12-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 1c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with inclusions of rootlets		BH426-0-0.1	0.1	10 Litre AQ taken. No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3					BH426_0.3-0.4	0	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6			Termination Depth at: 0.6 m.				
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH427

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 12-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 1c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with inclusions of rootlets		BH427-0-0.2	0	10 Litre AQ taken. No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3					BH427-0.3-0.4	0	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH428

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 12-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 1c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with inclusions of rootlets		BH428-0-0.15	0	10 Litre AQ taken. No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3					BH428-0.3-0.4	0	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH429

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 12-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 1c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with inclusions of rootlets		BH429-0-0.2	0	10 Litre AQ taken. No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3					BH429_0.3-0.4	0.1	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6							
		0.7							
		0.8							
		0.9			Termination Depth at: 0.9 m.				
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH430

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 12-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 1c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with inclusions of rootlets		BH430_0.0-0.2	0.2	10 Litre AQ taken. No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH431

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 12-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 1c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with inclusions of rootlets		BH431_0.0-0.2	0.1	10 Litre AQ taken. No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3					BH431_0.3-0.4	0	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH432

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 12-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 1d

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill (Stockpiled Material) - Clayey Siltey Gravel (crushed concrete/asphalt and igneous), white/grey and black, dry, heterogeneous, well graded, medium to coarse, sub angular, loose with trace inclusions of plastic		BH432_0.0-0.3	0	10 Litre AQ taken. No odours, staining or ACM observed.
		0.2							
		0.3							
		0.4		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with inclusions of rootlets				
		0.5					BH432_0.5-0.6	0	No odours, staining or ACM observed.
		0.6		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.7					BH432_0.7-0.8	0.2	No odours, staining or ACM observed.
		0.8							
		0.9							
		1			Termination Depth at: 1.0 m.				
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH434

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 09-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** RL

COMMENTS 1e/4f

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with no inclusions		BH434_0.0-0.2	0.1	10 Litre AQ taken. No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		BH434_0.2-0.3	0	No odours, staining or ACM observed.
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH435

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 09-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 1e/4f

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with no inclusions		BH435_0.0-0.1	0.1	10 Litre AQ taken. No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3					BH435_0.3-0.4	0	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH436

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 09-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 1e/4f

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with trace inclusions of plastic		BH436_0.0-0.2	0.1	10 Litre AQ taken. No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		BH436_0.2-0.3	0.1	No odours, staining or ACM observed.
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH437

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 09-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 1e/4f

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, moist, heterogeneous, low plasticity, firm with no inclusions		BH437_0.0-0.2	0.1	10 Litre AQ taken. No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3					BH437_0.3-0.4	0	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH438

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 09-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 1e/4f

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, moist, heterogeneous, low plasticity, firm with no inclusions		BH438_0.0-0.2	0	10 Litre AQ taken. No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		BH438_0.2-0.4	0.1	No odours, staining or ACM observed.
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH439

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 09-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 1e/4f

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, moist, heterogeneous, low plasticity, firm with no inclusions		BH439_0.0-0.2	0	10 Litre AQ taken. No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		BH439_0.2-0.4	0	No odours, staining or ACM observed.
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH440

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 09-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 1e/4f

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, moist, heterogeneous, low plasticity, firm with no inclusions		BH440_0.0-0.2	0	10 Litre AQ taken. No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH440_0.4-0.5		
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH441

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 09-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 1e/4f

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with no inclusions		BH441_0.0-0.2	0	10 Litre AQ taken. No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3					BH441_0.3-0.4	0.1	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH442

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 09-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 1e/4f

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with no inclusions		BH442_0.0-0.1	0	10 Litre AQ taken. No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3					BH442_0.3-0.4	0.2	No odours, staining or ACM observed.
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH443

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 09-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 1e/4f

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with no inclusions		BH443_0.0-0.3	0	10 Litre AQ taken. No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4							
		0.5					BH443_0.5-0.6	0.1	No odours, staining or ACM observed.
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH444

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 09-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING 295,983.08
NORTHING 6,252,515.13
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Fill (Reworked Natural) - Silty Clay, dark brown, dry to damp, heterogeneous, low plasticity, firm with trace inclusions of plastic		BH444_0.0-0.3	0	10 Litre AQ taken. No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4							
		0.5					BH444_0.5-0.6	0.2	No odours, staining or ACM observed.
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP444

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 09-Apr-21
DRILL RIG
DRILLING METHOD
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 1e/4f

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with trace inclusions of plastic		TP444_0.0-0.3	0	10 Litre AQ taken. No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4							
		0.5					BH444_0.5-0.6	0.2	No odours, staining or ACM observed.
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP445

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 09-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS x m	**LOGGED BY** RL

COMMENTS 1e/4f

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, moist, heterogeneous, low plasticity, firm with no inclusions		BH445_0.0-0.2	0.1	10 Litre AQ taken. No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH445_0.4-0.6	0	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH445

PROJECT NUMBER 60482	**DRILLING COMPANY**	**EASTING** 296,014.56
PROJECT NAME DSI	**DRILLING DATE** 09-Apr-21	**NORTHING** 6,252,516.34
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIAMETER 150 mm	**LOGGED BY** RL

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Fill (Reworked Natural) - Silty Clay, dark brown, moist, heterogeneous, low plasticity, firm with no inclusions		BH445_0.0-0.2	0.1	10 Litre AQ taken. No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3							
		0.4					BH445_0.4-0.6	0	No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH446

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 09-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 1e/4f

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, moist, heterogeneous, low plasticity, firm with no inclusions		BH446_0.0-0.2	0.1	10 Litre AQ taken. No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		0.3					BH446_0.3-0.6	0	
		0.4							No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE BH447

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 09-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 1e/4f

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with trace inclusions of plastic		BH447_0.0-0.2	0	10 Litre AQ taken. No odours, staining or ACM observed.
		0.2		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		BH447_0.2-0.4	0.1	No odours, staining or ACM observed.
		0.3							
		0.4							
		0.5							
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP448

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** CD

COMMENTS 1e/4f

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1 0.2 0.3		RWN	Clayey Silt (Reworked Natural), dark brown, dry to damp, heterogeneous, low plasticity, firm with no inclusions		TP448_0.0-0.3	0	10 Litre AQ taken. No odours, staining or ACM observed.
		0.4 0.5 0.6 0.7 0.8 0.9 1		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9			Termination Depth at: 1.0 m.				

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TEST PIT TP449

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** CD

COMMENTS 1f/3c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		RWN	Clayey Silt (Reworked Natural), dark brown, dry, heterogeneous, low plasticity, firm with no inclusions				
		0.2							
		0.3		Fill	Fill - Clayey Silt, dark grey, damp, heterogeneous, low plasticity, firm with little (10-20%) inclusions of tile, brick, PVC and polystyrene		TP449_0.3-0.9	0	
		0.4							
		0.5							10 Litre AQ taken. No odours, staining or ACM observed.
		0.6							
		0.7							
		0.8							
		0.9		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		1					TP449_1.0-1.3	0	No odours, staining or ACM observed.
		1.1							No odours, staining or ACM observed.
		1.2					TP449 1.2-1.3		
		1.3							
		1.4			Termination Depth at: 1.4 m.				
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP450

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** CD

COMMENTS 1f/3c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2 0.4 0.6 0.8 1 1.2 1.4 1.6 1.8 2 2.2 2.4		Fill	Fill - Clayey Silt, light brown, damp, heterogeneous, low plasticity, firm with trace inclusions of claystone gravels		TP450_0.0-1.0	0.1	10 Litre AQ taken. No odours, staining or ACM observed.
							TP450_1.0-2.0	0	10 Litre AQ taken. No odours, staining or ACM observed.
							TP450_2.0-2.5	0	10 Litre AQ taken. No odours, staining or ACM observed.
		2.6 2.8 3		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff		TP450_2.5-2.6	0.2	No odours, staining or ACM observed.
		3.2 3.4 3.6 3.8 4 4.2 4.4 4.6 4.8			Termination Depth at: 3.0 m.				

TEST PIT TP451

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** CD

COMMENTS 1f/3c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2 0.4 0.6 0.8 1		Fill	Fill - Clayey Silt, brown, damp, heterogeneous, low to moderate plasticity, firm with trace inclusions of general household rubbihs (plastic bottles etc)		TP451_0.0-1.0	0	10 Litre AQ taken. No odours, staining or ACM observed. 10 Litre AQ taken. No odours, staining or ACM observed.
		1.2 1.4 1.6 1.8 2 2.2 2.4 2.6 2.8		Fill	Fill - Clayey Silt, black, damp becoming saturated from 2.0 m bgs, heterogeneous, low plasticity, firm with trace inclusions of claystone gravels, polystyrene and other general household rubbish		TP451_1.0-2.0 TP451_2.0-2.8	0.2 0	10 Litre AQ taken. No odours, staining or ACM observed. 10 Litre AQ taken. No odours, staining or ACM observed.
		3 3.2 3.4 3.6 3.8		Fill	Fill - Building and Demolition Waste (bricks, concrete blocks and tile), with Gravelly Sandy Clay matrix, grey, saturated, moderate plasticity, soft		TP451_2.8-3.8	0.1	No odours, staining or ACM observed. 10 Litre AQ taken. No odours, staining or ACM observed.
		4 4.2 4.4 4.6 4.8			Termination Depth at: 3.8 m.				

TEST PIT TP452

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** RL

COMMENTS 1f/3c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2 0.4 0.6 0.8 1		Fill	Fill - Clayey Silt, brown, damp, heterogenous,low plsticity, firm with inclusions of trace claystone gravels and several tyres		TP452_0.0-1.0	0	No odours, staining or ACM observed. 10 Litre AQ taken. No odours, staining or ACM observed.
		1 1.2 1.4 1.6 1.8 2		Fill	Fill - Clay, brown mottled grey, damp, heterogeneous, moderate plasticity, firm with inclusions of tyres		TP452_1.0-2.0 TP452_1.1-1.2	0.1 0.1	No odours, staining or ACM observed. 10 Litre AQ taken. No odours, staining or ACM observed.
		2.2 2.4 2.6 2.8		CL	Clay - Sandy Clay (Alluvium), brown mottled grey, damp, heterogeneous, moderate plasticity, firm to stiff with trace inclusions of claystone gravels		TP452_2.4-2.5	0.1	No odours, staining or ACM observed.
		3 3.2 3.4 3.6 3.8 4 4.2 4.4 4.6 4.8			Termination Depth at: 2.9 m.				

TEST PIT TP453

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** CD

COMMENTS 1f/3c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9		Fill	Fill - Clayey Silt, brown, damp, heterogeneous, low plasticity, firm with no inclusions		TP453_0.0-0.9	0	10 Litre AQ taken. No odours, staining or ACM observed.
		1 1.1 1.2 1.3 1.4		Concrete	Fill - Tyres				
		1.5 1.6 1.7 1.8 1.9		CL	Clay - Sandy Clay (Alluvium), brown mottled grey, damp, heterogeneous, moderate plasticity, firm to stiff with trace inclusions of claystone gravels				
					Termination Depth at: 1.9 m.				

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TEST PIT TP454

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** CD

COMMENTS 1f/3c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		Fill	Fill - Clayey Silt, drown, damp, heterogenous, low plasticity, soft with no inclusions		TP454_0.0-0.7	0.1	10 Litre AQ taken. No odours, staining or ACM observed.
		0.7		Fill	Fill - Clayey Silt, black mottle dark grey, wet, heterogenous, non plastic		TP454_0.7-1.2	0	10 Litre AQ taken. No odours, staining or ACM observed.
		1.2		CL	Clay - Sandy Clay (Alluvium), light brown, damp, heterogeneous, moderate to high plasticity, firm to stiff with trace inclusions of claystone gravels		TP454_1.4-1.5	0	Organic odour. No staining or ACM observed.
		1.7			Termination Depth at: 1.7 m.				

TEST PIT TP455

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** CD

COMMENTS 1f/3c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2 0.4 0.6 0.8 1 1.2 1.4 1.6 1.8		Fill	Fill - Clayey Silt, brown, damp, heterogeneous, moderate plasticity, stiff with inclusions of roots		TP455_0.0-1.0	0	10 Litre AQ taken. No odours, staining or ACM observed.
							TP455_1.0-1.8	0	10 Litre AQ taken. No odours, staining or ACM observed.
		2 2.2 2.4 2.6 2.8 3 3.2 3.4		Fill	Fill - Sandy Clay, black mottled grey, damp becoming wet at 2.0 m bgs and saturated at 3.0 m bgs, heterogeneous, moderate plasticity, firm to stiff with slittle (10-20%) inclusions of glass, bricks, plastic, polystyrene and plastic		TP455_1.8-2.5	0	10 Litre AQ taken. No odours, staining or ACM observed.
							TP455_2.5-3.5	0.1	10 Litre AQ taken. No odours, staining or ACM observed.
		3.6 3.8 4 4.2 4.4 4.6 4.8			Termination Depth at: 3.5 m.				

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TEST PIT TP456

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** CD

COMMENTS 1f/3c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2 0.4 0.6 0.8 1		Fill	Fill - Sandy Clayey Silt, damp, heterogeneous, low plasticity, firm with inclusions of roots		TP456_0.0-1.0	0.1	No odours, staining or ACM observed. 10 Litre AQ taken. No odours, staining or ACM observed.
		1.2 1.4 1.6 1.8 2 2.2 2.4 2.6 2.8		Fill	Fill - Gravelly Clayey Silt, brown, damp, heterogeneous, stiff with inclusions of cobble sandstone gravels, trace oysters and brick fragments		TP456_1.0-2.0 TP456_2.8-3.0	0.1 0.1	10 Litre AQ taken. No odours, staining or ACM observed. No odours, staining or ACM observed.
		3 3.2		Fill	Fill - Clayey Silt, brown, moist, heterogeneous, stiff with no inclusions				
		3.4 3.6		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		3.8 4 4.2 4.4 4.6 4.8			Termination Depth at: 3.6 m.				

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TEST PIT TP457

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** CD

COMMENTS 1f/3c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2		Fill	Fill - Sandy Clay, light brown, dry, heterogenous, low plasticity, firm with no inclusions		TP457_0.0-1.0	0	No odours, staining or ACM observed.
		0.4							10 Litre AQ taken. No odours, staining or ACM observed.
		0.6		Fill	Fill - Sandy Clay, grey and light brown, dry, heterogeneous, low to moderate plasticity, stiff with little (10-20%) inclusions of building and demolition waste, bricks, plastic and wire				
		0.8							
		1					TP457_1.0-2.0	0.1	
		1.2							10 Litre AQ taken. No odours, staining or ACM observed.
		1.4							
		1.6							
		1.8							
		2					TP457_2.0-2.5	0	10 Litre AQ taken. No odours, staining or ACM observed.
		2.2							
		2.4							No odours, staining or ACM observed.
		2.6		CL	Clay - light brown mottled grey, damp, homogeneous, moderate plasiticty, stiff		TP457_2.5-2.6	0	
		2.8							
		3			Termination Depth at: 3.0 m.				
		3.2							
		3.4							
		3.6							
		3.8							
		4							
		4.2							
		4.4							
		4.6							
		4.8							

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TEST PIT TP458

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** CD

COMMENTS 1f/3c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9		Fill	Fill - Clayey Silt, light brown mottled red and white, damp, heterogeneous, moderate plasticity, firm with inclusions of some (20-35%) brick and tile		TP458_0-0.9	0	10 Litre AQ taken. No odours, staining or ACM observed.
		1 1.1 1.2 1.3 1.4		CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff				
		1.5 1.6 1.7 1.8 1.9			Termination Depth at: 1.4 m.				

TEST PIT TP459

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 08-Apr-21
DRILL RIG
DRILLING METHOD
DIMENSIONS 1.5 x 0.4 m

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY CD

COMMENTS 1f/3c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2		Fill	Fill - Clayey Silt, brown, damp, heterogeneous, moderate plasticity, firm with no inclusions		TP459_0.0-0.4	0.1	10 Litre AQ taken. No odours, staining or ACM observed.
		0.4		Fill	Fill - Gravelly Clayey Silt, dark grey, damp, heterogenous, low plasticity, firm. Angular igneous medium gravels and inclusions of trace plastic, brick and tile		TP459_0.4-1.4	0	10 Litre AQ taken. No odours, staining or ACM observed.
		0.6							
		0.8							
		1							
		1.2							
		1.4					TP459_1.4-2.4	0	
		1.6							10 Litre AQ taken. No odours, staining or ACM observed.
		1.8							
		2							
		2.2							
		2.4		CL	Clay - reddish brown, moist, homogeneous, high plasiticty, stiff				
		2.6							
		2.8							
		3			Termination Depth at: 2.9 m.				
		3.2							
		3.4							
		3.6							
		3.8							
		4							
		4.2							
		4.4							
		4.6							
		4.8							

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TEST PIT TP460

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** CD

COMMENTS 1f/3c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2 0.4 0.6 0.8 1		Fill	Fill - Silty Sandy Clay, brown, damp, heterogenous, moderate plasticity, firm with inclusions of trace igneous gravels and rootlets		TP460_0.0-1.0	0	No odours, staining or ACM observed. 10 Litre AQ taken. No odours, staining or ACM observed.
		1.2 1.4 1.6 1.8 2 2.2 2.4 2.6		Fill	Fill - Clayey Silt, black, damp to moist, heterogeneous, low plasticity, firm with little (10-20%) inclusions of building and dmeolition waste, bricks, concrete and tiles		TP460_1.0-2.0 TP460_2.0-2.6	0.1 0.2	10 Litre AQ taken. No odours, staining or ACM observed. 10 Litre AQ taken, potential ACM fragments observed. No odours or staining observed.
		2.8		Fill	Fill - Silty Sandy Gravel, light grey, heterogeneous, non plastic, soft with come (20-35%) inclusions of brick, wood, vinyl tiles		TP460_2.6-2.8	0	No odours, staining or ACM observed.
		3 3.2 3.4 3.6 3.8 4 4.2 4.4 4.6 4.8			Termination Depth at: 2.9 m.				

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TEST PIT TP461

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** CD

COMMENTS 1f/3c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2		Fill	Fill - Clayey Silt, light brown, damp, heterogenous, low plasticity, firm with inclusions of a single tyre		TP461_0.1-1.0	0	10 Litre AQ taken. Organic odour. No staining or ACM observed.
		1		Fill	Fill - Clayey Silt, dark grey, saturated, heterogeneous, low plasticity, stiff with no inclusions		TP461_1.0-2.0	0.1	10 Litre AQ taken. Organic odour. No staining or ACM observed.
		2		CL	Clay - reddish brown, moist, homogeneous, high plasiticty, stiff				
		2.4					TP461_2.4-2.5	0	No odours, staining or ACM observed.
		2.6			Termination Depth at: 2.6 m.				
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							
		4							
		4.2							
		4.4							
		4.6							
		4.8							

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TEST PIT TP462

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** CD

COMMENTS 1f/3c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2 0.4 0.6 0.8 1		Fill	Fill - Clayey Silt, light brown, damp, heterogenous, moderate plasticity, soft with no inclusions		TP462_0.0-1.0	0.1	10 Litre AQ taken. No odours, staining or ACM observed.
		1.2 1.4 1.6 1.8 2 2.2 2.4 2.6 2.8 3 3.2 3.4 3.6 3.8		Fill	Fill - Clayey Silt, dark grey, damp, heterogeneous, moderate plasticity, firm with some (20-35%) inclusions of brick, metal, plastic, tyres and potential ACM fragments		TP462_1.0-2.0	0	10 Litre AQ taken. No odours, staining or ACM observed.
							TP462_2.0-3.0	0.1	10 Litre AQ taken. No odours, staining or ACM observed.
							TP462_3.0-3.8	0.1	10 Litre AQ taken. No odours, staining or ACM observed.
		4		CL	Clay - Sandy Clay (Alluvium), light brown, damp, heterogeneous, moderate to high plasticity, firm to stiff with trace inclusions of claystone gravels				
		4.2 4.4 4.6 4.8			Termination Depth at: 4.3 m.				

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TEST PIT TP463

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** CD

COMMENTS 1f/3c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2 0.4 0.6 0.8		Fill	Fill - Clayey Silt, light brown, damp, heterogenous, moderate plasticity, soft to firm with no inclusions		TP463_0.0-0.8	0	10 Litre AQ taken. No odours, staining or ACM observed.
		1 1.2 1.4 1.6 1.8 2 2.2 2.4 2.6 2.8 3 3.2 3.4 3.6 3.8 4 4.2		Fill	Fill - Clayey Silt, dark grey, damp, heterogenous, moderate plasticity, stiff with little (10-20%) inclusions of building and demolition waste including potential ACM, concrete, metal and wood		TP463_0.8-1.8	0.1	10 Litre AQ taken. No odours, staining or ACM observed.
							TP463_1.8-2.8	0	10 Litre AQ taken. No odours, staining or ACM observed.
							TP463_2.8-3.8	0	10 Litre AQ taken. No odours, staining or ACM observed.
							TP463_3.8-4.2	0.1	10 Litre AQ taken. No odours, staining or ACM observed.
				CL	Clay - reddish brown, damp, homogeneous, high plasiticty, stiff. Grading to grey claystone with increasing claystone gravels at depth		TP463_4.2-4.7	0	No odours, staining or ACM observed.
		4.4 4.6					TP463_4.3-4.4	0	No odours, staining or ACM observed.
		4.8			Termination Depth at: 4.7 m.				

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TEST PIT TP464

PROJECT NUMBER 60482	**DRILLING COMPANY** Ken Coles	**EASTING** N/A
PROJECT NAME DSI	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Industrial	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS Aldington Road, Kemps Creek, NSW	**DRILLING METHOD**	**COORD SOURCE** GPS
	DIMENSIONS 1.5 x 0.4 m	**LOGGED BY** CD

COMMENTS 1f/3c

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2		Fill	Fill - Clayey Silt, brownish orange, damp, heterogenous, moderate plasticity, soft with trace inclusions of igneous gravels		TP464_0.0-1.0	0.2	10 Litre AQ taken. No odours, staining or ACM observed.
		1					TP464_1.0-1.6	0.1	10 Litre AQ taken. No odours, staining or ACM observed.
		1.6		Fill	Fill - Clayey Silt, dark grey, damp, heterogeneous, low plasticity, firm with trace inclusions of tile and concrete		TP464_1.6-2.3	0	10 Litre AQ taken. No odours, staining or ACM observed.
		2.2		CL	Clay - Sandy Clay (Alluvium), brown mottled grey, damp, heterogeneous, moderate plasticity, firm to stiff with trace inclusions of claystone gravels		TP464_2.3-2.4	0	No odours, staining or ACM observed.
		2.8			Termination Depth at: 2.8 m.				

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SOIL BOREHOLE BH465

PROJECT NUMBER 60482
PROJECT NAME DSI
CLIENT Frasers Property Industrial
ADDRESS Aldington Road, Kemps Creek, NSW

DRILLING COMPANY
DRILLING DATE 15-Apr-21
DRILL RIG
DRILLING METHOD
DIAMETER 150 mm

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE GPS
LOGGED BY RL

COMMENTS 6a

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		ML-CL	Clayey Silt, brown, damp, heterogeneous, low plasticity, soft with trace inclusions of rootlets		TP465_0.0-0.2		No odours, staining or ACM observed.
		0.2		CL	Clay - light brown mottled red, damp, homogeneous, moderate to high plasiticty, stiff				
		0.3							
		0.4					TP465_0.4-0.5		No odours, staining or ACM observed.
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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Attachment 6 – 95% UCL Calculations

UCL Statistics for Uncensored Full Data Sets

User Selected Options	
Date/Time of Computation	2/04/2024 2:31:37 PM
From File	WorkSheet_c.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Chromium Concentration (mg/kg)

General Statistics

Total Number of Observations	203	Number of Distinct Observations	32
		Number of Missing Observations	135
Minimum	5	Mean	22.23
Maximum	110	Median	21
SD	9.78	Std. Error of Mean	0.686
Coefficient of Variation	0.44	Skewness	5.077

Normal GOF Test

Shapiro Wilk Test Statistic	0.653	**Shapiro Wilk GOF Test**
5% Shapiro Wilk P Value	0	Data Not Normal at 5% Significance Level
Lilliefors Test Statistic	0.216	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.0622	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	23.36	95% Adjusted-CLT UCL (Chen-1995)	23.62
		95% Modified-t UCL (Johnson-1978)	23.4

Gamma GOF Test

A-D Test Statistic	5.268	**Anderson-Darling Gamma GOF Test**
5% A-D Critical Value	0.753	Data Not Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.149	**Kolmogrov-Smirnoff Gamma GOF Test**
5% K-S Critical Value	0.0633	Data Not Gamma Distributed at 5% Significance Level

Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	8.593	k star (bias corrected MLE)	8.469
Theta hat (MLE)	2.587	Theta star (bias corrected MLE)	2.625
nu hat (MLE)	3489	nu star (bias corrected)	3438
MLE Mean (bias corrected)	22.23	MLE Sd (bias corrected)	7.638
		Approximate Chi Square Value (0.05)	3303
Adjusted Level of Significance	0.0488	Adjusted Chi Square Value	3302

Assuming Gamma Distribution

95% Approximate Gamma UCL (use when n>=50))	23.14	95% Adjusted Gamma UCL (use when n<50)	23.15

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.937	**Shapiro Wilk Lognormal GOF Test**
5% Shapiro Wilk P Value	2.481E-10	Data Not Lognormal at 5% Significance Level
Lilliefors Test Statistic	0.122	**Lilliefors Lognormal GOF Test**

5% Lilliefors Critical Value	0.0622	Data Not Lognormal at 5% Significance Level

Data Not Lognormal at 5% Significance Level

Lognormal Statistics

Minimum of Logged Data	1.609	Mean of logged Data	3.042
Maximum of Logged Data	4.7	SD of logged Data	0.327

Assuming Lognormal Distribution

95% H-UCL	22.99	90% Chebyshev (MVUE) UCL	23.65
95% Chebyshev (MVUE) UCL	24.36	97.5% Chebyshev (MVUE) UCL	25.34
99% Chebyshev (MVUE) UCL	27.27		

Nonparametric Distribution Free UCL Statistics

Data do not follow a Discernible Distribution (0.05)

Nonparametric Distribution Free UCLs

95% CLT UCL	23.36	95% Jackknife UCL	23.36
95% Standard Bootstrap UCL	23.36	95% Bootstrap-t UCL	23.74
95% Hall's Bootstrap UCL	24.55	95% Percentile Bootstrap UCL	23.4
95% BCA Bootstrap UCL	23.67		
90% Chebyshev(Mean, Sd) UCL	24.29	95% Chebyshev(Mean, Sd) UCL	25.22
97.5% Chebyshev(Mean, Sd) UCL	26.52	99% Chebyshev(Mean, Sd) UCL	29.06

Suggested UCL to Use

95% Student's-t UCL	23.36	or 95% Modified-t UCL	23.4

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.

These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002) and Singh and Singh (2003). However, simulations results will not cover all Real World data sets.

For additional insight the user may want to consult a statistician.

UCL Statistics for Uncensored Full Data Sets

User Selected Options	
Date/Time of Computation	2/04/2024 2:27:00 PM
From File	WorkSheet_b.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Nickel Concentrations (mg/kg)

General Statistics

Total Number of Observations	203	Number of Distinct Observations	57
		Number of Missing Observations	135
Minimum	5	Mean	13.84
Maximum	90	Median	12
SD	9.806	Std. Error of Mean	0.688
Coefficient of Variation	0.709	Skewness	5.137

Normal GOF Test

Shapiro Wilk Test Statistic	0.558	**Shapiro Wilk GOF Test**
5% Shapiro Wilk P Value	0	Data Not Normal at 5% Significance Level
Lilliefors Test Statistic	0.25	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.0622	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	14.98	95% Adjusted-CLT UCL (Chen-1995)	15.24
		95% Modified-t UCL (Johnson-1978)	15.02

Gamma GOF Test

A-D Test Statistic	6.25	**Anderson-Darling Gamma GOF Test**
5% A-D Critical Value	0.756	Data Not Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.157	**Kolmogrov-Smirnoff Gamma GOF Test**
5% K-S Critical Value	0.0635	Data Not Gamma Distributed at 5% Significance Level

Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	4.314	k star (bias corrected MLE)	4.253
Theta hat (MLE)	3.209	Theta star (bias corrected MLE)	3.254
nu hat (MLE)	1751	nu star (bias corrected)	1727
MLE Mean (bias corrected)	13.84	MLE Sd (bias corrected)	6.711
		Approximate Chi Square Value (0.05)	1631
Adjusted Level of Significance	0.0488	Adjusted Chi Square Value	1631

Assuming Gamma Distribution

95% Approximate Gamma UCL (use when n>=50))	14.65	95% Adjusted Gamma UCL (use when n<50)	14.66

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.927	**Shapiro Wilk Lognormal GOF Test**
5% Shapiro Wilk P Value	1.187E-13	Data Not Lognormal at 5% Significance Level
Lilliefors Test Statistic	0.111	**Lilliefors Lognormal GOF Test**

55	5% Lilliefors Critical Value					0.0622	Data Not Lognormal at 5% Significance Level					
56	**Data Not Lognormal at 5% Significance Level**											
57												
58	**Lognormal Statistics**											
59	Minimum of Logged Data					1.609	Mean of logged Data					2.507
60	Maximum of Logged Data					4.5	SD of logged Data					0.441
61												
62	**Assuming Lognormal Distribution**											
63	95% H-UCL					14.29	90% Chebyshev (MVUE) UCL					14.83
64	95% Chebyshev (MVUE) UCL					15.42	97.5% Chebyshev (MVUE) UCL					16.25
65	99% Chebyshev (MVUE) UCL					17.87						
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					14.97	95% Jackknife UCL					14.98
72	95% Standard Bootstrap UCL					14.94	95% Bootstrap-t UCL					15.54
73	95% Hall's Bootstrap UCL					15.64	95% Percentile Bootstrap UCL					15.05
74	95% BCA Bootstrap UCL					15.3						
75	90% Chebyshev(Mean, Sd) UCL					15.91	95% Chebyshev(Mean, Sd) UCL					16.84
76	97.5% Chebyshev(Mean, Sd) UCL					18.14	99% Chebyshev(Mean, Sd) UCL					20.69
77												
78	**Suggested UCL to Use**											
79	95% Student's-t UCL					14.98	or 95% Modified-t UCL					15.02
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												

JBS&G 66105/ 158,760
L006 - In-Situ Waste Classification Asbestos Impacted Material - 219-233 Aldington Rd Rev A

2 April 2024

Ahmad Ghalayini
Frasers Property Industrial Pty Ltd

In-Situ Waste Classification, Asbestos Impacted Material, Edge South Development, 219 – 235 Aldington Road, Kemps Creek (Rev A)

Dear Ahmad,

JBS&G Australia Pty Ltd (JBS&G) was engaged by Frasers Property Industrial Pty Ltd (FPI, the client) to provide a waste classification for off-site disposal of material associated with the excavation and removal of asbestos fines (AF) and fibrous asbestos (FA) impacted fill material within portions of the Edge South Development, 199 Aldington Road, Kemps Creek, NSW (the site). Remedial extent validation samples were collected across 219-233 and 235-251 Aldington Road (herein referred to as Area 1X) with asbestos detected in the form of AF/FA at sample location 1X-19. The waste classification documented herein, was prepared using historical data collected from the relevant portion of the site as part of assessment works undertaken during April and December 2021, as documented in JBS&G (2022[1]) and JBS&G (2021[2]). The location of the site and material (to which this waste classification pertains) are shown on **Figures 1** and **2a/2b** respectively (**Attachment 2**).

Details of the site, material encountered, and waste classification are provided below. The limitations included in **Attachment 1** apply to the advice provided herein.

1. Site and Assessment Area Legal Identifiers and Owner

Site Lot/DP and Address	Lot 33/ DP 258949 155 to 167 Aldington Road, Kemps Creek, NSW, 2178 Lot 28/ DP 255560 169 to 181 Aldington Road, Kemps Creek, NSW, 2178 Lot 27/ DP 255560 183 to 197 Aldington Road, Kemps Creek, NSW, 2178 Lot 26/ DP 255560 199 Aldington Road, Kemps Creek, NSW, 2178 Lot 25/ DP 255560 201 to 217 Aldington Road, Kemps Creek, NSW, 2178 Lot 24/DP 255560 219 to 233 Aldington Road, Kemps Creek, NSW 2178 Lot 10/DP 253503 235 to 251 Aldington Road, Kemps Creek, NSW 2178
Site (waste) Occupant	Frasers Property Industrial Pty Ltd
Local Government Authority	Penrith City Council
Site Area (total)	63.6
Investigation Area	219-233 and 235-251 Aldington Road (1X) of the site as shown in **Figure 2a/2b**, where asbestos has been identified.

[1] *Frasers Property Industrial Constructions Pty Ltd, Due Diligence Environmental Site Assessment, Aldington Road Estate, 219-233 Aldington Road, Kemps Creek, NSW,* 21 January 2022, 61646/143262 (Rev A), JBS&G Australia Pty Ltd (JBS&G 2021)

[2] *Frasers Property Industrial Pty Ltd, Preliminary Site Investigation, 231-251 Aldington Road, Kemps Creek*, 16 April 2021, 60716/136975 (Rev A), JBS&G Australia Pty Ltd (JBS&G 2021)

2. Consultant Preparing Waste Classification

Name	JBS&G Australia Pty Ltd
Australian Business Number (ABN)	62 100 220 479
Address	Level 1, 50 Margaret Street, Sydney, NSW 2000.
Person(s) Providing Waste Classification	Sam Knott

3. Desktop Review

Site Setting	The portion of the site in which the materials are located was observed to comprise residential and shed structures associated with the agricultural use of the site. The site and surrounding areas largely comprise a mixture of agricultural and rural residential properties, as well as a construction site opposite 219-233 Aldington Road.
Production History of Materials	Materials the subject of this waste classification comprise in-situ fill (of unknown origin) which is to be excavated to remove identified asbestos fines, as shown on **Figure 2** (**Attachment 2**). This advice specifically relates to material within the 1X remedial extents identified to have AF/FA impacts, remedial areas are marked on **Figure 2**.
Acid Sulfate Soil (ASS)	Review of data using the SEED[3] tool, indicates the area occupied by the site is within an area not assessed for the presence of Acid Sulfate Soils (ASS). Such sites are identified by default, as areas where land management activities are not likely to be affected by ASS materials.
Potential Contaminating Activities?	Potentially contaminating activities identified during the site assessment include the previous importation and placement of fill materials across the site to establish current site levels, (poor) demolition of previous structures on site, potential impacts associated with former agricultural land uses (i.e. residences, sheds and roading), and stockpiling of wastes associated with residences and agricultural practices.

4. Material Characterisation and Sampling Rationale

Area/GPS Coordinates	See **Figure 1** and **2a/2b** (**Attachment 2**) for approximate location of the Assessment Area and sampling locations.
Estimated volume (m3)	Approximately 15 m^3 represented by 1X-19 within 219-235 asbestos surface soils area, as shown in **Figure 2**.
Sampling Method	A total of 92 sample locations were completed as part of assessment works undertaken during April and December 2021, as documented in JBS&G (2021) and JBS&G (2022). Test pits were advanced utilising an excavator and/or backhoe and soil samples were collected directly from the bucket at regular intervals from the surface soils (<0.1 m), 0.3 m, 0.5 m then at every metre interval to maximum depth of 1.1 m bgs Representative samples were collected via a gloved hand using a fresh pair of disposable nitrile gloves at each sample location and placed into laboratory supplied jars and bags. During sample collection material was inspected for any potential indicators of contamination including staining, odours or asbestos containing material (ACM). All samples were immediately placed into a chilled esky prior to delivery to the laboratory under appropriate chain of custody (COC) procedures.

[3] https://www.seed.nsw.gov.au/ accessed 12 April 2021

Material Identification	Review of JBS&G field observations and the borehole and test pit logs has identified the site contains fill of varying description at a number of locations. The material classified in this assessment consists of the following: • Area 1X – Silty Clay, brown/red No odours or discolouration/staining were observed throughout the fill material, including odours or features (i.e. jarosite, sulfidic ores, shell material, and/or staining) which may indicate the presence of ASS.
Visible Signs of Contamination?	No
Visible ACM?	No – Lab reported AF/FA
Visible Putrescible Material?	No
Number of Samples and Sample IDs	The JBS&G sampling activities included a total of 105 primary soil samples from 92 sampling locations. Samples were submitted for laboratory analysis for chemical contaminants of potential concern (COPC) and asbestos. The analytical summary tables are presented as **Tables A**, and **B** (**Attachment 3**), with laboratory reports provided in **Attachment 4.**
Rational for Sampling Design	JBS&G undertook sampling in general accordance with the guidance for systematic grid-based sampling provided in EPA (2022[4]) *Sampling design part 1 – application, Contaminated Land Guidelines.* Locations were selected for the whole site on a grid based sampling design with targeted locations, which is appropriate for sites over 5 ha. Samples were selected for analysis based on the anticipated depth of material potentially requiring off-site disposal, and where distinct lithologies were encountered. On this basis, the samples collected herein are considered to have appropriately characterised the material such that decisions may be made regarding a waste classification as per requirements.
QA/QC Assessment	A trip spike and blank were sent with the samples to ensure there was no loss of volatile organic compounds (VOCs) during transport, where analysis for VOCs was undertaken. The field sampling and handling procedures produced quality assurance (QA) and quality control (QC) results which indicate that the collected soil analytical data are of an acceptable quality and suitable for use as part of the waste classification assessment. The NATA certified laboratory results sheets indicate that the project laboratory was generally achieving levels of performance within its recommended control limits during the period when the samples for this project were analysed. On the basis of the results of the field and laboratory QA/QC program, the soil data is of an acceptable quality in order to achieve the objectives of the current assessment.
Toxicity Characteristic Leaching Procedure (TCLP) Samples	No
Sampling Date	JBS&G sampling event(s): 8 April 2021, 14 December 2021, 15 December 2021.

[4] *Contaminated Land Guidelines, Sampling design part 1 – application*, NSW Environment Protection Authority, August 2022 (EPA 2022)

5. Laboratory Analysis

Laboratory	Primary Laboratory: Eurofins Secondary Laboratory: Envirolab
All laboratory methods NATA certified?	Yes
Contaminants of Concern	Total recoverable hydrocarbons (TRH), Total petroleum hydrocarbons (TPH), benzene, toluene, ethylbenzene and xylenes (BTEX), benzo(a)pyrene, polycyclic aromatic hydrocarbons (PAH), heavy metals (As, Cd, Cr, Pb, Hg, Ni), Asbestos and phenols.
Laboratory Report Attached?	Yes (**Attachment 4**)
Additional Data Sources?	95% UCL calculation (**Attachment 6**)
Is the material covered by a General Immobilisation Approval?	No
Discussion of Results	A review of the laboratory analysis results has identified that contaminant concentrations in the Assessment Area were reported as consistently low, and below the contaminant threshold (CT1) for general solid waste (GSW) in the *NSW EPA (2014) Waste Classification Guidelines – Part 1: Classifying Waste*. However, asbestos in the form of chrysotile AF was identified by the laboratory in sample 1X-19 (**Table C, Attachment 3**) It is noted a single result was reported at 42 mg/kg for Nickel, above the CT1 crtiteria. However, 95% UCL calculation demonstrated that the 95% UCL for the material is 16.37 mg/kg, below the Nickel CT1 criteria of 40 mg/kg. Detailed laboratory results are provided in **Attachment 4**.

6. Waste Classification

Waste Classification	**Special Waste (Asbestos) mixed with General Solid Waste (GSW) non-putrescible** This waste classification only applies to the materials represented by validation sample 1X-19.
Does 'Special Waste' apply?	Yes – Asbestos Waste The waste classification described herein only applies to asbestos impacted materials observed at 1X-19.
Is the Material Classified as 'Hazardous Waste'?	No
Classification Comments	Should the material requiring off-site disposal be inconsistent with those described herein, additional assessment may be required, and JBS&G should be contacted to reassess the material prior to disposal. Additionally, it is recommended that JBS&G be present onsite during removal and disposal of asbestos contaminated fill materials described herein to ensure appropriate removal of impacted materials.
Disposal Comments	Waste must be transported by an appropriately licensed transporter and disposed to a facility that is licensed to receive that class of waste. Waste must be managed in accordance with relevant guidelines and regulations during loading, transport, unloading and disposal.

Notes

1. The estimated volume of waste is an indicative estimate only based on either client-supplied data or field observations including estimated elevation, extent and/or depths. For material characterised in-situ, a bulking factor may be applied.
2. Material observations including those relating to visible ACM and putrescible materials were made prior to material leaving the source site.
3. Wastes that are generally classified as putrescible include: green waste, agricultural, forestry and crop materials, and natural fibrous organic and vegetative materials, as per EPA (2014) *Waste Classification Guidelines, Part 1: Classifying Waste*.
4. Materials have been classified in accordance with EPA (2014) *Waste Classification Guidelines, Part 1: Classifying Waste*.
5. The disposal Facility or Facilities must be appropriately licensed under Schedule 1, Section 39; "Waste Disposal (Application to Land)", of the *Protection of the Environment Operations (POEO) Act 1997*. Disposal of 'Asbestos Waste', as defined under the Act and associated Waste Guidelines, is required to be managed in accordance with the *Protection of the Environment Operations (Waste) Regulation 2014* in terms of loading, transport, unloading and disposal. The *POEO Act 1997* states that if waste is transported to a facility not lawfully authorised as a waste facility for that waste, the owner, transporter and receiver of the waste are each guilty of an offence. The owner of waste includes, in relation to waste that has been transported, the person who was the owner of the waste immediately before it was transported. There are special considerations for transport and management including disposal of asbestos waste under the POEO (Waste) Regulation, including tracking and reporting of asbestos waste using NSW EPA Integrated Waste Tracking Solution (IWTS).

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

Your Sincerely:

Sam Knott
Environmental Consultant
JBS&G Australia Pty Ltd

Reviewed/Approved by:

Seth Molinari
Senior Principal
JBS&G Australia Pty Ltd

Attachments:

(1) Limitations
(2) Figures
(3) Tables
(4) Laboratory Analysis Report and COCs
(5) JBS&G Logs

Attachment 1 – 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 2 – Figures

Legend

Approximate Site Boundary

JBS&G

Job No: 66105	
Client: Frasers Property Australia	
Version: R01 Rev B	Date 15/08/2023
Drawn By: IA	Checked By: RH

Scale 1:20,000

0 190 380

metres

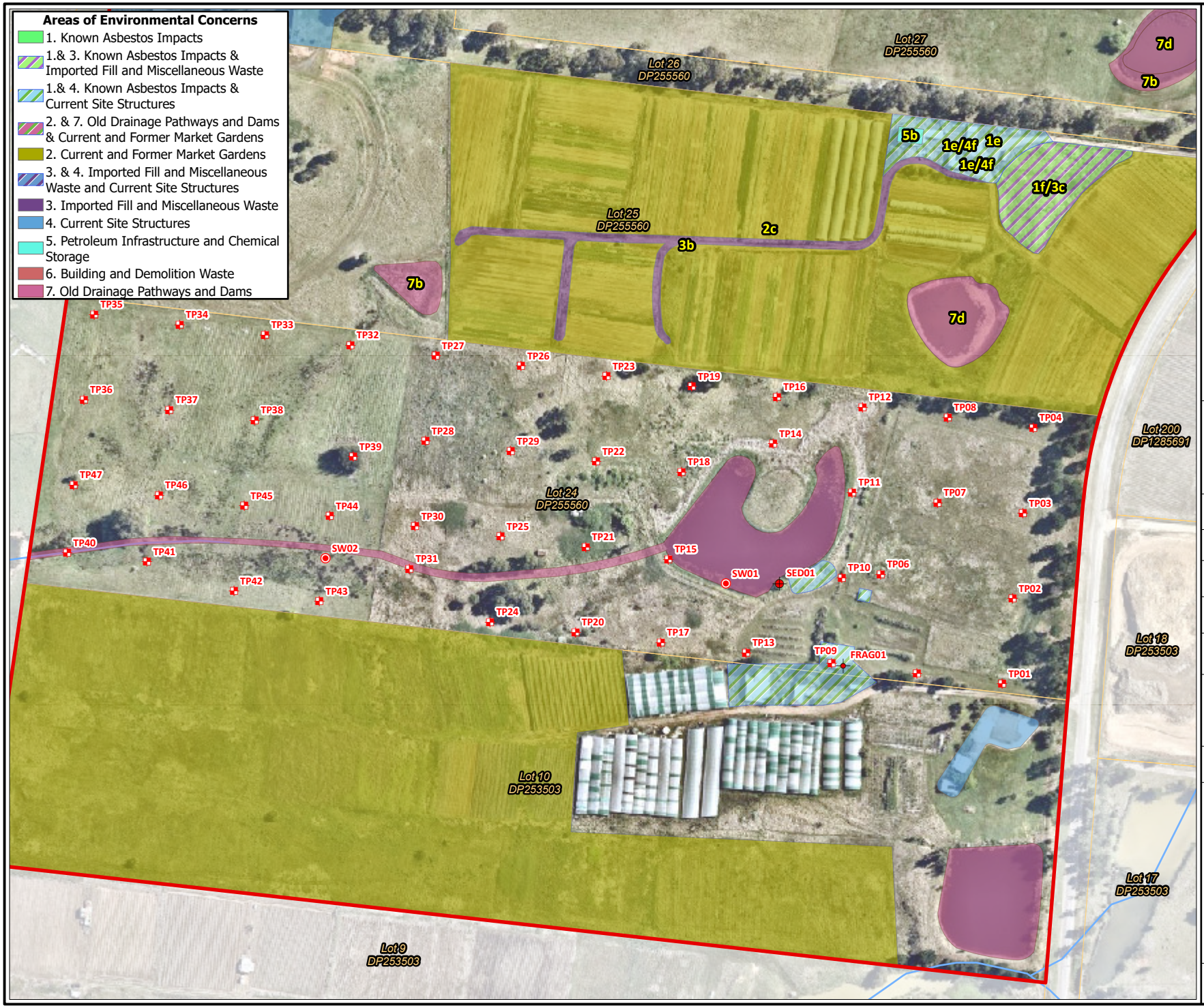
Coord. Sys. GDA 1994 MGA Zone 56

Aldington Road
Kemps Creek, NSW

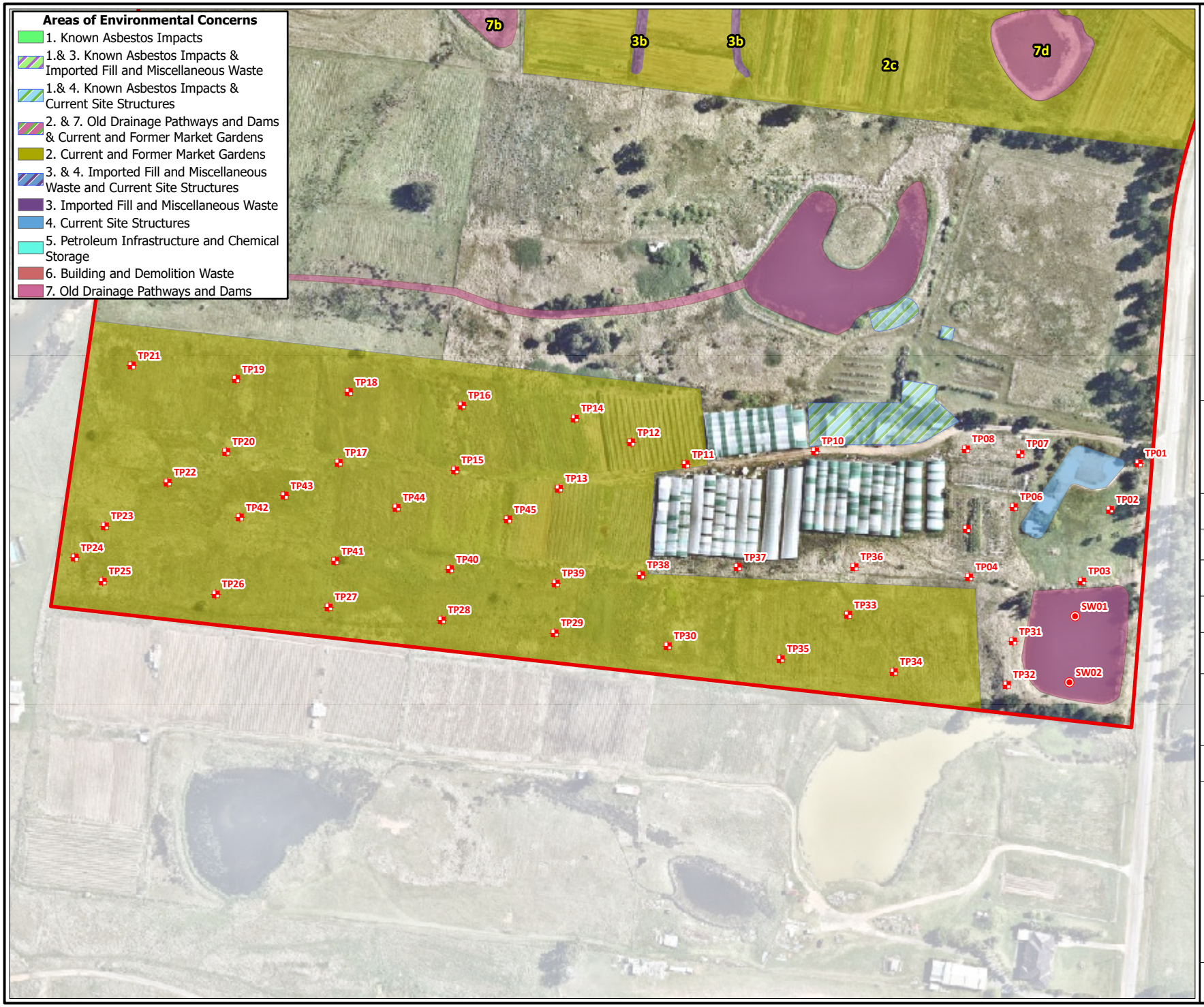
SITE LOCATION

FIGURE 1

File Name: 65376_KempsCreek_FrasersProperty_R04
Reference: © OpenStreetMap (and) contributors, CC-BY-SA



File Name: 65376_KempsCreek_FrasersProperty_R04
Reference: Nearmap - www.nearmap.com (Capture Date: 2021/10/17)



Legend

Approximate Site Boundary

Sample Location

Test Pit (JBS&G 2021)

Surface Water (JBS&G 2021)

JBS&G

Job No: 66105

Client: Frasers Property

Version: R04 Rev B | Date 15/08/2023

Drawn By: IA | Checked By: RH

Scale 1:2,944

0 25 50

metres

Coord. Sys. GDA 1994 MGA Zone 56

Aldington Road
Kemps Creek, NSW

JBS&G PSI (2022) 235-251
Aldington Road Sample Locations

FIGURE 2B

File Name: 65376_KempsCreek_FrasersProperty_R04
Reference: Nearmap - www.nearmap.com (Capture Date: 2021/10/17)

Attachment 3 - Tables

Table A - Soil
Project Number: 66105
Project Name: 219-233 Aldington Rd

											Metals & Metalloids									TPHs (NEPC 1999)					TRHs (NEPC 2013)							BTEXN					
											Arsenic	Cadmium	Chromium (III+VI)	Copper	Iron	Lead	Mercury	Nickel	Zinc	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)	>C6-C10 minus BTEX)	>C10-C16 less Naphthalene)	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene 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
EQL											2	0.4	5	5	20	5	0.1	5	5	20	20	50	50	50	20	50	100	100	100	20	50	0.1	0.1	0.1	0.1	0.2	0.3
NSW 2014 General Solid Waste CT1 (No Leaching)											100	20	100[#1]			100	4	40		650[#2]				10000[#2]							10	288	600			1000
NSW 2014 General Solid Waste SCC1 (with leached)											500	100	1900[#1]			1500	50	1050		650[#6]				10000[#6]							18	518	1080			1800
Field ID	**Location**	**Sample_Depth_Range**	**Sampled_Date_Time**	**Matrix_Description**	**Monitoring_Round**	**Monitoring Zone**																													
QA20211213-01			15/12/2021				9	<0.4	14	31	-	16	<0.1	7	24	<25	<50	<100	<100	<50	<25	<50	<100	<100	<50	<25	<50	<0.2	<0.5	<1	<1	<2	<3
QA20211213-02			15/12/2021				7	<0.4	29	34	-	28	<0.1	31	90	<25	<50	<100	<100	<50	<25	<50	110	<100	110	<25	<50	<0.2	<0.5	<1	<1	<2	<3
QA20211214-01			15/12/2021				9	<0.4	15	28	-	23	<0.1	11	72	<25	<50	<100	<100	<50	<25	<50	<100	<100	<50	<25	<50	<0.2	<0.5	<1	<1	<2	<3
QC20211213-01			13/12/2021				15	<0.4	25	34	-	20	<0.1	11	43	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3
QC20211213-02			13/12/2021				3.3	<0.4	32	31	-	28	<0.1	42	100	<20	<20	76	71	147	<20	<50	120	<100	120	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3
QC20211214-01			14/12/2021				12	<0.4	16	30	-	28	<0.1	16	120	<20	<20	<50	69	69	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3
SED01			13/12/2021				7.5	<0.4	19	120	-	33	<0.1	16	210	<20	24	89	180	293	<20	<50	210	200	410	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3
TP01-0-0.1			13/12/2021				14	<0.4	16	30	-	21	<0.1	15	69	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3
TP02-0-0.1			13/12/2021				20	<0.4	25	45	47,000	20	<0.1	22	93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP03-0-0.1			13/12/2021				14	<0.4	21	40	-	18	<0.1	12	53	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3
TP04-0-0.1			13/12/2021				18	<0.4	22	43	-	24	<0.1	13	63	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP05-0-0.1			13/12/2021				15	<0.4	28	27	-	19	<0.1	11	46	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3
TP06-0-0.1			13/12/2021				12	<0.4	22	57	-	21	<0.1	9.4	43	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3
TP08-0-0.1			13/12/2021				7.6	<0.4	17	42	-	17	<0.1	11	65	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3
TP09-0.2-0.3			13/12/2021				9.7	1	37	65	-	61	<0.1	37	240	<20	<20	110	74	184	<20	<50	160	<100	160	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3
TP10-0-0.1			13/12/2021				9.5	<0.4	24	29	-	29	<0.1	14	85	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3
TP11-0-0.1			13/12/2021				9.9	<0.4	24	27	-	31	<0.1	14	51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP12-0-0.1			13/12/2021				9.6	<0.4	23	55	-	23	<0.1	15	86	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP13-0-0.1			13/12/2021				17	<0.4	28	32	-	31	<0.1	20	65	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3
TP14-0-0.1			13/12/2021				21	<0.4	24	42	-	24	<0.1	9.5	39	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3
TP15-0-0.1			13/12/2021				11	<0.4	20	46	-	27	<0.1	18	76	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3
TP15-1.9-2.0			13/12/2021				13	<0.4	19	43	-	22	<0.1	19	68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP16-0-0.1			13/12/2021				17	<0.4	21	94	-	20	<0.1	9.2	47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP17-0-0.1			13/12/2021				7	<0.4	18	28	-	18	<0.1	14	57	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP18-0-0.1			13/12/2021				18	<0.4	21	38	-	19	<0.1	13	42	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3
TP19-0-0.1			13/12/2021				21	<0.4	25	17	-	29	<0.1	13	32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP20-0-0.05			15/12/2021				13	<0.4	31	15	-	15	<0.1	7.6	23	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3
TP21-0-0.1			15/12/2021				11	<0.4	27	18	-	15	<0.1	6.6	43	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3
TP22-0-0.1			13/12/2021				16	<0.4	14	32	-	18	<0.1	12	41	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3
TP24-0-0.1			15/12/2021				7.2	<0.4	19	17	-	14	<0.1	8.1	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP25-0-0.1			15/12/2021				11	<0.4	17	16	-	25	<0.1	11	58	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP27-0-0.1			14/12/2021				8.6	<0.4	22	32	-	20	<0.1	13	51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP28-0-0.1			14/12/2021				8.1	<0.4	22	45	-	21	<0.1	15	53	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP29-0.2-0.3			14/12/2021				25	<0.4	22	36	32,000	14	<0.1	16	63	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP29-0-0.1			14/12/2021				21	<0.4	21	32	30,000	19	<0.1	16	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP31-0.4-0.5			14/12/2021				6.8	<0.4	15	24	-	14	<0.1	13	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
TP31-0-0.1			14/12/2021				14	<0.4	23	23	-	36	<0.1	9.8	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP33-0-0.1			14/12/2021				11	<0.4	18	13	-	16	<0.1	6.6	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP35-0-0.1			14/12/2021				12	<0.4	20	14	-	18	<0.1	5.5	36	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3
TP37-0-0.1			14/12/2021				10	<0.4	19	23	-	21	<0.1	8.4	34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP39-0-0.1			14/12/2021				17	<0.4	24	33	-	33	<0.1	19	96	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3
TP40-0-0.1			14/12/2021				8.5	<0.4	17	29	-	20	<0.1	13	47	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3
TP41-0.3-0.4			14/12/2021				18	<0.4	28	42	-	36	<0.1	21	90	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3
TP42-0-0.1			14/12/2021				10	<0.4	21	23	-	19	<0.1	10	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP43-0-0.1			14/12/2021				8.1	<0.4	15	20	-	16	<0.1	9.4	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP45-0-0.1			14/12/2021				4.6	<0.4	9.1	7.4	-	16	<0.1	<5	51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP47-0-0.1			14/12/2021				5	<0.4	11	7.4	22,000	13	<0.1	<5	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Env Stds Comments
#1:Trigger value adopted from Chromium VI
#2:Approximate range of petroleum hydrocarbon fractions: petrol C6–C9, kerosene C10–C18, diesel C12–C18, and lubricating oils above C18. Refer to NSW Waste Criteria Nov 2014 p.12 footnote 7
#3:There may be a need for the laboratory to concentrate the sample to achieve the TCLP limit value for benzo(a)pyrene with confidence. Refer to NSW Waste Criteria Nov 2014 p.11 footnote 2
#4:Polychlorinated biphenyls must be managed in accordance with the EPA's polychlorinated biphenyl (PCB) chemical control order 1997. Refer to NSW Waste Criteria Nov 2014 p.12 footnote 8
#5:Refer to NSW Waste Criteria Nov 2014 p.17 footnote 13
#6:Calculated from Hazardous Waste: Identification and Listing (USEPA 2012a). Refer to NSW Waste Criteria Nov 2014 p.16 footnote 3, 4
#7:Refer to NSW Waste Criteria Nov 2014 p.17 footnote 12, EPA Chemical Control Order 1997, clause 4.13

Data Comments
#1 No asbestos detected at the reporting limit of 0.001% w/w.*Organic fibre detected.No trace asbestos detected.
#2 Chrysotile and amosite asbestos detected.
#3 No trace asbestos detected.
#4 Organic fibres detected.
#5 150x80x5
#6 Nil

Table A - Soil
Project Number: 66105
Project Name: 219-233 Aldington Rd

																													PAH		

Table A - Soil
Project Number: 66105
Project Name: 219-233 Aldington Rd

	Organochlorine Pesticides																									Polychlorinated Biphenyls								Chlorinated Benzenes
	4,4-DDE	BHC	b-BHC	d-BHC	g-BHC (Lindane)	Aldrin	Dieldrin	Aldrin + Dieldrin	Chlordane	Chlordane (cis)	Chlordane (trans)	DDT	DDD	DDT+DDE+DDD	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor Epoxide	Methoxychlor	Toxaphene	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	PCBs (Sum of total)	Hexachlorobenzene
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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	0.05	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	0.5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.05
NSW 2014 General Solid Waste CT1 (No Leaching)																																<50[#4]	
NSW 2014 General Solid Waste SCC1 (with leached)																																<50[#4]	

Field ID	Location	Sample Depth Range	Sampled Date Time	Matrix Description	Monitoring Round	Monitoring Zone																													
QA20211213-01			15/12/2021				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
QA20211213-02			15/12/2021				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA20211214-01			15/12/2021				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
QC20211213-01			13/12/2021				<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05
QC20211213-02			13/12/2021				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20211214-01			14/12/2021				<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	<0.5	<0.5	<10	<1	<1	<1	<1	<1	<1	<1	<1	<0.5
SED01			13/12/2021				<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05
TP01-0-0.1			13/12/2021				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP02-0-0.1			13/12/2021				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP03-0-0.1			13/12/2021				<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05
TP04-0-0.1			13/12/2021				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP05-0-0.1			13/12/2021				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP06-0-0.1			13/12/2021				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP08-0-0.1			13/12/2021				<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05
TP09-0.2-0.3			13/12/2021				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP10-0-0.1			13/12/2021				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP11-0-0.1			13/12/2021				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP12-0-0.1			13/12/2021				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP13-0-0.1			13/12/2021				<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05
TP14-0-0.1			13/12/2021				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP15-0-0.1			13/12/2021				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP15-1.9-2.0			13/12/2021				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP16-0-0.1			13/12/2021				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP17-0-0.1			13/12/2021				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP18-0-0.1			13/12/2021				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP19-0-0.1			13/12/2021				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP20-0-0.05			15/12/2021				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP21-0-0.1			15/12/2021				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP22-0-0.1			13/12/2021				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP24-0-0.1			15/12/2021				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP25-0-0.1			15/12/2021				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP27-0-0.1			14/12/2021				<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05
TP28-0-0.1			14/12/2021				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP29-0.2-0.3			14/12/2021				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP29-0-0.1			14/12/2021				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP31-0.4-0.5			14/12/2021				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP31-0-0.1			14/12/2021				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP33-0-0.1			14/12/2021				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP35-0-0.1			14/12/2021				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP37-0-0.1			14/12/2021				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP39-0-0.1			14/12/2021				<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05
TP40-0-0.1			14/12/2021				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP41-0.3-0.4			14/12/2021				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP42-0-0.1			14/12/2021				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP43-0-0.1			14/12/2021				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP45-0-0.1			14/12/2021				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP47-0-0.1			14/12/2021				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Env Stds Comments
#1:Trigger value adopted from Chromium VI
#2:Approximate range of petroleum hydrocarbon fractions: petrol C6–C9, kerosene C10–C18, diesel C12–C18, and lubricating oils above C18. Refer to NSV
#3:There may be a need for the laboratory to concentrate the sample to achieve the TCLP limit value for benzo(a)pyrene with confidence. Refer to NSW Wa
#4:Polychlorinated biphenyls must be managed in accordance with the EPA's polychlorinated biphenyl (PCB) chemical control order 1997. Refer to NSW W
#5:Refer to NSW Waste Criteria Nov 2014 p.17 footnote 13
#6:Calculated from Hazardous Waste: Identification and Listing (USEPA 2012a). Refer to NSW Waste Criteria Nov 2014 p.16 footnote 3, 4
#7:Refer to NSW Waste Criteria Nov 2014 p.17 footnote 12, EPA Chemical Control Order 1997, clause 4.13

Data Comments
#1 No asbestos detected at the reporting limit of 0.001% w/w.*Organic fibre detected.No trace asbestos detected.
#2 Chrysotile and amosite asbestos detected.
#3 No trace asbestos detected.
#4 Organic fibres detected.
#5 150x80x5
#6 Nil

Table A - Soil
Project Number: 66105
Project Name: 219-233 Aldington Rd

	Ionic Balance			PA VIC - IWRG62		Asbestos - Eurofins																		Asbestos - Envirolab	Moisture Content	Organic Matter	Other
	EC	Conductivity (1:5 aqueous extract)	pH (aqueous extract)	Organochlorine Pesticides (EPAVic	Other Organochlorine Pesticides (EPAVic	Approximate Sample Mass	Asbestos Sample Dimensions	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	ACM - Comment	FA - Comment	AF - Comment	Organic Fibres - Comment	Respirable Fibres - Comment	Synthetic Fibres - Comment	Asbestos Reported Result	Asbestos ID in Soil	Moisture Content	Organic Matter	Moisture Content (dried @ 103°C)
	MEQ/100G	US/CM	pH Units	mg/kg	mg/kg	g	Comment	g	g	% (w/w)	g	g	g	g	% (w/w)	g	Comment	Comment	Comment	Comment	Comment	Comment	Comment	g/kg	%	%	%
EQL	0.05	10	0.1	0.1	0.1																				0.1	0.01	1
NSW 2014 General Solid Waste CT1 (No Leaching)																											
NSW 2014 General Solid Waste SCC1 (with leached)																											

Field ID	Location	Sample Depth Range	Sampled Date Time	Matrix Description	Monitoring Round	Monitoring Zone																							
QA20211213-01			15/12/2021				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	22	-	-
QA20211213-02			15/12/2021				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	14	-	-
QA20211214-01			15/12/2021				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	27	-	-
QC20211213-01			13/12/2021				-	-	-	<0.1	<0.1	468	-	0	0	0	0	0	0	0	0	0	0	#1	#5	#5	#5	#5	#5	#1	-	-	-	19
QC20211213-02			13/12/2021				-	-	-	-	-	644	-	0	0	0	0	0	0	0	0	0	0	#1	#5	#5	#5	#4	#5	#1	-	-	-	12
QC20211214-01			14/12/2021				-	-	-	<1	<1	498	-	0	0	0	0	0	0	0	0	0	0	#1	#5	#5	#5	#4	#5	#5	#1	-	-	-	24
SED01			13/12/2021				-	-	-	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	70
TP01-0-0.1			13/12/2021				-	-	-	-	-	494	-	0	0	0	0	0	0	0	0	0	0	#1	#5	#5	#5	#4	#5	#5	#1	-	-	-	20
TP02-0-0.1			13/12/2021				29	24	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.1	23
TP03-0-0.1			13/12/2021				-	-	-	<0.1	<0.1	477	-	0	0	0	0	0	0	0	0	0	0	#1	#5	#5	#5	#4	#5	#5	#1	-	-	-	20
TP04-0-0.1			13/12/2021				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22
TP05-0-0.1			13/12/2021				-	-	-	-	-	507	-	0	0	0	0	0	0	0	0	0	0	#1	#5	#5	#5	#4	#5	#5	#1	-	-	-	19
TP06-0-0.1			13/12/2021				-	-	-	-	-	485	-	0	0	0	0	0	0	0	0	0	0	#1	#5	#5	#5	#5	#5	#5	#1	-	-	-	20
TP08-0-0.1			13/12/2021				-	-	-	<0.1	<0.1	450	-	0	0	0	0	0	0	0	0	0	0	#1	#5	#5	#5	#5	#5	#5	#1	-	-	-	21
TP09-0.2-0.3			13/12/2021				-	-	-	-	-	724	-	0	0	0	0	0	0	0	0	0	0	#1	#5	#5	#5	#5	#5	#5	#1	-	-	-	15
TP10-0-0.1			13/12/2021				-	-	-	-	-	480	-	0	0	0	0	0	0	0	0	0	0	#1	#5	#5	#5	#5	#5	#5	#1	-	-	-	18
TP11-0-0.1			13/12/2021				-	-	-	-	-	481	-	0	0	0	0	0	0	0	0	0	0	#1	#5	#5	#5	#4	#5	#5	#1	-	-	-	22
TP12-0-0.1			13/12/2021				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	39
TP13-0-0.1			13/12/2021				-	-	-	<0.1	<0.1	463	-	0	0	0	0	0	0	0	0	0	0	#1	#5	#5	#5	#4	#5	#5	#1	-	-	-	20
TP14-0-0.1			13/12/2021				-	-	-	-	-	397	-	0	0	0	0	0	0	0	0	0	0	#1	#5	#5	#5	#4	#5	#5	#1	-	-	-	22
TP15-0-0.1			13/12/2021				-	-	-	-	-	523	-	0	0	0	0	0	0	0	0	0	0	#1	#5	#5	#5	#5	#5	#5	#1	-	-	-	18
TP15-1.9-2.0			13/12/2021				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15
TP16-0-0.1			13/12/2021				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24
TP17-0-0.1			13/12/2021				-	-	-	-	-	422	-	0	0	0	0	0	0	0	0	0	0	#1	#5	#5	#5	#5	#5	#5	#1	-	-	-	21
TP18-0-0.1			13/12/2021				-	-	-	-	-	518	-	0	0	0	0	0	0	0	0	0	0	#1	#5	#5	#5	#4	#5	#5	#1	-	-	-	21
TP19-0-0.1			13/12/2021				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19
TP20-0-0.05			15/12/2021				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21
TP21-0-0.1			15/12/2021				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	40
TP22-0-0.1			13/12/2021				-	-	-	-	-	569	-	0	0	0	0	0	0	0	0	0	0	#1	#5	#5	#5	#4	#5	#5	#1	-	-	-	18
TP24-0-0.1			15/12/2021				-	-	-	-	-	456	-	0	0	0	0	0	0	0	0	0	0	#1	#5	#5	#5	#5	#5	#5	#1	-	-	-	18
TP25-0-0.1			15/12/2021				-	-	-	-	-	491	-	0	0	0	0	0	0	0	0	0	0	#1	#5	#5	#5	#4	#5	#5	#1	-	-	-	23
TP27-0-0.1			14/12/2021				-	-	-	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25
TP28-0-0.1			14/12/2021				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25
TP29-0.2-0.3			14/12/2021				13	10	5.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.6	20
TP29-0-0.1			14/12/2021				12	18	5.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.4	20
TP31-0.4-0.5			14/12/2021				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21
TP31-0-0.1			14/12/2021				-	-	-	-	-	445	-	0	0	0	0	0	0	0	0	0	0	#1	#5	#5	#5	#4	#5	#5	#1	-	-	-	24
TP33-0-0.1			14/12/2021				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18
TP35-0-0.1			14/12/2021				-	-	-	-	-	474	-	0	0	0	0	0	0	0	0	0	0	#1	#5	#5	#5	#4	#5	#5	#1	-	-	-	19
TP37-0-0.1			14/12/2021				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21
TP39-0-0.1			14/12/2021				-	-	-	<0.1	<0.1	391	-	0	0	0	0	0	0	0	0	0	0	#1	#5	#5	#5	#4	#5	#5	#1	-	-	-	23
TP40-0-0.1			14/12/2021				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
TP41-0.3-0.4			14/12/2021				-	-	-	-	-	455	-	0	0	0	0	0	0	0	0	0	0	#1	#5	#5	#5	#4	#5	#5	#1	-	-	-	16
TP42-0-0.1			14/12/2021				-	-	-	-	-	458	-	0	0	0	0	0	0	0	0	0	0	#1	#5	#5	#5	#4	#5	#5	#1	-	-	-	22
TP43-0-0.1			14/12/2021				-	-	-	-	-	370	-	0	0	0	0	0	0	0	0	0	0	#1	#5	#5	#5	#4	#5	#5	#1	-	-	-	24
TP45-0-0.1			14/12/2021				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26
TP47-0-0.1			14/12/2021				4.6	25	6.4	-	-	562	-	0	0	0	0	0	0	0	0	0	0	#1	#5	#5	#5	#5	#5	#5	#1	-	-	3.3	20

Env Stds Comments
#1:Trigger value adopted from Chromium VI
#2:Approximate range of petroleum hydrocarbon fractions: petrol C6–C9, kerosene C10–C18, diesel C12–C18, and lubricating oils above C18. Refer to NSV
#3:There may be a need for the laboratory to concentrate the sample to achieve the TCLP limit value for benzo(a)pyrene with confidence. Refer to NSW Wa
#4:Polychlorinated biphenyls must be managed in accordance with the EPA's polychlorinated biphenyl (PCB) chemical control order 1997. Refer to NSW W
#5:Refer to NSW Waste Criteria Nov 2014 p.17 footnote 13
#6:Calculated from Hazardous Waste: Identification and Listing (USEPA 2012a). Refer to NSW Waste Criteria Nov 2014 p.16 footnote 3, 4
#7:Refer to NSW Waste Criteria Nov 2014 p.17 footnote 12, EPA Chemical Control Order 1997, clause 4.13

Data Comments
#1 No asbestos detected at the reporting limit of 0.001% w/w.*Organic fibre detected.No trace asbestos detected.
#2 Chrysotile and amosite asbestos detected.
#3 No trace asbestos detected.
#4 Organic fibres detected.
#5 150x80x5
#6 Nil

Table B
Project Number: 66150
Project Name: 235-251 Aldington Road, Kemps Creek

	Metals & Metalloids								TPHs (NEPC 1999)					TRHs (NEPC 2013)							BTEXN						
	Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc	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 - MAH
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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	5	5	5	0.1	5	5	20	20	50	50	50	20	50	100	100	100	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[#1]		100	4	40		650[#2]				10000[#5]								10	288	600			1000	
NSW 2014 General Solid Waste SCC1 (with leached)	500	100	1900[#1]		1500	50	1050		650[#5]				10000[#5]								18	518	1080			1800	

Field ID	Location	Sample_Depth_Range	Sampled_Date_Time	Matrix_Description	Monitoring_Round	Monitoring Zone																						
QA202104-08-01	TP06	0-0.1	8/04/2021	TP06 - 0-0.1			12	<0.4	27	58	52	<0.1	21	140	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
QA202104-08-02	TP18	0-0.1	8/04/2021	TP18 - 0-0.1			10	<0.4	26	93	29	<0.1	17	110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20210408-01	TP06	0-0.1	8/04/2021	TP06 - 0-0.1			6	<0.4	14	34	23	0.1	11	65	<25	<50	<100	<100	-	<25	<50	<100	<100	<50	<25	<50	<0.2	<0.5	<1	<1	<2	<3	-
QC20210408-02	TP18	0-0.1	8/04/2021	TP18 - 0-0.1			5	<0.4	14	64	16	<0.1	9	57	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP01 - 0-0.1	TP01	0-0.1	8/04/2021	Fill, sandy silt			9	<0.4	17	35	14	<0.1	19	40	<20	<20	56	<50	56	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
TP01 - 0-0.6	TP01	0-0.6	8/04/2021	Fill, sandy silt			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP01 - 1-1.1	TP01	1-1.1	8/04/2021	Silty clay			7.4	<0.4	16	32	16	<0.1	20	78	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP02 - 0.2-0.3	TP02	0.2-0.3	8/04/2021	Fill, reworked natural			5.4	<0.4	14	36	19	<0.1	21	69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP02 - 0-0.1	TP02	0-0.1	8/04/2021	Fill, silt			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP03 - 0-0.1	TP03	0-0.1	8/04/2021	Fill, silty clay			9.5	<0.4	12	24	19	<0.1	<5	43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP04 - 0-0.1	TP04	0-0.1	8/04/2021	Fill, silty clay			16	<0.4	23	43	29	<0.1	17	89	<20	24	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
TP05 - 0-0.1	TP05	0-0.1	8/04/2021	Fill, reworked natural			12	<0.4	30	48	28	<0.1	21	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP05 - 0-0.4	TP05	0-0.4	8/04/2021	Fill, reworked natural			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP06 - 0-0.1	TP06	0-0.1	8/04/2021	Fill, silty clay			11	<0.4	24	34	27	<0.1	18	72	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
TP07 - 0-0.1	TP07	0-0.1	8/04/2021	Fill, silty clay			14	<0.4	21	45	20	<0.1	14	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP07 - 0-0.3	TP07	0-0.3	8/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP08 - 0-0.1	TP08	0-0.1	8/04/2021	Fill, silty clay			14	<0.4	23	32	23	<0.1	14	62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP09 - 0.2-0.3	TP09	0.2-0.3	8/04/2021	Fill, silty clay			18	<0.4	21	69	37	<0.1	20	97	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
TP09 - 0.4-0.5	TP09	0.4-0.5	8/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP09 - 0-0.1	TP09	0-0.1	8/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP09 - FRAG01	TP09		8/04/2021				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP10 - 0.3-0.4	TP10	0.3-0.4	8/04/2021	Fill, gravelly silty clay			7.9	<0.4	28	34	31	<0.1	21	72	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
TP10 - 0-0.8	TP10	0-0.8	8/04/2021	Fill, gravelly silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP11 - 0.2-0.3	TP11	0.2-0.3	8/04/2021	Fill, silty clay			8.5	<0.4	26	67	36	<0.1	23	130	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP11 - 0-0.3	TP11	0-0.3	8/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP12 - 0-0.1	TP12	0-0.1	8/04/2021	Fill, silty clay			6.4	<0.4	26	55	21	<0.1	26	76	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
TP13 - 0-0.1	TP13	0-0.1	8/04/2021	Fill, silty clay			16	<0.4	24	69	19	<0.1	16	110	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
TP14 - 0-0.1	TP14	0-0.1	8/04/2021	Fill, silty clay			18	<0.4	20	84	30	<0.1	17	150	<20	<20	63	110	173	<20	<50	170	<100	170	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
TP15 - 0.1-0.4	TP15	0.1-0.4	8/04/2021	Fill, reworked silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP15 - 0.2-0.3	TP15	0.2-0.3	8/04/2021	Silty clay			32	<0.4	25	40	22	<0.1	21	75	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
TP16 - 0-0.1	TP16	0-0.1	8/04/2021	Fill, silty clay			14	<0.4	17	41	18	<0.1	11	63	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP18 - 0-0.1	TP18	0-0.1	8/04/2021	Fill, topsoil			9.4	<0.4	25	74	24	<0.1	16	98	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP19 - 0-0.1	TP19	0-0.1	8/04/2021	Fill, silty clay			13	<0.4	23	32	25	<0.1	11	57	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP22 - 0-0.1	TP22	0-0.1	8/04/2021	Fill, silty clay			15	<0.4	32	51	27	<0.1	13	81	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
TP22 - 0-0.2	TP22	0-0.2	8/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP23 - 0-0.1	TP23	0-0.1	8/04/2021	Fill, silty clay			15	<0.4	18	24	19	<0.1	13	55	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
TP23 - 0-0.2	TP23	0-0.2	8/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP25 - 0-0.1	TP25	0-0.1	8/04/2021	Fill, silty clay			14	<0.4	20	28	25	<0.1	16	55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP25 - 0-0.2	TP25	0-0.2	8/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP26 - 0-0.1	TP26	0-0.1	8/04/2021	Fill, silty clay			15	<0.4	29	59	26	<0.1	15	72	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
TP26 - 0-0.2	TP26	0-0.2	8/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP27 - 0-0.1	TP27	0-0.1	8/04/2021	Fill, silty clay			13	<0.4	20	39	27	<0.1	13	63	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP27 - 0-0.2	TP27	0-0.2	8/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP28 - 0-0.1	TP28	0-0.1	8/04/2021	Fill, silty clay			18	<0.4	24	34	13	<0.1	15	69	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
TP28 - 0-0.2	TP28	0-0.2	8/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP29 - 0-0.1	TP29	0-0.1	8/04/2021	Fill, silty clay			13	<0.4	21	46	27	<0.1	14	71	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP29 - 0-0.2	TP29	0-0.2	8/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP34 - 0-0.1	TP34	0-0.1	9/04/2021	Fill, silty clay			21	<0.4	40	49	33	<0.1	11	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP34 - 0-0.2	TP34	0-0.2	9/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP35 - 0-0.1	TP35	0-0.1	9/04/2021	Fill, silty clay			13	<0.4	23	31	22	<0.1	14	50	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
TP35 - 0-0.2	TP35	0-0.2	9/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP36 - 0-0.1	TP36	0-0.1	9/04/2021	Fill, silty clay			14	<0.4	22	44	29	<0.1	17	80	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
TP37 - 0-0.1	TP37	0-0.1	9/04/2021	Fill, silty clay			13	<0.4	27	41	30	<0.1	14	73	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
TP37 - 0-0.2	TP37	0-0.2	9/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP38 - 0-0.1	TP38	0-0.1	9/04/2021	Fill, silty clay			11	<0.4	26	54	28	<0.1	20	98	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP38 - 0-0.2	TP38	0-0.2	9/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP43 - 0-0.1	TP43	0-0.1	9/04/2021	Fill, silty clay			7.6	<0.4	23	37	20	<0.1	11	73	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
TP43 - 0-0.2	TP43	0-0.2	9/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP44 - 0-0.1	TP44	0-0.1	9/04/2021	Fill, silty clay			12	<0.4	18	55	17	<0.1	15	75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP44 - 0-0.2	TP44	0-0.2	9/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP45 - 0-0.1	TP45	0-0.1	9/04/2021	Clay			24	<0.4	19	100	25	<0.1	21	130	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5

Env Stds Comments
#1:Trigger value adopted from Chromium VI
#2:Approximate range of petroleum hydrocarbon fractions: petrol C6–C9, kerosene C10–C18, diesel C12–C18, and lubricating oils above C18. Refer to NSW Waste Criteria Nov 2014 p.12 footnote 7
#3:There may be a need for the laboratory to concentrate the sample to achieve the TCLP limit value for benzo(a)pyrene with confidence. Refer to NSW Waste Criteria Nov 2014 p.11 footnote 2
#4:Polychlorinated biphenyls must be managed in accordance with the EPA's polychlorinated biphenyl (PCB) chemical control order 1997. Refer to NSW Waste Criteria Nov 2014 p.12 footnote 8
#5:Refer to NSW Waste Criteria Nov 2014 p.17 footnote 13
#6:Calculated from Hazardous Waste: Identification and Listing (USEPA 2012a). Refer to NSW Waste Criteria Nov 2014 p.16 footnote 3, 4
#7:Refer to NSW Waste Criteria Nov 2014 p.17 footnote 12, EPA Chemical Control Order 1997, clause 4.13

Data Comments
#1 No asbestos detected at the reporting limit of 0.001% w/w.*Organic fibre detected.No trace asbestos detected.
#2 Chrysotile and amosite asbestos detected.
#3 No respirable fibres detected.
#4 Organic fibres detected.
#5 Nil
#6 –

Table B
Project Number: 66150
Project Name: 235-251 Aldington Road, Kemps Creek

	PAH																								
	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	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(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	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
EQL	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.1	0.5	0.5	0.5	0.5
NSW 2014 General Solid Waste CT1 (No Leaching)					0.8[#3]																	
NSW 2014 General Solid Waste SCC1 (with leached)					10[#6]																	

Field ID	Location	Sample_Depth_Range	Sampled_Date_Time	Matrix_Description	Monitoring_Round	Monitoring Zone																					
QA202104-08-01	TP06	0-0.1	8/04/2021	TP06 - 0-0.1			<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
QA202104-08-02	TP18	0-0.1	8/04/2021	TP18 - 0-0.1			<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
QC20210408-01	TP06	0-0.1	8/04/2021	TP06 - 0-0.1			<0.1	<0.1	<0.1	<0.1	<0.05	<0.5	<0.5	<0.5	-	<0.2	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.05
QC20210408-02	TP18	0-0.1	8/04/2021	TP18 - 0-0.1			<0.1	<0.1	<0.1	<0.1	<0.05	<0.5	<0.5	<0.5	-	<0.2	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.05
TP01 - 0-0.1	TP01	0-0.1	8/04/2021	Fill, sandy silt			<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	1
TP01 - 0-0.6	TP01	0-0.6	8/04/2021	Fill, sandy silt			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP01 - 1-1.1	TP01	1-1.1	8/04/2021	Silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP02 - 0.2-0.3	TP02	0.2-0.3	8/04/2021	Fill, reworked natural			<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
TP02 - 0-0.1	TP02	0-0.1	8/04/2021	Fill, silt			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP03 - 0-0.1	TP03	0-0.1	8/04/2021	Fill, silty clay			<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
TP04 - 0-0.1	TP04	0-0.1	8/04/2021	Fill, silty clay			<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
TP05 - 0-0.1	TP05	0-0.1	8/04/2021	Fill, reworked natural			<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
TP05 - 0-0.4	TP05	0-0.4	8/04/2021	Fill, reworked natural			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP06 - 0-0.1	TP06	0-0.1	8/04/2021	Fill, silty clay			<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
TP07 - 0-0.1	TP07	0-0.1	8/04/2021	Fill, silty clay			<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
TP07 - 0-0.3	TP07	0-0.3	8/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP08 - 0-0.1	TP08	0-0.1	8/04/2021	Fill, silty clay			<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
TP09 - 0.2-0.3	TP09	0.2-0.3	8/04/2021	Fill, silty clay			<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
TP09 - 0.4-0.5	TP09	0.4-0.5	8/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP09 - 0-0.1	TP09	0-0.1	8/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP09 - FRAG01	TP09		8/04/2021				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP10 - 0.3-0.4	TP10	0.3-0.4	8/04/2021	Fill, gravelly silty clay			<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
TP10 - 0-0.8	TP10	0-0.8	8/04/2021	Fill, gravelly silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP11 - 0.2-0.3	TP11	0.2-0.3	8/04/2021	Fill, silty clay			<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
TP11 - 0-0.3	TP11	0-0.3	8/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP12 - 0-0.1	TP12	0-0.1	8/04/2021	Fill, silty clay			<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
TP13 - 0-0.1	TP13	0-0.1	8/04/2021	Fill, silty clay			<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
TP14 - 0-0.1	TP14	0-0.1	8/04/2021	Fill, silty clay			<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
TP15 - 0.1-0.4	TP15	0.1-0.4	8/04/2021	Fill, reworked silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP15 - 0.2-0.3	TP15	0.2-0.3	8/04/2021	Silty clay			<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
TP16 - 0-0.1	TP16	0-0.1	8/04/2021	Fill, silty clay			<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
TP18 - 0-0.1	TP18	0-0.1	8/04/2021	Fill, topsoil			<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
TP19 - 0-0.1	TP19	0-0.1	8/04/2021	Fill, silty clay			<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
TP22 - 0-0.1	TP22	0-0.1	8/04/2021	Fill, silty clay			<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
TP22 - 0-0.2	TP22	0-0.2	8/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP23 - 0-0.1	TP23	0-0.1	8/04/2021	Fill, silty clay			<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
TP23 - 0-0.2	TP23	0-0.2	8/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP25 - 0-0.1	TP25	0-0.1	8/04/2021	Fill, silty clay			<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
TP25 - 0-0.2	TP25	0-0.2	8/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP26 - 0-0.1	TP26	0-0.1	8/04/2021	Fill, silty clay			<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
TP26 - 0-0.2	TP26	0-0.2	8/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP27 - 0-0.1	TP27	0-0.1	8/04/2021	Fill, silty clay			<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
TP27 - 0-0.2	TP27	0-0.2	8/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP28 - 0-0.1	TP28	0-0.1	8/04/2021	Fill, silty clay			<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
TP28 - 0-0.2	TP28	0-0.2	8/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP29 - 0-0.1	TP29	0-0.1	8/04/2021	Fill, silty clay			<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
TP29 - 0-0.2	TP29	0-0.2	8/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP34 - 0-0.1	TP34	0-0.1	9/04/2021	Fill, silty clay			<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
TP34 - 0-0.2	TP34	0-0.2	9/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP35 - 0-0.1	TP35	0-0.1	9/04/2021	Fill, silty clay			<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
TP35 - 0-0.2	TP35	0-0.2	9/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP36 - 0-0.1	TP36	0-0.1	9/04/2021	Fill, silty clay			<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
TP37 - 0-0.1	TP37	0-0.1	9/04/2021	Fill, silty clay			<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	<0.5	<0.5	-	<0.5	<0.5	<1	<1
TP37 - 0-0.2	TP37	0-0.2	9/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP38 - 0-0.1	TP38	0-0.1	9/04/2021	Fill, silty clay			<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
TP38 - 0-0.2	TP38	0-0.2	9/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP43 - 0-0.1	TP43	0-0.1	9/04/2021	Fill, silty clay			<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
TP43 - 0-0.2	TP43	0-0.2	9/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP44 - 0-0.1	TP44	0-0.1	9/04/2021	Fill, silty clay			<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
TP44 - 0-0.2	TP44	0-0.2	9/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP45 - 0-0.1	TP45	0-0.1	9/04/2021	Clay			<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

Env Stds Comments
#1:Trigger value adopted from Chromium VI
#2:Approximate range of petroleum hydrocarbon fractions: petrol C6–C9, kerosene C10–C18, diesel C12–C18, and lubricating oils above C18. Refer to NSW
#3:There may be a need for the laboratory to concentrate the sample to achieve the TCLP limit value for benzo(a)pyrene with confidence. Refer to NSW Wa
#4:Polychlorinated biphenyls must be managed in accordance with the EPA's polychlorinated biphenyl (PCB) chemical control order 1997. Refer to NSW Wa
#5:Refer to NSW Waste Criteria Nov 2014 p.17 footnote 13
#6:Calculated from Hazardous Waste: Identification and Listing (USEPA 2012a). Refer to NSW Waste Criteria Nov 2014 p.16 footnote 3, 4
#7:Refer to NSW Waste Criteria Nov 2014 p.17 footnote 12, EPA Chemical Control Order 1997, clause 4.13

Data Comments
#1 No asbestos detected at the reporting limit of 0.001% w/w.*Organic fibre detected.No trace asbestos detected.
#2 Chrysotile and amosite asbestos detected.
#3 No respirable fibres detected.
#4 Organic fibres detected.
#5 Nil
#6 –

Table B
Project Number: 66150
Project Name: 235-251 Aldington Road, Kemps Creek

							Organochlorine Pesticides																					Polychlorinated Biphenyls							
							4,4-DDE	a-BHC	b-BHC	d-BHC	g-BHC (Lindane)	Aldrin	Dieldrin	Aldrin + Dieldrin	Chlordane	Chlordane (cis)	Chlordane (trans)	DDT	DDD	DDT+DDE+DDD	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor Epoxide	Methoxychlor	Toxaphene	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	PCBs (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
EQL							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	0.2	0.1	0.5	0.1	0.5	0.5	0.5	0.5	0.5	0.5
NSW 2014 General Solid Waste CT1 (No Leaching)																																						<50[#1]
NSW 2014 General Solid Waste SCC1 (with leached)																																						<50[#7]
Field ID	**Location**	**Sample_Depth_Range**	**Sampled_Date_Time**	**Matrix_Description**	**Monitoring_Round**	**Monitoring Zone**																																
QA202104-08-01	TP06	0-0.1	8/04/2021	TP06 - 0-0.1			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
QA202104-08-02	TP18	0-0.1	8/04/2021	TP18 - 0-0.1			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC20210408-01	TP06	0-0.1	8/04/2021	TP06 - 0-0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
QC20210408-02	TP18	0-0.1	8/04/2021	TP18 - 0-0.1			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP01 - 0-0.1	TP01	0-0.1	8/04/2021	Fill, sandy silt			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP01 - 0-0.6	TP01	0-0.6	8/04/2021	Fill, sandy silt			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP01 - 1-1.1	TP01	1-1.1	8/04/2021	Silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP02 - 0.2-0.3	TP02	0.2-0.3	8/04/2021	Fill, reworked natural			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP02 - 0-0.1	TP02	0-0.1	8/04/2021	Fill, silt			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP03 - 0-0.1	TP03	0-0.1	8/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP04 - 0-0.1	TP04	0-0.1	8/04/2021	Fill, silty clay			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP05 - 0-0.1	TP05	0-0.1	8/04/2021	Fill, reworked natural			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP05 - 0-0.4	TP05	0-0.4	8/04/2021	Fill, reworked natural			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP06 - 0-0.1	TP06	0-0.1	8/04/2021	Fill, silty clay			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP07 - 0-0.1	TP07	0-0.1	8/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP07 - 0-0.3	TP07	0-0.3	8/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP08 - 0-0.1	TP08	0-0.1	8/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP09 - 0.2-0.3	TP09	0.2-0.3	8/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP09 - 0.4-0.5	TP09	0.4-0.5	8/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP09 - 0-0.1	TP09	0-0.1	8/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP09 - FRAG01	TP09		8/04/2021				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP10 - 0.3-0.4	TP10	0.3-0.4	8/04/2021	Fill, gravelly silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP10 - 0-0.8	TP10	0-0.8	8/04/2021	Fill, gravelly silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP11 - 0.2-0.3	TP11	0.2-0.3	8/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP11 - 0-0.3	TP11	0-0.3	8/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP12 - 0-0.1	TP12	0-0.1	8/04/2021	Fill, silty clay			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP13 - 0-0.1	TP13	0-0.1	8/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP14 - 0-0.1	TP14	0-0.1	8/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP15 - 0.1-0.4	TP15	0.1-0.4	8/04/2021	Fill, reworked silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP15 - 0.2-0.3	TP15	0.2-0.3	8/04/2021	Silty clay			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP16 - 0-0.1	TP16	0-0.1	8/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP18 - 0-0.1	TP18	0-0.1	8/04/2021	Fill, topsoil			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP19 - 0-0.1	TP19	0-0.1	8/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP22 - 0-0.1	TP22	0-0.1	8/04/2021	Fill, silty clay			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP22 - 0-0.2	TP22	0-0.2	8/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP23 - 0-0.1	TP23	0-0.1	8/04/2021	Fill, silty clay			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP23 - 0-0.2	TP23	0-0.2	8/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP25 - 0-0.1	TP25	0-0.1	8/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP25 - 0-0.2	TP25	0-0.2	8/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP26 - 0-0.1	TP26	0-0.1	8/04/2021	Fill, silty clay			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP26 - 0-0.2	TP26	0-0.2	8/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP27 - 0-0.1	TP27	0-0.1	8/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP27 - 0-0.2	TP27	0-0.2	8/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP28 - 0-0.1	TP28	0-0.1	8/04/2021	Fill, silty clay			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP28 - 0-0.2	TP28	0-0.2	8/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP29 - 0-0.1	TP29	0-0.1	8/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP29 - 0-0.2	TP29	0-0.2	8/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP34 - 0-0.1	TP34	0-0.1	9/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP34 - 0-0.2	TP34	0-0.2	9/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP35 - 0-0.1	TP35	0-0.1	9/04/2021	Fill, silty clay			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP35 - 0-0.2	TP35	0-0.2	9/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP36 - 0-0.1	TP36	0-0.1	9/04/2021	Fill, silty clay			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP37 - 0-0.1	TP37	0-0.1	9/04/2021	Fill, silty clay			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP37 - 0-0.2	TP37	0-0.2	9/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP38 - 0-0.1	TP38	0-0.1	9/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP38 - 0-0.2	TP38	0-0.2	9/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP43 - 0-0.1	TP43	0-0.1	9/04/2021	Fill, silty clay			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP43 - 0-0.2	TP43	0-0.2	9/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP44 - 0-0.1	TP44	0-0.1	9/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP44 - 0-0.2	TP44	0-0.2	9/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP45 - 0-0.1	TP45	0-0.1	9/04/2021	Clay			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Env Stds Comments
#1:Trigger value adopted from Chromium VI
#2:Approximate range of petroleum hydrocarbon fractions: petrol C6–C9, kerosene C10–C18, diesel C12–C18, and lubricating oils above C18. Refer to NSW
#3:There may be a need for the laboratory to concentrate the sample to achieve the TCLP limit value for benzo(a)pyrene with confidence. Refer to NSW Wa
#4:Polychlorinated biphenyls must be managed in accordance with the EPA's polychlorinated biphenyl (PCB) chemical control order 1997. Refer to NSW Wa
#5:Refer to NSW Waste Criteria Nov 2014 p.17 footnote 13
#6:Calculated from Hazardous Waste: Identification and Listing (USEPA 2012a). Refer to NSW Waste Criteria Nov 2014 p.16 footnote 3, 4
#7:Refer to NSW Waste Criteria Nov 2014 p.17 footnote 12, EPA Chemical Control Order 1997, clause 4.13

Data Comments
#1 No asbestos detected at the reporting limit of 0.001% w/w.*Organic fibre detected.No trace asbestos detected.
#2 Chrysotile and amosite asbestos detected.
#3 No respirable fibres detected.
#4 Organic fibres detected.
#5 Nil
#6 –

Table B
Project Number: 66150
Project Name: 235-251 Aldington Road, Kemps Creek

	Chlorinated Benzenes	Ionic Balance	PA VIC - IWRG62		Particle Size	Asbestos - Eurofins																Asbestos - Envirolab				Moisture Content	Other	
	Hexachlorobenzene	pH (aqueous extract)	Organochlorine Pesticides EPAVic	Other Organochlorine Pesticides EPAVic	% Clay*	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	ACM - Comment	FA- Comment	AF - Comment	Organic Fibres - Comment	Respirable Fibres - Comment	Synthetic Fibres - Comment	Asbestos Reported Result	Asbestos ID in Soil	Total Asbestos	Asbestos (ACM >7mm) Estimation	Asbestos in soil (<2mm AF/FA) [%w/w]	Moisture Content	Moisture Content (dried @ 103°C)	TOC
	mg/kg	pH Units	mg/kg	mg/kg	%	g	g	g	% (w/w)	g	g	g	g	% (w/w)	g	Comment	Comment	Comment	Comment	Comment	Comment	Comment	g/kg	g/kg	% (w/w)	% (w/w)	%	%	%
EQL	0.05	0.1	0.1	0.1	1																			0.1	0.01	0	0.1	1	0.1
NSW 2014 General Solid Waste CT1 (No Leaching)																													
NSW 2014 General Solid Waste SCC1 (with leached)																													

Field ID	Location	Sample_Depth_Range	Sampled_Date_Time	Matrix_Description	Monitoring_Round	Monitoring Zone																								
QA202104-08-01	TP06	0-0.1	8/04/2021	TP06 - 0-0.1			<0.05	-	<0.2	<0.2	-	387	0	0	0	0	0	0	0	0	1#5	1#5	1#5	1#4	1#3	1#5	1#1	-	-	-	-	-	20	-
QA202104-08-02	TP18	0-0.1	8/04/2021	TP18 - 0-0.1			-	-	-	-	-	560	0	0	0	0	0	0	0	0	1#5	1#5	1#5	1#4	1#3	1#5	1#1	-	-	-	-	-	17	-
QC20210408-01	TP06	0-0.1	8/04/2021	TP06 - 0-0.1			<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	<0.1	<0.01	<0.001 - 0[#6]	19	-	-
QC20210408-02	TP18	0-0.1	8/04/2021	TP18 - 0-0.1			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	<0.1	<0.01	<0.001 - 0[#6]	-	-	-
TP01 - 0-0.1	TP01	0-0.1	8/04/2021	Fill, sandy silt			<0.05	7.2	<0.2	<0.2	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.7	2.6
TP01 - 0-0.6	TP01	0-0.6	8/04/2021	Fill, sandy silt			-	-	-	-	-	747	0	0	0	0	0	0	0	0	1#5	1#5	1#5	1#4	1#3	1#5	1#1	-	-	-	-	-	-	-
TP01 - 1-1.1	TP01	1-1.1	8/04/2021	Silty clay			-	5.6	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	0.6
TP02 - 0.2-0.3	TP02	0.2-0.3	8/04/2021	Fill, reworked natural			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28	-
TP02 - 0-0.1	TP02	0-0.1	8/04/2021	Fill, silt			-	-	-	-	-	469	0	0	0	0	0	0	0	0	1#5	1#5	1#5	1#4	1#3	1#5	1#1	-	-	-	-	-	-	-
TP03 - 0-0.1	TP03	0-0.1	8/04/2021	Fill, silty clay			-	-	-	-	-	486	0	0	0	0	0	0	0	0	1#5	1#5	1#5	1#4	1#3	1#5	1#1	-	-	-	-	-	17	-
TP04 - 0-0.1	TP04	0-0.1	8/04/2021	Fill, silty clay			<0.05	-	<0.2	<0.2	-	422	0	0	0	0	0	0	0	0	1#5	1#5	1#5	1#4	1#3	1#5	1#1	-	-	-	-	-	19	-
TP05 - 0-0.1	TP05	0-0.1	8/04/2021	Fill, reworked natural			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23	-
TP05 - 0-0.4	TP05	0-0.4	8/04/2021	Fill, reworked natural			-	-	-	-	-	360	0	0	0	0	0	0	0	0	1#5	1#5	1#5	1#4	1#3	1#5	1#1	-	-	-	-	-	-	-
TP06 - 0-0.1	TP06	0-0.1	8/04/2021	Fill, silty clay			<0.05	-	<0.2	<0.2	-	458	0	0	0	0	0	0	0	0	1#5	1#5	1#5	1#4	1#3	1#5	1#1	-	-	-	-	-	18	-
TP07 - 0-0.1	TP07	0-0.1	8/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19	-
TP07 - 0-0.3	TP07	0-0.3	8/04/2021	Fill, silty clay			-	-	-	-	-	532	0	0	0	0	0	0	0	0	1#5	1#5	1#5	1#4	1#3	1#5	1#1	-	-	-	-	-	-	-
TP08 - 0-0.1	TP08	0-0.1	8/04/2021	Fill, silty clay			-	-	-	-	-	335	0	0	0	0	0	0	0	0	1#5	1#5	1#5	1#4	1#3	1#5	1#1	-	-	-	-	-	21	-
TP09 - 0.2-0.3	TP09	0.2-0.3	8/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	-
TP09 - 0.4-0.5	TP09	0.4-0.5	8/04/2021	Fill, silty clay			-	-	-	-	-	630	0	0	0	0	0	0	0	0	1#5	1#5	1#5	1#4	1#3	1#5	1#1	-	-	-	-	-	-	-
TP09 - 0-0.1	TP09	0-0.1	8/04/2021	Fill, silty clay			-	-	-	-	-	717	0	0	0	0	0	0	0	0	1#5	1#5	1#5	1#5	1#3	1#5	1#1	-	-	-	-	-	-	-
TP09 - FRAG01	TP09		8/04/2021				-	-	-	-	-	302	0	0	0	0	0	0	0	0	1#5	1#5	1#5	1#5	0	1#5	1#2	-	-	-	-	-	-	-
TP10 - 0.3-0.4	TP10	0.3-0.4	8/04/2021	Fill, gravelly silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21	-
TP10 - 0-0.8	TP10	0-0.8	8/04/2021	Fill, gravelly silty clay			-	-	-	-	-	527	0	0	0	0	0	0	0	0	1#5	1#5	1#5	1#4	1#3	1#5	1#1	-	-	-	-	-	-	-
TP11 - 0.2-0.3	TP11	0.2-0.3	8/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19	-
TP11 - 0-0.3	TP11	0-0.3	8/04/2021	Fill, silty clay			-	-	-	-	-	341	0	0	0	0	0	0	0	0	1#5	1#5	1#5	1#4	1#3	1#5	1#1	-	-	-	-	-	-	-
TP12 - 0-0.1	TP12	0-0.1	8/04/2021	Fill, silty clay			<0.05	-	<0.2	<0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21	-
TP13 - 0-0.1	TP13	0-0.1	8/04/2021	Fill, silty clay			-	-	-	-	-	438	0	0	0	0	0	0	0	0	1#5	1#5	1#5	1#4	1#3	1#5	1#1	-	-	-	-	-	20	-
TP14 - 0-0.1	TP14	0-0.1	8/04/2021	Fill, silty clay			-	-	-	-	-	525	0	0	0	0	0	0	0	0	1#5	1#5	1#5	1#4	1#3	1#5	1#1	-	-	-	-	-	15	-
TP15 - 0.1-0.4	TP15	0.1-0.4	8/04/2021	Fill, reworked silty clay			-	-	-	-	-	467	0	0	0	0	0	0	0	0	1#5	1#5	1#5	1#4	1#3	1#5	1#1	-	-	-	-	-	-	-
TP15 - 0.2-0.3	TP15	0.2-0.3	8/04/2021	Silty clay			<0.05	-	<0.2	<0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22	-
TP16 - 0-0.1	TP16	0-0.1	8/04/2021	Fill, silty clay			-	-	-	-	-	540	0	0	0	0	0	0	0	0	1#5	1#5	1#5	1#4	1#3	1#5	1#1	-	-	-	-	-	16	-
TP18 - 0-0.1	TP18	0-0.1	8/04/2021	Fill, topsoil			-	-	-	-	-	438	0	0	0	0	0	0	0	0	1#5	1#5	1#5	1#4	1#3	1#5	1#1	-	-	-	-	-	16	-
TP19 - 0-0.1	TP19	0-0.1	8/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	-
TP22 - 0-0.1	TP22	0-0.1	8/04/2021	Fill, silty clay			<0.05	-	<0.2	<0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	-
TP22 - 0-0.2	TP22	0-0.2	8/04/2021	Fill, silty clay			-	-	-	-	-	385	0	0	0	0	0	0	0	0	-	-	-	-	1#5	-	1#1	-	-	-	-	-	-	-
TP23 - 0-0.1	TP23	0-0.1	8/04/2021	Fill, silty clay			<0.05	-	<0.2	<0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	-
TP23 - 0-0.2	TP23	0-0.2	8/04/2021	Fill, silty clay			-	-	-	-	-	435	0	0	0	0	0	0	0	0	1#5	1#5	1#5	1#4	1#3	1#5	1#1	-	-	-	-	-	-	-
TP25 - 0-0.1	TP25	0-0.1	8/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21	-
TP25 - 0-0.2	TP25	0-0.2	8/04/2021	Fill, silty clay			-	-	-	-	-	421	0	0	0	0	0	0	0	0	1#5	1#5	1#5	1#4	1#3	1#5	1#1	-	-	-	-	-	-	-
TP26 - 0-0.1	TP26	0-0.1	8/04/2021	Fill, silty clay			<0.05	-	<0.2	<0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23	-
TP26 - 0-0.2	TP26	0-0.2	8/04/2021	Fill, silty clay			-	-	-	-	-	491	0	0	0	0	0	0	0	0	1#5	1#5	1#5	1#4	1#3	1#5	1#1	-	-	-	-	-	-	-
TP27 - 0-0.1	TP27	0-0.1	8/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20	-
TP27 - 0-0.2	TP27	0-0.2	8/04/2021	Fill, silty clay			-	-	-	-	-	417	0	0	0	0	0	0	0	0	1#5	1#5	1#5	1#4	1#3	1#5	1#1	-	-	-	-	-	-	-
TP28 - 0-0.1	TP28	0-0.1	8/04/2021	Fill, silty clay			<0.05	-	<0.2	<0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19	-
TP28 - 0-0.2	TP28	0-0.2	8/04/2021	Fill, silty clay			-	-	-	-	-	405	0	0	0	0	0	0	0	0	1#5	1#5	1#5	1#4	1#3	1#5	1#1	-	-	-	-	-	-	-
TP29 - 0-0.1	TP29	0-0.1	8/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	-
TP29 - 0-0.2	TP29	0-0.2	8/04/2021	Fill, silty clay			-	-	-	-	-	496	0	0	0	0	0	0	0	0	1#5	1#5	1#5	1#4	1#3	1#5	1#1	-	-	-	-	-	-	-
TP34 - 0-0.1	TP34	0-0.1	9/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	-
TP34 - 0-0.2	TP34	0-0.2	9/04/2021	Fill, silty clay			-	-	-	-	-	711	0	0	0	0	0	0	0	0	1#5	1#5	1#5	1#4	1#3	1#5	1#1	-	-	-	-	-	-	-
TP35 - 0-0.1	TP35	0-0.1	9/04/2021	Fill, silty clay			<0.05	-	<0.2	<0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	-
TP35 - 0-0.2	TP35	0-0.2	9/04/2021	Fill, silty clay			-	-	-	-	-	482	0	0	0	0	0	0	0	0	1#5	1#5	1#5	1#4	1#3	1#5	1#1	-	-	-	-	-	-	-
TP36 - 0-0.1	TP36	0-0.1	9/04/2021	Fill, silty clay			<0.05	-	<0.2	<0.2	-	495	0	0	0	0	0	0	0	0	1#5	1#5	1#5	1#4	1#3	1#5	1#1	-	-	-	-	-	20	-
TP37 - 0-0.1	TP37	0-0.1	9/04/2021	Fill, silty clay			<0.05	-	<0.2	<0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22	-
TP37 - 0-0.2	TP37	0-0.2	9/04/2021	Fill, silty clay			-	-	-	-	-	444	0	0	0	0	0	0	0	0	1#5	1#5	1#5	1#4	1#3	1#5	1#1	-	-	-	-	-	-	-
TP38 - 0-0.1	TP38	0-0.1	9/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21	-
TP38 - 0-0.2	TP38	0-0.2	9/04/2021	Fill, silty clay			-	-	-	-	-	457	0	0	0	0	0	0	0	0	1#5	1#5	1#5	1#5	1#3	1#5	1#1	-	-	-	-	-	-	-
TP43 - 0-0.1	TP43	0-0.1	9/04/2021	Fill, silty clay			<0.05	-	<0.2	<0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20	-
TP43 - 0-0.2	TP43	0-0.2	9/04/2021	Fill, silty clay			-	-	-	-	-	422	0	0	0	0	0	0	0	0	1#5	1#5	1#5	1#4	1#5	1#5	1#1	-	-	-	-	-	-	-
TP44 - 0-0.1	TP44	0-0.1	9/04/2021	Fill, silty clay			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	-
TP44 - 0-0.2	TP44	0-0.2	9/04/2021	Fill, silty clay			-	-	-	-	-	571	0	0	0	0	0	0	0	0	1#5	1#5	1#5	1#5	1#5	1#5	1#1	-	-	-	-	-	-	-
TP45 - 0-0.1	TP45	0-0.1	9/04/2021	Clay			<0.05	-	<0.2	<0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	-

Env Stds Comments
#1:Trigger value adopted from Chromium VI
#2:Approximate range of petroleum hydrocarbon fractions: petrol C6–C9, kerosene C10–C18, diesel C12–C18, and lubricating oils above C18. Refer to NSW
#3:There may be a need for the laboratory to concentrate the sample to achieve the TCLP limit value for benzo(a)pyrene with confidence. Refer to NSW Wa
#4:Polychlorinated biphenyls must be managed in accordance with the EPA's polychlorinated biphenyl (PCB) chemical control order 1997. Refer to NSW Wa
#5:Refer to NSW Waste Criteria Nov 2014 p.17 footnote 13
#6:Calculated from Hazardous Waste: Identification and Listing (USEPA 2012a). Refer to NSW Waste Criteria Nov 2014 p.16 footnote 3, 4
#7:Refer to NSW Waste Criteria Nov 2014 p.17 footnote 12, EPA Chemical Control Order 1997, clause 4.13

Data Comments
#1 No asbestos detected at the reporting limit of 0.001% w/w.*Organic fibre detected.No trace asbestos detected.
#2 Chrysotile and amosite asbestos detected.
#3 No respirable fibres detected.
#4 Organic fibres detected.
#5 Nil
#6 –

Table C - Asbestos
Project Number: 66105
Project Name: Aldington Road, Kemps Creek

| | | |

Attachment 4 - Laboratory Analysis Report and COCs

eurofins | Environment Testing

www.eurofins.com.au EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
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

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	George Black
Project name:	219-233 ALDINGTON RD
Project ID:	61646
Turnaround time:	10 Day
Date/Time received	Dec 15, 2021 4:43 PM
Eurofins reference	851404

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 : 10.2 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

Sample jar TP43_0-0.1 received broken, subsampled from asbestos bag to proceed to metals analysis. No asbestos bags received for samples SED01, TP29-0.2-0.3 and TP11-0.4-0.5. Samples TP26-0-0.1 (1x jar and 1x bag), TP26-0.2-0.3 (1x jar) received extra and logged on hold. Extra bag received for samples TP16-0.2-0.3 and TP18-0.3-0.4. Split samples (QA) were not received with the primary samples, please confirm if you organised your own courier to Envirolab directly (or packed in a separate Esky addressed to Envirolab).

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 George Black - gblack@jbsg.com.au.

Global Leader - Results you can trust

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

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: **George Black**

Report **851404-S**
Project name 219-233 ALDINGTON RD
Project ID 61646
Received Date Dec 15, 2021

Client Sample ID			**TP01-0-0.1**	**TP02-0-0.1**	**TP05-0-0.1**	**TP03-0-0.1**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**S21-De43790**	**S21-De43791**	**S21-De43792**	**S21-De43793**
Date Sampled			**Dec 13, 2021**	**Dec 13, 2021**	**Dec 13, 2021**	**Dec 13, 2021**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
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-C36 (Total)	50	mg/kg	< 50	-	< 50	< 50
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
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	< 100	< 100
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	%	INT	-	56	86
Polycyclic Aromatic Hydrocarbons						
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
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

Client Sample ID			TP01-0-0.1	TP02-0-0.1	TP05-0-0.1	TP03-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-De43790	S21-De43791	S21-De43792	S21-De43793
Date Sampled			Dec 13, 2021	Dec 13, 2021	Dec 13, 2021	Dec 13, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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
2-Fluorobiphenyl (surr.)	1	%	78	-	91	84
p-Terphenyl-d14 (surr.)	1	%	93	-	96	97
Heavy Metals						
Arsenic	2	mg/kg	14	20	15	14
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	16	25	28	21
Copper	5	mg/kg	30	45	27	40
Iron	20	mg/kg	-	47000	-	-
Lead	5	mg/kg	21	20	19	18
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	15	22	11	12
Zinc	5	mg/kg	69	93	46	53
% Moisture	1	%	20	23	19	20
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	-	24	-	-
Organic Matter %	0.01	% w/w	-	6.1	-	-
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	-	6.0	-	-
Cation Exchange Capacity						
Cation Exchange Capacity	0.05	meq/100g	-	29	-	-
Pathogens						
E.coli (MPN)	1	MPN/g	-	See attached	-	-
Salmonella[M10]	1		-	See attached	-	-
Salmonella Volume/Mass Tested		g	-	See attached	-	-
Thermotolerant Coliforms (MPN)	1	MPN/g	-	See attached	-	-
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-HCH	0.05	mg/kg	-	-	-	< 0.05
Aldrin	0.05	mg/kg	-	-	-	< 0.05
b-HCH	0.05	mg/kg	-	-	-	< 0.05
d-HCH	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-HCH (Lindane)	0.05	mg/kg	-	-	-	< 0.05
Heptachlor	0.05	mg/kg	-	-	-	< 0.05

Client Sample ID			TP01-0-0.1	TP02-0-0.1	TP05-0-0.1	TP03-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-De43790	S21-De43791	S21-De43792	S21-De43793
Date Sampled			Dec 13, 2021	Dec 13, 2021	Dec 13, 2021	Dec 13, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Heptachlor epoxide	0.05	mg/kg	-	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	-	< 0.05
Methoxychlor	0.05	mg/kg	-	-	-	< 0.05
Toxaphene	0.5	mg/kg	-	-	-	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	-	< 0.1
Dibutylchlorendate (surr.)	1	%	-	-	-	95
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	101
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1221	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1232	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1242	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1248	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1254	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1260	0.1	mg/kg	-	-	-	< 0.1
Total PCB*	0.1	mg/kg	-	-	-	< 0.1
Dibutylchlorendate (surr.)	1	%	-	-	-	95
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	101

Client Sample ID			TP06-0-0.1	TP04-0-0.1	TP08-0-0.1	TP12-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-De43794	S21-De43795	S21-De43796	S21-De43797
Date Sampled			Dec 13, 2021	Dec 13, 2021	Dec 13, 2021	Dec 13, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
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-C36 (Total)	50	mg/kg	< 50	-	< 50	-
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	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	< 100	-
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	-	97	-

Client Sample ID			TP06-0-0.1	TP04-0-0.1	TP08-0-0.1	TP12-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-De43794	S21-De43795	S21-De43796	S21-De43797
Date Sampled			Dec 13, 2021	Dec 13, 2021	Dec 13, 2021	Dec 13, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	12	18	7.6	9.6
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	22	22	17	23
Copper	5	mg/kg	57	43	42	55
Lead	5	mg/kg	21	24	17	23
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	9.4	13	11	15
Zinc	5	mg/kg	43	63	65	86
% Moisture	1	%	20	22	21	39
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-HCH	0.05	mg/kg	-	-	< 0.05	-
Aldrin	0.05	mg/kg	-	-	< 0.05	-
b-HCH	0.05	mg/kg	-	-	< 0.05	-
d-HCH	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-HCH (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	0.05	mg/kg	-	-	< 0.05	-
Toxaphene	0.5	mg/kg	-	-	< 0.5	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	< 0.1	-
Dibutylchlorendate (surr.)	1	%	-	-	94	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	98	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1221	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1232	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1242	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1248	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1254	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1260	0.1	mg/kg	-	-	< 0.1	-
Total PCB*	0.1	mg/kg	-	-	< 0.1	-
Dibutylchlorendate (surr.)	1	%	-	-	94	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	98	-

Client Sample ID			QC20211213-01	SED01	TP09-0.2-0.3	QC20211213-02
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-De43798	S21-De43799	S21-De43800	S21-De43802
Date Sampled			Dec 13, 2021	Dec 13, 2021	Dec 13, 2021	Dec 13, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	24	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	89	110	76
TRH C29-C36	50	mg/kg	< 50	180	74	71
TRH C10-C36 (Total)	50	mg/kg	< 50	293	184	147
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	160	120
TRH >C34-C40	100	mg/kg	< 100	200	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	410	160	120
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	79	92	106
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	%	88	58	96	115
p-Terphenyl-d14 (surr.)	1	%	98	101	109	128
Heavy Metals						
Arsenic	2	mg/kg	15	7.5	9.7	3.3
Cadmium	0.4	mg/kg	< 0.4	< 0.4	1.0	< 0.4
Chromium	5	mg/kg	25	19	37	32
Copper	5	mg/kg	34	120	65	31

Client Sample ID			QC20211213-01	SED01	TP09-0.2-0.3	QC20211213-02
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-De43798	S21-De43799	S21-De43800	S21-De43802
Date Sampled			Dec 13, 2021	Dec 13, 2021	Dec 13, 2021	Dec 13, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Lead	5	mg/kg	20	33	61	28
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	11	16	37	42
Zinc	5	mg/kg	43	210	240	100
% Moisture	1	%	19	70	15	12
Pathogens						
E.coli (MPN)	1	MPN/g	-	See attached	-	-
Salmonella[M10]	1		-	See attached	-	-
Salmonella Volume/Mass Tested		g	-	See attached	-	-
Thermotolerant Coliforms (MPN)	1	MPN/g	-	See attached	-	-
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-HCH	0.05	mg/kg	< 0.05	< 0.05	-	-
Aldrin	0.05	mg/kg	< 0.05	< 0.05	-	-
b-HCH	0.05	mg/kg	< 0.05	< 0.05	-	-
d-HCH	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-HCH (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	0.05	mg/kg	< 0.05	< 0.05	-	-
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	97	103	-	-
Tetrachloro-m-xylene (surr.)	1	%	102	99	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1	-	-
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	-	-
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1	-	-
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1	-	-
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	-	-
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	-	-
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	-	-
Total PCB*	0.1	mg/kg	< 0.1	< 0.1	-	-

Client Sample ID			QC20211213-01	SED01	TP09-0.2-0.3	QC20211213-02
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-De43798	S21-De43799	S21-De43800	S21-De43802
Date Sampled			Dec 13, 2021	Dec 13, 2021	Dec 13, 2021	Dec 13, 2021
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Dibutylchlorendate (surr.)	1	%	97	103	-	-
Tetrachloro-m-xylene (surr.)	1	%	102	99	-	-

Client Sample ID			TP10-0-0.1	TP11-0-0.1	TP13-0-0.1	TP14-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-De43803	S21-De43804	S21-De43805	S21-De43806
Date Sampled			Dec 13, 2021	Dec 13, 2021	Dec 13, 2021	Dec 13, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
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-C36 (Total)	50	mg/kg	< 50	-	< 50	< 50
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
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	< 100	< 100
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	%	95	-	81	94
Polycyclic Aromatic Hydrocarbons						
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	-	-	-
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	-	-	-

Client Sample ID			TP10-0-0.1	TP11-0-0.1	TP13-0-0.1	TP14-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-De43803	S21-De43804	S21-De43805	S21-De43806
Date Sampled			Dec 13, 2021	Dec 13, 2021	Dec 13, 2021	Dec 13, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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	-	-	-
2-Fluorobiphenyl (surr.)	1	%	80	-	-	-
p-Terphenyl-d14 (surr.)	1	%	98	-	-	-
Heavy Metals						
Arsenic	2	mg/kg	9.5	9.9	17	21
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	24	24	28	24
Copper	5	mg/kg	29	27	32	42
Lead	5	mg/kg	29	31	31	24
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	14	14	20	9.5
Zinc	5	mg/kg	85	51	65	39
% Moisture	1	%	18	22	20	22
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-HCH	0.05	mg/kg	-	-	< 0.05	-
Aldrin	0.05	mg/kg	-	-	< 0.05	-
b-HCH	0.05	mg/kg	-	-	< 0.05	-
d-HCH	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-HCH (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	0.05	mg/kg	-	-	< 0.05	-
Toxaphene	0.5	mg/kg	-	-	< 0.5	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	< 0.1	-
Dibutylchlorendate (surr.)	1	%	-	-	97	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	96	-

Client Sample ID			TP10-0-0.1	TP11-0-0.1	TP13-0-0.1	TP14-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-De43803	S21-De43804	S21-De43805	S21-De43806
Date Sampled			Dec 13, 2021	Dec 13, 2021	Dec 13, 2021	Dec 13, 2021
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1221	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1232	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1242	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1248	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1254	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1260	0.1	mg/kg	-	-	< 0.1	-
Total PCB*	0.1	mg/kg	-	-	< 0.1	-
Dibutylchlorendate (surr.)	1	%	-	-	97	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	96	-

Client Sample ID			TP15-0-0.1	TP15-1.9-2.0	TP16-0-0.1	TP18-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-De43807	S21-De43808	S21-De43809	S21-De43810
Date Sampled			Dec 13, 2021	Dec 13, 2021	Dec 13, 2021	Dec 13, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
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-C36 (Total)	50	mg/kg	< 50	-	-	< 50
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
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	-	< 100
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	-	-	80
Polycyclic Aromatic Hydrocarbons						
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
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

Client Sample ID			TP15-0-0.1	TP15-1.9-2.0	TP16-0-0.1	TP18-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-De43807	S21-De43808	S21-De43809	S21-De43810
Date Sampled			Dec 13, 2021	Dec 13, 2021	Dec 13, 2021	Dec 13, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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
2-Fluorobiphenyl (surr.)	1	%	88	-	-	112
p-Terphenyl-d14 (surr.)	1	%	102	-	-	126
Heavy Metals						
Arsenic	2	mg/kg	11	13	17	18
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	20	19	21	21
Copper	5	mg/kg	46	43	94	38
Lead	5	mg/kg	27	22	20	19
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	18	19	9.2	13
Zinc	5	mg/kg	76	68	47	42
% Moisture	1	%	18	15	24	21

Client Sample ID			TP19-0-0.1	TP22-0-0.1	TP17-0-0.1	TP21-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-De43811	S21-De43812	S21-De43813	S21-De43816
Date Sampled			Dec 13, 2021	Dec 13, 2021	Dec 13, 2021	Dec 15, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
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-C36 (Total)	50	mg/kg	-	< 50	-	< 50
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
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	-	< 100

Client Sample ID			TP19-0-0.1	TP22-0-0.1	TP17-0-0.1	TP21-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-De43811	S21-De43812	S21-De43813	S21-De43816
Date Sampled			Dec 13, 2021	Dec 13, 2021	Dec 13, 2021	Dec 15, 2021
Test/Reference	LOR	Unit				
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	%	-	97	-	68
Heavy Metals						
Arsenic	2	mg/kg	21	16	7.0	11
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	25	14	18	27
Copper	5	mg/kg	17	32	28	18
Lead	5	mg/kg	29	18	18	15
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	13	12	14	6.6
Zinc	5	mg/kg	32	41	57	43
% Moisture	1	%	19	18	21	40

Client Sample ID			TP20-0-0.05	TP24-0-0.1	TP25-0-0.1	TP27-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-De43817	S21-De43818	S21-De43819	S21-De43820
Date Sampled			Dec 15, 2021	Dec 15, 2021	Dec 15, 2021	Dec 14, 2021
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	< 50	-	-	-
TRH C29-C36	50	mg/kg	< 50	-	-	-
TRH C10-C36 (Total)	50	mg/kg	< 50	-	-	-
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	-	-	-
TRH >C10-C40 (total)*	100	mg/kg	< 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	%	103	-	-	-

Client Sample ID			TP20-0-0.05	TP24-0-0.1	TP25-0-0.1	TP27-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-De43817	S21-De43818	S21-De43819	S21-De43820
Date Sampled			Dec 15, 2021	Dec 15, 2021	Dec 15, 2021	Dec 14, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	13	7.2	11	8.6
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	31	19	17	22
Copper	5	mg/kg	15	17	16	32
Lead	5	mg/kg	15	14	25	20
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	7.6	8.1	11	13
Zinc	5	mg/kg	23	23	58	51
% Moisture	1	%	21	18	23	25
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-HCH	0.05	mg/kg	-	-	-	< 0.05
Aldrin	0.05	mg/kg	-	-	-	< 0.05
b-HCH	0.05	mg/kg	-	-	-	< 0.05
d-HCH	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-HCH (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	0.05	mg/kg	-	-	-	< 0.05
Toxaphene	0.5	mg/kg	-	-	-	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	-	< 0.1
Dibutylchlorendate (surr.)	1	%	-	-	-	105
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	88
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1221	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1232	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1242	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1248	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1254	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1260	0.1	mg/kg	-	-	-	< 0.1
Total PCB*	0.1	mg/kg	-	-	-	< 0.1
Dibutylchlorendate (surr.)	1	%	-	-	-	105
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	88

Client Sample ID			TP28-0-0.1	TP29-0-0.1	TP29-0.2-0.3	TP31-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-De43821	S21-De43822	S21-De43823	S21-De43824
Date Sampled			Dec 14, 2021	Dec 14, 2021	Dec 14, 2021	Dec 14, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	8.1	21	25	14
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	22	21	22	23
Copper	5	mg/kg	45	32	36	23
Iron	20	mg/kg	-	30000	32000	-
Lead	5	mg/kg	21	19	14	36
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	15	16	16	9.8
Zinc	5	mg/kg	53	50	63	35
% Moisture	1	%	25	20	20	24
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	-	18	10	-
Organic Matter %	0.01	% w/w	-	5.4	5.6	-
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	-	5.3	5.2	-
Cation Exchange Capacity						
Cation Exchange Capacity	0.05	meq/100g	-	12	13	-

Client Sample ID			TP31-0.4-0.5	TP33-0-0.1	[G01]QC20211214-01	TP35-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-De43825	S21-De43826	S21-De43827	S21-De43828
Date Sampled			Dec 14, 2021	Dec 14, 2021	Dec 14, 2021	Dec 14, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
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	-	69	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	-	69	< 50
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
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	< 100	< 100
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	%	80	-	86	96

Client Sample ID			TP31-0.4-0.5	TP33-0-0.1	G01 QC20211214-01	TP35-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-De43825	S21-De43826	S21-De43827	S21-De43828
Date Sampled			Dec 14, 2021	Dec 14, 2021	Dec 14, 2021	Dec 14, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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	-
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	-
2-Fluorobiphenyl (surr.)	1	%	96	-	118	-
p-Terphenyl-d14 (surr.)	1	%	107	-	97	-
Heavy Metals						
Arsenic	2	mg/kg	6.8	11	12	12
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	15	18	16	20
Copper	5	mg/kg	24	13	30	14
Lead	5	mg/kg	14	16	28	18
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	13	6.6	16	5.5
Zinc	5	mg/kg	35	23	120	36
% Moisture	1	%	21	18	24	19
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	< 1	-
4.4'-DDD	0.05	mg/kg	-	-	< 0.5	-
4.4'-DDE	0.05	mg/kg	-	-	< 0.5	-
4.4'-DDT	0.05	mg/kg	-	-	< 0.5	-
a-HCH	0.05	mg/kg	-	-	< 0.5	-
Aldrin	0.05	mg/kg	-	-	< 0.5	-
b-HCH	0.05	mg/kg	-	-	< 0.5	-
d-HCH	0.05	mg/kg	-	-	< 0.5	-
Dieldrin	0.05	mg/kg	-	-	< 0.5	-
Endosulfan I	0.05	mg/kg	-	-	< 0.5	-
Endosulfan II	0.05	mg/kg	-	-	< 0.5	-
Endosulfan sulphate	0.05	mg/kg	-	-	< 0.5	-
Endrin	0.05	mg/kg	-	-	< 0.5	-
Endrin aldehyde	0.05	mg/kg	-	-	< 0.5	-
Endrin ketone	0.05	mg/kg	-	-	< 0.5	-

Client Sample ID			TP31-0.4-0.5	TP33-0-0.1	G01 QC20211214-01	TP35-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-De43825	S21-De43826	S21-De43827	S21-De43828
Date Sampled			Dec 14, 2021	Dec 14, 2021	Dec 14, 2021	Dec 14, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
g-HCH (Lindane)	0.05	mg/kg	-	-	< 0.5	-
Heptachlor	0.05	mg/kg	-	-	< 0.5	-
Heptachlor epoxide	0.05	mg/kg	-	-	< 0.5	-
Hexachlorobenzene	0.05	mg/kg	-	-	< 0.5	-
Methoxychlor	0.05	mg/kg	-	-	< 0.5	-
Toxaphene	0.5	mg/kg	-	-	< 10	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	< 0.5	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	< 0.5	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	< 1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	< 1	-
Dibutylchlorendate (surr.)	1	%	-	-	54	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	90	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	-	< 1	-
Aroclor-1221	0.1	mg/kg	-	-	< 1	-
Aroclor-1232	0.1	mg/kg	-	-	< 1	-
Aroclor-1242	0.1	mg/kg	-	-	< 1	-
Aroclor-1248	0.1	mg/kg	-	-	< 1	-
Aroclor-1254	0.1	mg/kg	-	-	< 1	-
Aroclor-1260	0.1	mg/kg	-	-	< 1	-
Total PCB*	0.1	mg/kg	-	-	< 1	-
Dibutylchlorendate (surr.)	1	%	-	-	54	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	90	-

Client Sample ID			TP37-0-0.1	TP39-0-0.1	TP40-0-0.1	TP41-0.3-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-De43829	S21-De43830	S21-De43831	S21-De43832
Date Sampled			Dec 14, 2021	Dec 14, 2021	Dec 14, 2021	Dec 14, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
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-C36 (Total)	50	mg/kg	-	< 50	< 50	< 50
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
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	< 100	< 100

Client Sample ID			TP37-0-0.1	TP39-0-0.1	TP40-0-0.1	TP41-0.3-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-De43829	S21-De43830	S21-De43831	S21-De43832
Date Sampled			Dec 14, 2021	Dec 14, 2021	Dec 14, 2021	Dec 14, 2021
Test/Reference	LOR	Unit				
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	94	96
Polycyclic Aromatic Hydrocarbons						
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	-	-
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	-	-
2-Fluorobiphenyl (surr.)	1	%	-	70	-	-
p-Terphenyl-d14 (surr.)	1	%	-	82	-	-
Heavy Metals						
Arsenic	2	mg/kg	10	17	8.5	18
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	19	24	17	28
Copper	5	mg/kg	23	33	29	42
Lead	5	mg/kg	21	33	20	36
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	8.4	19	13	21
Zinc	5	mg/kg	34	96	47	90
% Moisture	1	%	21	23	20	16
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-HCH	0.05	mg/kg	-	< 0.05	-	-
Aldrin	0.05	mg/kg	-	< 0.05	-	-
b-HCH	0.05	mg/kg	-	< 0.05	-	-

Client Sample ID			TP37-0-0.1	TP39-0-0.1	TP40-0-0.1	TP41-0.3-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-De43829	S21-De43830	S21-De43831	S21-De43832
Date Sampled			Dec 14, 2021	Dec 14, 2021	Dec 14, 2021	Dec 14, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
d-HCH	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-HCH (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	0.05	mg/kg	-	< 0.05	-	-
Toxaphene	0.5	mg/kg	-	< 0.5	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	-	76	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	61	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1232	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1242	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1248	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1254	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1260	0.1	mg/kg	-	< 0.1	-	-
Total PCB*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	-	76	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	61	-	-

Client Sample ID			TP42-0-0.1	TP43-0-0.1	TP45-0-0.1	TP47-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-De43833	S21-De43834	S21-De43835	S21-De43836
Date Sampled			Dec 14, 2021	Dec 14, 2021	Dec 14, 2021	Dec 14, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	10	8.1	4.6	5.0
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	21	15	9.1	11
Copper	5	mg/kg	23	20	7.4	7.4
Iron	20	mg/kg	-	-	-	22000
Lead	5	mg/kg	19	16	16	13
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	10	9.4	< 5	< 5
Zinc	5	mg/kg	35	30	51	12

Client Sample ID			TP42-0-0.1	TP43-0-0.1	TP45-0-0.1	TP47-0-0.1
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**S21-De43833**	**S21-De43834**	**S21-De43835**	**S21-De43836**
Date Sampled			**Dec 14, 2021**	**Dec 14, 2021**	**Dec 14, 2021**	**Dec 14, 2021**
Test/Reference	LOR	Unit				
% Moisture	1	%	22	24	26	20
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	-	-	-	25
Organic Matter %	0.01	% w/w	-	-	-	3.3
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	-	-	-	6.4
Cation Exchange Capacity						
Cation Exchange Capacity	0.05	meq/100g	-	-	-	4.6

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	Dec 22, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Dec 22, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Dec 22, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
JBS&G Suite 2			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Dec 22, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons	Sydney	Dec 22, 2021	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Metals M8	Sydney	Dec 22, 2021	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Organochlorine Pesticides	Sydney	Dec 22, 2021	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Polychlorinated Biphenyls	Sydney	Dec 22, 2021	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Heavy Metals	Sydney	Dec 22, 2021	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Organic Matter %	Melbourne	Dec 30, 2021	5 Days
- Method: APHA 2540E Fixed and Volatile Solids Ignited at 550C			
pH (1:5 Aqueous extract at 25°C as rec.)	Sydney	Dec 22, 2021	7 Days
- Method: LTM-GEN-7090 pH by ISE			
Salmonella	WaterTestingVic	Dec 17, 2021	72 Hours
- Method: LTM-MIC-6614 Salmonellae in Soil			
Thermotolerant Coliforms (MPN)	WaterTestingVic	Dec 17, 2021	72 Hours
- Method: Inhouse: Thermotolerant Coliforms in Soil by MPN*			
% Moisture	Sydney	Dec 17, 2021	14 Days
- Method: LTM-GEN-7080 Moisture			
Conductivity (1:5 aqueous extract at 25°C as rec.)	Sydney	Dec 22, 2021	7 Days
- Method: LTM-INO-4030 Conductivity			
Cation Exchange Capacity	Melbourne	Jan 11, 2022	28 Days
- Method: LTM-MET-3060 Cation Exchange Capacity by bases & Exchangeable Sodium Percentage			

eurofins | Environment Testing

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
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: 219-233 ALDINGTON RD
Project ID: 61646

Order No.:
Report #: 851404
Phone: 02 8245 0300
Fax:

Received: Dec 15, 2021 4:43 PM
Due: Dec 31, 2021
Priority: 10 Day
Contact Name: George Black

Eurofins Analytical Services Manager : Ursula Long

Sample Detail	Asbestos - WA guidelines	Asbestos Absence /Presence	E.coli (MPN)	HOLD	Iron	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	Thermotolerant Coliforms (MPN)	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B6	JBS&G Suite 2	BTEXN and Volatile TRH	Salmonella	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254						X					X	X						
Sydney Laboratory - NATA # 1261 Site # 18217	X	X		X	X		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			X					X									X	

No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID															
1	TP01-0-0.1	Dec 13, 2021		Soil	S21-De43790	X										X		X					
2	TP02-0-0.1	Dec 13, 2021		Soil	S21-De43791			X		X	X	X	X	X		X	X					X	
3	TP05-0-0.1	Dec 13, 2021		Soil	S21-De43792	X										X		X					
4	TP03-0-0.1	Dec 13, 2021		Soil	S21-De43793	X										X				X			
5	TP06-0-0.1	Dec 13, 2021		Soil	S21-De43794	X										X			X				
6	TP04-0-0.1	Dec 13, 2021		Soil	S21-De43795									X		X							
7	TP08-0-0.1	Dec 13, 2021		Soil	S21-De43796	X									X	X			X				
8	TP12-0-0.1	Dec 13, 2021		Soil	S21-De43797									X		X							
9	QC20211213-	Dec 13, 2021		Soil	S21-De43798	X										X				X			

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web: www.eurofins.com.au
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Melbourne Laboratory - NATA # 1261 Site # 1254											X					X	X						
Sydney Laboratory - NATA # 1261 Site # 18217						X	X		X	X		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								X					X									X	
	01																						
10	SED01	Dec 13, 2021		Soil	S21-De43799			X					X			X				X		X	
11	TP09-0.2-0.3	Dec 13, 2021		Soil	S21-De43800	X										X		X					
12	FRAG01	Dec 13, 2021		Building Materials	S21-De43801		X																
13	QC20211213-02	Dec 13, 2021		Soil	S21-De43802	X										X		X					
14	TP10-0-0.1	Dec 13, 2021		Soil	S21-De43803	X										X		X					
15	TP11-0-0.1	Dec 13, 2021		Soil	S21-De43804	X								X		X							
16	TP13-0-0.1	Dec 13, 2021		Soil	S21-De43805	X									X	X			X				
17	TP14-0-0.1	Dec 13, 2021		Soil	S21-De43806	X										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

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6 Monterey Road
Dandenong South VIC 3175
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Melbourne Laboratory - NATA # 1261 Site # 1254											X					X	X						
Sydney Laboratory - NATA # 1261 Site # 18217						X	X		X	X		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								X					X									X	
18	TP15-0-0.1	Dec 13, 2021		Soil	S21-De43807	X										X		X					
19	TP15-1.9-2.0	Dec 13, 2021		Soil	S21-De43808									X		X							
20	TP16-0-0.1	Dec 13, 2021		Soil	S21-De43809									X		X							
21	TP18-0-0.1	Dec 13, 2021		Soil	S21-De43810	X										X		X					
22	TP19-0-0.1	Dec 13, 2021		Soil	S21-De43811									X		X							
23	TP22-0-0.1	Dec 13, 2021		Soil	S21-De43812	X										X			X				
24	TP17-0-0.1	Dec 13, 2021		Soil	S21-De43813	X								X		X							
25	TS	Dec 13, 2021		Water	S21-De43814																		X
26	TB	Dec 13, 2021		Water	S21-De43815																X		
27	TP21-0-0.1	Dec 15, 2021		Soil	S21-De43816											X			X				
28	TP20-0-0.05	Dec 15, 2021		Soil	S21-De43817											X			X				

eurofins | Environment Testing

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
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

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Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: 219-233 ALDINGTON RD
Project ID: 61646

Order No.:
Report #: 851404
Phone: 02 8245 0300
Fax:

Received: Dec 15, 2021 4:43 PM
Due: Dec 31, 2021
Priority: 10 Day
Contact Name: George Black

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	E.coli (MPN)	HOLD	Iron	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	Thermotolerant Coliforms (MPN)	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B6	JBS&G Suite 2	BTEXN and Volatile TRH	Salmonella	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254											X					X	X						
Sydney Laboratory - NATA # 1261 Site # 18217						X	X		X	X		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								X					X									X	
29	TP24-0-0.1	Dec 15, 2021		Soil	S21-De43818	X								X		X							
30	TP25-0-0.1	Dec 15, 2021		Soil	S21-De43819	X								X		X							
31	TP27-0-0.1	Dec 14, 2021		Soil	S21-De43820									X	X	X							
32	TP28-0-0.1	Dec 14, 2021		Soil	S21-De43821									X		X							
33	TP29-0-0.1	Dec 14, 2021		Soil	S21-De43822					X	X	X		X		X	X						
34	TP29-0.2-0.3	Dec 14, 2021		Soil	S21-De43823					X	X	X		X		X	X						
35	TP31-0-0.1	Dec 14, 2021		Soil	S21-De43824	X								X		X							
36	TP31-0.4-0.5	Dec 14, 2021		Soil	S21-De43825											X		X					
37	TP33-0-0.1	Dec 14, 2021		Soil	S21-De43826									X		X							
38	QC20211214-01	Dec 14, 2021		Soil	S21-De43827	X										X				X			

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

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ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

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Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
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ABN: 91 05 0159 898

Perth
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Welshpool WA 6106
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NZBN: 9429046024954

Auckland
35 O'Rorke Road
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Melbourne Laboratory - NATA # 1261 Site # 1254											X					X	X						
Sydney Laboratory - NATA # 1261 Site # 18217						X	X		X	X		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								X					X									X	
39	TP35-0-0.1	Dec 14, 2021		Soil	S21-De43828	X										X			X				
40	TP37-0-0.1	Dec 14, 2021		Soil	S21-De43829									X		X							
41	TP39-0-0.1	Dec 14, 2021		Soil	S21-De43830	X										X				X			
42	TP40-0-0.1	Dec 14, 2021		Soil	S21-De43831											X			X				
43	TP41-0.3-0.4	Dec 14, 2021		Soil	S21-De43832	X										X			X				
44	TP42-0-0.1	Dec 14, 2021		Soil	S21-De43833	X								X		X							
45	TP43-0-0.1	Dec 14, 2021		Soil	S21-De43834	X								X		X							
46	TP45-0-0.1	Dec 14, 2021		Soil	S21-De43835									X		X							
47	TP47-0-0.1	Dec 14, 2021		Soil	S21-De43836	X				X	X	X		X		X	X						
48	TP01-0.3-0.4	Dec 13, 2021		Soil	S21-De43837				X														
49	TP02-0.2-0.3	Dec 13, 2021		Soil	S21-De43838				X														

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web: www.eurofins.com.au
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ABN: 50 005 085 521

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6 Monterey Road
Dandenong South VIC 3175
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Newcastle
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Mayfield East NSW 2304
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ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
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Auckland
35 O'Rorke Road
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Melbourne Laboratory - NATA # 1261 Site # 1254											X					X	X						
Sydney Laboratory - NATA # 1261 Site # 18217						X	X		X	X		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								X					X									X	
50	TP05-0.2-0.3	Dec 13, 2021		Soil	S21-De43839				X														
51	TP03-0.2-0.3	Dec 13, 2021		Soil	S21-De43840				X														
52	TP07-0-0.1	Dec 13, 2021		Soil	S21-De43841				X														
53	TP07-0.2-0.3	Dec 13, 2021		Soil	S21-De43842				X														
54	TP06-0.2-0.3	Dec 13, 2021		Soil	S21-De43843				X														
55	TP04-0.2-0.3	Dec 13, 2021		Soil	S21-De43844				X														
56	TP08-0.3-0.4	Dec 13, 2021		Soil	S21-De43845				X														
57	TP12-0.3-0.4	Dec 13, 2021		Soil	S21-De43846				X														
58	TP09-0-0.1	Dec 13, 2021		Soil	S21-De43847				X														
59	TP09-0.3-0.4	Dec 13, 2021		Soil	S21-De43848				X														
60	TP10-0.2-0.3	Dec 13, 2021		Soil	S21-De43849				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
6 Monterey Road
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Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
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NATA # 1261 Site # 18217

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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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ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
NATA # 2377 Site # 2370

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NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
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Christchurch
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Melbourne Laboratory - NATA # 1261 Site # 1254											X					X	X						
Sydney Laboratory - NATA # 1261 Site # 18217						X	X		X	X		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								X					X									X	
61	TP11-0.3-0.4	Dec 13, 2021		Soil	S21-De43850				X														
62	TP11-0.4-0.5	Dec 13, 2021		Soil	S21-De43851				X														
63	TP13-0.2-0.3	Dec 13, 2021		Soil	S21-De43852				X														
64	TP14-0.2-0.3	Dec 13, 2021		Soil	S21-De43853				X														
65	TP15-0.4-0.5	Dec 13, 2021		Soil	S21-De43854				X														
66	TP15-0.9-1.0	Dec 13, 2021		Soil	S21-De43855				X														
67	TP15-2.7-2.8	Dec 13, 2021		Soil	S21-De43856				X														
68	TP15-2.8-2.9	Dec 13, 2021		Soil	S21-De43857				X														
69	TP16-0.2-0.3	Dec 13, 2021		Soil	S21-De43858				X														
70	TP18-0.3-0.4	Dec 13, 2021		Soil	S21-De43859				X														
71	TP19-0.2-0.3	Dec 13, 2021		Soil	S21-De43860				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
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
Unit F3, Building F
16 Mars Road
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Phone : +61 2 9900 8400
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NATA # 1261 Site # 25079

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ABN: 91 05 0159 898

Perth
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Welshpool WA 6106
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Melbourne Laboratory - NATA # 1261 Site # 1254											X					X	X						
Sydney Laboratory - NATA # 1261 Site # 18217						X	X		X	X		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								X					X									X	
72	TP22-0.2-0.3	Dec 13, 2021		Soil	S21-De43861				X														
73	TP23-0-0.1	Dec 13, 2021		Soil	S21-De43862				X														
74	TP23-0.2-0.3	Dec 13, 2021		Soil	S21-De43863				X														
75	TP17-0.4-0.5	Dec 13, 2021		Soil	S21-De43864				X														
76	TP17-0.9-1.0	Dec 13, 2021		Soil	S21-De43865				X														
77	TP17-2.0-2.1	Dec 13, 2021		Soil	S21-De43866				X														
78	TP21-0.3-0.4	Dec 15, 2021		Soil	S21-De43867				X														
79	TP21-0.9-1.0	Dec 15, 2021		Soil	S21-De43868				X														
80	TP20-0.3-0.4	Dec 15, 2021		Soil	S21-De43869				X														
81	TP24-0.3-0.4	Dec 15, 2021		Soil	S21-De43870				X														
82	TP25-0.3-0.4	Dec 15, 2021		Soil	S21-De43871				X														

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ABN: 50 005 085 521

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Melbourne Laboratory - NATA # 1261 Site # 1254											X					X	X						
Sydney Laboratory - NATA # 1261 Site # 18217						X	X		X	X		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								X					X									X	
83	TP25-0.9-1.0	Dec 15, 2021		Soil	S21-De43872				X														
84	TP27-0.2-0.3	Dec 14, 2021		Soil	S21-De43873				X														
85	TP28-0.2-0.3	Dec 14, 2021		Soil	S21-De43874				X														
86	TP30-0-0.1	Dec 14, 2021		Soil	S21-De43875				X														
87	TP30-0.2-0.3	Dec 14, 2021		Soil	S21-De43876				X														
88	TP31-0.2-0.3	Dec 14, 2021		Soil	S21-De43877				X														
89	TP31-0.9-1.0	Dec 14, 2021		Soil	S21-De43878				X														
90	TP32-0-0.1	Dec 14, 2021		Soil	S21-De43879				X														
91	TP32-0.2-0.3	Dec 14, 2021		Soil	S21-De43880				X														
92	TP33-0.2-0.3	Dec 14, 2021		Soil	S21-De43881				X														
93	TP34-0-0.1	Dec 14, 2021		Soil	S21-De43882				X														

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Melbourne Laboratory - NATA # 1261 Site # 1254											X					X	X						
Sydney Laboratory - NATA # 1261 Site # 18217						X	X		X	X		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								X					X									X	
94	TP34-0.2-0.3	Dec 14, 2021		Soil	S21-De43883				X														
95	TP35-0.2-0.3	Dec 14, 2021		Soil	S21-De43884				X														
96	TP36-0-0.1	Dec 14, 2021		Soil	S21-De43885				X														
97	TP36-0.2-0.3	Dec 14, 2021		Soil	S21-De43886				X														
98	TP37-0.2-0.3	Dec 14, 2021		Soil	S21-De43887				X														
99	TP38-0-0.1	Dec 14, 2021		Soil	S21-De43888				X														
100	TP38-0.2-0.3	Dec 14, 2021		Soil	S21-De43889				X														
101	TP39-0.2-0.3	Dec 14, 2021		Soil	S21-De43890				X														
102	TP40-0.4-0.5	Dec 14, 2021		Soil	S21-De43891				X														
103	TP40-0.9-1.0	Dec 14, 2021		Soil	S21-De43892				X														
104	TP41-0-0.1	Dec 14, 2021		Soil	S21-De43893				X														

eurofins | Environment Testing

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
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: 219-233 ALDINGTON RD
Project ID: 61646

Order No.:
Report #: 851404
Phone: 02 8245 0300
Fax:

Received: Dec 15, 2021 4:43 PM
Due: Dec 31, 2021
Priority: 10 Day
Contact Name: George Black

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	E.coli (MPN)	HOLD	Iron	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	Thermotolerant Coliforms (MPN)	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B6	JBS&G Suite 2	BTEXN and Volatile TRH	Salmonella	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254											X					X	X						
Sydney Laboratory - NATA # 1261 Site # 18217						X	X		X	X		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								X					X									X	
105	TP41-0.5-0.6	Dec 14, 2021		Soil	S21-De43894				X														
106	TP42-0.3-0.4	Dec 14, 2021		Soil	S21-De43895				X														
107	TP42-0.9-1.0	Dec 14, 2021		Soil	S21-De43896				X														
108	TP43-0.3-0.4	Dec 14, 2021		Soil	S21-De43897				X														
109	TP44-0-0.1	Dec 14, 2021		Soil	S21-De43898				X														
110	TP44-0.3-0.4	Dec 14, 2021		Soil	S21-De43899				X														
111	TP44-0.9-1.0	Dec 14, 2021		Soil	S21-De43900				X														
112	TP45-0.3-0.4	Dec 14, 2021		Soil	S21-De43901				X														
113	TP46-0-0.1	Dec 14, 2021		Soil	S21-De43902				X														
114	TP46-0.3-0.4	Dec 14, 2021		Soil	S21-De43903				X														
115	TP47-0.3-0.4	Dec 14, 2021		Soil	S21-De43904				X														

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

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ABN: 50 005 085 521

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Melbourne Laboratory - NATA # 1261 Site # 1254											X					X	X						
Sydney Laboratory - NATA # 1261 Site # 18217						X	X		X	X		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								X					X									X	
116	TP26-0-0.1	Dec 13, 2021		Soil	S21-De45176				X														
117	TP26-0.2-0.3	Dec 13, 2021		Soil	S21-De45177				X														
Test Counts						26	1	2	70	4	4	4	2	21	3	44	4	8	10	5	1	2	1

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/100mL: Organisms per 100 millilitres
NTU: Nephelometric Turbidity Units
MPN/100mL: Most Probable Number of organisms per 100 millilitres

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 and 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.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.4
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
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	
Iron	mg/kg	< 20			20	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	
Method Blank							
Conductivity (1:5 aqueous extract at 25°C as rec.)	uS/cm	< 10			10	Pass	
Method Blank							
Cation Exchange Capacity							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Cation Exchange Capacity	meq/100g	< 0.05			0.05	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-HCH	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-HCH	mg/kg	< 0.05			0.05	Pass	
d-HCH	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-HCH (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	< 0.05			0.05	Pass	
Toxaphene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.1			0.1	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	Pass	
Aroclor-1232	mg/kg	< 0.1			0.1	Pass	
Aroclor-1242	mg/kg	< 0.1			0.1	Pass	
Aroclor-1248	mg/kg	< 0.1			0.1	Pass	
Aroclor-1254	mg/kg	< 0.1			0.1	Pass	
Aroclor-1260	mg/kg	< 0.1			0.1	Pass	
Total PCB*	mg/kg	< 0.1			0.1	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	70			70-130	Pass	
TRH C10-C14	%	88			70-130	Pass	
Naphthalene	%	73			70-130	Pass	
TRH C6-C10	%	71			70-130	Pass	
TRH >C10-C16	%	85			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	93			70-130	Pass	
Toluene	%	88			70-130	Pass	
Ethylbenzene	%	88			70-130	Pass	
m&p-Xylenes	%	86			70-130	Pass	
o-Xylene	%	87			70-130	Pass	
Xylenes - Total*	%	86			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	102			70-130	Pass	
Acenaphthylene	%	99			70-130	Pass	
Anthracene	%	99			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Benz(a)anthracene	%	93			70-130	Pass	
Benzo(a)pyrene	%	93			70-130	Pass	
Benzo(b&j)fluoranthene	%	93			70-130	Pass	
Benzo(g.h.i)perylene	%	97			70-130	Pass	
Benzo(k)fluoranthene	%	90			70-130	Pass	
Chrysene	%	94			70-130	Pass	
Dibenz(a.h)anthracene	%	102			70-130	Pass	
Fluoranthene	%	99			70-130	Pass	
Fluorene	%	94			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	97			70-130	Pass	
Naphthalene	%	94			70-130	Pass	
Phenanthrene	%	100			70-130	Pass	
Pyrene	%	100			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	105			80-120	Pass	
Cadmium	%	105			80-120	Pass	
Chromium	%	105			80-120	Pass	
Copper	%	105			80-120	Pass	
Iron	%	104			80-120	Pass	
Lead	%	102			80-120	Pass	
Mercury	%	103			80-120	Pass	
Nickel	%	103			80-120	Pass	
Zinc	%	100			80-120	Pass	
LCS - % Recovery							
Conductivity (1:5 aqueous extract at 25°C as rec.)	%	98			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	92			70-130	Pass	
4.4'-DDD	%	84			70-130	Pass	
4.4'-DDE	%	99			70-130	Pass	
4.4'-DDT	%	84			70-130	Pass	
a-HCH	%	85			70-130	Pass	
Aldrin	%	96			70-130	Pass	
b-HCH	%	90			70-130	Pass	
d-HCH	%	89			70-130	Pass	
Dieldrin	%	90			70-130	Pass	
Endosulfan I	%	88			70-130	Pass	
Endosulfan II	%	85			70-130	Pass	
Endosulfan sulphate	%	84			70-130	Pass	
Endrin	%	102			70-130	Pass	
Endrin aldehyde	%	80			70-130	Pass	
Endrin ketone	%	82			70-130	Pass	
g-HCH (Lindane)	%	95			70-130	Pass	
Heptachlor	%	97			70-130	Pass	
Heptachlor epoxide	%	91			70-130	Pass	
Hexachlorobenzene	%	97			70-130	Pass	
Methoxychlor	%	77			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1016	%	88			70-130	Pass	
Aroclor-1260	%	73			70-130	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	S21-De54683	NCP	%	76			70-130	Pass	
Naphthalene	S21-De54683	NCP	%	87			70-130	Pass	
TRH C6-C10	S21-De54683	NCP	%	78			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S21-De54683	NCP	%	77			70-130	Pass	
Toluene	S21-De54683	NCP	%	75			70-130	Pass	
Ethylbenzene	S21-De54683	NCP	%	74			70-130	Pass	
m&p-Xylenes	S21-De54683	NCP	%	71			70-130	Pass	
o-Xylene	S21-De54683	NCP	%	72			70-130	Pass	
Xylenes - Total*	S21-De54683	NCP	%	71			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1260	S21-De49527	NCP	%	87			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S21-De43796	CP	%	104			75-125	Pass	
Cadmium	S21-De43796	CP	%	107			75-125	Pass	
Chromium	S21-De43796	CP	%	110			75-125	Pass	
Copper	S21-De43796	CP	%	113			75-125	Pass	
Lead	S21-De43796	CP	%	106			75-125	Pass	
Mercury	S21-De43796	CP	%	81			75-125	Pass	
Nickel	S21-De43796	CP	%	109			75-125	Pass	
Zinc	S21-De43796	CP	%	98			75-125	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C10-C14	S21-De43799	CP	%	80			70-130	Pass	
TRH >C10-C16	S21-De43799	CP	%	76			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S21-De43807	CP	%	84			70-130	Pass	
Acenaphthylene	S21-De43807	CP	%	83			70-130	Pass	
Anthracene	S21-De43807	CP	%	82			70-130	Pass	
Benz(a)anthracene	S21-De43807	CP	%	72			70-130	Pass	
Benzo(a)pyrene	S21-De43807	CP	%	77			70-130	Pass	
Benzo(b&j)fluoranthene	S21-De43807	CP	%	80			70-130	Pass	
Benzo(g.h.i)perylene	S21-De43807	CP	%	72			70-130	Pass	
Benzo(k)fluoranthene	S21-De43807	CP	%	76			70-130	Pass	
Chrysene	S21-De43807	CP	%	79			70-130	Pass	
Dibenz(a.h)anthracene	S21-De43807	CP	%	76			70-130	Pass	
Fluoranthene	S21-De43807	CP	%	81			70-130	Pass	
Fluorene	S21-De43807	CP	%	79			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S21-De43807	CP	%	72			70-130	Pass	
Naphthalene	S21-De43807	CP	%	80			70-130	Pass	
Phenanthrene	S21-De43807	CP	%	83			70-130	Pass	
Pyrene	S21-De43807	CP	%	82			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S21-De43807	CP	%	84			70-130	Pass	
4.4'-DDD	S21-De43807	CP	%	84			70-130	Pass	
4.4'-DDE	S21-De43807	CP	%	88			70-130	Pass	
4.4'-DDT	S21-De43807	CP	%	82			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
a-HCH	S21-De43807	CP	%	80			70-130	Pass	
Aldrin	S21-De43807	CP	%	84			70-130	Pass	
b-HCH	S21-De43807	CP	%	85			70-130	Pass	
d-HCH	S21-De43807	CP	%	82			70-130	Pass	
Dieldrin	S21-De43807	CP	%	90			70-130	Pass	
Endosulfan I	S21-De43807	CP	%	78			70-130	Pass	
Endosulfan II	S21-De43807	CP	%	79			70-130	Pass	
Endosulfan sulphate	S21-De43807	CP	%	83			70-130	Pass	
Endrin	S21-De43807	CP	%	91			70-130	Pass	
Endrin ketone	S21-De43807	CP	%	82			70-130	Pass	
g-HCH (Lindane)	S21-De43807	CP	%	86			70-130	Pass	
Heptachlor	S21-De43807	CP	%	96			70-130	Pass	
Heptachlor epoxide	S21-De43807	CP	%	83			70-130	Pass	
Hexachlorobenzene	S21-De43807	CP	%	91			70-130	Pass	
Methoxychlor	S21-De43807	CP	%	72			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1016	S21-De43807	CP	%	81			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C10-C14	S21-De43817	CP	%	72			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Endrin aldehyde	S21-De50200	NCP	%	70			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			
Iron	S21-De51496	NCP	mg/kg	5000	5900	17	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Conductivity (1:5 aqueous extract at 25°C as rec.)	S21-De42349	NCP	uS/cm	83	86	4.5	30%	Pass	
pH (1:5 Aqueous extract at 25°C as rec.)	S21-De42349	NCP	pH Units	5.4	5.1	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Toxaphene	S21-De51655	NCP	mg/kg	< 10	< 10	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-De43795	CP	mg/kg	18	18	<1	30%	Pass	
Cadmium	S21-De43795	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S21-De43795	CP	mg/kg	22	22	2.0	30%	Pass	
Copper	S21-De43795	CP	mg/kg	43	43	2.0	30%	Pass	
Lead	S21-De43795	CP	mg/kg	24	23	4.0	30%	Pass	
Mercury	S21-De43795	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S21-De43795	CP	mg/kg	13	12	7.0	30%	Pass	
Zinc	S21-De43795	CP	mg/kg	63	60	6.0	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-De43795	CP	%	22	22	3.0	30%	Pass	

Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	S21-De43798	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S21-De43798	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S21-De43798	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S21-De43798	CP	mg/kg	< 50	< 50	<1	30%	Pass	
Naphthalene	S21-De43798	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S21-De43798	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S21-De43798	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S21-De43798	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S21-De43798	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S21-De43798	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S21-De43798	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S21-De43798	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S21-De43798	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S21-De43798	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S21-De43798	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S21-De43798	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S21-De43798	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S21-De43798	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S21-De43798	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S21-De43798	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S21-De43798	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S21-De43798	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S21-De43798	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S21-De43798	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S21-De43798	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S21-De43798	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S21-De43798	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S21-De43798	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S21-De43798	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S21-De43798	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S21-De43798	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S21-De43798	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S21-De43798	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S21-De43798	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S21-De43798	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	S21-De43798	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S21-De43798	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	S21-De43798	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	S21-De43798	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S21-De43798	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S21-De43798	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S21-De43798	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S21-De43798	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S21-De43798	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S21-De43798	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S21-De43798	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-HCH (Lindane)	S21-De43798	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S21-De43798	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	

Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Heptachlor epoxide	S21-De43798	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S21-De43798	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S21-De43798	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	S21-De43798	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1221	S21-De43798	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	S21-De43798	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1242	S21-De43798	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1248	S21-De43798	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1254	S21-De43798	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1260	S21-De43798	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Total PCB*	S21-De43798	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C10-C14	S21-De43803	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S21-De43803	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S21-De43803	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C10-C16	S21-De43803	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S21-De43803	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S21-De43803	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S21-De43803	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S21-De43803	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S21-De43803	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S21-De43803	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S21-De43803	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S21-De43803	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S21-De43803	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S21-De43803	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S21-De43803	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S21-De43803	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S21-De43803	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S21-De43803	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S21-De43803	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S21-De43803	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S21-De43803	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S21-De43803	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S21-De43803	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S21-De43803	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S21-De43803	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S21-De43803	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	S21-De43803	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S21-De43803	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	S21-De43803	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	S21-De43803	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S21-De43803	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S21-De43803	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S21-De43803	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S21-De43803	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S21-De43803	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	

Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Endrin aldehyde	S21-De43803	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S21-De43803	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-HCH (Lindane)	S21-De43803	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S21-De43803	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S21-De43803	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S21-De43803	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S21-De43803	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	S21-De43803	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1221	S21-De43803	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	S21-De43803	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1242	S21-De43803	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1248	S21-De43803	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1254	S21-De43803	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1260	S21-De43803	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Total PCB*	S21-De43803	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-De43806	CP	mg/kg	21	16	25	30%	Pass	
Cadmium	S21-De43806	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S21-De43806	CP	mg/kg	24	20	15	30%	Pass	
Copper	S21-De43806	CP	mg/kg	42	40	5.0	30%	Pass	
Lead	S21-De43806	CP	mg/kg	24	20	18	30%	Pass	
Mercury	S21-De43806	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S21-De43806	CP	mg/kg	9.5	8.5	12	30%	Pass	
Zinc	S21-De43806	CP	mg/kg	39	38	3.0	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-De43806	CP	%	22	22	1.0	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	S21-De43816	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S21-De43816	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S21-De43816	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S21-De43816	CP	mg/kg	< 50	< 50	<1	30%	Pass	
Naphthalene	S21-De43816	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S21-De43816	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S21-De43816	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S21-De43816	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S21-De43816	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S21-De43816	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S21-De43816	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S21-De43816	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S21-De43816	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S21-De43816	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S21-De43816	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-De43818	CP	mg/kg	7.2	7.6	6.0	30%	Pass	
Cadmium	S21-De43818	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S21-De43818	CP	mg/kg	19	20	5.0	30%	Pass	
Copper	S21-De43818	CP	mg/kg	17	18	5.0	30%	Pass	
Lead	S21-De43818	CP	mg/kg	14	15	8.0	30%	Pass	
Mercury	S21-De43818	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S21-De43818	CP	mg/kg	8.1	8.5	5.0	30%	Pass	
Zinc	S21-De43818	CP	mg/kg	23	24	7.0	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-De43818	CP	%	18	19	5.0	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-De43822	CP	mg/kg	21	17	21	30%	Pass	
Cadmium	S21-De43822	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S21-De43822	CP	mg/kg	21	17	22	30%	Pass	
Copper	S21-De43822	CP	mg/kg	32	26	20	30%	Pass	
Lead	S21-De43822	CP	mg/kg	19	16	20	30%	Pass	
Mercury	S21-De43822	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S21-De43822	CP	mg/kg	16	13	20	30%	Pass	
Zinc	S21-De43822	CP	mg/kg	50	40	23	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-De43828	CP	mg/kg	12	11	8.0	30%	Pass	
Cadmium	S21-De43828	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S21-De43828	CP	mg/kg	20	24	14	30%	Pass	
Copper	S21-De43828	CP	mg/kg	14	14	2.0	30%	Pass	
Lead	S21-De43828	CP	mg/kg	18	21	15	30%	Pass	
Mercury	S21-De43828	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S21-De43828	CP	mg/kg	5.5	6.2	12	30%	Pass	
Zinc	S21-De43828	CP	mg/kg	36	39	7.0	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-De43828	CP	%	19	19	4.0	30%	Pass	
Duplicate									
Cation Exchange Capacity				Result 1	Result 2	RPD			
Cation Exchange Capacity	S21-De43836	CP	meq/100g	4.6	6.1	29	30%	Pass	

Comments

Microbiological analysis performed by: Eurofins Food Testing, NATA accreditation number 20293, report reference: AR-21-NV-012541-01.

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
M10	NATA accreditation does not cover the performance of this service in soil matrices
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:

Ursula Long	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)
Charl Du Preez	Senior Analyst-Inorganic (NSW)
Emily Rosenberg	Senior Analyst-Metal (VIC)
John Nguyen	Senior Analyst-Metal (NSW)
Roopesh Rangarajan	Senior Analyst-Volatile (NSW)
Scott Beddoes	Senior Analyst-Inorganic (VIC)

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.

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:	George Black
Report	851404-AID
Project Name	219-233 ALDINGTON RD
Project ID	61646
Received Date	Dec 15, 2021
Date Reported	Jan 11, 2022

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 219-233 ALDINGTON RD
Project ID 61646
Date Sampled Dec 13, 2021 to Dec 15, 2021
Report 851404-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
TP01-0-0.1	21-De43790	Dec 13, 2021	Approximate Sample 494g Sample consisted of: Brown coarse-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP05-0-0.1	21-De43792	Dec 13, 2021	Approximate Sample 507g Sample consisted of: Brown coarse-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.
TP03-0-0.1	21-De43793	Dec 13, 2021	Approximate Sample 477g Sample consisted of: Brown coarse-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP06-0-0.1	21-De43794	Dec 13, 2021	Approximate Sample 485g Sample consisted of: Brown coarse-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP08-0-0.1	21-De43796	Dec 13, 2021	Approximate Sample 450g Sample consisted of: Brown coarse-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
QC20211213-01	21-De43798	Dec 13, 2021	Approximate Sample 468g Sample consisted of: Brown coarse-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP09-0.2-0.3	21-De43800	Dec 13, 2021	Approximate Sample 724g Sample consisted of: Grey coarse-grained soil, coal and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
FRAG01	21-De43801	Dec 13, 2021	Approximate Sample 114g / 150x80x5mm Sample consisted of: Grey compressed fibre cement material	Chrysotile and amosite asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
QC20211213-02	21-De43802	Dec 13, 2021	Approximate Sample 644g Sample consisted of: Grey coarse-grained soil, cement, coal and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP10-0-0.1	21-De43803	Dec 13, 2021	Approximate Sample 480g Sample consisted of: Brown coarse-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP11-0-0.1	21-De43804	Dec 13, 2021	Approximate Sample 481g Sample consisted of: Brown coarse-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP13-0-0.1	21-De43805	Dec 13, 2021	Approximate Sample 463g Sample consisted of: Brown coarse-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP14-0-0.1	21-De43806	Dec 13, 2021	Approximate Sample 397g Sample consisted of: Brown coarse-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP15-0-0.1	21-De43807	Dec 13, 2021	Approximate Sample 523g Sample consisted of: Brown coarse-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP18-0-0.1	21-De43810	Dec 13, 2021	Approximate Sample 518g Sample consisted of: Brown coarse-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP22-0-0.1	21-De43812	Dec 13, 2021	Approximate Sample 569g Sample consisted of: Brown coarse-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP17-0-0.1	21-De43813	Dec 13, 2021	Approximate Sample 422g Sample consisted of: Brown coarse-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP24-0-0.1	21-De43818	Dec 15, 2021	Approximate Sample 456g Sample consisted of: Brown coarse-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP25-0-0.1	21-De43819	Dec 15, 2021	Approximate Sample 491g Sample consisted of: Grey coarse-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP31-0-0.1	21-De43824	Dec 14, 2021	Approximate Sample 445g Sample consisted of: Grey coarse-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
QC20211214-01	21-De43827	Dec 14, 2021	Approximate Sample 498g Sample consisted of: Grey coarse-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
TP35-0-0.1	21-De43828	Dec 14, 2021	Approximate Sample 474g Sample consisted of: Grey coarse-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP39-0-0.1	21-De43830	Dec 14, 2021	Approximate Sample 391g Sample consisted of: Grey coarse-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP41-0.3-0.4	21-De43832	Dec 14, 2021	Approximate Sample 455g Sample consisted of: Brown coarse-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP42-0-0.1	21-De43833	Dec 14, 2021	Approximate Sample 458g Sample consisted of: Brown coarse-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP43-0-0.1	21-De43834	Dec 14, 2021	Approximate Sample 370g Sample consisted of: Brown coarse-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP47-0-0.1	21-De43836	Dec 14, 2021	Approximate Sample 562g Sample consisted of: Brown coarse-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	Dec 17, 2021	Indefinite
Asbestos - LTM-ASB-8020	Sydney	Dec 17, 2021	Indefinite

eurofins | Environment Testing

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
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: 219-233 ALDINGTON RD
Project ID: 61646

Order No.:
Report #: 851404
Phone: 02 8245 0300
Fax:

Received: Dec 15, 2021 4:43 PM
Due: Dec 31, 2021
Priority: 10 Day
Contact Name: George Black

Eurofins Analytical Services Manager : Ursula Long

Sample Detail	Asbestos - WA guidelines	Asbestos Absence /Presence	E.coli (MPN)	HOLD	Iron	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	Thermotolerant Coliforms (MPN)	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B6	JBS&G Suite 2	BTEXN and Volatile TRH	Salmonella	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254						X					X	X						
Sydney Laboratory - NATA # 1261 Site # 18217	X	X		X	X		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			X					X									X	
No / **Sample ID** / **Sample Date** / **Sampling Time** / **Matrix** / **LAB ID**																		
1 TP01-0-0.1 Dec 13, 2021 Soil S21-De43790	X										X		X					
2 TP02-0-0.1 Dec 13, 2021 Soil S21-De43791			X		X	X	X	X	X		X	X					X	
3 TP05-0-0.1 Dec 13, 2021 Soil S21-De43792	X										X		X					
4 TP03-0-0.1 Dec 13, 2021 Soil S21-De43793	X										X				X			
5 TP06-0-0.1 Dec 13, 2021 Soil S21-De43794	X										X			X				
6 TP04-0-0.1 Dec 13, 2021 Soil S21-De43795									X		X							
7 TP08-0-0.1 Dec 13, 2021 Soil S21-De43796	X									X	X			X				
8 TP12-0-0.1 Dec 13, 2021 Soil S21-De43797									X		X							
9 QC20211213- Dec 13, 2021 Soil S21-De43798	X										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
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
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
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Melbourne Laboratory - NATA # 1261 Site # 1254											X					X	X						
Sydney Laboratory - NATA # 1261 Site # 18217						X	X		X	X		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								X					X									X	
	01																						
10	SED01	Dec 13, 2021		Soil	S21-De43799			X					X			X				X		X	
11	TP09-0.2-0.3	Dec 13, 2021		Soil	S21-De43800	X										X		X					
12	FRAG01	Dec 13, 2021		Building Materials	S21-De43801		X																
13	QC20211213-02	Dec 13, 2021		Soil	S21-De43802	X										X		X					
14	TP10-0-0.1	Dec 13, 2021		Soil	S21-De43803	X										X		X					
15	TP11-0-0.1	Dec 13, 2021		Soil	S21-De43804	X								X		X							
16	TP13-0-0.1	Dec 13, 2021		Soil	S21-De43805	X									X	X			X				
17	TP14-0-0.1	Dec 13, 2021		Soil	S21-De43806	X										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
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
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
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Phone : +61 7 3902 4600
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Newcastle
4/52 Industrial Drive
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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
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Eurofins Environment Testing NZ Limited
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Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

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Melbourne Laboratory - NATA # 1261 Site # 1254											X					X	X						
Sydney Laboratory - NATA # 1261 Site # 18217						X	X		X	X		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								X					X									X	
18	TP15-0-0.1	Dec 13, 2021		Soil	S21-De43807	X										X		X					
19	TP15-1.9-2.0	Dec 13, 2021		Soil	S21-De43808									X		X							
20	TP16-0-0.1	Dec 13, 2021		Soil	S21-De43809									X		X							
21	TP18-0-0.1	Dec 13, 2021		Soil	S21-De43810	X										X		X					
22	TP19-0-0.1	Dec 13, 2021		Soil	S21-De43811									X		X							
23	TP22-0-0.1	Dec 13, 2021		Soil	S21-De43812	X										X			X				
24	TP17-0-0.1	Dec 13, 2021		Soil	S21-De43813	X								X		X							
25	TS	Dec 13, 2021		Water	S21-De43814																		X
26	TB	Dec 13, 2021		Water	S21-De43815																X		
27	TP21-0-0.1	Dec 15, 2021		Soil	S21-De43816											X			X				
28	TP20-0-0.05	Dec 15, 2021		Soil	S21-De43817											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
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
Unit F3, Building F
16 Mars Road
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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Newcastle
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PO Box 60 Wickham 2293
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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
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Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
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Melbourne Laboratory - NATA # 1261 Site # 1254											X					X	X						
Sydney Laboratory - NATA # 1261 Site # 18217						X	X		X	X		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								X					X									X	
29	TP24-0-0.1	Dec 15, 2021		Soil	S21-De43818	X								X		X							
30	TP25-0-0.1	Dec 15, 2021		Soil	S21-De43819	X								X		X							
31	TP27-0-0.1	Dec 14, 2021		Soil	S21-De43820									X	X	X							
32	TP28-0-0.1	Dec 14, 2021		Soil	S21-De43821									X		X							
33	TP29-0-0.1	Dec 14, 2021		Soil	S21-De43822					X	X	X		X		X	X						
34	TP29-0.2-0.3	Dec 14, 2021		Soil	S21-De43823					X	X	X		X		X	X						
35	TP31-0-0.1	Dec 14, 2021		Soil	S21-De43824	X								X		X							
36	TP31-0.4-0.5	Dec 14, 2021		Soil	S21-De43825											X		X					
37	TP33-0-0.1	Dec 14, 2021		Soil	S21-De43826									X		X							
38	QC20211214-01	Dec 14, 2021		Soil	S21-De43827	X										X				X			

eurofins | Environment Testing

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
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

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Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: 219-233 ALDINGTON RD
Project ID: 61646

Order No.:
Report #: 851404
Phone: 02 8245 0300
Fax:

Received: Dec 15, 2021 4:43 PM
Due: Dec 31, 2021
Priority: 10 Day
Contact Name: George Black

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	E.coli (MPN)	HOLD	Iron	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	Thermotolerant Coliforms (MPN)	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B6	JBS&G Suite 2	BTEXN and Volatile TRH	Salmonella	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254											X					X	X						
Sydney Laboratory - NATA # 1261 Site # 18217						X	X		X	X		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								X					X									X	
39	TP35-0-0.1	Dec 14, 2021		Soil	S21-De43828	X										X			X				
40	TP37-0-0.1	Dec 14, 2021		Soil	S21-De43829									X		X							
41	TP39-0-0.1	Dec 14, 2021		Soil	S21-De43830	X										X				X			
42	TP40-0-0.1	Dec 14, 2021		Soil	S21-De43831											X			X				
43	TP41-0.3-0.4	Dec 14, 2021		Soil	S21-De43832	X										X			X				
44	TP42-0-0.1	Dec 14, 2021		Soil	S21-De43833	X								X		X							
45	TP43-0-0.1	Dec 14, 2021		Soil	S21-De43834	X								X		X							
46	TP45-0-0.1	Dec 14, 2021		Soil	S21-De43835									X		X							
47	TP47-0-0.1	Dec 14, 2021		Soil	S21-De43836	X				X	X	X		X		X	X						
48	TP01-0.3-0.4	Dec 13, 2021		Soil	S21-De43837				X														
49	TP02-0.2-0.3	Dec 13, 2021		Soil	S21-De43838				X														

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web: www.eurofins.com.au
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Newcastle
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Perth
46-48 Banksia Road
Welshpool WA 6106
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NZBN: 9429046024954

Auckland
35 O'Rorke Road
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Melbourne Laboratory - NATA # 1261 Site # 1254											X					X	X						
Sydney Laboratory - NATA # 1261 Site # 18217						X	X		X	X		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								X					X									X	
50	TP05-0.2-0.3	Dec 13, 2021		Soil	S21-De43839				X														
51	TP03-0.2-0.3	Dec 13, 2021		Soil	S21-De43840				X														
52	TP07-0-0.1	Dec 13, 2021		Soil	S21-De43841				X														
53	TP07-0.2-0.3	Dec 13, 2021		Soil	S21-De43842				X														
54	TP06-0.2-0.3	Dec 13, 2021		Soil	S21-De43843				X														
55	TP04-0.2-0.3	Dec 13, 2021		Soil	S21-De43844				X														
56	TP08-0.3-0.4	Dec 13, 2021		Soil	S21-De43845				X														
57	TP12-0.3-0.4	Dec 13, 2021		Soil	S21-De43846				X														
58	TP09-0-0.1	Dec 13, 2021		Soil	S21-De43847				X														
59	TP09-0.3-0.4	Dec 13, 2021		Soil	S21-De43848				X														
60	TP10-0.2-0.3	Dec 13, 2021		Soil	S21-De43849				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

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6 Monterey Road
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Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
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ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
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NZBN: 9429046024954

Auckland
35 O'Rorke Road
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Melbourne Laboratory - NATA # 1261 Site # 1254											X					X	X						
Sydney Laboratory - NATA # 1261 Site # 18217						X	X		X	X		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								X					X									X	
61	TP11-0.3-0.4	Dec 13, 2021		Soil	S21-De43850				X														
62	TP11-0.4-0.5	Dec 13, 2021		Soil	S21-De43851				X														
63	TP13-0.2-0.3	Dec 13, 2021		Soil	S21-De43852				X														
64	TP14-0.2-0.3	Dec 13, 2021		Soil	S21-De43853				X														
65	TP15-0.4-0.5	Dec 13, 2021		Soil	S21-De43854				X														
66	TP15-0.9-1.0	Dec 13, 2021		Soil	S21-De43855				X														
67	TP15-2.7-2.8	Dec 13, 2021		Soil	S21-De43856				X														
68	TP15-2.8-2.9	Dec 13, 2021		Soil	S21-De43857				X														
69	TP16-0.2-0.3	Dec 13, 2021		Soil	S21-De43858				X														
70	TP18-0.3-0.4	Dec 13, 2021		Soil	S21-De43859				X														
71	TP19-0.2-0.3	Dec 13, 2021		Soil	S21-De43860				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
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

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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

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Melbourne Laboratory - NATA # 1261 Site # 1254											X					X	X						
Sydney Laboratory - NATA # 1261 Site # 18217						X	X		X	X		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								X					X									X	
72	TP22-0.2-0.3	Dec 13, 2021		Soil	S21-De43861				X														
73	TP23-0-0.1	Dec 13, 2021		Soil	S21-De43862				X														
74	TP23-0.2-0.3	Dec 13, 2021		Soil	S21-De43863				X														
75	TP17-0.4-0.5	Dec 13, 2021		Soil	S21-De43864				X														
76	TP17-0.9-1.0	Dec 13, 2021		Soil	S21-De43865				X														
77	TP17-2.0-2.1	Dec 13, 2021		Soil	S21-De43866				X														
78	TP21-0.3-0.4	Dec 15, 2021		Soil	S21-De43867				X														
79	TP21-0.9-1.0	Dec 15, 2021		Soil	S21-De43868				X														
80	TP20-0.3-0.4	Dec 15, 2021		Soil	S21-De43869				X														
81	TP24-0.3-0.4	Dec 15, 2021		Soil	S21-De43870				X														
82	TP25-0.3-0.4	Dec 15, 2021		Soil	S21-De43871				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
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
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

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
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NATA # 1261 Site # 25079

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ABN: 91 05 0159 898

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46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
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Auckland
35 O'Rorke Road
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Melbourne Laboratory - NATA # 1261 Site # 1254											X					X	X						
Sydney Laboratory - NATA # 1261 Site # 18217						X	X		X	X		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								X					X									X	
83	TP25-0.9-1.0	Dec 15, 2021		Soil	S21-De43872				X														
84	TP27-0.2-0.3	Dec 14, 2021		Soil	S21-De43873				X														
85	TP28-0.2-0.3	Dec 14, 2021		Soil	S21-De43874				X														
86	TP30-0-0.1	Dec 14, 2021		Soil	S21-De43875				X														
87	TP30-0.2-0.3	Dec 14, 2021		Soil	S21-De43876				X														
88	TP31-0.2-0.3	Dec 14, 2021		Soil	S21-De43877				X														
89	TP31-0.9-1.0	Dec 14, 2021		Soil	S21-De43878				X														
90	TP32-0-0.1	Dec 14, 2021		Soil	S21-De43879				X														
91	TP32-0.2-0.3	Dec 14, 2021		Soil	S21-De43880				X														
92	TP33-0.2-0.3	Dec 14, 2021		Soil	S21-De43881				X														
93	TP34-0-0.1	Dec 14, 2021		Soil	S21-De43882				X														

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ABN: 50 005 085 521

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Melbourne Laboratory - NATA # 1261 Site # 1254											X					X	X						
Sydney Laboratory - NATA # 1261 Site # 18217						X	X		X	X		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								X					X									X	
94	TP34-0.2-0.3	Dec 14, 2021		Soil	S21-De43883				X														
95	TP35-0.2-0.3	Dec 14, 2021		Soil	S21-De43884				X														
96	TP36-0-0.1	Dec 14, 2021		Soil	S21-De43885				X														
97	TP36-0.2-0.3	Dec 14, 2021		Soil	S21-De43886				X														
98	TP37-0.2-0.3	Dec 14, 2021		Soil	S21-De43887				X														
99	TP38-0-0.1	Dec 14, 2021		Soil	S21-De43888				X														
100	TP38-0.2-0.3	Dec 14, 2021		Soil	S21-De43889				X														
101	TP39-0.2-0.3	Dec 14, 2021		Soil	S21-De43890				X														
102	TP40-0.4-0.5	Dec 14, 2021		Soil	S21-De43891				X														
103	TP40-0.9-1.0	Dec 14, 2021		Soil	S21-De43892				X														
104	TP41-0-0.1	Dec 14, 2021		Soil	S21-De43893				X														

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Melbourne Laboratory - NATA # 1261 Site # 1254											X					X	X						
Sydney Laboratory - NATA # 1261 Site # 18217						X	X		X	X		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								X					X									X	
105	TP41-0.5-0.6	Dec 14, 2021		Soil	S21-De43894				X														
106	TP42-0.3-0.4	Dec 14, 2021		Soil	S21-De43895				X														
107	TP42-0.9-1.0	Dec 14, 2021		Soil	S21-De43896				X														
108	TP43-0.3-0.4	Dec 14, 2021		Soil	S21-De43897				X														
109	TP44-0-0.1	Dec 14, 2021		Soil	S21-De43898				X														
110	TP44-0.3-0.4	Dec 14, 2021		Soil	S21-De43899				X														
111	TP44-0.9-1.0	Dec 14, 2021		Soil	S21-De43900				X														
112	TP45-0.3-0.4	Dec 14, 2021		Soil	S21-De43901				X														
113	TP46-0-0.1	Dec 14, 2021		Soil	S21-De43902				X														
114	TP46-0.3-0.4	Dec 14, 2021		Soil	S21-De43903				X														
115	TP47-0.3-0.4	Dec 14, 2021		Soil	S21-De43904				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
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
Unit F3, Building F
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Phone : +61 7 3902 4600
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Mayfield East NSW 2304
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Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
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Address: Level 1, 50 Margaret St
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NSW 2000

Project Name: 219-233 ALDINGTON RD
Project ID: 61646

Order No.:
Report #: 851404
Phone: 02 8245 0300
Fax:

Received: Dec 15, 2021 4:43 PM
Due: Dec 31, 2021
Priority: 10 Day
Contact Name: George Black

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	E.coli (MPN)	HOLD	Iron	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	Thermotolerant Coliforms (MPN)	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B6	JBS&G Suite 2	BTEXN and Volatile TRH	Salmonella	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254											X					X	X						
Sydney Laboratory - NATA # 1261 Site # 18217						X	X		X	X		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								X					X									X	
116	TP26-0-0.1	Dec 13, 2021		Soil	S21-De45176				X														
117	TP26-0.2-0.3	Dec 13, 2021		Soil	S21-De45177				X														
Test Counts						26	1	2	70	4	4	4	2	21	3	44	4	8	10	5	1	2	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. Information identified on this report with the colour **orange** indicates sections of the report not covered by the laboratory's scope of NATA accreditation.
6. 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: $C = \frac{}{a} \times \frac{}{n} \times \frac{}{r} \times \frac{}{t} = K \times \frac{}{n} \times \frac{}{V}$

Asbestos Content (as asbestos): $\%\ w/w = \frac{(m \times PA)}{M}$

Weighted Average (of asbestos): $\%_W = \Sigma \frac{(m \times P_A)_X}{X}$

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.
Compliant	Indicates the item has been assessed against the relevant criteria, e.g. NATA SAC_07.
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)].
N/A	Not Applicable. Indicates a result or assessment is not required or applicable to that item.
NATA	National Association of Testing Authorities, Australia.
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.
SAC_07	Specific Accreditation Criteria: ISO/IEC 17025 Application Document, Life Sciences – Annex, Asbestos sampling and testing.
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

Microbiological analysis performed by: Eurofins Food Testing, NATA accreditation number 20293, report reference: AR-21-NV-012541-01.

Samples 21-De43790, 93-94, 96, 98, 803-6, 13-34 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	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 (NSW)

Authorised by:

Sayeed Abu	Senior Analyst-Asbestos (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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JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

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: **George Black**

Report **851404-W**
Project name 219-233 ALDINGTON RD
Project ID 61646
Received Date Dec 15, 2021

Client Sample ID			**TS**	**TB**
Sample Matrix			**Water**	**Water**
Eurofins Sample No.			**S21-De43814**	**S21-De43815**
Date Sampled			**Dec 13, 2021**	**Dec 13, 2021**
Test/Reference	LOR	Unit		
TRH C6-C10	1	%	73	-
Total Recoverable Hydrocarbons				
Naphthalene	1	%	110	-
TRH C6-C9	1	%	78	-
BTEX				
Benzene	1	%	110	-
Ethylbenzene	1	%	100	-
m&p-Xylenes	1	%	110	-
o-Xylene	1	%	92	-
Toluene	1	%	110	-
Xylenes - Total	1	%	97	-
4-Bromofluorobenzene (surr.)	1	%	101	-
Total Recoverable Hydrocarbons				
TRH C6-C9	0.02	mg/L	-	< 0.02
Naphthalene[N02]	0.01	mg/L	-	< 0.01
TRH C6-C10	0.02	mg/L	-	< 0.02
TRH C6-C10 less BTEX (F1)[N04]	0.02	mg/L	-	< 0.02
BTEX				
Benzene	0.001	mg/L	-	< 0.001
Toluene	0.001	mg/L	-	< 0.001
Ethylbenzene	0.001	mg/L	-	< 0.001
m&p-Xylenes	0.002	mg/L	-	< 0.002
o-Xylene	0.001	mg/L	-	< 0.001
Xylenes - Total*	0.003	mg/L	-	< 0.003
4-Bromofluorobenzene (surr.)	1	%	-	116

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	Dec 17, 2021	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons	Sydney	Dec 17, 2021	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Dec 17, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			

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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
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
Unit F3, Building F
16 Mars Road
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Brisbane
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Phone : +61 7 3902 4600
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Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448
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Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
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Eurofins Environment Testing NZ Limited
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
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Project Name: 219-233 ALDINGTON RD
Project ID: 61646

Order No.:
Report #: 851404
Phone: 02 8245 0300
Fax:

Received: Dec 15, 2021 4:43 PM
Due: Dec 31, 2021
Priority: 10 Day
Contact Name: George Black

Eurofins Analytical Services Manager : Ursula Long

Sample Detail	Asbestos - WA guidelines	Asbestos Absence /Presence	E.coli (MPN)	HOLD	Iron	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	Thermotolerant Coliforms (MPN)	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B6	JBS&G Suite 2	BTEXN and Volatile TRH	Salmonella	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254						X					X	X						
Sydney Laboratory - NATA # 1261 Site # 18217	X	X		X	X		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			X					X									X	

No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID															
1	TP01-0-0.1	Dec 13, 2021		Soil	S21-De43790	X										X		X					
2	TP02-0-0.1	Dec 13, 2021		Soil	S21-De43791			X		X	X	X	X	X		X	X					X	
3	TP05-0-0.1	Dec 13, 2021		Soil	S21-De43792	X										X		X					
4	TP03-0-0.1	Dec 13, 2021		Soil	S21-De43793	X										X				X			
5	TP06-0-0.1	Dec 13, 2021		Soil	S21-De43794	X										X			X				
6	TP04-0-0.1	Dec 13, 2021		Soil	S21-De43795									X		X							
7	TP08-0-0.1	Dec 13, 2021		Soil	S21-De43796	X									X	X			X				
8	TP12-0-0.1	Dec 13, 2021		Soil	S21-De43797									X		X							
9	QC20211213-	Dec 13, 2021		Soil	S21-De43798	X										X				X			

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web: www.eurofins.com.au
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Melbourne Laboratory - NATA # 1261 Site # 1254											X					X	X						
Sydney Laboratory - NATA # 1261 Site # 18217						X	X		X	X		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								X					X									X	
	01																						
10	SED01	Dec 13, 2021		Soil	S21-De43799			X					X			X				X		X	
11	TP09-0.2-0.3	Dec 13, 2021		Soil	S21-De43800	X										X		X					
12	FRAG01	Dec 13, 2021		Building Materials	S21-De43801		X																
13	QC20211213-02	Dec 13, 2021		Soil	S21-De43802	X										X		X					
14	TP10-0-0.1	Dec 13, 2021		Soil	S21-De43803	X										X		X					
15	TP11-0-0.1	Dec 13, 2021		Soil	S21-De43804	X								X		X							
16	TP13-0-0.1	Dec 13, 2021		Soil	S21-De43805	X									X	X			X				
17	TP14-0-0.1	Dec 13, 2021		Soil	S21-De43806	X										X			X				

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Melbourne Laboratory - NATA # 1261 Site # 1254											X					X	X						
Sydney Laboratory - NATA # 1261 Site # 18217						X	X		X	X		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								X					X									X	
18	TP15-0-0.1	Dec 13, 2021		Soil	S21-De43807	X										X		X					
19	TP15-1.9-2.0	Dec 13, 2021		Soil	S21-De43808									X		X							
20	TP16-0-0.1	Dec 13, 2021		Soil	S21-De43809									X		X							
21	TP18-0-0.1	Dec 13, 2021		Soil	S21-De43810	X										X		X					
22	TP19-0-0.1	Dec 13, 2021		Soil	S21-De43811									X		X							
23	TP22-0-0.1	Dec 13, 2021		Soil	S21-De43812	X										X			X				
24	TP17-0-0.1	Dec 13, 2021		Soil	S21-De43813	X								X		X							
25	TS	Dec 13, 2021		Water	S21-De43814																		X
26	TB	Dec 13, 2021		Water	S21-De43815																X		
27	TP21-0-0.1	Dec 15, 2021		Soil	S21-De43816											X			X				
28	TP20-0-0.05	Dec 15, 2021		Soil	S21-De43817											X			X				

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web: www.eurofins.com.au
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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: 219-233 ALDINGTON RD
Project ID: 61646

Order No.:
Report #: 851404
Phone: 02 8245 0300
Fax:

Received: Dec 15, 2021 4:43 PM
Due: Dec 31, 2021
Priority: 10 Day
Contact Name: George Black

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	E.coli (MPN)	HOLD	Iron	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	Thermotolerant Coliforms (MPN)	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B6	JBS&G Suite 2	BTEXN and Volatile TRH	Salmonella	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254											X					X	X						
Sydney Laboratory - NATA # 1261 Site # 18217						X	X		X	X		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								X					X									X	
29	TP24-0-0.1	Dec 15, 2021		Soil	S21-De43818	X								X		X							
30	TP25-0-0.1	Dec 15, 2021		Soil	S21-De43819	X								X		X							
31	TP27-0-0.1	Dec 14, 2021		Soil	S21-De43820									X	X	X							
32	TP28-0-0.1	Dec 14, 2021		Soil	S21-De43821									X		X							
33	TP29-0-0.1	Dec 14, 2021		Soil	S21-De43822					X	X	X		X		X	X						
34	TP29-0.2-0.3	Dec 14, 2021		Soil	S21-De43823					X	X	X		X		X	X						
35	TP31-0-0.1	Dec 14, 2021		Soil	S21-De43824	X								X		X							
36	TP31-0.4-0.5	Dec 14, 2021		Soil	S21-De43825											X		X					
37	TP33-0-0.1	Dec 14, 2021		Soil	S21-De43826									X		X							
38	QC20211214-01	Dec 14, 2021		Soil	S21-De43827	X										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
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
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

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Melbourne Laboratory - NATA # 1261 Site # 1254											X					X	X						
Sydney Laboratory - NATA # 1261 Site # 18217						X	X		X	X		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								X					X									X	
39	TP35-0-0.1	Dec 14, 2021		Soil	S21-De43828	X										X			X				
40	TP37-0-0.1	Dec 14, 2021		Soil	S21-De43829									X		X							
41	TP39-0-0.1	Dec 14, 2021		Soil	S21-De43830	X										X				X			
42	TP40-0-0.1	Dec 14, 2021		Soil	S21-De43831											X			X				
43	TP41-0.3-0.4	Dec 14, 2021		Soil	S21-De43832	X										X			X				
44	TP42-0-0.1	Dec 14, 2021		Soil	S21-De43833	X								X		X							
45	TP43-0-0.1	Dec 14, 2021		Soil	S21-De43834	X								X		X							
46	TP45-0-0.1	Dec 14, 2021		Soil	S21-De43835									X		X							
47	TP47-0-0.1	Dec 14, 2021		Soil	S21-De43836	X				X	X	X		X		X	X						
48	TP01-0.3-0.4	Dec 13, 2021		Soil	S21-De43837				X														
49	TP02-0.2-0.3	Dec 13, 2021		Soil	S21-De43838				X														

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web: www.eurofins.com.au
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Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
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NATA # 1261 Site # 1254

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Welshpool WA 6106
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Melbourne Laboratory - NATA # 1261 Site # 1254											X					X	X						
Sydney Laboratory - NATA # 1261 Site # 18217						X	X		X	X		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								X					X									X	
50	TP05-0.2-0.3	Dec 13, 2021		Soil	S21-De43839				X														
51	TP03-0.2-0.3	Dec 13, 2021		Soil	S21-De43840				X														
52	TP07-0-0.1	Dec 13, 2021		Soil	S21-De43841				X														
53	TP07-0.2-0.3	Dec 13, 2021		Soil	S21-De43842				X														
54	TP06-0.2-0.3	Dec 13, 2021		Soil	S21-De43843				X														
55	TP04-0.2-0.3	Dec 13, 2021		Soil	S21-De43844				X														
56	TP08-0.3-0.4	Dec 13, 2021		Soil	S21-De43845				X														
57	TP12-0.3-0.4	Dec 13, 2021		Soil	S21-De43846				X														
58	TP09-0-0.1	Dec 13, 2021		Soil	S21-De43847				X														
59	TP09-0.3-0.4	Dec 13, 2021		Soil	S21-De43848				X														
60	TP10-0.2-0.3	Dec 13, 2021		Soil	S21-De43849				X														

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web: www.eurofins.com.au
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ABN: 50 005 085 521

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NATA # 1261 Site # 1254

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NATA # 1261 Site # 25079

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ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool WA 6106
Phone : +61 8 6253 4444
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NZBN: 9429046024954

Auckland
35 O'Rorke Road
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Melbourne Laboratory - NATA # 1261 Site # 1254											X					X	X						
Sydney Laboratory - NATA # 1261 Site # 18217						X	X		X	X		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								X					X									X	
61	TP11-0.3-0.4	Dec 13, 2021		Soil	S21-De43850				X														
62	TP11-0.4-0.5	Dec 13, 2021		Soil	S21-De43851				X														
63	TP13-0.2-0.3	Dec 13, 2021		Soil	S21-De43852				X														
64	TP14-0.2-0.3	Dec 13, 2021		Soil	S21-De43853				X														
65	TP15-0.4-0.5	Dec 13, 2021		Soil	S21-De43854				X														
66	TP15-0.9-1.0	Dec 13, 2021		Soil	S21-De43855				X														
67	TP15-2.7-2.8	Dec 13, 2021		Soil	S21-De43856				X														
68	TP15-2.8-2.9	Dec 13, 2021		Soil	S21-De43857				X														
69	TP16-0.2-0.3	Dec 13, 2021		Soil	S21-De43858				X														
70	TP18-0.3-0.4	Dec 13, 2021		Soil	S21-De43859				X														
71	TP19-0.2-0.3	Dec 13, 2021		Soil	S21-De43860				X														

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

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ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
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Melbourne Laboratory - NATA # 1261 Site # 1254											X					X	X						
Sydney Laboratory - NATA # 1261 Site # 18217						X	X		X	X		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								X					X									X	
72	TP22-0.2-0.3	Dec 13, 2021		Soil	S21-De43861				X														
73	TP23-0-0.1	Dec 13, 2021		Soil	S21-De43862				X														
74	TP23-0.2-0.3	Dec 13, 2021		Soil	S21-De43863				X														
75	TP17-0.4-0.5	Dec 13, 2021		Soil	S21-De43864				X														
76	TP17-0.9-1.0	Dec 13, 2021		Soil	S21-De43865				X														
77	TP17-2.0-2.1	Dec 13, 2021		Soil	S21-De43866				X														
78	TP21-0.3-0.4	Dec 15, 2021		Soil	S21-De43867				X														
79	TP21-0.9-1.0	Dec 15, 2021		Soil	S21-De43868				X														
80	TP20-0.3-0.4	Dec 15, 2021		Soil	S21-De43869				X														
81	TP24-0.3-0.4	Dec 15, 2021		Soil	S21-De43870				X														
82	TP25-0.3-0.4	Dec 15, 2021		Soil	S21-De43871				X														

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

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ABN: 50 005 085 521

Melbourne
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Melbourne Laboratory - NATA # 1261 Site # 1254											X					X	X						
Sydney Laboratory - NATA # 1261 Site # 18217						X	X		X	X		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								X					X									X	
83	TP25-0.9-1.0	Dec 15, 2021		Soil	S21-De43872				X														
84	TP27-0.2-0.3	Dec 14, 2021		Soil	S21-De43873				X														
85	TP28-0.2-0.3	Dec 14, 2021		Soil	S21-De43874				X														
86	TP30-0-0.1	Dec 14, 2021		Soil	S21-De43875				X														
87	TP30-0.2-0.3	Dec 14, 2021		Soil	S21-De43876				X														
88	TP31-0.2-0.3	Dec 14, 2021		Soil	S21-De43877				X														
89	TP31-0.9-1.0	Dec 14, 2021		Soil	S21-De43878				X														
90	TP32-0-0.1	Dec 14, 2021		Soil	S21-De43879				X														
91	TP32-0.2-0.3	Dec 14, 2021		Soil	S21-De43880				X														
92	TP33-0.2-0.3	Dec 14, 2021		Soil	S21-De43881				X														
93	TP34-0-0.1	Dec 14, 2021		Soil	S21-De43882				X														

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Melbourne Laboratory - NATA # 1261 Site # 1254											X					X	X						
Sydney Laboratory - NATA # 1261 Site # 18217						X	X		X	X		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								X					X									X	
94	TP34-0.2-0.3	Dec 14, 2021		Soil	S21-De43883				X														
95	TP35-0.2-0.3	Dec 14, 2021		Soil	S21-De43884				X														
96	TP36-0-0.1	Dec 14, 2021		Soil	S21-De43885				X														
97	TP36-0.2-0.3	Dec 14, 2021		Soil	S21-De43886				X														
98	TP37-0.2-0.3	Dec 14, 2021		Soil	S21-De43887				X														
99	TP38-0-0.1	Dec 14, 2021		Soil	S21-De43888				X														
100	TP38-0.2-0.3	Dec 14, 2021		Soil	S21-De43889				X														
101	TP39-0.2-0.3	Dec 14, 2021		Soil	S21-De43890				X														
102	TP40-0.4-0.5	Dec 14, 2021		Soil	S21-De43891				X														
103	TP40-0.9-1.0	Dec 14, 2021		Soil	S21-De43892				X														
104	TP41-0-0.1	Dec 14, 2021		Soil	S21-De43893				X														

eurofins | Environment Testing

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
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: 219-233 ALDINGTON RD
Project ID: 61646

Order No.:
Report #: 851404
Phone: 02 8245 0300
Fax:

Received: Dec 15, 2021 4:43 PM
Due: Dec 31, 2021
Priority: 10 Day
Contact Name: George Black

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	E.coli (MPN)	HOLD	Iron	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	Thermotolerant Coliforms (MPN)	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B6	JBS&G Suite 2	BTEXN and Volatile TRH	Salmonella	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254											X					X	X						
Sydney Laboratory - NATA # 1261 Site # 18217						X	X		X	X		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								X					X									X	
105	TP41-0.5-0.6	Dec 14, 2021		Soil	S21-De43894				X														
106	TP42-0.3-0.4	Dec 14, 2021		Soil	S21-De43895				X														
107	TP42-0.9-1.0	Dec 14, 2021		Soil	S21-De43896				X														
108	TP43-0.3-0.4	Dec 14, 2021		Soil	S21-De43897				X														
109	TP44-0-0.1	Dec 14, 2021		Soil	S21-De43898				X														
110	TP44-0.3-0.4	Dec 14, 2021		Soil	S21-De43899				X														
111	TP44-0.9-1.0	Dec 14, 2021		Soil	S21-De43900				X														
112	TP45-0.3-0.4	Dec 14, 2021		Soil	S21-De43901				X														
113	TP46-0-0.1	Dec 14, 2021		Soil	S21-De43902				X														
114	TP46-0.3-0.4	Dec 14, 2021		Soil	S21-De43903				X														
115	TP47-0.3-0.4	Dec 14, 2021		Soil	S21-De43904				X														

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

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Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	E.coli (MPN)	HOLD	Iron	Organic Matter %	pH (1:5 Aqueous extract at 25°C as rec.)	Thermotolerant Coliforms (MPN)	Metals M8	Suite B13: OCP/PCB	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B6	JBS&G Suite 2	BTEXN and Volatile TRH	Salmonella	BTEXN and Volatile TRH
Melbourne Laboratory - NATA # 1261 Site # 1254											X					X	X						
Sydney Laboratory - NATA # 1261 Site # 18217						X	X		X	X		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								X					X									X	
116	TP26-0-0.1	Dec 13, 2021		Soil	S21-De45176				X														
117	TP26-0.2-0.3	Dec 13, 2021		Soil	S21-De45177				X														
Test Counts						26	1	2	70	4	4	4	2	21	3	44	4	8	10	5	1	2	1

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/100mL: Organisms per 100 millilitres
NTU: Nephelometric Turbidity Units
MPN/100mL: Most Probable Number of organisms per 100 millilitres

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 and 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.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.4
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
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.

.

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/L	< 0.02			0.02	Pass	
Naphthalene	mg/L	< 0.01			0.01	Pass	
TRH C6-C10	mg/L	< 0.02			0.02	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	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	93			70-130	Pass	
Naphthalene	%	92			70-130	Pass	
TRH C6-C10	%	89			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	99			70-130	Pass	
Toluene	%	100			70-130	Pass	
Ethylbenzene	%	105			70-130	Pass	
m&p-Xylenes	%	101			70-130	Pass	
o-Xylene	%	101			70-130	Pass	
Xylenes - Total*	%	101			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	S21-De46115	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
Naphthalene	S21-De46115	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
TRH C6-C10	S21-De46115	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S21-De46115	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Toluene	S21-De46115	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Ethylbenzene	S21-De46115	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
m&p-Xylenes	S21-De46115	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
o-Xylene	S21-De46115	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Xylenes - Total*	S21-De46115	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	

Comments

Microbiological analysis performed by: Eurofins Food Testing, NATA accreditation number 20293, report reference: AR-21-NV-012541-01.

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
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.

Authorised by:

Ursula Long	Analytical Services Manager
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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ANALYTICAL REPORT

REPORT CODE **AR-21-NV-012541-01**

REPORT DATE **23/12/2021**

For the attention of

Eurofins Environment Testing Australia Pty Ltd
Analytical Reports
6 Monterey Road
Dandenong South
3175 Melbourne
AUSTRALIA
Phone +61 3 8564 5064
Email EnviroReportsau@eurofins.com

Contact for your orders: Ruvini Herath
Submission Reference: Merged from order cau001-order-851404-211220.xml

Order code: EUAUTWU-00011724
Purchase Order Number: 851404

SAMPLE CODE 726-2021-00035610

Client Reference: 21-De43791
Sample described as: TP02-0-0.1
Reception Date: 20/12/2021
Analysis Starting Date: 20/12/2021
Sampled Date & Time 13/12/2021 12:00:00

Reception temperature: 5.3
Analysis Ending Date: 23/12/2021

	RESULTS		LOQ
VQ239 E.coli			
Analysis Starting Date: 20/12/2021 10:00			
E.Coli	<10	MPN/g	1
◆ **VQ296 Salmonella***			
Analysis Starting Date: 20/12/2021 10:00			
Salmonella	Not detected	/25 g	-
VQ255 Thermotolerant Coliforms			
Analysis Starting Date: 20/12/2021 10:00			
Thermotolerant coliforms	<10	MPN/g	1

SAMPLE CODE 726-2021-00035611

Client Reference: 21-De43799
Sample described as: SED01
Reception Date: 20/12/2021
Analysis Starting Date: 20/12/2021
Sampled Date & Time 13/12/2021 12:00:00

Reception temperature: 5.3
Analysis Ending Date: 23/12/2021

	RESULTS		LOQ
VQ239 E.coli			
Analysis Starting Date: 20/12/2021 10:00			
E.Coli	<10	MPN/g	1
◆ **VQ296 Salmonella***			
Analysis Starting Date: 20/12/2021 10:00			
Salmonella	Not detected	/25 g	-
VQ255 Thermotolerant Coliforms			
Analysis Starting Date: 20/12/2021 10:00			

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.
Accreditation Number 20293

	RESULTS		LOQ
VQ255 Thermotolerant Coliforms			
Analysis Starting Date: 20/12/2021 10:00			
Thermotolerant coliforms	<10	MPN/g	1

LIST OF METHODS

VQ239 **E.coli:** Internal Method, E-Cultural technique (MPN tubes)

VQ255 **Thermotolerant Coliforms:** Internal Method, E-Cultural technique (MPN tubes)

VQ296 **Salmonella*:** AS 4276.14

Signature

Komal Gosain Team Leader

EXPLANATORY NOTE

- ◆ test is not accredited
- o test is subcontracted within Eurofins group and is accredited
- ● test is subcontracted within Eurofins group and is not accredited
- □ test is subcontracted outside Eurofins group and is accredited
- ■ test is subcontracted outside Eurofins group and is not accredited

N/A means Not applicable
Not Detected means not detected at or above the Limit of Quantification (LOQ)
LOQ Limit of Quantification
U Measurement Uncertainty
< Less than, ≤ Less than or equal to
> Greater than, ≥ Greater than or equal to
The tests are identified by a 5 digit code, full details can be provided on request.
Information supplied by the client. This information can have an impact on the validity of results.
Samples are tested as received and the results relate only to the sample tested.
Analysis date is reported as the start date of extraction for a method.
The results may not be reproduced except in full, without a written approval from the laboratory.

Eurofins General Terms and Conditions apply.

END OF REPORT

Eurofins Food Testing Australia Pty Ltd
6 Monterey Road
Dandenong South
Melbourne
VIC 3175
AUSTRALIA
Phone +61385645000
www.eurofins.com.au

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Accreditation Number 20293

Chain of Custody

JBS&G

PROJECT NO.: 61646
PROJECT NAME: 219-233 Aldington RD
DATE NEEDED BY: Standard

LABORATORY BATCH NO.: 851404
SAMPLERS: ML JG
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.black@jbsg.com.au; (3) M.liaz@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

Biological = E.coli, F.coli and Salmonella

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	PAH	TRH/BTEX	Asbestos	OCP/PCB	Biological	ASLP	TCLP	organic matter	Fe	CEC	pH	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
TP01-0-0.1	Soil	13-12-21	-	BTJ + Ice		x	x	x	x										x	
0.3-0.4																				
TP02-0-0.1				+ Biota.		x				x				x	x	x	x			
0.2-0.3																				
TP05-0-0.1						x	x	x	x											
0.2-0.3																				
TP03-0-0.1						x	x	x	x	x									x	
0.2-0.3																				
TP07-0-0.1																				
0.2-0.3.																				
TP06-0-0.1						x		x	x										x	
0.2-0.3																				
TP04-0-0.1						x														
0.2-0.3																				
TP08-0-0.1						x		x	x	x									x	
0.3-0.4																				
TP12-0-0.1						x														
0.3-0.4																				
QCZ07211213-01						x	x	x	x	x									x	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: M.Liaz DATE: 15-12-21	CONSIGNMENT NOTE NO. courier	NAME: MR DATE: 15/12/21	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	OF: Eurofins 4:43PM	COOLER TEMP 10.2°C ..... 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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TP

Chain of Custody

JBS&G

PROJECT NO.: 61646
PROJECT NAME: 219-233 Aldington Rd
DATE NEEDED BY: Standard
LABORATORY BATCH NO.: 851404
SAMPLERS: M. Linz
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) GBlack@jbsg.com.au; (3) MLinz@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

Biological = E.coli, F.coli and Salmonella

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	PAHs	TRH/ BTEX	Asbestos	OCP/PCB	Biological	ASLP	TCLP	Organic matter	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
SED01	Soil	13/12/21	—	Jar+Bag+Ice+Biota		x	x	x		x	x						
TP09_0-0.1				Jar+Bag+Ice												:	
0.2-0.3						x	x	x	x							x	
0.3-0.4																	
FRAG01									x						x		
QC20211213_02						x	x	x	x							x	
TP10_0-0.1						x	x	x	x							x	
0.2-0.3																	
TP11_0-0.1						x			x								
0.3-0.4																	
0.4-0.5																	
TP13_0-0.1						x		x	x	x						x	
0.2-0.3																	
TP14_0-0.1						x		x	x							x	
0.2-0.3				Jar+Ice													
TP15_0-0.1				Jar+Bag+Ice		x	x	x	x							x	
0.4-0.5																	
0.9-1.0																	
1.9-2.0						x											

RELINQUISHED BY:
NAME: M. Linz DATE: 15-12-21
OF: JBS&G
NAME: DATE:
OF:

METHOD OF SHIPMENT:
CONSIGNMENT NOTE NO.
TRANSPORT CO. courier
CONSIGNMENT NOTE NO.
TRANSPORT CO

RECEIVED BY:
NAME: MR DATE: 15/12/21
OF: Eurofins 4:43PM
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.: 61646
PROJECT NAME: 21a-23a Aldington Rd
DATE NEEDED BY: Standard
LABORATORY BATCH NO.: 851604
SAMPLERS: Matthew Linz, Jennifer Gainsford
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) ...gblack.....@jbsg.com.au; (3) ...mlinz.....@jbsg.com.au jgainsford@

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	PAH	TRH/BTEX	Asbestos	OCP/PCB	Biological	ASLP	TCLP	Organic matter	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
TP15_2.7-2.8	Soil	13/12/21	—	Jar+Bag+Ice													
↓ 2.8-2.9	↓	↓	↓	~~Jar~~ ↓													
TP16_0-0.1				Jar+Bag+Ice		x											
↓ 0.2-0.3				Jar+Ice													
TP18_0-0.1				Jar+Bag+Ice		x	x	x	x							x	
↓ 0.3-0.4				Jar+Ice													
TP19_0-0.1				Jar+Bag+Ice		x											
↓ 0.2-0.3				Jar+Ice													
TP22_0-0.1				Jar+Bag+Ice		x		x	x							x	
↓ 0.2-0.3				Jar+Ice													
TP23_0-0.1				Jar+Bag+Ice													
↓ 0.2-0.3				Jar+Ice													
TP17_0-0.1				Jar+Bag+Ice		x			x							x	
0.4-0.5				↓													
0.9-1.0																	
↓ 2.0-2.1				Jar+Ice													
TS/TB	↓	↓	↓	Vial+Ice				x									

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: M. Linz DATE: 15-12-21	CONSIGNMENT NOTE NO.	NAME: MR DATE: 15/12/21	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO. Courier	OF: Eurofins 4:43PM	COOLER TEMP 10.2 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.: 61646
PROJECT NAME: 219-233 Aldington Rd
DATE NEEDED BY: Standard
LABORATORY BATCH NO.: 851404
SAMPLERS: ML
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) GStark@jbsg.com.au; (3) MLinz@jbsg.com.au
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	H+M	PAHs	TRH/BTEX	Asbestos	OCP/PCB	Biological	ASLP	TCLP	Organic matter	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
TP21 - 0-0.1	Soil	15-12-21	-	B+J+Biotat+I		x		x									
0.3-0.4				B+J+I													
0.9-1				J+I													
TP20 - 0-0.05				B+J+I		x		x									
0.3-0.4				J+I													
TP24-0-0.1				B+J+I		x			x							x	
0.3-0.4				~~B+J+I~~ J+I													
~~0.9-1~~				~~J+I~~													
TP25 0-0.1				B+J +I		x			x							x	
0.3-0.4				B+J+I													
0.9-1				BJ+I													

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: M. Linz DATE: 15-12-21	CONSIGNMENT NO.	NAME: MR DATE: 15/12/21	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO. courier	OF: Eurofins 4:43PM	COOLER TEMP 10.2 deg C
NAME: DATE:	CONSIGNMENT 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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TP

Chain of Custody

JBS&G

PROJECT NO.: G1646
PROJECT NAME: 219-233 Aldington Rd Kemps creek
DATE NEEDED BY: Standard

LABORATORY BATCH NO.: 851404
SAMPLERS: ML JL
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) GBlack@jbsg.com.au; (3) MLint@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	PAHs	TRH/Btex	Asbestos	OCP/PCB	Biological	ASLP	TCLP	Organic matter	Fe	CEC	pH	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
TP27 - 0-0.1	Soil	14-12-21	-	B+J+I		x				x										
0.2-0.3				J+I																
TP28 - 0-0.1				J+B+I		x														
0.2-0.3				J+I																
TP29 - 0-0.1				J+B+I		x								x	x	x	x			
0.2-0.3				J+I		x								x	x	x	x			
TP30 - 0-0.1				J+B+I																
0.2-0.3				J+I																
TP31 - 0-0.1				B+J+I		x			x										x	
0.2-0.3				↓ ↓																
0.4-0.5				↓ ↓		x	x	x												
0.9-1				J+I																
TP32 - 0-0.1				J+B+I																
0.2-0.3				J+I																
TP33 - 0-0.1				J+B+I		x														
0.2-0.3				J+I																
TP34 0-0.1				J+B+I																
0.2-0.3				J+I																
QC20211214-01				J+B+I		x	x	x	x	x									x	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: M.Link DATE:	CONSIGNMENT NOTE NO. Courier	NAME: MR 15/12/21	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 4:43PM	COOLER TEMP 10.2 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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TP

Chain of Custody

JBS&G

PROJECT NO.: 61646	LABORATORY BATCH NO.: 351404
PROJECT NAME: 219-233 Aldington Rd	SAMPLERS: ML
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) ...G.Black.....@jbsg.com.au; (3) .....M.Linz.....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	PAH	TRH/BTEX	Asbestos	OCP/PCB	Biological	ASLP	TCLP	Organic matter	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
TP35 - 0-0.1	Soil	14-12-21	~	B+J+I		x		x	x							x	
0.2-0.3				B J+I													
TP36 0-0.1				B+J+I													
0.2-0.3				J+I													
TP37 0-0.1				B+J+I		x											
0.2-0.3				J+I													
TP38 0-0.1				J+B+I													
0.2-0.3				J+I													
TP39 - 0-0.1				J+B+I		x	x	x	x	x						x	
0.2-0.3				J+I													
TP40 - 0-0.1				J+B+I		x	x	x									
0.4-0.5				J+B+I													
0.9-1.				J+B.													
TP41 - 0.0.1				J+B+I													
0.3-0.4				J+B+I		x	x	x	x							x	
0.5-0.6				J+B I													
TP42 0-0.1				J+B+I		x			x								
0.3-0.4				J+B+I												x	
0.9-1				J+I													

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: M.Linz DATE: 14-12-21	CONSIGNMENT NOTE NO.	NAME: MR DATE: 15/12/21	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO. Courier	OF: Eurofins 4.43PM	COOLER TEMP 10.2 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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Chain of Custody

JBS&G

PROJECT NO.: ~~[illegible]~~3 .61646
PROJECT NAME: 219-233 Aldington Rd
DATE NEEDED BY: Standard
LABORATORY BATCH NO.: 851404
SAMPLERS: ML
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) ...@jbsg.com.au
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	PAHs	TRH/BTEX	Asbestos	OCP/PCB	Biological	ASLP	TCLP	organic matter	Fe	CEC	pH	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
TP43-0-0.1	Soil	14-12	-	J+S+I		x			x										x	
0.3-0.4				J+I																
TP44-0-0.1				J+B+I																
0.3-0.4				J+B+I																
0.9-1				J+I																
TP45-0-0.1				J+B+I		x														
0.3-0.4				J+I																
TP46-0-0.1				J+B+I																
0.3-0.4				J+I																
TP47-0-0.1				J+B+I		x			x					x	x	x	x			
0.3-0.4				J+I															x	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: M. Linz DATE: 14-12-21	CONSIGNMENT NOTE NO.	NAME: NR DATE: 15/12/21	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO. Courier	OF: Eurofins 4:43PM	COOLER TEMP 10.2 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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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	George Black

Sample Login Details

Your reference	61646, 219-233 Aldington Road Kemps Creek
Envirolab Reference	286500
Date Sample Received	15/12/2021
Date Instructions Received	12/01/2022
Date Results Expected to be Reported	14/01/2022

Sample Condition

Samples received in appropriate condition for analysis	Holding time exceedance
No. of Samples Provided	3 Soil
Turnaround Time Requested	2 days
Temperature on Receipt (°C)	7
Cooling Method	Ice
Sampling Date Provided	YES

Comments

Holding time exceedance.

limited sample provided for asbestos analysis.

Please contact the laboratory within 24 hours if you wish to cancel the aformentioned testing. Otherwise testing will proceed as per the COC and hence invoice accordingly.

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	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticides in soil	PCBsin Soil	Acid Extractable metalsin soil	Asbestos ID - soils NEPM - ASB-001
QA20211213-01	✓	✓	✓	✓	✓	✓	✓
QA20211213-02	✓	✓	✓			✓	✓
QA20211214-01	✓	✓	✓	✓	✓	✓	✓

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 286500

Client Details

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

Sample Details

Your Reference	**61646, 219-233 Aldington Road Kemps Creek**
Number of Samples	3 Soil
Date samples received	15/12/2021
Date completed instructions received	12/01/2022

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	14/01/2022
Date of Issue	14/01/2022

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Asbestos Approved By
Analysed by Asbestos Approved Analyst: Nyovan Moonean
Authorised by Asbestos Approved Signatory: Lucy Zhu

Results Approved By
Dragana Tomas, Senior Chemist
Giovanni Agosti, Group Technical Manager
Hannah Nguyen, Metals Supervisor
Lucy Zhu, Asbestos Supervisor

Authorised By

Nancy Zhang, Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil				
Our Reference		286500-1	286500-2	286500-3
Your Reference	UNITS	QA20211213-01	QA20211213-02	QA20211214-01
Date Sampled		15/12/2021	15/12/2021	15/12/2021
Type of sample		Soil	Soil	Soil
Date extracted	-	13/01/2022	13/01/2022	13/01/2022
Date analysed	-	13/01/2022	13/01/2022	13/01/2022
TRH C_6 - C_9	mg/kg	<25	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1
Total +ve Xylenes	mg/kg	<3	<3	<3
Surrogate aaa-Trifluorotoluene	%	81	87	81

svTRH (C10-C40) in Soil				
Our Reference		286500-1	286500-2	286500-3
Your Reference	UNITS	QA20211213-01	QA20211213-02	QA20211214-01
Date Sampled		15/12/2021	15/12/2021	15/12/2021
Type of sample		Soil	Soil	Soil
Date extracted	-	13/01/2022	13/01/2022	13/01/2022
Date analysed	-	14/01/2022	14/01/2022	14/01/2022
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	110	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	110	<50
Surrogate o-Terphenyl	%	78	84	82

PAHs in Soil				
Our Reference		286500-1	286500-2	286500-3
Your Reference	UNITS	QA20211213-01	QA20211213-02	QA20211214-01
Date Sampled		15/12/2021	15/12/2021	15/12/2021
Type of sample		Soil	Soil	Soil
Date extracted	-	13/01/2022	13/01/2022	13/01/2022
Date analysed	-	13/01/2022	13/01/2022	13/01/2022
Naphthalene	mg/kg	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	0.7	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	0.1	<0.1
Pyrene	mg/kg	<0.1	0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	1.9	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	86	88	90

Organochlorine Pesticides in soil			
Our Reference		286500-1	286500-3
Your Reference	UNITS	QA20211213-01	QA20211214-01
Date Sampled		15/12/2021	15/12/2021
Type of sample		Soil	Soil
Date extracted	-	13/01/2022	13/01/2022
Date analysed	-	13/01/2022	13/01/2022
alpha-BHC	mg/kg	<0.1	<0.1
HCB	mg/kg	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1
gamma-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
Endosulfan II	mg/kg	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1	<0.1
Surrogate TCMX	%	87	85

PCBs in Soil			
Our Reference		286500-1	286500-3
Your Reference	UNITS	QA20211213-01	QA20211214-01
Date Sampled		15/12/2021	15/12/2021
Type of sample		Soil	Soil
Date extracted	-	13/01/2022	13/01/2022
Date analysed	-	13/01/2022	13/01/2022
Aroclor 1016	mg/kg	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1
Surrogate TCMX	%	87	85

Acid Extractable metals in soil				
Our Reference		286500-1	286500-2	286500-3
Your Reference	UNITS	QA20211213-01	QA20211213-02	QA20211214-01
Date Sampled		15/12/2021	15/12/2021	15/12/2021
Type of sample		Soil	Soil	Soil
Date prepared	-	13/01/2022	13/01/2022	13/01/2022
Date analysed	-	13/01/2022	13/01/2022	13/01/2022
Arsenic	mg/kg	9	7	9
Cadmium	mg/kg	<0.4	<0.4	<0.4
Chromium	mg/kg	14	29	15
Copper	mg/kg	31	34	28
Lead	mg/kg	16	28	23
Mercury	mg/kg	<0.1	<0.1	<0.1
Nickel	mg/kg	7	31	11
Zinc	mg/kg	24	90	72

Moisture				
Our Reference		286500-1	286500-2	286500-3
Your Reference	UNITS	QA20211213-01	QA20211213-02	QA20211214-01
Date Sampled		15/12/2021	15/12/2021	15/12/2021
Type of sample		Soil	Soil	Soil
Date prepared	-	13/01/2022	13/01/2022	13/01/2022
Date analysed	-	14/01/2022	14/01/2022	14/01/2022
Moisture	%	22	14	27

Asbestos ID - soils NEPM - ASB-001				
Our Reference		286500-1	286500-2	286500-3
Your Reference	UNITS	QA20211213-01	QA20211213-02	QA20211214-01
Date Sampled		15/12/2021	15/12/2021	15/12/2021
Type of sample		Soil	Soil	Soil
Date analysed	-	13/01/2022	13/01/2022	13/01/2022
Sample mass tested	g	408.71	588.01	413.1
Sample Description	-	Brown coarse-grained soil & rocks	Grey 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	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<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
ACM >7mm Estimation*	g	–	–	–
FA and AF Estimation*	g	–	–	–
ACM >7mm Estimation*	%(w/w)	<0.01	<0.01	<0.01
FA and AF Estimation*#2	%(w/w)	<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.
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.
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-021	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.

Method ID	Methodology Summary
Org-021	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD. Note, the Total +ve PCBs PQL is reflective of the lowest individual PQL and is therefore" Total +ve PCBs" is simply a sum of the positive individual PCBs.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-022/025	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-MS/GC-MSMS. Note, the Total +ve reported DDD+DDE+DDT PQL is reflective of the lowest individual PQL and is therefore simply a sum of the positive individually report DDD+DDE+DDT.
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-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	-			13/01/2022	[NT]	[NT]	[NT]	[NT]	13/01/2022	[NT]
Date analysed	-			13/01/2022	[NT]	[NT]	[NT]	[NT]	13/01/2022	[NT]
TRH C_6 - C_9	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	85	[NT]
TRH C_6 - C_{10}	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	85	[NT]
Benzene	mg/kg	0.2	Org-023	<0.2	[NT]	[NT]	[NT]	[NT]	77	[NT]
Toluene	mg/kg	0.5	Org-023	<0.5	[NT]	[NT]	[NT]	[NT]	72	[NT]
Ethylbenzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	93	[NT]
m+p-xylene	mg/kg	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	91	[NT]
o-Xylene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	87	[NT]
Naphthalene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	92	[NT]	[NT]	[NT]	[NT]	81	[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	-			13/01/2022	[NT]	[NT]	[NT]	[NT]	13/01/2022	[NT]
Date analysed	-			13/01/2022	[NT]	[NT]	[NT]	[NT]	13/01/2022	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	85	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	86	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	109	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	85	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	86	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	109	[NT]
Surrogate o-Terphenyl	%		Org-020	78	[NT]	[NT]	[NT]	[NT]	114	[NT]

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			13/01/2022	[NT]	[NT]	[NT]	[NT]	13/01/2022	[NT]
Date analysed	-			13/01/2022	[NT]	[NT]	[NT]	[NT]	13/01/2022	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	99	[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]	97	[NT]
Fluorene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	99	[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]	98	[NT]
Pyrene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	97	[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]	75	[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]	100	[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	96	[NT]	[NT]	[NT]	[NT]	101	[NT]

QUALITY CONTROL: Organochlorine Pesticides in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			13/01/2022	[NT]	[NT]	[NT]	[NT]	13/01/2022	[NT]
Date analysed	-			13/01/2022	[NT]	[NT]	[NT]	[NT]	13/01/2022	[NT]
alpha-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	98	[NT]
HCB	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	103	[NT]
gamma-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	77	[NT]
delta-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	101	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	128	[NT]
gamma-Chlordane	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	96	[NT]
Dieldrin	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	98	[NT]
Endrin	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	100	[NT]
Endosulfan II	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	104	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	108	[NT]
Methoxychlor	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	97	[NT]	[NT]	[NT]	[NT]	94	[NT]

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			13/01/2022	[NT]	[NT]	[NT]	[NT]	13/01/2022	[NT]
Date analysed	-			13/01/2022	[NT]	[NT]	[NT]	[NT]	13/01/2022	[NT]
Aroclor 1016	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	95	[NT]
Aroclor 1260	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate TCMX	%		Org-021	97	[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	-			13/01/2022	[NT]	[NT]	[NT]	[NT]	13/01/2022	[NT]
Date analysed	-			13/01/2022	[NT]	[NT]	[NT]	[NT]	13/01/2022	[NT]
Arsenic	mg/kg	4	Metals-020	<4	[NT]	[NT]	[NT]	[NT]	100	[NT]
Cadmium	mg/kg	0.4	Metals-020	<0.4	[NT]	[NT]	[NT]	[NT]	98	[NT]
Chromium	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	99	[NT]
Copper	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	98	[NT]
Lead	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	98	[NT]
Mercury	mg/kg	0.1	Metals-021	<0.1	[NT]	[NT]	[NT]	[NT]	109	[NT]
Nickel	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	100	[NT]
Zinc	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	83	[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.

Report Comments

BTEX/TRH/PAH/OCP:
Samples were out of the recommended holding time for this analysis.

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.

SDA0068

Chain of Custody

JBS&G

PROJECT NO.: 61646

PROJECT NAME: 219-233 Aldington Road Kemps Creek

DATE NEEDED BY:

LABORATORY BATCH NO.:

SAMPLERS: ML

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) ..GBlack..@jbsg.com.au; (3) ..Mlinz..@jbsg.com.au Mlinz@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	PAH	TRH/BTEX	Asbestos	OCP/PCBs	Biological A-Sulp	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
QA20211213-01	Soil	15-12-21	–	B+S + I		x	x	x	x	x			x	
QA20211213-02	↓	↓		↓ ↓		x	x	x	x				x	
QA20211214-01	↓	↓		↓ ↓		x	x	x	x	x			x	

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

Job No: 256500

Date Received: 15/12/21
Time Received: 1645
Received by: VV
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: M.Linz DATE: 15-12-21.	CONSIGNMENT NOTE NO.	NAME: AMA	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 15/12/21	
		OF: ELS-SYD	COOLER TEMP ..9°.. 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

Controlled Copy (June 2015)

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Updated email recd: 12/1/22
C 1211

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www.eurofins.com.au EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
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

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	George Black
Project name:	219-233 ALDINGTON RD KEMPS CREEK
Project ID:	61646
Turnaround time:	10 Day
Date/Time received	Dec 15, 2021 4:43 PM
Eurofins reference	850575

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 : 10.1 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 George Black - gblack@jbsg.com.au.

Global Leader - Results you can trust

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 20794

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: **George Black**

Report **850575-W**
Project name 219-233 ALDINGTON RD KEMPS CREEK
Project ID 61646
Received Date Dec 15, 2021

Client Sample ID			**SW-01**	**BLANK-01**
Sample Matrix			**Water**	**Water**
Eurofins Sample No.			**S21-De37086**	**S21-De37088**
Date Sampled			**Dec 15, 2021**	**Dec 15, 2021**
Test/Reference	LOR	Unit		
Total Recoverable Hydrocarbons				
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-C36 (Total)	0.1	mg/L	< 0.1	-
Naphthalene[N02]	0.01	mg/L	< 0.01	-
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	-
TRH >C10-C40 (total)*	0.1	mg/L	< 0.1	-
BTEX				
Benzene	0.001	mg/L	< 0.001	-
Toluene	0.001	mg/L	< 0.001	-
Ethylbenzene	0.001	mg/L	< 0.001	-
m&p-Xylenes	0.002	mg/L	< 0.002	-
o-Xylene	0.001	mg/L	< 0.001	-
Xylenes - Total*	0.003	mg/L	< 0.003	-
4-Bromofluorobenzene (surr.)	1	%	92	-
Polycyclic Aromatic Hydrocarbons (Trace level)				
Acenaphthene	0.00001	mg/L	< 0.00001	-
Acenaphthylene	0.00001	mg/L	< 0.00001	-
Anthracene	0.00001	mg/L	0.00001	-
Benz(a)anthracene	0.00001	mg/L	< 0.00001	-
Benzo(a)pyrene	0.00001	mg/L	< 0.00001	-
Benzo(b&j)fluoranthene	0.00001	mg/L	< 0.00001	-
Benzo(g.h.i)perylene	0.00001	mg/L	< 0.00001	-
Benzo(k)fluoranthene	0.00001	mg/L	< 0.00001	-
Chrysene	0.00001	mg/L	< 0.00001	-
Dibenz(a.h)anthracene	0.00001	mg/L	< 0.00001	-
Fluoranthene	0.00001	mg/L	< 0.00001	-
Fluorene	0.00001	mg/L	0.00002	-
Indeno(1.2.3-cd)pyrene	0.00001	mg/L	< 0.00001	-

Client Sample ID			SW-01	BLANK-01
Sample Matrix			Water	Water
Eurofins Sample No.			S21-De37086	S21-De37088
Date Sampled			Dec 15, 2021	Dec 15, 2021
Test/Reference	LOR	Unit		
Polycyclic Aromatic Hydrocarbons (Trace level)				
Naphthalene	0.00001	mg/L	0.00003	-
Phenanthrene	0.00001	mg/L	0.00008	-
Pyrene	0.00001	mg/L	< 0.00001	-
Total PAH*	0.00001	mg/L	0.00014	-
2-Fluorobiphenyl (surr.)	1	%	53	-
p-Terphenyl-d14 (surr.)	1	%	69	-
Ammonia (as N)	0.01	mg/L	0.13	-
Conductivity (at 25°C)	10	uS/cm	530	-
pH (at 25 °C)	0.1	pH Units	7.3	-
Alkalinity (speciated)				
Bicarbonate Alkalinity (as CaCO3)	20	mg/L	96	-
Carbonate Alkalinity (as CaCO3)	10	mg/L	< 10	-
Hydroxide Alkalinity (as CaCO3)	20	mg/L	< 20	-
Total Alkalinity (as CaCO3)	20	mg/L	96	-
Eurofins Suite B19B: NO3/NO2/NOx				
Nitrate & Nitrite (as N)	0.05	mg/L	1.2	-
Nitrate (as N)	0.02	mg/L	1.2	-
Nitrite (as N)	0.02	mg/L	< 0.02	-
Heavy Metals				
Arsenic	0.001	mg/L	0.002	-
Cadmium	0.0002	mg/L	< 0.0002	-
Chromium	0.001	mg/L	< 0.001	-
Copper	0.001	mg/L	0.004	-
Lead	0.001	mg/L	< 0.001	-
Mercury	0.0001	mg/L	< 0.0001	-
Nickel	0.001	mg/L	0.002	-
Zinc	0.005	mg/L	0.013	-
Pathogens				
E.coli (MPN)	1	MPN/100mL	See attached	-
Salmonella[M10]			See attached	-
Salmonella Volume/Mass Tested		mL	See attached	-
Thermotolerant Coliforms (MPN)	1	MPN/100mL	See attached	-
Perfluoroalkyl carboxylic acids (PFCAs)				
Perfluorobutanoic acid (PFBA)[N11]	0.05	ug/L	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorononanoic acid (PFNA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTrDA)[N15]	0.01	ug/L	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA)[N11]	0.01	ug/L	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	71	97
13C5-PFPeA (surr.)	1	%	97	129
13C5-PFHxA (surr.)	1	%	83	145
13C4-PFHpA (surr.)	1	%	121	122

Client Sample ID			SW-01	BLANK-01
Sample Matrix			Water	Water
Eurofins Sample No.			S21-De37086	S21-De37088
Date Sampled			Dec 15, 2021	Dec 15, 2021
Test/Reference	LOR	Unit		
Perfluoroalkyl carboxylic acids (PFCAs)				
13C8-PFOA (surr.)	1	%	109	126
13C5-PFNA (surr.)	1	%	102	119
13C6-PFDA (surr.)	1	%	88	106
13C2-PFUnDA (surr.)	1	%	70	114
13C2-PFDoDA (surr.)	1	%	51	91
13C2-PFTeDA (surr.)	1	%	31	59
Perfluoroalkyl sulfonamido substances				
Perfluorooctane sulfonamide (FOSA)[N11]	0.05	ug/L	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	0.05	ug/L	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	0.05	ug/L	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)[N11]	0.05	ug/L	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)[N11]	0.05	ug/L	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	0.05	ug/L	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	0.05	ug/L	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	86	62
D3-N-MeFOSA (surr.)	1	%	56	139
D5-N-EtFOSA (surr.)	1	%	57	160
D7-N-MeFOSE (surr.)	1	%	54	73
D9-N-EtFOSE (surr.)	1	%	58	82
D5-N-EtFOSAA (surr.)	1	%	40	64
D3-N-MeFOSAA (surr.)	1	%	35	46
Perfluoroalkyl sulfonic acids (PFSAs)				
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS)[N15]	0.01	ug/L	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.01	ug/L	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	89	110
18O2-PFHxS (surr.)	1	%	103	131
13C8-PFOS (surr.)	1	%	98	100
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)[N11]	0.05	ug/L	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	74	150
13C2-6:2 FTSA (surr.)	1	%	77	73
13C2-8:2 FTSA (surr.)	1	%	105	103
13C2-10:2 FTSA (surr.)	1	%	80	68

Client Sample ID			SW-01	BLANK-01
Sample Matrix			Water	Water
Eurofins Sample No.			S21-De37086	S21-De37088
Date Sampled			Dec 15, 2021	Dec 15, 2021
Test/Reference	LOR	Unit		
PFASs Summations				
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1

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
Eurofins Suite B7 (PAH trace level)			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	Dec 16, 2021	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Dec 16, 2021	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Dec 16, 2021	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Melbourne	Dec 16, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons (Trace level)	Melbourne	Dec 16, 2021	7 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water (trace)			
Metals M8	Melbourne	Dec 16, 2021	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Ammonia (as N)	Melbourne	Dec 16, 2021	28 Days
- Method: APHA 4500-NH3 Ammonia Nitrogen by FIA			
Conductivity (at 25°C)	Melbourne	Dec 16, 2021	28 Days
- Method: LTM-INO-4030 Conductivity			
pH (at 25 °C)	Melbourne	Dec 16, 2021	0 Hours
- Method: LTM-GEN-7090 pH in water by ISE			
Alkalinity (speciated)	Melbourne	Dec 16, 2021	14 Days
- Method: LTM-INO-4250 Alkalinity by Electrometric Titration			
Eurofins Suite B19B: NO3/NO2/NOx	Melbourne	Dec 16, 2021	14 Days
- Method: LTM-INO-4120 Analysis of NOx NO2 NH3 by FIA			
Salmonella	WaterTestingVic	Dec 15, 2021	24 Hours
- Method: AS/NZS 4276.14 Salmonella spp.			
Thermotolerant Coliforms (MPN)	WaterTestingVic	Dec 15, 2021	24 Hours
- Method: LTM-MIC-6623 Thermotolerant Coliforms by MPN			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Brisbane	Dec 16, 2021	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Brisbane	Dec 16, 2021	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Brisbane	Dec 16, 2021	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Brisbane	Dec 16, 2021	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

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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
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261 Site # 1254

Sydney
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: 219-233 ALDINGTON RD KEMPS CREEK
Project ID: 61646

Order No.:
Report #: 850575
Phone: 02 8245 0300
Fax:

Received: Dec 15, 2021 4:43 PM
Due: Dec 31, 2021
Priority: 10 Day
Contact Name: George Black

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Ammonia (as N)	Conductivity (at 25°C)	E.coli (MPN)	HOLD	pH (at 25 °C)	Thermotolerant Coliforms (MPN)	Alkalinity (speciated)	Eurofins Suite B19B: NO3/NO2/NOx	Salmonella	Per- and Polyfluoroalkyl Substances (PFASs)	Eurofins Suite B7 (PAH trace level)
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X		X	X		X	X			X
Sydney Laboratory - NATA # 1261 Site # 18217																
Brisbane Laboratory - NATA # 1261 Site # 20794															X	
Mayfield Laboratory - NATA # 1261 Site # 25079																
Perth Laboratory - NATA # 2377 Site # 2370																
External Laboratory								X			X			X		
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**											
1	SW-01	Dec 15, 2021		Water	S21-De37086	X	X	X		X	X	X	X	X	X	X
2	SW-02	Dec 15, 2021		Water	S21-De37087				X							
3	BLANK-01	Dec 15, 2021		Water	S21-De37088										X	
Test Counts						1	1	1	1	1	1	1	1	1	2	1

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/100mL: Organisms per 100 millilitres
NTU: Nephelometric Turbidity Units
MPN/100mL: Most Probable Number of organisms per 100 millilitres

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 and 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.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.4
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
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.

.

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/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	
Naphthalene	mg/L	< 0.01			0.01	Pass	
TRH C6-C10	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							
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							
Polycyclic Aromatic Hydrocarbons (Trace level)							
Acenaphthene	mg/L	< 0.00001			0.00001	Pass	
Acenaphthylene	mg/L	< 0.00001			0.00001	Pass	
Anthracene	mg/L	< 0.00001			0.00001	Pass	
Benz(a)anthracene	mg/L	< 0.00001			0.00001	Pass	
Benzo(a)pyrene	mg/L	< 0.00001			0.00001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.00001			0.00001	Pass	
Benzo(g.h.i)perylene	mg/L	< 0.00001			0.00001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.00001			0.00001	Pass	
Chrysene	mg/L	< 0.00001			0.00001	Pass	
Dibenz(a.h)anthracene	mg/L	< 0.00001			0.00001	Pass	
Fluoranthene	mg/L	< 0.00001			0.00001	Pass	
Fluorene	mg/L	< 0.00001			0.00001	Pass	
Indeno(1.2.3-cd)pyrene	mg/L	< 0.00001			0.00001	Pass	
Naphthalene	mg/L	< 0.00001			0.00001	Pass	
Phenanthrene	mg/L	< 0.00001			0.00001	Pass	
Pyrene	mg/L	< 0.00001			0.00001	Pass	
Method Blank							
Ammonia (as N)	mg/L	< 0.01			0.01	Pass	
Conductivity (at 25°C)	uS/cm	< 10			10	Pass	
Method Blank							
Alkalinity (speciated)							
Bicarbonate Alkalinity (as CaCO3)	mg/L	< 20			20	Pass	
Carbonate Alkalinity (as CaCO3)	mg/L	< 10			10	Pass	
Hydroxide Alkalinity (as CaCO3)	mg/L	< 20			20	Pass	
Total Alkalinity (as CaCO3)	mg/L	< 20			20	Pass	
Method Blank							
Eurofins Suite B19B: NO3/NO2/NOx							
Nitrate & Nitrite (as N)	mg/L	< 0.05			0.05	Pass	
Nitrate (as N)	mg/L	< 0.02			0.02	Pass	
Nitrite (as N)	mg/L	< 0.02			0.02	Pass	
Method Blank							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Heavy Metals							
Arsenic	mg/L	< 0.001			0.001	Pass	
Cadmium	mg/L	< 0.0002			0.0002	Pass	
Chromium	mg/L	< 0.001			0.001	Pass	
Copper	mg/L	< 0.001			0.001	Pass	
Lead	mg/L	< 0.001			0.001	Pass	
Mercury	mg/L	< 0.0001			0.0001	Pass	
Nickel	mg/L	< 0.001			0.001	Pass	
Zinc	mg/L	< 0.005			0.005	Pass	
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/L	< 0.05			0.05	Pass	
Perfluoropentanoic acid (PFPeA)	ug/L	< 0.01			0.01	Pass	
Perfluorohexanoic acid (PFHxA)	ug/L	< 0.01			0.01	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/L	< 0.01			0.01	Pass	
Perfluorooctanoic acid (PFOA)	ug/L	< 0.01			0.01	Pass	
Perfluorononanoic acid (PFNA)	ug/L	< 0.01			0.01	Pass	
Perfluorodecanoic acid (PFDA)	ug/L	< 0.01			0.01	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/L	< 0.01			0.01	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/L	< 0.01			0.01	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/L	< 0.01			0.01	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/L	< 0.01			0.01	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/L	< 0.05			0.05	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/L	< 0.05			0.05	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/L	< 0.05			0.05	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	ug/L	< 0.05			0.05	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	ug/L	< 0.05			0.05	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/L	< 0.05			0.05	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/L	< 0.05			0.05	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	ug/L	< 0.01			0.01	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/L	< 0.01			0.01	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/L	< 0.01			0.01	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/L	< 0.01			0.01	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/L	< 0.01			0.01	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/L	< 0.01			0.01	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/L	< 0.01			0.01	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/L	< 0.01			0.01	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/L	< 0.01			0.01	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	ug/L	< 0.05			0.05	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/L	< 0.01			0.01	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/L	< 0.01			0.01	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	120			70-130	Pass	
TRH C10-C14	%	113			70-130	Pass	
Naphthalene	%	110			70-130	Pass	
TRH C6-C10	%	115			70-130	Pass	
TRH >C10-C16	%	112			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
LCS - % Recovery							
BTEX							
Benzene	%	110			70-130	Pass	
Toluene	%	115			70-130	Pass	
Ethylbenzene	%	110			70-130	Pass	
m&p-Xylenes	%	101			70-130	Pass	
Xylenes - Total*	%	103			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons (Trace level)							
Acenaphthene	%	91			70-130	Pass	
Acenaphthylene	%	106			70-130	Pass	
Anthracene	%	96			70-130	Pass	
Benz(a)anthracene	%	100			70-130	Pass	
Benzo(a)pyrene	%	74			70-130	Pass	
Benzo(b&j)fluoranthene	%	95			70-130	Pass	
Benzo(g.h.i)perylene	%	97			70-130	Pass	
Benzo(k)fluoranthene	%	88			70-130	Pass	
Chrysene	%	87			70-130	Pass	
Dibenz(a.h)anthracene	%	102			70-130	Pass	
Fluoranthene	%	100			70-130	Pass	
Fluorene	%	99			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	101			70-130	Pass	
Naphthalene	%	90			70-130	Pass	
Phenanthrene	%	94			70-130	Pass	
Pyrene	%	91			70-130	Pass	
LCS - % Recovery							
Ammonia (as N)	%	105			70-130	Pass	
Conductivity (at 25°C)	%	100			70-130	Pass	
LCS - % Recovery							
Alkalinity (speciated)							
Carbonate Alkalinity (as CaCO3)	%	94			70-130	Pass	
Total Alkalinity (as CaCO3)	%	102			70-130	Pass	
LCS - % Recovery							
Eurofins Suite B19B: NO3/NO2/NOx							
Nitrate & Nitrite (as N)	%	103			70-130	Pass	
Nitrate (as N)	%	103			70-130	Pass	
Nitrite (as N)	%	104			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	106			80-120	Pass	
Cadmium	%	105			80-120	Pass	
Chromium	%	105			80-120	Pass	
Copper	%	104			80-120	Pass	
Lead	%	106			80-120	Pass	
Mercury	%	105			80-120	Pass	
Nickel	%	105			80-120	Pass	
Zinc	%	106			80-120	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	106			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	126			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	109			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	115			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	115			50-150	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorononanoic acid (PFNA)	%	112			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	98			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	108			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	141			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	122			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	109			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	101			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	128			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	119			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	%	109			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	%	105			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	123			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	125			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	99			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	109			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	110			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	119			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	110			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	128			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	114			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	112			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	129			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	%	115			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	122			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	133			50-150	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	M21-De41036	NCP	%	116			70-130	Pass	
TRH C10-C14	N21-De24529	NCP	%	81			70-130	Pass	
Naphthalene	M21-De41036	NCP	%	92			70-130	Pass	
TRH C6-C10	M21-De41036	NCP	%	109			70-130	Pass	
TRH >C10-C16	N21-De24529	NCP	%	82			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	M21-De41036	NCP	%	101			70-130	Pass	
Toluene	M21-De41036	NCP	%	109			70-130	Pass	
Ethylbenzene	M21-De41036	NCP	%	105			70-130	Pass	
m&p-Xylenes	M21-De41036	NCP	%	94			70-130	Pass	
o-Xylene	M21-De41036	NCP	%	95			70-130	Pass	
Xylenes - Total*	M21-De41036	NCP	%	95			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons (Trace level)				Result 1					
Benzo(a)pyrene	S21-De23060	NCP	%	94			70-130	Pass	
Naphthalene	L21-De40073	NCP	%	142			70-130	Fail	Q08
Spike - % Recovery									
				Result 1					

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Ammonia (as N)	M21-De40844	NCP	%	101			70-130	Pass	
Spike - % Recovery									
Eurofins Suite B19B: NO3/NO2/NOx				Result 1					
Nitrate & Nitrite (as N)	M21-De40844	NCP	%	102			70-130	Pass	
Nitrate (as N)	M21-De40844	NCP	%	102			70-130	Pass	
Nitrite (as N)	M21-De40844	NCP	%	107			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M21-De44378	NCP	%	105			75-125	Pass	
Cadmium	M21-De44378	NCP	%	107			75-125	Pass	
Chromium	M21-De44378	NCP	%	105			75-125	Pass	
Copper	M21-De44378	NCP	%	105			75-125	Pass	
Lead	M21-De44378	NCP	%	105			75-125	Pass	
Mercury	M21-De44378	NCP	%	117			75-125	Pass	
Nickel	M21-De44378	NCP	%	105			75-125	Pass	
Zinc	M21-De44378	NCP	%	105			75-125	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	S21-De37088	CP	%	99			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	S21-De37088	CP	%	115			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	S21-De37088	CP	%	121			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	S21-De37088	CP	%	96			50-150	Pass	
Perfluorooctanoic acid (PFOA)	S21-De37088	CP	%	93			50-150	Pass	
Perfluorononanoic acid (PFNA)	S21-De37088	CP	%	93			50-150	Pass	
Perfluorodecanoic acid (PFDA)	S21-De37088	CP	%	102			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	S21-De37088	CP	%	86			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	S21-De37088	CP	%	104			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	S21-De37088	CP	%	99			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	S21-De37088	CP	%	54			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	S21-De37088	CP	%	106			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S21-De37088	CP	%	110			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S21-De37088	CP	%	94			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	S21-De37088	CP	%	106			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	S21-De37088	CP	%	98			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S21-De37088	CP	%	98			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S21-De37088	CP	%	101			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	S21-De37088	CP	%	87			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	S21-De37088	CP	%	103			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	S21-De37088	CP	%	87			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluoropentanesulfonic acid (PFPeS)	S21-De37088	CP	%	93			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	S21-De37088	CP	%	84			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	S21-De37088	CP	%	86			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	S21-De37088	CP	%	104			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	S21-De37088	CP	%	82			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S21-De37088	CP	%	104			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	S21-De37088	CP	%	89			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S21-De37088	CP	%	104			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S21-De37088	CP	%	110			50-150	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	M21-De41035	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH C10-C14	B21-De28627	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH C15-C28	B21-De28627	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH C29-C36	B21-De28627	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Naphthalene	M21-De41035	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
TRH C6-C10	M21-De41035	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH >C10-C16	B21-De28627	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH >C16-C34	B21-De28627	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH >C34-C40	B21-De28627	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	M21-De41035	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Toluene	M21-De41035	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Ethylbenzene	M21-De41035	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
m&p-Xylenes	M21-De41035	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
o-Xylene	M21-De41035	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Xylenes - Total*	M21-De41035	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons (Trace level)				Result 1	Result 2	RPD			
Acenaphthene	S21-De33852	NCP	mg/L	0.00002	0.00001	53	30%	Fail	Q15
Acenaphthylene	S21-De33852	NCP	mg/L	0.00003	0.00002	59	30%	Fail	Q15
Anthracene	S21-De33852	NCP	mg/L	0.00007	0.00006	7.0	30%	Pass	
Benz(a)anthracene	S21-De33852	NCP	mg/L	0.00035	0.00023	41	30%	Fail	Q15
Benzo(a)pyrene	S21-De33852	NCP	mg/L	0.00033	0.00019	51	30%	Fail	Q15
Benzo(b&j)fluoranthene	S21-De33852	NCP	mg/L	0.00031	0.00017	57	30%	Fail	Q15
Benzo(g.h.i)perylene	S21-De33852	NCP	mg/L	0.00021	0.00009	74	30%	Fail	Q15
Benzo(k)fluoranthene	S21-De33852	NCP	mg/L	0.00025	0.00013	63	30%	Fail	Q15
Chrysene	S21-De33852	NCP	mg/L	0.00047	0.00024	64	30%	Fail	Q15
Dibenz(a.h)anthracene	S21-De33852	NCP	mg/L	0.00005	0.00003	38	30%	Fail	Q15
Fluoranthene	S21-De33852	NCP	mg/L	0.00064	0.00039	48	30%	Fail	Q15
Fluorene	S21-De33852	NCP	mg/L	0.00003	0.00001	79	30%	Fail	Q15

Duplicate									
Polycyclic Aromatic Hydrocarbons (Trace level)				Result 1	Result 2	RPD			
Indeno(1.2.3-cd)pyrene	S21-De33852	NCP	mg/L	0.00017	0.00009	63	30%	Fail	Q15
Naphthalene	S21-De33852	NCP	mg/L	0.00002	0.00001	47	30%	Fail	Q15
Phenanthrene	S21-De33852	NCP	mg/L	0.00017	0.00010	55	30%	Fail	Q15
Pyrene	S21-De33852	NCP	mg/L	0.00068	0.00041	51	30%	Fail	Q15
Duplicate									
				Result 1	Result 2	RPD			
Ammonia (as N)	M21-De40844	NCP	mg/L	1.3	1.3	1.0	30%	Pass	
Conductivity (at 25°C)	S21-De40138	NCP	uS/cm	490	490	1.0	30%	Pass	
pH (at 25 °C)	S21-De40138	NCP	pH Units	7.7	7.8	pass	30%	Pass	
Duplicate									
Alkalinity (speciated)				Result 1	Result 2	RPD			
Bicarbonate Alkalinity (as CaCO3)	S21-De40138	NCP	mg/L	160	150	2.0	30%	Pass	
Carbonate Alkalinity (as CaCO3)	S21-De40138	NCP	mg/L	< 10	< 10	<1	30%	Pass	
Hydroxide Alkalinity (as CaCO3)	S21-De40138	NCP	mg/L	< 20	< 20	<1	30%	Pass	
Total Alkalinity (as CaCO3)	S21-De40138	NCP	mg/L	160	150	2.0	30%	Pass	
Duplicate									
Eurofins Suite B19B: NO3/NO2/NOx				Result 1	Result 2	RPD			
Nitrate & Nitrite (as N)	M21-De40844	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Nitrate (as N)	M21-De40844	NCP	mg/L	0.05	0.05	3.0	30%	Pass	
Nitrite (as N)	M21-De40844	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M21-De44378	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Cadmium	M21-De44378	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Chromium	M21-De44378	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Copper	M21-De44378	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Lead	M21-De44378	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Mercury	M21-De44378	NCP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel	M21-De44378	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Zinc	M21-De44378	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	S21-De40356	NCP	ug/L	0.08	0.09	18	30%	Pass	
Perfluoropentanoic acid (PFPeA)	S21-De40356	NCP	ug/L	0.10	0.10	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	S21-De40356	NCP	ug/L	0.48	0.56	16	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	S21-De40356	NCP	ug/L	0.06	0.07	8.0	30%	Pass	
Perfluorooctanoic acid (PFOA)	S21-De40356	NCP	ug/L	0.12	0.14	12	30%	Pass	
Perfluorononanoic acid (PFNA)	S21-De40356	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	S21-De40356	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	S21-De40356	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	S21-De40356	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	S21-De40356	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	S21-De40356	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	S21-De40356	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S21-De40356	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S21-De40356	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol (N-MeFOSE)	S21-De40356	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	

Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol (N-EtFOSE)	S21-De40356	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S21-De40356	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S21-De40356	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	S21-De40356	NCP	ug/L	0.24	0.27	10	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	S21-De40356	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	S21-De40356	NCP	ug/L	0.10	0.11	11	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	S21-De40356	NCP	ug/L	0.34	0.38	12	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	S21-De40360	NCP	ug/L	1.7	1.7	2.0	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	S21-De40360	NCP	ug/L	0.06	0.05	9.0	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	S21-De40360	NCP	ug/L	2.3	2.3	2.0	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	S21-De40356	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S21-De40356	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	S21-De40356	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S21-De40356	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S21-De40356	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	

Comments

Microbiological analysis performed by: Eurofins Food Testing, NATA accreditation number 20293, report reference: AR-21-NV-012356-01.

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
M10	NATA accreditation does not cover the performance of this service in soil matrices
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.
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).
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 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
Emily Rosenberg	Senior Analyst-Metal (VIC)
Joseph Edouard	Senior Analyst-Organic (VIC)
Sarah McCallion	Senior Analyst-PFAS (QLD)
Scott Beddoes	Senior Analyst-Inorganic (VIC)
Vivian Wang	Senior Analyst-Volatile (VIC)

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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ANALYTICAL REPORT

REPORT CODE **AR-21-NV-012356-01**

REPORT DATE **20/12/2021**

For the attention of Eurofins Environment Testing Australia Pty Ltd
Analytical Reports
6 Monterey Road
Dandenong South
3175 Melbourne
AUSTRALIA
Phone +61 3 8564 5064
Email EnviroReportsau@eurofins.com

Contact for your orders: Ruvini Herath
Submission Reference: Merged from order cau001-order-850575-211216.xml

Order code: EUAUTWU-00011613
Purchase Order Number: 850575

SAMPLE CODE 726-2021-00035132

Client Reference: 21-De37086
Sample described as: SW-01
Reception Date: 16/12/2021
Analysis Starting Date: 16/12/2021
Sampled Date & Time 15/12/2021 12:00:00

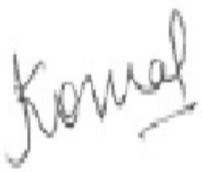
Reception temperature: 3.8
Analysis Ending Date: 20/12/2021

	RESULTS		LOQ
VQ791 E.coli			
Analysis Starting Date: 16/12/2021 11:42			
E.Coli	30	MPN/100 ml	1
VQ296 Salmonella*			
Analysis Starting Date: 16/12/2021 11:42			
Salmonella	Not detected	100 ml	-
VQ797 Thermotolerant Coliforms			
Analysis Starting Date: 16/12/2021 11:42			
Thermotolerant coliforms	160	MPN/100 ml	1

LIST OF METHODS

VQ296 **Salmonella*:** AS 4276.14
VQ791 **E.coli:** AS 4276.7
VQ797 **Thermotolerant Coliforms:** AS 4276.7

Signature



Komal Gosain Team Leader

EXPLANATORY NOTE

- ◆ test is not accredited
- ○ test is subcontracted within Eurofins group and is accredited
- ● test is subcontracted within Eurofins group and is not accredited
- □ test is subcontracted outside Eurofins group and is accredited
- ■ test is subcontracted outside Eurofins group and is not accredited

N/A means Not applicable
Not Detected means not detected at or above the Limit of Quantification (LOQ)
LOQ Limit of Quantification
U Measurement Uncertainty
< Less than, ≤ Less than or equal to
> Greater than, ≥ Greater than or equal to
The tests are identified by a 5 digit code, full details can be provided on request.
Information supplied by the client. This information can have an impact on the validity of results.
Samples are tested as received and the results relate only to the sample tested.
Analysis date is reported as the start date of extraction for a method.
The results may not be reproduced except in full, without a written approval from the laboratory.

Eurofins General Terms and Conditions apply.

END OF REPORT

Eurofins Food Testing Australia Pty Ltd
6 Monterey Road
Dandenong South
Melbourne
VIC 3175
AUSTRALIA
Phone +61385645000
www.eurofins.com.au

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.
Accreditation Number 20293

SW

Chain of Custody

JBS&G

PROJECT NO.: 61646	LABORATORY BATCH NO.:
PROJECT NAME: 219-233 Aldington Rd Kemps Creek	SAMPLERS: ML
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) M.Lin1@jbsg.com.au; (3) GBlade@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

Biological = e.coli, f.coli and salmonella.

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	PAHs (Low level)	TRH/BTEX	EC, pH, alkalinity	Nitrate/Nitrite	Ammonia	28 PFAS	Biological	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
SW-01	water	15-12-21	-	Vials + Bottles + Ice		x	x	x	x	x	x	x	x			
SW-02	"	"	-	"												
Blank-01	"	"	-	"								x				

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: M.Lin DATE: 15-12-21	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: S DALLI DATE: 15/12/21 4:43pm	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP 10.1 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

#850575 Surface water.

1 of 1

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JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
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Attention: **Matthew Linz**

Report **786097-S**
Project name 251 ALDING ROAD
Project ID 60716
Received Date Apr 09, 2021

Client Sample ID			**TP01 - 0-0.1**	**TP01 - 1-1.1**	**TP02 - 0.2-0.3**	**TP03 - 0-0.1**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**S21-Ap12755**	**S21-Ap12756**	**S21-Ap13162**	**S21-Ap13163**
Date Sampled			**Apr 08, 2021**	**Apr 08, 2021**	**Apr 08, 2021**	**Apr 08, 2021**
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	56	-	-	-
TRH C29-C36	50	mg/kg	< 50	-	-	-
TRH C10-C36 (Total)	50	mg/kg	56	-	-	-
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	%	68	-	-	-
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	-	-	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	-	-
Polycyclic Aromatic Hydrocarbons						
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
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

Client Sample ID			TP01 - 0-0.1	TP01 - 1-1.1	TP02 - 0.2-0.3	TP03 - 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap12755	S21-Ap12756	S21-Ap13162	S21-Ap13163
Date Sampled			Apr 08, 2021	Apr 08, 2021	Apr 08, 2021	Apr 08, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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	1	-	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	87	-	101	95
p-Terphenyl-d14 (surr.)	1	%	93	-	111	105
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	0.1	mg/kg	< 0.1	-	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2	-	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2	-	-	-
Dibutylchlorendate (surr.)	1	%	89	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	108	-	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1221	0.1	mg/kg	< 0.1	-	-	-
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	%	89	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	108	-	-	-

Client Sample ID			TP01 - 0-0.1	TP01 - 1-1.1	TP02 - 0.2-0.3	TP03 - 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap12755	S21-Ap12756	S21-Ap13162	S21-Ap13163
Date Sampled			Apr 08, 2021	Apr 08, 2021	Apr 08, 2021	Apr 08, 2021
Test/Reference	LOR	Unit				
% Clay	1	%	7.0	25	-	-
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	7.2	5.6	-	-
Total Organic Carbon	0.1	%	2.6	0.6	-	-
% Moisture	1	%	5.7	15	28	17
Heavy Metals						
Arsenic	2	mg/kg	9.0	7.4	5.4	9.5
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	17	16	14	12
Copper	5	mg/kg	35	32	36	24
Lead	5	mg/kg	14	16	19	19
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	19	20	21	< 5
Zinc	5	mg/kg	40	78	69	43

Client Sample ID			TP04 - 0-0.1	QA202104-08-01	TP05 - 0-0.1	TP06 - 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap13164	S21-Ap13165	S21-Ap13166	S21-Ap13168
Date Sampled			Apr 08, 2021	Apr 08, 2021	Apr 08, 2021	Apr 08, 2021
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	24	< 20	-	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	-	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	-	< 50
TRH C10-C36 (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	%	103	108	-	109
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
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	-	< 100
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

Client Sample ID			TP04 - 0-0.1	QA202104-08-01	TP05 - 0-0.1	TP06 - 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap13164	S21-Ap13165	S21-Ap13166	S21-Ap13168
Date Sampled			Apr 08, 2021	Apr 08, 2021	Apr 08, 2021	Apr 08, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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	%	87	78	91	91
p-Terphenyl-d14 (surr.)	1	%	95	84	102	108
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	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2	< 0.2	-	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2	< 0.2	-	< 0.2
Dibutylchlorendate (surr.)	1	%	109	102	-	122
Tetrachloro-m-xylene (surr.)	1	%	102	89	-	117

Client Sample ID			TP04 - 0-0.1	QA202104-08-01	TP05 - 0-0.1	TP06 - 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap13164	S21-Ap13165	S21-Ap13166	S21-Ap13168
Date Sampled			Apr 08, 2021	Apr 08, 2021	Apr 08, 2021	Apr 08, 2021
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
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	%	109	102	-	122
Tetrachloro-m-xylene (surr.)	1	%	102	89	-	117
% Moisture	1	%	19	20	23	18
Heavy Metals						
Arsenic	2	mg/kg	16	12	12	11
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	23	27	30	24
Copper	5	mg/kg	43	58	48	34
Lead	5	mg/kg	29	52	28	27
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	17	21	21	18
Zinc	5	mg/kg	89	140	84	72

Client Sample ID			TP07 - 0-0.1	TP08 - 0-0.1	TP09 - 0.2-0.3	TP10 - 0.3-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap13169	S21-Ap13171	S21-Ap13172	S21-Ap13177
Date Sampled			Apr 08, 2021	Apr 08, 2021	Apr 08, 2021	Apr 08, 2021
Test/Reference	LOR	Unit				
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-C36 (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	%	-	-	118	99
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

Client Sample ID			TP07 - 0-0.1	TP08 - 0-0.1	TP09 - 0.2-0.3	TP10 - 0.3-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap13169	S21-Ap13171	S21-Ap13172	S21-Ap13177
Date Sampled			Apr 08, 2021	Apr 08, 2021	Apr 08, 2021	Apr 08, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C16-C34	100	mg/kg	-	-	< 100	< 100
TRH >C34-C40	100	mg/kg	-	-	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	-	< 100	< 100
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	%	85	90	94	95
p-Terphenyl-d14 (surr.)	1	%	95	100	99	105
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	-	< 0.5	< 0.5
Aroclor-1221	0.1	mg/kg	-	-	< 0.1	< 0.1
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	%	-	-	126	113
Tetrachloro-m-xylene (surr.)	1	%	-	-	107	110
% Moisture	1	%	19	21	12	21
Heavy Metals						
Arsenic	2	mg/kg	14	14	18	7.9
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	21	23	21	28
Copper	5	mg/kg	45	32	69	34
Lead	5	mg/kg	20	23	37	31
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	14	14	20	21
Zinc	5	mg/kg	70	62	97	72

Client Sample ID			TP11 - 0.2-0.3	TP12 - 0-0.1	TP13 - 0-0.1	TP14 - 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap13179	S21-Ap13180	S21-Ap13181	S21-Ap13182
Date Sampled			Apr 08, 2021	Apr 08, 2021	Apr 08, 2021	Apr 08, 2021
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	63
TRH C29-C36	50	mg/kg	-	< 50	< 50	110
TRH C10-C36 (Total)	50	mg/kg	-	< 50	< 50	173
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	%	-	97	108	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	-	< 100	< 100	170
TRH >C34-C40	100	mg/kg	-	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	< 100	170
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	%	83	96	100	84
p-Terphenyl-d14 (surr.)	1	%	97	99	112	85

Client Sample ID			TP11 - 0.2-0.3	TP12 - 0-0.1	TP13 - 0-0.1	TP14 - 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap13179	S21-Ap13180	S21-Ap13181	S21-Ap13182
Date Sampled			Apr 08, 2021	Apr 08, 2021	Apr 08, 2021	Apr 08, 2021
Test/Reference	LOR	Unit				
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	0.1	mg/kg	-	< 0.1	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.2	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.2	-	-
Dibutylchlorendate (surr.)	1	%	-	106	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	112	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	< 0.5	-	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	-
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	%	-	106	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	112	-	-
% Moisture	1	%	19	21	20	15
Heavy Metals						
Arsenic	2	mg/kg	8.5	6.4	16	18
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	26	26	24	20
Copper	5	mg/kg	67	55	69	84
Lead	5	mg/kg	36	21	19	30
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	23	26	16	17
Zinc	5	mg/kg	130	76	110	150

Client Sample ID			TP15 - 0.2-0.3	TP16 - 0-0.1	TP19 - 0-0.1	TP22 - 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap13183	S21-Ap13185	S21-Ap13186	S21-Ap13187
Date Sampled			Apr 08, 2021	Apr 08, 2021	Apr 08, 2021	Apr 08, 2021
Test/Reference	LOR	Unit				
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-C36 (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	%	107	-	-	96
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
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	-	< 100
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	%	88	89	91	84
p-Terphenyl-d14 (surr.)	1	%	99	99	104	105

Client Sample ID			TP15 - 0.2-0.3	TP16 - 0-0.1	TP19 - 0-0.1	TP22 - 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap13183	S21-Ap13185	S21-Ap13186	S21-Ap13187
Date Sampled			Apr 08, 2021	Apr 08, 2021	Apr 08, 2021	Apr 08, 2021
Test/Reference	LOR	Unit				
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	0.1	mg/kg	< 0.1	-	-	< 0.1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2	-	-	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2	-	-	< 0.2
Dibutylchlorendate (surr.)	1	%	104	-	-	106
Tetrachloro-m-xylene (surr.)	1	%	108	-	-	99
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	< 0.5	-	-	< 0.5
Aroclor-1221	0.1	mg/kg	< 0.1	-	-	< 0.1
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	-	-	106
Tetrachloro-m-xylene (surr.)	1	%	108	-	-	99
% Moisture	1	%	22	16	18	16
Heavy Metals						
Arsenic	2	mg/kg	32	14	13	15
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	25	17	23	32
Copper	5	mg/kg	40	41	32	51
Lead	5	mg/kg	22	18	25	27
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	21	11	11	13
Zinc	5	mg/kg	75	63	57	81

Client Sample ID			TP23 - 0-0.1	TP18 - 0-0.1	QA202104-08-02	TP25 - 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap13188	S21-Ap13190	S21-Ap13191	S21-Ap13192
Date Sampled			Apr 08, 2021	Apr 08, 2021	Apr 08, 2021	Apr 08, 2021
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	< 50	-	-	-
TRH C29-C36	50	mg/kg	< 50	-	-	-
TRH C10-C36 (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	%	124	-	-	-
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	-	-	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	-	-
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	%	83	76	73	78
p-Terphenyl-d14 (surr.)	1	%	101	87	80	73

Client Sample ID			TP23 - 0-0.1	TP18 - 0-0.1	QA202104-08-02	TP25 - 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap13188	S21-Ap13190	S21-Ap13191	S21-Ap13192
Date Sampled			Apr 08, 2021	Apr 08, 2021	Apr 08, 2021	Apr 08, 2021
Test/Reference	LOR	Unit				
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	0.1	mg/kg	< 0.1	-	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2	-	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2	-	-	-
Dibutylchlorendate (surr.)	1	%	107	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	99	-	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1221	0.1	mg/kg	< 0.1	-	-	-
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	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	99	-	-	-
% Moisture	1	%	16	16	17	21
Heavy Metals						
Arsenic	2	mg/kg	15	9.4	10.0	14
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	18	25	26	20
Copper	5	mg/kg	24	74	93	28
Lead	5	mg/kg	19	24	29	25
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	13	16	17	16
Zinc	5	mg/kg	55	98	110	55

Client Sample ID			TP26 - 0-0.1	TP27 - 0-0.1	TP28 - 0-0.1	TP29 - 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap13194	S21-Ap13196	S21-Ap13198	S21-Ap13200
Date Sampled			Apr 08, 2021	Apr 08, 2021	Apr 08, 2021	Apr 08, 2021
Test/Reference	LOR	Unit				
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-C36 (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	%	134	-	74	-
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	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	< 100	-
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	%	91	87	78	115
p-Terphenyl-d14 (surr.)	1	%	99	106	98	148

Client Sample ID			TP26 - 0-0.1	TP27 - 0-0.1	TP28 - 0-0.1	TP29 - 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap13194	S21-Ap13196	S21-Ap13198	S21-Ap13200
Date Sampled			Apr 08, 2021	Apr 08, 2021	Apr 08, 2021	Apr 08, 2021
Test/Reference	LOR	Unit				
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	0.1	mg/kg	< 0.1	-	< 0.1	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2	-	< 0.2	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2	-	< 0.2	-
Dibutylchlorendate (surr.)	1	%	109	-	98	-
Tetrachloro-m-xylene (surr.)	1	%	98	-	97	-
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	< 0.5	-	< 0.5	-
Aroclor-1221	0.1	mg/kg	< 0.1	-	< 0.1	-
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	%	109	-	98	-
Tetrachloro-m-xylene (surr.)	1	%	98	-	97	-
% Moisture	1	%	23	20	19	17
Heavy Metals						
Arsenic	2	mg/kg	15	13	18	13
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	29	20	24	21
Copper	5	mg/kg	59	39	34	46
Lead	5	mg/kg	26	27	13	27
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	15	13	15	14
Zinc	5	mg/kg	72	63	69	71

Client Sample ID			TP34 - 0-0.1	TP35 - 0-0.1	TP36 - 0-0.1	TP37 - 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap13202	S21-Ap13204	S21-Ap13206	S21-Ap13208
Date Sampled			Apr 09, 2021	Apr 09, 2021	Apr 09, 2021	Apr 09, 2021
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	< 50	< 50
TRH C10-C36 (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	%	-	89	95	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	< 100
TRH >C34-C40	100	mg/kg	-	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	< 100	< 100
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	< 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	< 0.5
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	< 1
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 1
2-Fluorobiphenyl (surr.)	1	%	100	107	100	119
p-Terphenyl-d14 (surr.)	1	%	136	136	133	136

Client Sample ID			TP34 - 0-0.1	TP35 - 0-0.1	TP36 - 0-0.1	TP37 - 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap13202	S21-Ap13204	S21-Ap13206	S21-Ap13208
Date Sampled			Apr 09, 2021	Apr 09, 2021	Apr 09, 2021	Apr 09, 2021
Test/Reference	LOR	Unit				
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	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.2	< 0.2	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.2	< 0.2	< 0.2
Dibutylchlorendate (surr.)	1	%	-	116	124	141
Tetrachloro-m-xylene (surr.)	1	%	-	119	114	122
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Aroclor-1221	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
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	%	-	116	124	141
Tetrachloro-m-xylene (surr.)	1	%	-	119	114	122
% Moisture	1	%	18	17	20	22
Heavy Metals						
Arsenic	2	mg/kg	21	13	14	13
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	40	23	22	27
Copper	5	mg/kg	49	31	44	41
Lead	5	mg/kg	33	22	29	30
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	11	14	17	14
Zinc	5	mg/kg	70	50	80	73

Client Sample ID			TP38 - 0-0.1	TP43 - 0-0.1	TP44 - 0-0.1	TP45 - 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap13210	S21-Ap13212	S21-Ap13214	S21-Ap13216
Date Sampled			Apr 09, 2021	Apr 09, 2021	Apr 09, 2021	Apr 09, 2021
Test/Reference	LOR	Unit				
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-C36 (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	%	-	99	-	101
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
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	-	< 100
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	%	108	72	67	85
p-Terphenyl-d14 (surr.)	1	%	126	83	86	97

Client Sample ID			TP38 - 0-0.1	TP43 - 0-0.1	TP44 - 0-0.1	TP45 - 0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Ap13210	S21-Ap13212	S21-Ap13214	S21-Ap13216
Date Sampled			Apr 09, 2021	Apr 09, 2021	Apr 09, 2021	Apr 09, 2021
Test/Reference	LOR	Unit				
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	0.1	mg/kg	-	< 0.1	-	< 0.1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.2	-	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.2	-	< 0.2
Dibutylchlorendate (surr.)	1	%	-	99	-	117
Tetrachloro-m-xylene (surr.)	1	%	-	83	-	95
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	< 0.5	-	< 0.5
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	< 0.1
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	%	-	99	-	117
Tetrachloro-m-xylene (surr.)	1	%	-	83	-	95
% Moisture	1	%	21	20	14	16
Heavy Metals						
Arsenic	2	mg/kg	11	7.6	12	24
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	26	23	18	19
Copper	5	mg/kg	54	37	55	100
Lead	5	mg/kg	28	20	17	25
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	20	11	15	21
Zinc	5	mg/kg	98	73	75	130

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.

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	Apr 12, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Apr 12, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Apr 12, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Apr 12, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons	Sydney	Apr 12, 2021	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Organochlorine Pesticides	Sydney	Apr 12, 2021	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Polychlorinated Biphenyls	Sydney	Apr 12, 2021	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
% Clay	Brisbane	Apr 12, 2021	14 Days
- Method: LTM-GEN-7040			
pH (1:5 Aqueous extract at 25°C as rec.)	Sydney	Apr 12, 2021	7 Days
- Method: LTM-GEN-7090 pH in soil by ISE			
Total Organic Carbon	Melbourne	Apr 12, 2021	28 Days
- Method: LTM-INO-4060 Total Organic Carbon in water and soil			
% Moisture	Sydney	Apr 09, 2021	14 Days
- Method: LTM-GEN-7080 Moisture			
Metals M8	Sydney	Apr 12, 2021	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			

eurofins | Environment Testing

ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
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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Phone : +61 7 3902 4600
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2/91 Leach Highway
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4/52 Industrial Drive
Mayfield East NSW 2304
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Auckland
35 O'Rorke Road
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IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
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IANZ # 1290

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Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: 251 ALDING ROAD
Project ID: 60716

Order No.:
Report #: 786097
Phone: 02 8245 0300
Fax:

Received: Apr 9, 2021 2:48 PM
Due: Apr 13, 2021
Priority: 2 Day
Contact Name: Matthew Linz

Eurofins Analytical Services Manager : Ursula Long

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Melbourne Laboratory - NATA Site # 1254 & 14271												X									
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**																
1	TP01 - 0-0.1	Apr 08, 2021		Soil	S21-Ap12755	X					X	X					X			X	
2	TP01 - 1-1.1	Apr 08, 2021		Soil	S21-Ap12756	X					X	X			X		X				
3	TP01 - 0-0.6	Apr 08, 2021		Soil	S21-Ap13159		X														
4	TP02 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13161		X														
5	TP02 - 0.2-0.3	Apr 08, 2021		Soil	S21-Ap13162								X		X		X				
6	TP03 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13163		X						X		X		X				
7	TP04 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13164		X										X			X	
8	QA202104-08-01	Apr 08, 2021		Soil	S21-Ap13165		X										X			X	

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Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
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New Zealand

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Melbourne Laboratory - NATA Site # 1254 & 14271												X									
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
9	TP05 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13166								X		X		X				
10	TP05 - 0-0.4	Apr 08, 2021		Soil	S21-Ap13167		X														
11	TP06 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13168		X										X			X	
12	TP07 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13169								X		X		X				
13	TP07 - 0-0.3	Apr 08, 2021		Soil	S21-Ap13170		X														
14	TP08 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13171		X						X		X		X				
15	TP09 - 0.2-0.3	Apr 08, 2021		Soil	S21-Ap13172									X			X	X			
16	TP09 - 0-0.3	Apr 08, 2021		Soil	S21-Ap13173				X												
17	TP09 - 0.4-0.5	Apr 08, 2021		Soil	S21-Ap13174		X														
18	TP09 - FRAG01	Apr 08, 2021		Building Materials	S21-Ap13175			X													

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Australia

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Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
19	TP10 - 0-0.8	Apr 08, 2021		Soil	S21-Ap13176		X														
20	TP10 - 0.3-0.4	Apr 08, 2021		Soil	S21-Ap13177									X			X	X			
21	TP11 - 0-0.3	Apr 08, 2021		Soil	S21-Ap13178		X														
22	TP11 - 0.2-0.3	Apr 08, 2021		Soil	S21-Ap13179								X		X		X				
23	TP12 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13180												X			X	
24	TP13 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13181		X										X	X			
25	TP14 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13182		X										X	X			
26	TP15 - 0.2-0.3	Apr 08, 2021		Soil	S21-Ap13183												X			X	
27	TP15 - 0.1-0.4	Apr 08, 2021		Soil	S21-Ap13184		X														
28	TP16 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13185		X						X		X		X				
29	TP19 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13186								X		X		X				

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Melbourne Laboratory - NATA Site # 1254 & 14271												X									
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
30	TP22 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13187												X			X	
31	TP23 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13188												X			X	
32	TP23 - 0-0.2	Apr 08, 2021		Soil	S21-Ap13189		X														
33	TP18 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13190		X						X		X		X				
34	QA202104-08-02	Apr 08, 2021		Soil	S21-Ap13191		X						X		X		X				
35	TP25 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13192								X		X		X				
36	TP25 - 0-0.2	Apr 08, 2021		Soil	S21-Ap13193		X														
37	TP26 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13194												X			X	
38	TP26 - 0-0.2	Apr 08, 2021		Soil	S21-Ap13195		X														
39	TP27 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13196								X		X		X				

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16 Mars Road
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Melbourne Laboratory - NATA Site # 1254 & 14271												X									
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
40	TP27 - 0-0.2	Apr 08, 2021		Soil	S21-Ap13197		X														
41	TP28 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13198												X			X	
42	TP28 - 0-0.2	Apr 08, 2021		Soil	S21-Ap13199		X														
43	TP29 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13200								X		X		X				
44	TP29 - 0-0.2	Apr 08, 2021		Soil	S21-Ap13201		X														
45	TP34 - 0-0.1	Apr 09, 2021		Soil	S21-Ap13202								X		X		X				
46	TP34 - 0-0.2	Apr 09, 2021		Soil	S21-Ap13203		X														
47	TP35 - 0-0.1	Apr 09, 2021		Soil	S21-Ap13204												X			X	
48	TP35 - 0-0.2	Apr 09, 2021		Soil	S21-Ap13205		X														
49	TP36 - 0-0.1	Apr 09, 2021		Soil	S21-Ap13206		X										X			X	
50	TP36 - 0.3-0.4	Apr 09, 2021		Soil	S21-Ap13207					X											

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Melbourne Laboratory - NATA Site # 1254 & 14271												X									
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
51	TP37 - 0-0.1	Apr 09, 2021		Soil	S21-Ap13208												X			X	
52	TP37 - 0-0.2	Apr 09, 2021		Soil	S21-Ap13209		X														
53	TP38 - 0-0.1	Apr 09, 2021		Soil	S21-Ap13210								X		X		X				
54	TP38 - 0-0.2	Apr 09, 2021		Soil	S21-Ap13211		X														
55	TP43 - 0-0.1	Apr 09, 2021		Soil	S21-Ap13212												X			X	
56	TP43 - 0-0.2	Apr 09, 2021		Soil	S21-Ap13213		X														
57	TP44 - 0-0.1	Apr 09, 2021		Soil	S21-Ap13214								X		X		X				
58	TP44 - 0-0.2	Apr 09, 2021		Soil	S21-Ap13215		X														
59	TP45 - 0-0.1	Apr 09, 2021		Soil	S21-Ap13216												X			X	
60	RINSATE	Apr 09, 2021		Water	S21-Ap13217																X
61	TS	Apr 08, 2021		Water	S21-Ap13218														X		

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Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
62	TB	Apr 08, 2021		Water	S21-Ap13219											X					
63	TP01 - 0.2-0.3	Apr 08, 2021		Soil	S21-Ap13220					X											
64	TP01 - 0.5-0.6	Apr 08, 2021		Soil	S21-Ap13221					X											
65	TP02 - 0.1-0.4	Apr 08, 2021		Soil	S21-Ap13222					X											
66	TP02 - 0.4-0.5	Apr 08, 2021		Soil	S21-Ap13223					X											
67	TP03 - 0.2-0.3	Apr 08, 2021		Soil	S21-Ap13224					X											
68	TP03 - 0.4-0.5	Apr 08, 2021		Soil	S21-Ap13225					X											
69	TP03 - 0.2-0.5	Apr 08, 2021		Soil	S21-Ap13226					X											
70	TP03 - 0.9-1	Apr 08, 2021		Soil	S21-Ap13227					X											
71	TP04 - 0.2-0.3	Apr 08, 2021		Soil	S21-Ap13228					X											
72	TP04 - 0.4-0.5	Apr 08, 2021		Soil	S21-Ap13229					X											

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Melbourne Laboratory - NATA Site # 1254 & 14271												X									
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
73	TP05 - 0.4-0.5	Apr 08, 2021		Soil	S21-Ap13230					X											
74	TP06 - 0.3-0.4	Apr 08, 2021		Soil	S21-Ap13231					X											
75	TP07 - 0.4-0.5	Apr 08, 2021		Soil	S21-Ap13232					X											
76	TP08 - 0.4-0.5	Apr 08, 2021		Soil	S21-Ap13233					X											
77	TP09 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13234		X														
78	TP09 - 0.9-1	Apr 08, 2021		Soil	S21-Ap13235					X											
79	TP10 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13236					X											
80	TP10 - 0.9-1	Apr 08, 2021		Soil	S21-Ap13237					X											
81	TP11 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13238					X											
82	TP11 - 0.4-0.5	Apr 08, 2021		Soil	S21-Ap13239					X											
83	TP12 - 0.2-0.3	Apr 08, 2021		Soil	S21-Ap13240					X											

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
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Sydney
Unit F3, Building F
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Lane Cove West NSW 2066
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New Zealand

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Project Name: 251 ALDING ROAD
Project ID: 60716

Order No.:
Report #: 786097
Phone: 02 8245 0300
Fax:

Received: Apr 9, 2021 2:48 PM
Due: Apr 13, 2021
Priority: 2 Day
Contact Name: Matthew Linz

Eurofins Analytical Services Manager : Ursula Long

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Melbourne Laboratory - NATA Site # 1254 & 14271												X									
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
84	TP13 - 0.3-0.4	Apr 08, 2021		Soil	S21-Ap13241					X											
85	TP14 - 0.2-0.3	Apr 08, 2021		Soil	S21-Ap13242					X											
86	TP15 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13243					X											
87	TP15 - 0.5-0.6	Apr 08, 2021		Soil	S21-Ap13244					X											
88	TP16 - 0.3-0.4	Apr 08, 2021		Soil	S21-Ap13245					X											
89	TP17 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13246					X											
90	TP17 - 0.2-0.3	Apr 08, 2021		Soil	S21-Ap13247					X											
91	TP19 - 0-0.2	Apr 08, 2021		Soil	S21-Ap13248					X											
92	TP19 - 0.3-0.4	Apr 08, 2021		Soil	S21-Ap13249					X											
93	TP20 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13250					X											
94	TP20 - 0-0.2	Apr 08, 2021		Soil	S21-Ap13251					X											

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New Zealand

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Melbourne Laboratory - NATA Site # 1254 & 14271												X									
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
95	TP20 - 0.3-0.4	Apr 08, 2021		Soil	S21-Ap13252					X											
96	TP21 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13253					X											
97	TP21 - 0-0.2	Apr 08, 2021		Soil	S21-Ap13254					X											
98	TP21 - 0.3-0.4	Apr 08, 2021		Soil	S21-Ap13255					X											
99	TP22 - 0-0.2	Apr 08, 2021		Soil	S21-Ap13256		X														
100	TP22 - 0.3-0.4	Apr 08, 2021		Soil	S21-Ap13257					X											
101	TP23 - 0.3-0.4	Apr 08, 2021		Soil	S21-Ap13258					X											
102	TP24 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13259					X											
103	TP24 - 0-0.2	Apr 08, 2021		Soil	S21-Ap13260					X											
104	TP24 - 0.3-0.4	Apr 08, 2021		Soil	S21-Ap13261					X											
105	TP18 - 0.3-0.4	Apr 08, 2021		Soil	S21-Ap13262					X											

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Melbourne Laboratory - NATA Site # 1254 & 14271												X									
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
106	TP25 - 0.3-0.4	Apr 08, 2021		Soil	S21-Ap13263					X											
107	TP26 - 0.3-0.4	Apr 08, 2021		Soil	S21-Ap13264					X											
108	TP27 - 0.3-0.4	Apr 08, 2021		Soil	S21-Ap13265					X											
109	TP28 - 0.3-0.4	Apr 08, 2021		Soil	S21-Ap13266					X											
110	TP29 - 0.3-0.4	Apr 08, 2021		Soil	S21-Ap13267					X											
111	TP31 - 0-0.1	Apr 09, 2021		Soil	S21-Ap13268					X											
112	TP31 - 0-0.2	Apr 09, 2021		Soil	S21-Ap13269					X											
113	TP31 - 0.3-0.4	Apr 09, 2021		Soil	S21-Ap13270					X											
114	TP32 - 0-0.1	Apr 09, 2021		Soil	S21-Ap13271					X											
115	TP32 - 0-0.2	Apr 09, 2021		Soil	S21-Ap13272					X											
116	TP32 - 0.3-0.4	Apr 09, 2021		Soil	S21-Ap13273					X											

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Melbourne Laboratory - NATA Site # 1254 & 14271												X									
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
117	TP33 - 0-0.1	Apr 09, 2021		Soil	S21-Ap13274					X											
118	TP33 - 0-0.2	Apr 09, 2021		Soil	S21-Ap13275					X											
119	TP33 - 0.3-0.4	Apr 09, 2021		Soil	S21-Ap13276					X											
120	TP34 - 0.3-0.4	Apr 09, 2021		Soil	S21-Ap13277					X											
121	TP35 - 0.3-0.4	Apr 09, 2021		Soil	S21-Ap13278					X											
122	TP37 - 0.3-0.4	Apr 09, 2021		Soil	S21-Ap13279					X											
123	TP38 - 0.3-0.4	Apr 09, 2021		Soil	S21-Ap13280					X											
124	TP39 - 0-0.1	Apr 09, 2021		Soil	S21-Ap13281					X											
125	TP39 - 0-0.2	Apr 09, 2021		Soil	S21-Ap13282					X											
126	TP39 - 0.3-0.4	Apr 09, 2021		Soil	S21-Ap13283					X											
127	TP40 - 0-0.1	Apr 09, 2021		Soil	S21-Ap13284					X											

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Melbourne Laboratory - NATA Site # 1254 & 14271												X									
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
128	TP40 - 0-0.2	Apr 09, 2021		Soil	S21-Ap13285					X											
129	TP40 - 0.3-0.4	Apr 09, 2021		Soil	S21-Ap13286					X											
130	TP41 - 0-0.1	Apr 09, 2021		Soil	S21-Ap13287					X											
131	TP41 - 0-0.2	Apr 09, 2021		Soil	S21-Ap13288					X											
132	TP41 - 0.3-0.4	Apr 09, 2021		Soil	S21-Ap13289					X											
133	TP42 - 0-0.1	Apr 09, 2021		Soil	S21-Ap13290					X											
134	TP42 - 0-0.2	Apr 09, 2021		Soil	S21-Ap13291					X											
135	TP42 - 0.3-0.4	Apr 09, 2021		Soil	S21-Ap13292					X											
136	TP43 - 0.3-0.4	Apr 09, 2021		Soil	S21-Ap13293					X											
137	TP44 - 0.3-0.4	Apr 09, 2021		Soil	S21-Ap13294					X											
138	TP45 - 0-0.2	Apr 09, 2021		Soil	S21-Ap13295					X											

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Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
139	TP45 - 0.3-0.4	Apr 09, 2021		Soil	S21-Ap13296					X											
140	TP30 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13297					X											
141	TP30 - 0-0.2	Apr 08, 2021		Soil	S21-Ap13298					X											
142	TP30 - 0.3-0.4	Apr 08, 2021		Soil	S21-Ap13299					X											
143	QA202104-08-03	Apr 09, 2021		Soil	S21-Ap13300					X											
Test Counts						2	33	1	1	80	2	2	16	2	17	1	36	4	1	15	1

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.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

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 and 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.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
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 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

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, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene 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 Aroclor 1260 in Matrix Spikes and LCS.
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 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 - 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 >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	
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	< 0.1			0.1	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.5			0.5	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	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							
Total Organic Carbon	%	< 0.1			0.1	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 - 1999 NEPM Fractions							
TRH C6-C9	%	86			70-130	Pass	
TRH C10-C14	%	72			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	97			70-130	Pass	
Toluene	%	99			70-130	Pass	
Ethylbenzene	%	91			70-130	Pass	
m&p-Xylenes	%	92			70-130	Pass	
o-Xylene	%	89			70-130	Pass	
Xylenes - Total*	%	91			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	124			70-130	Pass	
TRH C6-C10	%	83			70-130	Pass	
TRH >C10-C16	%	73			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	110			70-130	Pass	
Acenaphthylene	%	104			70-130	Pass	
Anthracene	%	130			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Benz(a)anthracene	%	117			70-130	Pass	
Benzo(a)pyrene	%	118			70-130	Pass	
Benzo(b&j)fluoranthene	%	122			70-130	Pass	
Benzo(g.h.i)perylene	%	123			70-130	Pass	
Benzo(k)fluoranthene	%	95			70-130	Pass	
Chrysene	%	108			70-130	Pass	
Dibenz(a.h)anthracene	%	125			70-130	Pass	
Fluoranthene	%	102			70-130	Pass	
Fluorene	%	110			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	121			70-130	Pass	
Naphthalene	%	106			70-130	Pass	
Phenanthrene	%	105			70-130	Pass	
Pyrene	%	103			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	91			70-130	Pass	
4.4'-DDD	%	87			70-130	Pass	
4.4'-DDE	%	98			70-130	Pass	
4.4'-DDT	%	107			70-130	Pass	
a-BHC	%	81			70-130	Pass	
Aldrin	%	94			70-130	Pass	
b-BHC	%	84			70-130	Pass	
d-BHC	%	85			70-130	Pass	
Dieldrin	%	88			70-130	Pass	
Endosulfan I	%	83			70-130	Pass	
Endosulfan II	%	85			70-130	Pass	
Endosulfan sulphate	%	89			70-130	Pass	
Endrin	%	106			70-130	Pass	
Endrin aldehyde	%	97			70-130	Pass	
Endrin ketone	%	82			70-130	Pass	
g-BHC (Lindane)	%	91			70-130	Pass	
Heptachlor	%	83			70-130	Pass	
Heptachlor epoxide	%	89			70-130	Pass	
Hexachlorobenzene	%	81			70-130	Pass	
Methoxychlor	%	102			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1016	%	83			70-130	Pass	
Aroclor-1260	%	95			70-130	Pass	
LCS - % Recovery							
Total Organic Carbon	%	100			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	90			80-120	Pass	
Cadmium	%	93			80-120	Pass	
Chromium	%	101			80-120	Pass	
Copper	%	99			80-120	Pass	
Lead	%	99			80-120	Pass	
Mercury	%	110			80-120	Pass	
Nickel	%	102			80-120	Pass	
Zinc	%	93			80-120	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 C10-C14	S21-Ap15000	NCP	%	82			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH >C10-C16	S21-Ap15000	NCP	%	79			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S21-Ap13164	CP	%	94			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S21-Ap13164	CP	%	107			70-130	Pass	
Toluene	S21-Ap13164	CP	%	109			70-130	Pass	
Ethylbenzene	S21-Ap13164	CP	%	111			70-130	Pass	
m&p-Xylenes	S21-Ap13164	CP	%	114			70-130	Pass	
o-Xylene	S21-Ap13164	CP	%	112			70-130	Pass	
Xylenes - Total*	S21-Ap13164	CP	%	113			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S21-Ap13164	CP	%	119			70-130	Pass	
TRH C6-C10	S21-Ap13164	CP	%	92			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S21-Ap13164	CP	%	96			70-130	Pass	
4.4'-DDD	S21-Ap13164	CP	%	95			70-130	Pass	
4.4'-DDE	S21-Ap13164	CP	%	102			70-130	Pass	
4.4'-DDT	S21-Ap13164	CP	%	97			70-130	Pass	
a-BHC	S21-Ap13164	CP	%	84			70-130	Pass	
Aldrin	S21-Ap13164	CP	%	97			70-130	Pass	
b-BHC	S21-Ap13164	CP	%	81			70-130	Pass	
d-BHC	S21-Ap13164	CP	%	88			70-130	Pass	
Dieldrin	S21-Ap13164	CP	%	96			70-130	Pass	
Endosulfan I	S21-Ap13164	CP	%	90			70-130	Pass	
Endosulfan II	S21-Ap13164	CP	%	97			70-130	Pass	
Endosulfan sulphate	S21-Ap13164	CP	%	93			70-130	Pass	
Endrin	S21-Ap13164	CP	%	99			70-130	Pass	
Endrin aldehyde	S21-Ap13164	CP	%	117			70-130	Pass	
Endrin ketone	S21-Ap13164	CP	%	87			70-130	Pass	
g-BHC (Lindane)	S21-Ap13164	CP	%	95			70-130	Pass	
Heptachlor	S21-Ap13164	CP	%	75			70-130	Pass	
Heptachlor epoxide	S21-Ap13164	CP	%	92			70-130	Pass	
Hexachlorobenzene	S21-Ap13164	CP	%	86			70-130	Pass	
Methoxychlor	S21-Ap13164	CP	%	93			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1016	S21-Ap13164	CP	%	87			70-130	Pass	
Aroclor-1260	S21-Ap13164	CP	%	101			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Mercury	S21-Ap13177	CP	%	117			75-125	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C10-C14	S21-Ap13188	CP	%	82			70-130	Pass	
Spike - % Recovery									

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH >C10-C16	S21-Ap13188	CP	%	80			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S21-Ap03628	NCP	%	119			70-130	Pass	
Acenaphthylene	S21-Ap03628	NCP	%	127			70-130	Pass	
Anthracene	S21-Ap03628	NCP	%	124			70-130	Pass	
Benz(a)anthracene	S21-Ap03981	NCP	%	105			70-130	Pass	
Benzo(a)pyrene	S21-Ap03981	NCP	%	107			70-130	Pass	
Benzo(b&j)fluoranthene	S21-Ap03981	NCP	%	107			70-130	Pass	
Benzo(g.h.i)perylene	S21-Ap03981	NCP	%	105			70-130	Pass	
Benzo(k)fluoranthene	S21-Ap03981	NCP	%	114			70-130	Pass	
Chrysene	S21-Ap03981	NCP	%	121			70-130	Pass	
Dibenz(a.h)anthracene	S21-Ap03981	NCP	%	115			70-130	Pass	
Fluoranthene	S21-Ap03981	NCP	%	124			70-130	Pass	
Fluorene	S21-Ap03628	NCP	%	130			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S21-Ap03981	NCP	%	113			70-130	Pass	
Naphthalene	S21-Ap03981	NCP	%	127			70-130	Pass	
Phenanthrene	S21-Ap03981	NCP	%	114			70-130	Pass	
Pyrene	S21-Ap03981	NCP	%	119			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S21-Ap03361	NCP	%	122			70-130	Pass	
4.4'-DDE	S21-Ap03361	NCP	%	123			70-130	Pass	
4.4'-DDT	S21-Ap03361	NCP	%	109			70-130	Pass	
a-BHC	S21-Ap03361	NCP	%	115			70-130	Pass	
Aldrin	S21-Ap03361	NCP	%	118			70-130	Pass	
b-BHC	S21-Ap03361	NCP	%	121			70-130	Pass	
d-BHC	S21-Ap03361	NCP	%	117			70-130	Pass	
Dieldrin	S21-Ap03361	NCP	%	115			70-130	Pass	
Endosulfan I	S21-Ap03361	NCP	%	129			70-130	Pass	
Endosulfan II	S21-Ap03361	NCP	%	116			70-130	Pass	
Endosulfan sulphate	S21-Ap03361	NCP	%	91			70-130	Pass	
Endrin	S21-Ap03361	NCP	%	124			70-130	Pass	
Endrin aldehyde	S21-Ap03361	NCP	%	94			70-130	Pass	
Endrin ketone	S21-Ap03361	NCP	%	85			70-130	Pass	
Hexachlorobenzene	S21-Ap03361	NCP	%	115			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1016	S21-Ap03361	NCP	%	113			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S21-Ap13208	CP	%	84			75-125	Pass	
Cadmium	S21-Ap13208	CP	%	105			75-125	Pass	
Chromium	S21-Ap13208	CP	%	96			75-125	Pass	
Copper	S21-Ap13208	CP	%	95			75-125	Pass	
Lead	S21-Ap13208	CP	%	104			75-125	Pass	
Mercury	S21-Ap13208	CP	%	113			75-125	Pass	
Nickel	S21-Ap13208	CP	%	101			75-125	Pass	
Zinc	S21-Ap13208	CP	%	79			75-125	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
4.4'-DDD	S21-Ap03655	NCP	%	78			70-130	Pass	
g-BHC (Lindane)	S21-Ap03655	NCP	%	85			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Heptachlor	S21-Ap03655	NCP	%	80			70-130	Pass	
Heptachlor epoxide	S21-Ap03655	NCP	%	88			70-130	Pass	
Methoxychlor	S21-Ap05737	NCP	%	76			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1260	S21-Ap11895	NCP	%	77			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	S21-Ap12755	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S21-Ap06084	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S21-Ap06084	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S21-Ap06084	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S21-Ap12755	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S21-Ap12755	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S21-Ap12755	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S21-Ap12755	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S21-Ap12755	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S21-Ap12755	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S21-Ap12755	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S21-Ap12755	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S21-Ap06084	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S21-Ap06084	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S21-Ap06084	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S21-Ap12755	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S21-Ap12755	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S21-Ap12755	CP	mg/kg	0.5	< 0.5	32	30%	Fail	Q15
Benz(a)anthracene	S21-Ap12755	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S21-Ap12755	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S21-Ap12755	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S21-Ap12755	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S21-Ap12755	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S21-Ap12755	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S21-Ap12755	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S21-Ap12755	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S21-Ap12755	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S21-Ap12755	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S21-Ap12755	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S21-Ap12755	CP	mg/kg	0.5	< 0.5	30	30%	Pass	
Pyrene	S21-Ap12755	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S21-Ap12755	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S21-Ap12755	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S21-Ap12755	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S21-Ap12755	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-BHC	S21-Ap12755	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S21-Ap12755	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	

Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
b-BHC	S21-Ap12755	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-BHC	S21-Ap12755	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S21-Ap12755	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S21-Ap12755	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S21-Ap12755	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S21-Ap12755	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S21-Ap12755	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S21-Ap12755	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S21-Ap12755	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	S21-Ap12755	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S21-Ap12755	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S21-Ap12755	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S21-Ap12755	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S21-Ap12755	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
pH (1:5 Aqueous extract at 25°C as rec.)	S21-Ap12755	CP	pH Units	7.2	7.7	Pass	30%	Pass	
Total Organic Carbon	S21-Ap03413	NCP	%	< 0.1	< 0.1	<1	30%	Pass	
% Moisture	S21-Ap12755	CP	%	5.7	7.0	21	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-Ap13172	CP	%	12	9.9	16	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-Ap13172	CP	mg/kg	18	25	30	30%	Pass	
Cadmium	S21-Ap13172	CP	mg/kg	< 0.4	0.5	58	30%	Fail	Q15
Chromium	S21-Ap13172	CP	mg/kg	21	26	20	30%	Pass	
Lead	S21-Ap13172	CP	mg/kg	37	53	35	30%	Fail	Q15
Mercury	S21-Ap13172	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S21-Ap13172	CP	mg/kg	20	20	<1	30%	Pass	
Zinc	S21-Ap13172	CP	mg/kg	97	100	6.0	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-Ap13188	CP	%	16	19	17	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-Ap13188	CP	mg/kg	15	15	3.0	30%	Pass	
Cadmium	S21-Ap13188	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S21-Ap13188	CP	mg/kg	18	20	7.0	30%	Pass	
Copper	S21-Ap13188	CP	mg/kg	24	26	6.0	30%	Pass	
Lead	S21-Ap13188	CP	mg/kg	19	18	1.0	30%	Pass	
Mercury	S21-Ap13188	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S21-Ap13188	CP	mg/kg	13	13	2.0	30%	Pass	
Zinc	S21-Ap13188	CP	mg/kg	55	59	7.0	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-Ap13206	CP	%	20	20	2.0	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-Ap13206	CP	mg/kg	14	13	8.0	30%	Pass	
Cadmium	S21-Ap13206	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S21-Ap13206	CP	mg/kg	22	22	3.0	30%	Pass	
Copper	S21-Ap13206	CP	mg/kg	44	43	1.0	30%	Pass	

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Lead	S21-Ap13206	CP	mg/kg	29	27	7.0	30%	Pass	
Mercury	S21-Ap13206	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S21-Ap13206	CP	mg/kg	17	15	7.0	30%	Pass	
Zinc	S21-Ap13206	CP	mg/kg	80	86	8.0	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S21-Ap13208	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S21-Ap13208	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S21-Ap13208	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S21-Ap13208	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S21-Ap13208	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S21-Ap13208	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S21-Ap13208	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S21-Ap13208	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S21-Ap13208	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S21-Ap13208	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S21-Ap13208	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Fluorene	S21-Ap13208	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S21-Ap13208	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S21-Ap13208	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S21-Ap13208	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S21-Ap13208	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S21-Ap13208	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S21-Ap13208	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S21-Ap13208	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S21-Ap13208	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-BHC	S21-Ap13208	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S21-Ap13208	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	S21-Ap13208	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-BHC	S21-Ap13208	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S21-Ap13208	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S21-Ap13208	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S21-Ap13208	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S21-Ap13208	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S21-Ap13208	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S21-Ap13208	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S21-Ap13208	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	S21-Ap13208	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S21-Ap13208	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S21-Ap13208	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S21-Ap13208	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S21-Ap13208	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	S21-Ap13208	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1221	S21-Ap13208	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	S21-Ap13208	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1242	S21-Ap13208	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1248	S21-Ap13208	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1254	S21-Ap13208	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1260	S21-Ap13208	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Total PCB*	S21-Ap13208	CP	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
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
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)
Charl Du Preez	Senior Analyst-Inorganic (NSW)
John Nguyen	Senior Analyst-Metal (NSW)
Jonathon Angell	Senior Analyst-Inorganic (QLD)
Scott Beddoes	Senior Analyst-Inorganic (VIC)

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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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 and proficiency testing scheme providers reports.

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention:	Matthew Linz
Report	786097-AID
Project Name	251 ALDING ROAD
Project ID	60716
Received Date	Apr 09, 2021
Date Reported	Apr 14, 2021

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.*

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 and proficiency testing scheme providers reports.

Project Name 251 ALDING ROAD
Project ID 60716
Date Sampled Apr 08, 2021 to Apr 09, 2021
Report 786097-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
TP01 - 0-0.6	21-Ap13159	Apr 08, 2021	Approximate Sample 747g Sample consisted of: Brown coarse-grained soil, coal and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP02 - 0-0.1	21-Ap13161	Apr 08, 2021	Approximate Sample 469g 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.
TP03 - 0-0.1	21-Ap13163	Apr 08, 2021	Approximate Sample 486g 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.
TP04 - 0-0.1	21-Ap13164	Apr 08, 2021	Approximate Sample 422g 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.
QA202104-08-01	21-Ap13165	Apr 08, 2021	Approximate Sample 387g 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.
TP05 - 0-0.4	21-Ap13167	Apr 08, 2021	Approximate Sample 360g 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.
TP06 - 0-0.1	21-Ap13168	Apr 08, 2021	Approximate Sample 458g 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.
TP07 - 0-0.3	21-Ap13170	Apr 08, 2021	Approximate Sample 532g 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.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
TP08 - 0-0.1	21-Ap13171	Apr 08, 2021	Approximate Sample 335g 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.
TP09 - 0.4-0.5	21-Ap13174	Apr 08, 2021	Approximate Sample 630g 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.
TP09 - FRAG01	21-Ap13175	Apr 08, 2021	Approximate Sample 302g Sample consisted of: Grey compressed fibre cement material	Chrysotile and amosite asbestos detected.
TP10 - 0-0.8	21-Ap13176	Apr 08, 2021	Approximate Sample 527g 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.
TP11 - 0-0.3	21-Ap13178	Apr 08, 2021	Approximate Sample 341g 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.
TP13 - 0-0.1	21-Ap13181	Apr 08, 2021	Approximate Sample 438g 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.
TP14 - 0-0.1	21-Ap13182	Apr 08, 2021	Approximate Sample 525g 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.
TP15 - 0.1-0.4	21-Ap13184	Apr 08, 2021	Approximate Sample 467g 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.
TP16 - 0-0.1	21-Ap13185	Apr 08, 2021	Approximate Sample 540g 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.
TP23 - 0-0.2	21-Ap13189	Apr 08, 2021	Approximate Sample 435g 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.
TP18 - 0-0.1	21-Ap13190	Apr 08, 2021	Approximate Sample 438g 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.
QA202104-08-02	21-Ap13191	Apr 08, 2021	Approximate Sample 560g 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.
TP25 - 0-0.2	21-Ap13193	Apr 08, 2021	Approximate Sample 421g 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.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
TP26 - 0-0.2	21-Ap13195	Apr 08, 2021	Approximate Sample 491g 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.
TP27 - 0-0.2	21-Ap13197	Apr 08, 2021	Approximate Sample 417g 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.
TP28 - 0-0.2	21-Ap13199	Apr 08, 2021	Approximate Sample 405g 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.
TP29 - 0-0.2	21-Ap13201	Apr 08, 2021	Approximate Sample 496g 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.
TP34 - 0-0.2	21-Ap13203	Apr 09, 2021	Approximate Sample 711g 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.
TP35 - 0-0.2	21-Ap13205	Apr 09, 2021	Approximate Sample 482g 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.
TP36 - 0-0.1	21-Ap13206	Apr 09, 2021	Approximate Sample 495g 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.
TP37 - 0-0.2	21-Ap13209	Apr 09, 2021	Approximate Sample 444g 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.
TP38 - 0-0.2	21-Ap13211	Apr 09, 2021	Approximate Sample 457g 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.
TP43 - 0-0.2	21-Ap13213	Apr 09, 2021	Approximate Sample 422g 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.
TP44 - 0-0.2	21-Ap13215	Apr 09, 2021	Approximate Sample 571g 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.
TP09 - 0-0.1	21-Ap13234	Apr 08, 2021	Approximate Sample 717g 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.
TP22 - 0-0.2	21-Ap13256	Apr 08, 2021	Approximate Sample 385g 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 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.

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	Apr 09, 2021	Indefinite
Asbestos - LTM-ASB-8020	Sydney	Apr 09, 2021	Indefinite

eurofins | Environment Testing

ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
2/91 Leach Highway
Kewdale WA 6105
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: 251 ALDING ROAD
Project ID: 60716

Order No.:
Report #: 786097
Phone: 02 8245 0300
Fax:

Received: Apr 9, 2021 2:48 PM
Due: Apr 13, 2021
Priority: 2 Day
Contact Name: Matthew Linz

Eurofins Analytical Services Manager : Ursula Long

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Melbourne Laboratory - NATA Site # 1254 & 14271												X									
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**																
1	TP01 - 0-0.1	Apr 08, 2021		Soil	S21-Ap12755	X					X	X					X			X	
2	TP01 - 1-1.1	Apr 08, 2021		Soil	S21-Ap12756	X					X	X			X		X				
3	TP01 - 0-0.6	Apr 08, 2021		Soil	S21-Ap13159		X														
4	TP02 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13161		X														
5	TP02 - 0.2-0.3	Apr 08, 2021		Soil	S21-Ap13162								X		X		X				
6	TP03 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13163		X						X		X		X				
7	TP04 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13164		X										X			X	
8	QA202104-08-01	Apr 08, 2021		Soil	S21-Ap13165		X										X			X	

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
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Brisbane
1/21 Smallwood Place
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Phone : +61 7 3902 4600
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Perth
2/91 Leach Highway
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Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
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New Zealand

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: 251 ALDING ROAD
Project ID: 60716

Order No.:
Report #: 786097
Phone: 02 8245 0300
Fax:

Received: Apr 9, 2021 2:48 PM
Due: Apr 13, 2021
Priority: 2 Day
Contact Name: Matthew Linz

Eurofins Analytical Services Manager : Ursula Long

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Melbourne Laboratory - NATA Site # 1254 & 14271												X									
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
9	TP05 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13166								X		X		X				
10	TP05 - 0-0.4	Apr 08, 2021		Soil	S21-Ap13167		X														
11	TP06 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13168		X										X			X	
12	TP07 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13169								X		X		X				
13	TP07 - 0-0.3	Apr 08, 2021		Soil	S21-Ap13170		X														
14	TP08 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13171		X						X		X		X				
15	TP09 - 0.2-0.3	Apr 08, 2021		Soil	S21-Ap13172									X			X	X			
16	TP09 - 0-0.3	Apr 08, 2021		Soil	S21-Ap13173				X												
17	TP09 - 0.4-0.5	Apr 08, 2021		Soil	S21-Ap13174		X														
18	TP09 - FRAG01	Apr 08, 2021		Building Materials	S21-Ap13175			X													

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Australia

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Unit F3, Building F
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Newcastle
4/52 Industrial Drive
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New Zealand

Auckland
35 O'Rorke Road
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IANZ # 1327

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Melbourne Laboratory - NATA Site # 1254 & 14271												X									
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
19	TP10 - 0-0.8	Apr 08, 2021		Soil	S21-Ap13176		X														
20	TP10 - 0.3-0.4	Apr 08, 2021		Soil	S21-Ap13177									X			X	X			
21	TP11 - 0-0.3	Apr 08, 2021		Soil	S21-Ap13178		X														
22	TP11 - 0.2-0.3	Apr 08, 2021		Soil	S21-Ap13179								X		X		X				
23	TP12 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13180												X			X	
24	TP13 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13181		X										X	X			
25	TP14 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13182		X										X	X			
26	TP15 - 0.2-0.3	Apr 08, 2021		Soil	S21-Ap13183												X			X	
27	TP15 - 0.1-0.4	Apr 08, 2021		Soil	S21-Ap13184		X														
28	TP16 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13185		X						X		X		X				
29	TP19 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13186								X		X		X				

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Melbourne Laboratory - NATA Site # 1254 & 14271												X									
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
30	TP22 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13187												X			X	
31	TP23 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13188												X			X	
32	TP23 - 0-0.2	Apr 08, 2021		Soil	S21-Ap13189		X														
33	TP18 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13190		X						X		X		X				
34	QA202104-08-02	Apr 08, 2021		Soil	S21-Ap13191		X						X		X		X				
35	TP25 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13192								X		X		X				
36	TP25 - 0-0.2	Apr 08, 2021		Soil	S21-Ap13193		X														
37	TP26 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13194												X			X	
38	TP26 - 0-0.2	Apr 08, 2021		Soil	S21-Ap13195		X														
39	TP27 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13196								X		X		X				

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Melbourne Laboratory - NATA Site # 1254 & 14271												X									
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
40	TP27 - 0-0.2	Apr 08, 2021		Soil	S21-Ap13197		X														
41	TP28 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13198												X			X	
42	TP28 - 0-0.2	Apr 08, 2021		Soil	S21-Ap13199		X														
43	TP29 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13200								X		X		X				
44	TP29 - 0-0.2	Apr 08, 2021		Soil	S21-Ap13201		X														
45	TP34 - 0-0.1	Apr 09, 2021		Soil	S21-Ap13202								X		X		X				
46	TP34 - 0-0.2	Apr 09, 2021		Soil	S21-Ap13203		X														
47	TP35 - 0-0.1	Apr 09, 2021		Soil	S21-Ap13204												X			X	
48	TP35 - 0-0.2	Apr 09, 2021		Soil	S21-Ap13205		X														
49	TP36 - 0-0.1	Apr 09, 2021		Soil	S21-Ap13206		X										X			X	
50	TP36 - 0.3-0.4	Apr 09, 2021		Soil	S21-Ap13207					X											

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Australia

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Site # 1254 & 14271

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Melbourne Laboratory - NATA Site # 1254 & 14271												X									
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
51	TP37 - 0-0.1	Apr 09, 2021		Soil	S21-Ap13208												X			X	
52	TP37 - 0-0.2	Apr 09, 2021		Soil	S21-Ap13209		X														
53	TP38 - 0-0.1	Apr 09, 2021		Soil	S21-Ap13210								X		X		X				
54	TP38 - 0-0.2	Apr 09, 2021		Soil	S21-Ap13211		X														
55	TP43 - 0-0.1	Apr 09, 2021		Soil	S21-Ap13212												X			X	
56	TP43 - 0-0.2	Apr 09, 2021		Soil	S21-Ap13213		X														
57	TP44 - 0-0.1	Apr 09, 2021		Soil	S21-Ap13214								X		X		X				
58	TP44 - 0-0.2	Apr 09, 2021		Soil	S21-Ap13215		X														
59	TP45 - 0-0.1	Apr 09, 2021		Soil	S21-Ap13216												X			X	
60	RINSATE	Apr 09, 2021		Water	S21-Ap13217																X
61	TS	Apr 08, 2021		Water	S21-Ap13218														X		

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Melbourne Laboratory - NATA Site # 1254 & 14271												X									
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
62	TB	Apr 08, 2021		Water	S21-Ap13219											X					
63	TP01 - 0.2-0.3	Apr 08, 2021		Soil	S21-Ap13220					X											
64	TP01 - 0.5-0.6	Apr 08, 2021		Soil	S21-Ap13221					X											
65	TP02 - 0.1-0.4	Apr 08, 2021		Soil	S21-Ap13222					X											
66	TP02 - 0.4-0.5	Apr 08, 2021		Soil	S21-Ap13223					X											
67	TP03 - 0.2-0.3	Apr 08, 2021		Soil	S21-Ap13224					X											
68	TP03 - 0.4-0.5	Apr 08, 2021		Soil	S21-Ap13225					X											
69	TP03 - 0.2-0.5	Apr 08, 2021		Soil	S21-Ap13226					X											
70	TP03 - 0.9-1	Apr 08, 2021		Soil	S21-Ap13227					X											
71	TP04 - 0.2-0.3	Apr 08, 2021		Soil	S21-Ap13228					X											
72	TP04 - 0.4-0.5	Apr 08, 2021		Soil	S21-Ap13229					X											

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Melbourne Laboratory - NATA Site # 1254 & 14271												X									
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
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External Laboratory																					
73	TP05 - 0.4-0.5	Apr 08, 2021		Soil	S21-Ap13230					X											
74	TP06 - 0.3-0.4	Apr 08, 2021		Soil	S21-Ap13231					X											
75	TP07 - 0.4-0.5	Apr 08, 2021		Soil	S21-Ap13232					X											
76	TP08 - 0.4-0.5	Apr 08, 2021		Soil	S21-Ap13233					X											
77	TP09 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13234		X														
78	TP09 - 0.9-1	Apr 08, 2021		Soil	S21-Ap13235					X											
79	TP10 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13236					X											
80	TP10 - 0.9-1	Apr 08, 2021		Soil	S21-Ap13237					X											
81	TP11 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13238					X											
82	TP11 - 0.4-0.5	Apr 08, 2021		Soil	S21-Ap13239					X											
83	TP12 - 0.2-0.3	Apr 08, 2021		Soil	S21-Ap13240					X											

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
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NATA # 1261
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Sydney
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Project ID: 60716

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Phone: 02 8245 0300
Fax:

Received: Apr 9, 2021 2:48 PM
Due: Apr 13, 2021
Priority: 2 Day
Contact Name: Matthew Linz

Eurofins Analytical Services Manager : Ursula Long

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Melbourne Laboratory - NATA Site # 1254 & 14271												X									
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
84	TP13 - 0.3-0.4	Apr 08, 2021		Soil	S21-Ap13241					X											
85	TP14 - 0.2-0.3	Apr 08, 2021		Soil	S21-Ap13242					X											
86	TP15 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13243					X											
87	TP15 - 0.5-0.6	Apr 08, 2021		Soil	S21-Ap13244					X											
88	TP16 - 0.3-0.4	Apr 08, 2021		Soil	S21-Ap13245					X											
89	TP17 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13246					X											
90	TP17 - 0.2-0.3	Apr 08, 2021		Soil	S21-Ap13247					X											
91	TP19 - 0-0.2	Apr 08, 2021		Soil	S21-Ap13248					X											
92	TP19 - 0.3-0.4	Apr 08, 2021		Soil	S21-Ap13249					X											
93	TP20 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13250					X											
94	TP20 - 0-0.2	Apr 08, 2021		Soil	S21-Ap13251					X											

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Melbourne Laboratory - NATA Site # 1254 & 14271												X									
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
95	TP20 - 0.3-0.4	Apr 08, 2021		Soil	S21-Ap13252					X											
96	TP21 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13253					X											
97	TP21 - 0-0.2	Apr 08, 2021		Soil	S21-Ap13254					X											
98	TP21 - 0.3-0.4	Apr 08, 2021		Soil	S21-Ap13255					X											
99	TP22 - 0-0.2	Apr 08, 2021		Soil	S21-Ap13256		X														
100	TP22 - 0.3-0.4	Apr 08, 2021		Soil	S21-Ap13257					X											
101	TP23 - 0.3-0.4	Apr 08, 2021		Soil	S21-Ap13258					X											
102	TP24 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13259					X											
103	TP24 - 0-0.2	Apr 08, 2021		Soil	S21-Ap13260					X											
104	TP24 - 0.3-0.4	Apr 08, 2021		Soil	S21-Ap13261					X											
105	TP18 - 0.3-0.4	Apr 08, 2021		Soil	S21-Ap13262					X											

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Melbourne Laboratory - NATA Site # 1254 & 14271												X									
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
106	TP25 - 0.3-0.4	Apr 08, 2021		Soil	S21-Ap13263					X											
107	TP26 - 0.3-0.4	Apr 08, 2021		Soil	S21-Ap13264					X											
108	TP27 - 0.3-0.4	Apr 08, 2021		Soil	S21-Ap13265					X											
109	TP28 - 0.3-0.4	Apr 08, 2021		Soil	S21-Ap13266					X											
110	TP29 - 0.3-0.4	Apr 08, 2021		Soil	S21-Ap13267					X											
111	TP31 - 0-0.1	Apr 09, 2021		Soil	S21-Ap13268					X											
112	TP31 - 0-0.2	Apr 09, 2021		Soil	S21-Ap13269					X											
113	TP31 - 0.3-0.4	Apr 09, 2021		Soil	S21-Ap13270					X											
114	TP32 - 0-0.1	Apr 09, 2021		Soil	S21-Ap13271					X											
115	TP32 - 0-0.2	Apr 09, 2021		Soil	S21-Ap13272					X											
116	TP32 - 0.3-0.4	Apr 09, 2021		Soil	S21-Ap13273					X											

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Melbourne Laboratory - NATA Site # 1254 & 14271												X									
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
117	TP33 - 0-0.1	Apr 09, 2021		Soil	S21-Ap13274					X											
118	TP33 - 0-0.2	Apr 09, 2021		Soil	S21-Ap13275					X											
119	TP33 - 0.3-0.4	Apr 09, 2021		Soil	S21-Ap13276					X											
120	TP34 - 0.3-0.4	Apr 09, 2021		Soil	S21-Ap13277					X											
121	TP35 - 0.3-0.4	Apr 09, 2021		Soil	S21-Ap13278					X											
122	TP37 - 0.3-0.4	Apr 09, 2021		Soil	S21-Ap13279					X											
123	TP38 - 0.3-0.4	Apr 09, 2021		Soil	S21-Ap13280					X											
124	TP39 - 0-0.1	Apr 09, 2021		Soil	S21-Ap13281					X											
125	TP39 - 0-0.2	Apr 09, 2021		Soil	S21-Ap13282					X											
126	TP39 - 0.3-0.4	Apr 09, 2021		Soil	S21-Ap13283					X											
127	TP40 - 0-0.1	Apr 09, 2021		Soil	S21-Ap13284					X											

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Melbourne Laboratory - NATA Site # 1254 & 14271												X									
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
128	TP40 - 0-0.2	Apr 09, 2021		Soil	S21-Ap13285					X											
129	TP40 - 0.3-0.4	Apr 09, 2021		Soil	S21-Ap13286					X											
130	TP41 - 0-0.1	Apr 09, 2021		Soil	S21-Ap13287					X											
131	TP41 - 0-0.2	Apr 09, 2021		Soil	S21-Ap13288					X											
132	TP41 - 0.3-0.4	Apr 09, 2021		Soil	S21-Ap13289					X											
133	TP42 - 0-0.1	Apr 09, 2021		Soil	S21-Ap13290					X											
134	TP42 - 0-0.2	Apr 09, 2021		Soil	S21-Ap13291					X											
135	TP42 - 0.3-0.4	Apr 09, 2021		Soil	S21-Ap13292					X											
136	TP43 - 0.3-0.4	Apr 09, 2021		Soil	S21-Ap13293					X											
137	TP44 - 0.3-0.4	Apr 09, 2021		Soil	S21-Ap13294					X											
138	TP45 - 0-0.2	Apr 09, 2021		Soil	S21-Ap13295					X											

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Melbourne Laboratory - NATA Site # 1254 & 14271												X									
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
139	TP45 - 0.3-0.4	Apr 09, 2021		Soil	S21-Ap13296					X											
140	TP30 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13297					X											
141	TP30 - 0-0.2	Apr 08, 2021		Soil	S21-Ap13298					X											
142	TP30 - 0.3-0.4	Apr 08, 2021		Soil	S21-Ap13299					X											
143	QA202104-08-03	Apr 09, 2021		Soil	S21-Ap13300					X											
Test Counts						2	33	1	1	80	2	2	16	2	17	1	36	4	1	15	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 blue colour, 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 '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 Advice.

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: weight for weight basis	grams per kilogram
Filter loading:	fibres/100 graticule areas
Reported Concentration:	fibres/mL
Flowrate:	L/min

Terms

Dry	Sample is dried by heating prior to analysis
LOR	Limit of Reporting
COC	Chain of Custody
SRA	Sample Receipt Advice
ISO	International Standards Organisation
AS	Australian Standards
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 (2009), including supporting document Recommended Procedures for Laboratory Analysis of Asbestos in Soil (2011)
NEPM	National Environment Protection (Assessment of Site Contamination) Measure, 2013 (as amended)
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded and/or sound condition. For the purposes of the NEPM, ACM is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
AF	Asbestos Fines. Asbestos containing materials, including friable, weathered and bonded materials, able to pass a 7mm x 7mm sieve. Considered under the NEPM as equivalent to “non-bonded / friable”.
FA	Fibrous Asbestos. Asbestos containing materials in a friable and/or severely weathered condition. For the purposes of the NEPM, FA is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
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.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres in the matrix.

Comments

Ap13164 - Ap13168, Ap13171, Ap13175, Ap13178, Ap13181, Ap13184, Ap13189, Ap13190, Ap13193 - Ap13201, Ap13205 - Ap13213 and Ap13256: 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	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
N/A	Not applicable

Asbestos Counter/Identifier:

Laxman Dias	Senior Analyst-Asbestos (NSW)

Authorised by:

Sayeed Abu	Senior Analyst-Asbestos (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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JBS & G Australia (NSW) P/L
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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 and proficiency testing scheme providers reports.

Attention: **Matthew Linz**

Report **786097-W**
Project name 251 ALDING ROAD
Project ID 60716
Received Date Apr 09, 2021

Client Sample ID			**RINSATE**	**TS**	**TB**
Sample Matrix			**Water**	**Water**	**Water**
Eurofins Sample No.			**S21-Ap13217**	**S21-Ap13218**	**S21-Ap13219**
Date Sampled			**Apr 09, 2021**	**Apr 08, 2021**	**Apr 08, 2021**
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-C36 (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	%	82	-	69
Total Recoverable Hydrocarbons - 2013 NEPM Fractions					
Naphthalene[N02]	0.01	mg/L	< 0.01	-	-
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	-	-
TRH >C10-C40 (total)*	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	-	-

Client Sample ID			RINSATE	TS	TB
Sample Matrix			Water	Water	Water
Eurofins Sample No.			S21-Ap13217	S21-Ap13218	S21-Ap13219
Date Sampled			Apr 09, 2021	Apr 08, 2021	Apr 08, 2021
Test/Reference	LOR	Unit			
Polycyclic Aromatic Hydrocarbons					
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*	0.001	mg/L	< 0.001	-	-
2-Fluorobiphenyl (surr.)	1	%	142	-	-
p-Terphenyl-d14 (surr.)	1	%	123	-	-
Organochlorine Pesticides					
Chlordanes - Total	0.002	mg/L	< 0.002	-	-
4.4'-DDD	0.0001	mg/L	< 0.0001	-	-
4.4'-DDE	0.0001	mg/L	< 0.0001	-	-
4.4'-DDT	0.0001	mg/L	< 0.0001	-	-
a-BHC	0.0001	mg/L	< 0.0001	-	-
Aldrin	0.0001	mg/L	< 0.0001	-	-
b-BHC	0.0001	mg/L	< 0.0001	-	-
d-BHC	0.0001	mg/L	< 0.0001	-	-
Dieldrin	0.0001	mg/L	< 0.0001	-	-
Endosulfan I	0.0001	mg/L	< 0.0001	-	-
Endosulfan II	0.0001	mg/L	< 0.0001	-	-
Endosulfan sulphate	0.0001	mg/L	< 0.0001	-	-
Endrin	0.0001	mg/L	< 0.0001	-	-
Endrin aldehyde	0.0001	mg/L	< 0.0001	-	-
Endrin ketone	0.0001	mg/L	< 0.0001	-	-
g-BHC (Lindane)	0.0001	mg/L	< 0.0001	-	-
Heptachlor	0.0001	mg/L	< 0.0001	-	-
Heptachlor epoxide	0.0001	mg/L	< 0.0001	-	-
Hexachlorobenzene	0.0001	mg/L	< 0.0001	-	-
Methoxychlor	0.0002	mg/L	< 0.0002	-	-
Toxaphene	0.001	mg/L	< 0.001	-	-
Aldrin and Dieldrin (Total)*	0.0002	mg/L	< 0.0002	-	-
DDT + DDE + DDD (Total)*	0.0002	mg/L	< 0.0002	-	-
Vic EPA IWRG 621 OCP (Total)*	0.002	mg/L	< 0.002	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.002	mg/L	< 0.002	-	-
Dibutylchlorendate (surr.)	1	%	119	-	-
Tetrachloro-m-xylene (surr.)	1	%	123	-	-
Polychlorinated Biphenyls					
Aroclor-1016	0.005	mg/L	< 0.005	-	-
Aroclor-1221	0.001	mg/L	< 0.001	-	-
Aroclor-1232	0.005	mg/L	< 0.005	-	-
Aroclor-1242	0.005	mg/L	< 0.005	-	-
Aroclor-1248	0.005	mg/L	< 0.005	-	-
Aroclor-1254	0.005	mg/L	< 0.005	-	-
Aroclor-1260	0.005	mg/L	< 0.005	-	-
Total PCB*	0.001	mg/L	< 0.001	-	-
Dibutylchlorendate (surr.)	1	%	119	-	-
Tetrachloro-m-xylene (surr.)	1	%	123	-	-

Client Sample ID			RINSATE	TS	TB
Sample Matrix			Water	Water	Water
Eurofins Sample No.			S21-Ap13217	S21-Ap13218	S21-Ap13219
Date Sampled			Apr 09, 2021	Apr 08, 2021	Apr 08, 2021
Test/Reference	LOR	Unit			
Heavy Metals					
Arsenic (filtered)	0.001	mg/L	< 0.001	-	-
Cadmium (filtered)	0.0002	mg/L	< 0.0002	-	-
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	-	-
BTEX					
Benzene	1	%	-	110	-
Ethylbenzene	1	%	-	110	-
m&p-Xylenes	1	%	-	110	-
o-Xylene	1	%	-	100	-
Toluene	1	%	-	110	-
Xylenes - Total	1	%	-	110	-
4-Bromofluorobenzene (surr.)	1	%	-	85	-

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.

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	Apr 09, 2021	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Apr 09, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Apr 09, 2021	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Apr 09, 2021	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons	Sydney	Apr 09, 2021	7 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Organochlorine Pesticides	Sydney	Apr 09, 2021	7 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Polychlorinated Biphenyls	Sydney	Apr 09, 2021	7 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Metals M8 filtered	Sydney	Apr 09, 2021	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

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Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

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2/91 Leach Highway
Kewdale WA 6105
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NATA # 1261
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Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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
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Project Name: 251 ALDING ROAD
Project ID: 60716

Order No.:
Report #: 786097
Phone: 02 8245 0300
Fax:

Received: Apr 9, 2021 2:48 PM
Due: Apr 13, 2021
Priority: 2 Day
Contact Name: Matthew Linz

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Total Organic Carbon	Polycyclic Aromatic Hydrocarbons	Polychlorinated Biphenyls	Metals M8	BTEX	Moisture Set	Eurofins Suite B7	BTEX	Suite B10A:TRH/BTEXN/PAH/OCP/PCB/Metals8	Suite B10A:TRH/BTEXN/PAH/OCP/PCB/Metals8
Melbourne Laboratory - NATA Site # 1254 & 14271												X									
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**																
1	TP01 - 0-0.1	Apr 08, 2021		Soil	S21-Ap12755	X					X	X					X			X	
2	TP01 - 1-1.1	Apr 08, 2021		Soil	S21-Ap12756	X					X	X			X		X				
3	TP01 - 0-0.6	Apr 08, 2021		Soil	S21-Ap13159		X														
4	TP02 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13161		X														
5	TP02 - 0.2-0.3	Apr 08, 2021		Soil	S21-Ap13162								X		X		X				
6	TP03 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13163		X						X		X		X				
7	TP04 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13164		X										X			X	
8	QA202104-08-01	Apr 08, 2021		Soil	S21-Ap13165		X										X			X	

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
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Brisbane
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Perth
2/91 Leach Highway
Kewdale WA 6105
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
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Melbourne Laboratory - NATA Site # 1254 & 14271												X									
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
9	TP05 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13166								X		X		X				
10	TP05 - 0-0.4	Apr 08, 2021		Soil	S21-Ap13167		X														
11	TP06 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13168		X										X			X	
12	TP07 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13169								X		X		X				
13	TP07 - 0-0.3	Apr 08, 2021		Soil	S21-Ap13170		X														
14	TP08 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13171		X						X		X		X				
15	TP09 - 0.2-0.3	Apr 08, 2021		Soil	S21-Ap13172									X			X	X			
16	TP09 - 0-0.3	Apr 08, 2021		Soil	S21-Ap13173				X												
17	TP09 - 0.4-0.5	Apr 08, 2021		Soil	S21-Ap13174		X														
18	TP09 - FRAG01	Apr 08, 2021		Building Materials	S21-Ap13175			X													

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
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Site # 1254 & 14271

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Unit F3, Building F
16 Mars Road
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Perth
2/91 Leach Highway
Kewdale WA 6105
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
35 O'Rorke Road
Penrose, Auckland 1061
Phone : +64 9 526 45 51
IANZ # 1327

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Melbourne Laboratory - NATA Site # 1254 & 14271												X									
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
19	TP10 - 0-0.8	Apr 08, 2021		Soil	S21-Ap13176		X														
20	TP10 - 0.3-0.4	Apr 08, 2021		Soil	S21-Ap13177									X			X	X			
21	TP11 - 0-0.3	Apr 08, 2021		Soil	S21-Ap13178		X														
22	TP11 - 0.2-0.3	Apr 08, 2021		Soil	S21-Ap13179								X		X		X				
23	TP12 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13180												X			X	
24	TP13 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13181		X										X	X			
25	TP14 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13182		X										X	X			
26	TP15 - 0.2-0.3	Apr 08, 2021		Soil	S21-Ap13183												X			X	
27	TP15 - 0.1-0.4	Apr 08, 2021		Soil	S21-Ap13184		X														
28	TP16 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13185		X						X		X		X				
29	TP19 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13186								X		X		X				

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Australia

Melbourne
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Phone : +61 3 8564 5000
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Site # 1254 & 14271

Sydney
Unit F3, Building F
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4/52 Industrial Drive
Mayfield East NSW 2304
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Melbourne Laboratory - NATA Site # 1254 & 14271												X									
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
30	TP22 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13187												X			X	
31	TP23 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13188												X			X	
32	TP23 - 0-0.2	Apr 08, 2021		Soil	S21-Ap13189		X														
33	TP18 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13190		X						X		X		X				
34	QA202104-08-02	Apr 08, 2021		Soil	S21-Ap13191		X						X		X		X				
35	TP25 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13192								X		X		X				
36	TP25 - 0-0.2	Apr 08, 2021		Soil	S21-Ap13193		X														
37	TP26 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13194												X			X	
38	TP26 - 0-0.2	Apr 08, 2021		Soil	S21-Ap13195		X														
39	TP27 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13196								X		X		X				

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Australia

Melbourne
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Site # 1254 & 14271

Sydney
Unit F3, Building F
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Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
40	TP27 - 0-0.2	Apr 08, 2021		Soil	S21-Ap13197		X														
41	TP28 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13198												X			X	
42	TP28 - 0-0.2	Apr 08, 2021		Soil	S21-Ap13199		X														
43	TP29 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13200								X		X		X				
44	TP29 - 0-0.2	Apr 08, 2021		Soil	S21-Ap13201		X														
45	TP34 - 0-0.1	Apr 09, 2021		Soil	S21-Ap13202								X		X		X				
46	TP34 - 0-0.2	Apr 09, 2021		Soil	S21-Ap13203		X														
47	TP35 - 0-0.1	Apr 09, 2021		Soil	S21-Ap13204												X			X	
48	TP35 - 0-0.2	Apr 09, 2021		Soil	S21-Ap13205		X														
49	TP36 - 0-0.1	Apr 09, 2021		Soil	S21-Ap13206		X										X			X	
50	TP36 - 0.3-0.4	Apr 09, 2021		Soil	S21-Ap13207					X											

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ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
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Brisbane
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4/52 Industrial Drive
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PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

Auckland
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Project ID: 60716

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Fax:

Received: Apr 9, 2021 2:48 PM
Due: Apr 13, 2021
Priority: 2 Day
Contact Name: Matthew Linz

Eurofins Analytical Services Manager : Ursula Long

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Melbourne Laboratory - NATA Site # 1254 & 14271												X									
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
51	TP37 - 0-0.1	Apr 09, 2021		Soil	S21-Ap13208												X			X	
52	TP37 - 0-0.2	Apr 09, 2021		Soil	S21-Ap13209		X														
53	TP38 - 0-0.1	Apr 09, 2021		Soil	S21-Ap13210								X		X		X				
54	TP38 - 0-0.2	Apr 09, 2021		Soil	S21-Ap13211		X														
55	TP43 - 0-0.1	Apr 09, 2021		Soil	S21-Ap13212												X			X	
56	TP43 - 0-0.2	Apr 09, 2021		Soil	S21-Ap13213		X														
57	TP44 - 0-0.1	Apr 09, 2021		Soil	S21-Ap13214								X		X		X				
58	TP44 - 0-0.2	Apr 09, 2021		Soil	S21-Ap13215		X														
59	TP45 - 0-0.1	Apr 09, 2021		Soil	S21-Ap13216												X			X	
60	RINSATE	Apr 09, 2021		Water	S21-Ap13217																X
61	TS	Apr 08, 2021		Water	S21-Ap13218														X		

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Melbourne Laboratory - NATA Site # 1254 & 14271												X									
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
62	TB	Apr 08, 2021		Water	S21-Ap13219											X					
63	TP01 - 0.2-0.3	Apr 08, 2021		Soil	S21-Ap13220					X											
64	TP01 - 0.5-0.6	Apr 08, 2021		Soil	S21-Ap13221					X											
65	TP02 - 0.1-0.4	Apr 08, 2021		Soil	S21-Ap13222					X											
66	TP02 - 0.4-0.5	Apr 08, 2021		Soil	S21-Ap13223					X											
67	TP03 - 0.2-0.3	Apr 08, 2021		Soil	S21-Ap13224					X											
68	TP03 - 0.4-0.5	Apr 08, 2021		Soil	S21-Ap13225					X											
69	TP03 - 0.2-0.5	Apr 08, 2021		Soil	S21-Ap13226					X											
70	TP03 - 0.9-1	Apr 08, 2021		Soil	S21-Ap13227					X											
71	TP04 - 0.2-0.3	Apr 08, 2021		Soil	S21-Ap13228					X											
72	TP04 - 0.4-0.5	Apr 08, 2021		Soil	S21-Ap13229					X											

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Melbourne Laboratory - NATA Site # 1254 & 14271												X									
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
73	TP05 - 0.4-0.5	Apr 08, 2021		Soil	S21-Ap13230					X											
74	TP06 - 0.3-0.4	Apr 08, 2021		Soil	S21-Ap13231					X											
75	TP07 - 0.4-0.5	Apr 08, 2021		Soil	S21-Ap13232					X											
76	TP08 - 0.4-0.5	Apr 08, 2021		Soil	S21-Ap13233					X											
77	TP09 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13234		X														
78	TP09 - 0.9-1	Apr 08, 2021		Soil	S21-Ap13235					X											
79	TP10 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13236					X											
80	TP10 - 0.9-1	Apr 08, 2021		Soil	S21-Ap13237					X											
81	TP11 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13238					X											
82	TP11 - 0.4-0.5	Apr 08, 2021		Soil	S21-Ap13239					X											
83	TP12 - 0.2-0.3	Apr 08, 2021		Soil	S21-Ap13240					X											

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Melbourne Laboratory - NATA Site # 1254 & 14271												X									
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
84	TP13 - 0.3-0.4	Apr 08, 2021		Soil	S21-Ap13241					X											
85	TP14 - 0.2-0.3	Apr 08, 2021		Soil	S21-Ap13242					X											
86	TP15 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13243					X											
87	TP15 - 0.5-0.6	Apr 08, 2021		Soil	S21-Ap13244					X											
88	TP16 - 0.3-0.4	Apr 08, 2021		Soil	S21-Ap13245					X											
89	TP17 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13246					X											
90	TP17 - 0.2-0.3	Apr 08, 2021		Soil	S21-Ap13247					X											
91	TP19 - 0-0.2	Apr 08, 2021		Soil	S21-Ap13248					X											
92	TP19 - 0.3-0.4	Apr 08, 2021		Soil	S21-Ap13249					X											
93	TP20 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13250					X											
94	TP20 - 0-0.2	Apr 08, 2021		Soil	S21-Ap13251					X											

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Australia

Melbourne
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Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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
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Perth
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Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
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Auckland
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Melbourne Laboratory - NATA Site # 1254 & 14271												X									
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
95	TP20 - 0.3-0.4	Apr 08, 2021		Soil	S21-Ap13252					X											
96	TP21 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13253					X											
97	TP21 - 0-0.2	Apr 08, 2021		Soil	S21-Ap13254					X											
98	TP21 - 0.3-0.4	Apr 08, 2021		Soil	S21-Ap13255					X											
99	TP22 - 0-0.2	Apr 08, 2021		Soil	S21-Ap13256		X														
100	TP22 - 0.3-0.4	Apr 08, 2021		Soil	S21-Ap13257					X											
101	TP23 - 0.3-0.4	Apr 08, 2021		Soil	S21-Ap13258					X											
102	TP24 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13259					X											
103	TP24 - 0-0.2	Apr 08, 2021		Soil	S21-Ap13260					X											
104	TP24 - 0.3-0.4	Apr 08, 2021		Soil	S21-Ap13261					X											
105	TP18 - 0.3-0.4	Apr 08, 2021		Soil	S21-Ap13262					X											

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Melbourne Laboratory - NATA Site # 1254 & 14271												X									
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
106	TP25 - 0.3-0.4	Apr 08, 2021		Soil	S21-Ap13263					X											
107	TP26 - 0.3-0.4	Apr 08, 2021		Soil	S21-Ap13264					X											
108	TP27 - 0.3-0.4	Apr 08, 2021		Soil	S21-Ap13265					X											
109	TP28 - 0.3-0.4	Apr 08, 2021		Soil	S21-Ap13266					X											
110	TP29 - 0.3-0.4	Apr 08, 2021		Soil	S21-Ap13267					X											
111	TP31 - 0-0.1	Apr 09, 2021		Soil	S21-Ap13268					X											
112	TP31 - 0-0.2	Apr 09, 2021		Soil	S21-Ap13269					X											
113	TP31 - 0.3-0.4	Apr 09, 2021		Soil	S21-Ap13270					X											
114	TP32 - 0-0.1	Apr 09, 2021		Soil	S21-Ap13271					X											
115	TP32 - 0-0.2	Apr 09, 2021		Soil	S21-Ap13272					X											
116	TP32 - 0.3-0.4	Apr 09, 2021		Soil	S21-Ap13273					X											

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Melbourne Laboratory - NATA Site # 1254 & 14271												X									
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
117	TP33 - 0-0.1	Apr 09, 2021		Soil	S21-Ap13274					X											
118	TP33 - 0-0.2	Apr 09, 2021		Soil	S21-Ap13275					X											
119	TP33 - 0.3-0.4	Apr 09, 2021		Soil	S21-Ap13276					X											
120	TP34 - 0.3-0.4	Apr 09, 2021		Soil	S21-Ap13277					X											
121	TP35 - 0.3-0.4	Apr 09, 2021		Soil	S21-Ap13278					X											
122	TP37 - 0.3-0.4	Apr 09, 2021		Soil	S21-Ap13279					X											
123	TP38 - 0.3-0.4	Apr 09, 2021		Soil	S21-Ap13280					X											
124	TP39 - 0-0.1	Apr 09, 2021		Soil	S21-Ap13281					X											
125	TP39 - 0-0.2	Apr 09, 2021		Soil	S21-Ap13282					X											
126	TP39 - 0.3-0.4	Apr 09, 2021		Soil	S21-Ap13283					X											
127	TP40 - 0-0.1	Apr 09, 2021		Soil	S21-Ap13284					X											

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Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
2/91 Leach Highway
Kewdale WA 6105
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: 251 ALDING ROAD
Project ID: 60716

Order No.:
Report #: 786097
Phone: 02 8245 0300
Fax:

Received: Apr 9, 2021 2:48 PM
Due: Apr 13, 2021
Priority: 2 Day
Contact Name: Matthew Linz

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	Asbestos Absence /Presence	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Total Organic Carbon	Polycyclic Aromatic Hydrocarbons	Polychlorinated Biphenyls	Metals M8	BTEX	Moisture Set	Eurofins Suite B7	BTEX	Suite B10A:TRH/BTEXN/PAH/OCP/PCB/Metals8	Suite B10A:TRH/BTEXN/PAH/OCP/PCB/Metals8
Melbourne Laboratory - NATA Site # 1254 & 14271												X									
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
128	TP40 - 0-0.2	Apr 09, 2021		Soil	S21-Ap13285					X											
129	TP40 - 0.3-0.4	Apr 09, 2021		Soil	S21-Ap13286					X											
130	TP41 - 0-0.1	Apr 09, 2021		Soil	S21-Ap13287					X											
131	TP41 - 0-0.2	Apr 09, 2021		Soil	S21-Ap13288					X											
132	TP41 - 0.3-0.4	Apr 09, 2021		Soil	S21-Ap13289					X											
133	TP42 - 0-0.1	Apr 09, 2021		Soil	S21-Ap13290					X											
134	TP42 - 0-0.2	Apr 09, 2021		Soil	S21-Ap13291					X											
135	TP42 - 0.3-0.4	Apr 09, 2021		Soil	S21-Ap13292					X											
136	TP43 - 0.3-0.4	Apr 09, 2021		Soil	S21-Ap13293					X											
137	TP44 - 0.3-0.4	Apr 09, 2021		Soil	S21-Ap13294					X											
138	TP45 - 0-0.2	Apr 09, 2021		Soil	S21-Ap13295					X											

eurofins | Environment Testing

ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

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Melbourne Laboratory - NATA Site # 1254 & 14271												X									
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X		X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
139	TP45 - 0.3-0.4	Apr 09, 2021		Soil	S21-Ap13296					X											
140	TP30 - 0-0.1	Apr 08, 2021		Soil	S21-Ap13297					X											
141	TP30 - 0-0.2	Apr 08, 2021		Soil	S21-Ap13298					X											
142	TP30 - 0.3-0.4	Apr 08, 2021		Soil	S21-Ap13299					X											
143	QA202104-08-03	Apr 09, 2021		Soil	S21-Ap13300					X											
Test Counts						2	33	1	1	80	2	2	16	2	17	1	36	4	1	15	1

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.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

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 and 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.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
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 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

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, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene 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 Aroclor 1260 in Matrix Spikes and LCS.
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 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 - 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	< 0.01			0.01	Pass	
TRH C6-C10	mg/L	< 0.02			0.02	Pass	
TRH >C10-C16	mg/L	< 0.05			0.05	Pass	
TRH >C16-C34	mg/L	0.15			0.1	Fail	
TRH >C34-C40	mg/L	< 0.1			0.1	Pass	
Method Blank							
Heavy Metals							
Arsenic (filtered)	mg/L	< 0.001			0.001	Pass	
Cadmium (filtered)	mg/L	< 0.0002			0.0002	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							
TRH C6-C9	%	88			70-130	Pass	
TRH C10-C14	%	81			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	92			70-130	Pass	
Toluene	%	94			70-130	Pass	
Ethylbenzene	%	95			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	%	94			70-130	Pass	
TRH C6-C10	%	92			70-130	Pass	
TRH >C10-C16	%	80			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic (filtered)	%	94			80-120	Pass	
Cadmium (filtered)	%	95			80-120	Pass	

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Chromium (filtered)			%	93			80-120	Pass	
Copper (filtered)			%	91			80-120	Pass	
Lead (filtered)			%	94			80-120	Pass	
Mercury (filtered)			%	101			80-120	Pass	
Nickel (filtered)			%	92			80-120	Pass	
Zinc (filtered)			%	98			80-120	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 C10-C14	S21-Ap06025	NCP	%	88			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH >C10-C16	S21-Ap06025	NCP	%	84			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic (filtered)	S21-Ap06271	NCP	%	94			75-125	Pass	
Cadmium (filtered)	S21-Ap06271	NCP	%	91			75-125	Pass	
Chromium (filtered)	S21-Ap06271	NCP	%	85			75-125	Pass	
Copper (filtered)	S21-Ap06271	NCP	%	80			75-125	Pass	
Lead (filtered)	S21-Ap06271	NCP	%	83			75-125	Pass	
Mercury (filtered)	S21-Ap06271	NCP	%	94			75-125	Pass	
Nickel (filtered)	S21-Ap06271	NCP	%	81			75-125	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 C10-C14	S21-Ap06015	NCP	mg/L	10	9.5	7.0	30%	Pass	
TRH C15-C28	S21-Ap06015	NCP	mg/L	0.6	0.7	14	30%	Pass	
TRH C29-C36	S21-Ap06015	NCP	mg/L	0.2	< 0.1	200	30%	Fail	Q15
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
TRH >C10-C16	S21-Ap06015	NCP	mg/L	3.7	3.5	6.0	30%	Pass	
TRH >C16-C34	S21-Ap06015	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH >C34-C40	S21-Ap06015	NCP	mg/L	0.3	< 0.1	200	30%	Fail	Q15
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic (filtered)	S21-Ap13217	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Cadmium (filtered)	S21-Ap13217	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Chromium (filtered)	S21-Ap03310	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Copper (filtered)	S21-Ap13217	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Lead (filtered)	S21-Ap13217	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Mercury (filtered)	S21-Ap13217	CP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel (filtered)	S21-Ap13217	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Zinc (filtered)	S21-Ap13217	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
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
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)
John Nguyen	Senior Analyst-Metal (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.: 60716
PROJECT NAME: 251 Alding Road
DATE NEEDED BY: 24h TAT
LABORATORY BATCH NO.:
SAMPLERS: ML, MS
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) .....Mlinz@jbsg.com.au; (3) ...Cbielby@jbsg.com.au
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

786097

NOTES:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	PAHs	BTEX TRH/VOC	PCB/OCP	OCP	ASLP	TCLP	TOC	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA
TP01 - 0-0.1	soil	8-4-21		J		/	/	/	/						/
0-0.6	soil	-4-21		Bag											
0.2-0.3	soil	-4-21		J											
0.5-0.6	soil	-4-21		J											
1-1.1	soil	-4-21		J		/									/
TP02 0-0.1	soil	-4-21		J+B+I		/	/								
0.2-0.3	soil	-4-21		J											
0.1-0.4	soil	-4-21		B											
0.4-0.5	soil	-4-21		J											/
TP03-0-0.1	soil	-4-21		I+B		/	/								
0.2-0.3	soil	-4-21		J											
0.4-0.5	soil	-4-21		J											
0.2-0.5	soil	-4-21		Bag											
0.9-1	soil	-4-21		J											/
TP04 0-0.1	soil	-4-21		J+B.		/	/	/	/						
0.2-0.3	soil	-4-21		J											
0.4-0.5	soil	-4-21		J											/
GA7071040B-01	soil	-4-21		J+B											
GA7071040B-02	soil	-4-21		J+B											

RELINQUISHED BY:
NAME: Matthew Linz DATE:
OF: JBS&G

NAME: DATE:
OF:

METHOD OF SHIPMENT:
CONSIGNMENT NOTE NO. Drop-off
TRANSPORT CO.

CONSIGNMENT NOTE NO.
TRANSPORT CO

RECEIVED BY:
NAME: MR
DATE: 9/4/21 2:48PM
OF: Eurofins

NAME: DATE:
OF:

FOR RECEIVING LAB USE ONLY:
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP 5.3 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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Scanned with CamScanner

Chain of Custody

JBS&G

PROJECT NO.: 60716	LABORATORY BATCH NO.:
PROJECT NAME: 251 Alding Road	SAMPLERS: ML, MS
DATE NEEDED BY: 24h TAT	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) .....Mlinz@jbsg.com.au; (3) ...Cblelby@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

786097

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	PAHs	TRH/BTEX	PCB	OCP	ASLP	TCLP	TOC	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
TP05 - 0 - 0.1	soil	8-4-21		J		/	/									
0 - 0.4	soil	-4-21		Bag											/	
0.4 - 0.5	soil	-4-21		J												
TP06 - 0 - 0.1	soil	-4-21		BH		/	/	/	/	/					/	
0.3 - 0.4	soil	-4-21		J												
TP07 0 - 0.1	soil	-4-21		J		/	/								/	
0.- 0.3	soil	-4-21		B											/	
0.4 - 0.5	soil	-4-21		J												
TP08 0 - 0.1	soil	-4-21		J+B.		/	/								/	
0.4 - 0.5	soil	-4-21		J												
TP09 - 0 - 0.1	soil	-4-21		J												
0.2 - 0.3	soil	-4-21		J		/	/	/	/							
- 0 - 0.3	soil	-4-21		B											/	
- 0.4 - 0.5	soil	-4-21		J+B											/	
- FRAG 01	soil	-4-21		B											/	
- 0.9 - 1	soil	-4-21		J												
TP10 - 0 - 0.1	soil	-4-21		J												
0 - 0.8	soil	-4-21		B												
0.3 - 0.4	soil	-4-21		J		/	/	/	/						/	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Matthew Linz DATE:	CONSIGNMENT NOTE NO. Drop - off	NAME: MR DATE: 9/4/21 2:48 PM	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	OF: Eurofins	COOLER TEMP 5.3 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.: 60716	LABORATORY BATCH NO.:
PROJECT NAME: 251 Alding Road	SAMPLERS: ML, MS
DATE NEEDED BY: 24h TAT	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) .....Mlinz@jbsg.com.au; (3) ...Cbielby@jbsg.com.au	
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:	

786097

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	PAHs	BTEX TRH/VOC	PCB	OCP	ASLP	TCLP	TOC	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
TP10-0.9-1	soil	-4-21		J												
TP11-0-0.1	soil	-4-21		J												
-0-0.3	soil	-4-21		B											/	
-0.2-0.3	soil	-4-21		J		/	/									
-0.4-0.5	soil	-4-21		J												
TP12-0-0.1	soil	-4-21		J+B		/	/	/	/	/					/	
TP12-0.2-0.3	soil	-4-21		J												
TP13-0-0.1	soil	-4-21		J+B		/	/	/							/	
TP13-0.3-0.4	soil	-4-21		J												
TP14-0-0.1	soil	-4-21		J+B		/	/	/							/	
TP14-0.2-0.3	soil	-4-21		J												
TP15-0-0.1	soil	-4-21		J+B												
0.2-0.3	soil	-4-21		J		/	/	/	/	/					/	
0.1-0.4	soil	-4-21		B											/	
0.5-0.6	soil	-4-21		J											/	
TP16-0-0.1	soil	-4-21		J+B		-	/									
-0.3-0.4	soil	-4-21		J												
TP17-0-0.1	soil	-4-21		J+B												
TP17-0.2-0.3	soil	-4-21		J												

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Matthew Linz DATE:	CONSIGNMENT NOTE NO. Drop-off	NAME: DATE: 9/4/21 2:48 PM	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	OF: Eurofins	COOLER TEMP 5.5 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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JBS&G

PROJECT NO.: 60716	LABORATORY BATCH NO.:
PROJECT NAME: 251 Alding Road	SAMPLERS: ML, MS
DATE NEEDED BY: 24h TAT	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) .....Mlinz@jbsg.com.au; (3) ...Cbielby@jbsg.com.au	

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

786097

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	PAHs	BTEX TRH/VOC	PCB	OCP	ASLP	TCLP	TOC	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
TP19-0-0.1	soil	8-4-21	NA	J*		/	/									
0.0.2	soil	-4-21	|	B												
0.3-0.4	soil	-4-21	|	J												
TP20 0-0.1	soil	-4-21	|	J												
0-0.2	soil	-4-21	|	B												
0.3-0.4	soil	-4-21	|	J												
TP21 0-0.1	soil	-4-21	|	J												
0-0.2	soil	-4-21	|	B												
0.3-0.4	soil	-4-21	|	J												
TP22-0-0.1	soil	-4-21	|	J		/	/	/	/						/	
0-0.2	soil	-4-21	|	B												
0.3-0.4	soil	-4-21	|	J												
TP23 0-0.1	soil	-4-21	|	J		/	/	/	/						/	
0-0.2	soil	-4-21	|	B												
0.3-0.4	soil	-4-21	|	J												
TP24 0-0.1	soil	-4-21	|	J												
0-0.2	soil	-4-21	|	B												
0.3-0.4	soil	-4-21	|	J												
	soil	-4-21	V													

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Matthew Linz DATE: 8-4-21. OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO. Drop-off	NAME: MR DATE: 9/4/21 2:48pm OF: Eurofins	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP 5.3 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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JBS&G

PROJECT NO.: 60716	LABORATORY BATCH NO.:
PROJECT NAME: 251 Alding Road	SAMPLERS: ML, MS
DATE NEEDED BY: 24h TAT	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) .....Mlinz@jbsg.com.au; (3) ...Cbielby@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

786097

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	PAHs	TRH/VOC	PCB	OCP	ASLP	TCLP	TOC	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
TP18 - 0-0.1	soil	-4-21	NA	J + B		/	/								/	
TP18 -	soil	-4-21		↓												
QA20210405-07	soil	-4-21		J + B		/	/								/	
~~QA20210405-02~~	~~soil~~	~~4-21~~		~~J + B~~												
TP25 - 0-0.1	soil	-4-21		J		/	/									
0-0.2	soil	-4-21		B											/	
0.3-0.4	soil	-4-21		B J												
TP26 - 0-0.1	soil	-4-21		J		/	/	/	/							
0-0.2	soil	-4-21		B											/	
0.3-0.4	soil	-4-21		J												
TP27 - 0-0.1	soil	-4-21		J		/	/									
0-0.2	soil	-4-21		B											/	
0.3-0.4	soil	-4-21		J												
TP28 - 0-0.1	soil	-4-21		J		/	/	/	/							
0-0.2	soil	-4-21		B											/	
0.3-0.4	soil	-4-21		J												
TP29 - 0-0.1	soil	-4-21		J		/	/									
0-0.2	soil	-4-21		B												
0.3-0.4	soil	-4-21		J											/	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Matthew Linz DATE: 8-4-21	CONSIGNMENT NOTE NO. Drop-off	NAME: MK	COOLER SEAL – Yes..... No ..... Intact..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 9/4/21 2:48PM	
		OF: Eurofins	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.: 6016	LABORATORY BATCH NO.:
PROJECT NAME: 251 Alderss Rd	SAMPLERS: ML, MS
DATE NEEDED BY: 24 TAT	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) admninsw@jbsg.com.au; (2) M.Lint@jbsg.com.au; (3) Chelby@jbsg.com.au	
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:	

786097

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy metals	PAH	TRH/BTEX	OCP/PCB	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
TP31 - 0-0.1	soil	9-4-21		BJ								
0-0.2	↓	↓		BJ								
0.3-0.4				J								
TP32 - 0-0.1				J								
0-0.2				B								
0.3-0.4				J								
TP33 - 0-0.1				J								
0-0.2				B								
0.3-0.4				J								
TP34 - 0-0.1				J		✓	✓	✓				
0-0.2				B							✓	
0.3-0.4				J								
TP35 - 0-0.1				J		✓	✓	✓				
0-0.2				B							✓	
0.3-0.4				J								
TP36 - 0-0.1				J+B		✓	✓	✓	✓		✓	
~~0-0.1~~ 0.3-0.4	↓	↓		J							✓	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: M.Lint DATE:	CONSIGNMENT NOTE NO.	NAME: MR DATE: 9/4/21 2:48PM	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO. Drop-off	OF: Eurofins	COOLER TEMP 5.3 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.: 6016
PROJECT NAME: 251 Alphas Rd
DATE NEEDED BY: 24 TAT
LABORATORY BATCH NO.:
SAMPLERS: ML, MS
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) .....@jbsg.com.au
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

786097

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	PAH	TPH/BTEX	OCP/PCB	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
TP37 - 0-0.1	Soil	9-4-21	NA	J		/	/	/	/			
0-0.2				B							/	
0.3-0.4				J								
TP38 0-0.1				J		/	/					
0-0.2				B							/	
0.3-0.4				J								
TP39 0-0.1				J								
0-0.2				B								
0.3-0.4				J.								
TP40 0-0.1				J								
0.0.2				B								
0.3-0.4				J								
TP41 0-0.1				J								
0-0.2				B								
0.3-0.4				J								
TP42 0-0.1				J								
0-0.2				B								
0.3-0.4				J.								

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE:	CONSIGNMENT NOTE NO. Drop-off	NAME: MR DATE: 9/4/21 2:48 PM	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	OF: Eurofins	COOLER TEMP 5.3 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.: 60716
PROJECT NAME: 751 Ading Road
DATE NEEDED BY: 24h TAT
LABORATORY BATCH NO.:
SAMPLERS:
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) .....@jbsg.com.au
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

786097

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	PAHs	TRH/BTEX	OCP/PCB	BTEX	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
TP43 0-0.1	soil	9/4/21	NA	J		✓	✓	✓	✓				
0-0.7				B								✓	
0.3-0.4				J									
TP44 0-0.1				J		✓	✓						
TP45 0-0.2				B								✓	
0.3-0.4				J									
TP45 0-0.1				J		✓	✓	✓	✓				
0-0.2				B									
0.3-0.4				J									
TP30-0-0.1				J									
0-0.2				B									
0.3-0.4				J									
QA20210408-03				J+B.									
~~QA20210408-03~~						Please send to enviroLab							
Rinsate	water			Viles		(	✓	✓					
TS/TB.	water	8-4-21		Viles					✓				

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Mdin DATE: 9-4-21.	CONSIGNMENT NOTE NO. Drop-off	NAME: MR DATE: 9/4/21 2:48 PM	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	OF: Envirolab	COOLER TEMP 5.3 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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FW: COC - 60716

Ursula Long <UrsulaLong@eurofins.com>

Fri 4/9/2021 2:48 PM

To: #AU04_Enviro_Sample_NSW <EnviroSampleNSW@eurofins.com>

1 attachments (6 MB)

new doc 2021-04-09 14.14.21.pdf;

JBS&G COC for 60716 dropped off today

COCs say 1 day TATR, please place on 2 day TAT – water samples on 1 report, soil samples on another

Note for the soil samples TOC, % clay and pH for samples TP01 0.0-0.1 and TP01 1.0-1.1 – if subsamples can't be sent today, please ensure %clay sub for Brisbane is dried overnight

Also note water samples have short holding time tests & must be sent out today

Kind regards,

Ursula Long
Analytical Services Manager

Eurofins | Environment Testing
Unit F3, Parkview Building
16 Mars Road
LANE COVE WEST NSW 2066
AUSTRALIA
Mobile: +61 428 845 495
Email : UrsulaLong@eurofins.com
Website: www.eurofins.com.au/environmental-testing

For sample receipt enquiries (eg. SRAs, changes to analysis) please contact EnvirosampleNSW@eurofins.com or 02 9900 8421 (7am – 12am).
For despatch enquiries (eg. courier bookings, bottle orders) please contact AU04_Despatch_SYD@eurofins.com or 0488 400 929 (8am – 4pm).

From: Chris Bielby <CBielby@jbsg.com.au>
Sent: Friday, 9 April 2021 2:33 PM
To: Ursula Long <UrsulaLong@eurofins.com>
Cc: Matthew Linz <mlinz@jbsg.com.au>
Subject: COC - 60716

EXTERNAL EMAIL*

Hi Ursula,

Please find attached the COC for some samples dropped off earlier today. Please place these samples on 48hr TAT – noting that it is critical for us to receive these results by Tuesday night. Please also schedule additional analysis of TOC, % clay and pH for samples TP01 0.0-0.1 and TP01 1.0-1.1.

Thanks

Chris Bielby | Associate | JBS&G
Sydney | Melbourne | Adelaide | Perth | Brisbane | Canberra | Darwin | Wollongong | Bunbury

Level 1, 50 Margaret Street Sydney NSW 2000
T: 02 8245 0300 | M: 0421 216 514| E: cbielby@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

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Re: Attention: Eurofins Sample Receipt Advice - Report 786097 : Site 251 ALDING ROAD (60716)

Matthew Linz <mlinz@jbsg.com.au>
Fri 4/9/2021 9:23 PM

To: #AU04_Enviro_Sample_NSW <EnviroSampleNSW@eurofins.com>
Cc: Chris Bielby <CBielby@jbsg.com.au>

Hello

Please change bag samples
TP09 0-0.1 to TP09 0-0.3 and analyse accordingly
TP22 0-0.1 asbestos analysis to TP22 0-0.2
no TP12 asbestos bags received at all ?

Get Outlook for iOS

From: EnviroSampleNSW@eurofins.com <EnviroSampleNSW@eurofins.com>
Sent: Friday, April 9, 2021 8:52 PM
To: Matthew Linz
Cc: Chris Bielby
Subject: Attention: Eurofins Sample Receipt Advice - Report 786097 : Site 251 ALDING ROAD (60716)

[EXTERNAL EMAIL]** Stop and think before opening attachments, clicking or responding.

Dear Valued Client,

No asbestos bags received for samples TP09 - 0-0.3, TP12 - 0-0.1, TP22 - 0-0.1 and TP36 - 0.3-0.4, AsbWA analysis cancelled. Jar for sample TP36 - 0.3-0.4 placed on hold. Extra bag received for sample TP09 - 0-0.1, placed on hold. Please advise if samples TP09 - 0-0.1 and TP22 - 0-0.2 require AsbWA analysis.

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,
Mickael Ros
Sample Receipt

Eurofins | Environmental Testing
Unit F3, Parkview Building
16 Mars Road
LANE COVE WEST NSW 2066
AUSTRALIA
Phone: +61 02 9900 8421

Email: EnviroSampleNSW@eurofins.com
Website: [http:///]environment.eurofins.com.au

EnviroNote 1108 - Emissions from Stationary Sources
EnviroNote 1103 - NATA Accreditation for Dioxins

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eurofins | Environment Testing

ABN: 50 005 085 521 www.eurofins.com.au EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
2/91 Leach Highway
Kewdale WA 6105
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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:	Matthew Linz
Project name:	251 ALDING ROAD
Project ID:	60716
Turnaround time:	2 Day
Date/Time received	Apr 9, 2021 2:48 PM
Eurofins reference	786097

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 Sample Receipt : 5.3 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

No asbestos bags received for samples TP12 - 0-0.1 and TP36 - 0.3-0.4, AsbWA analysis cancelled. Jar for sample TP36 - 0.3-0.4 placed on hold.

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 Matthew Linz - mlinz@jbsg.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
customerservice@envirolab.com.au
www.envirolab.com.au

CERTIFICATE OF ANALYSIS 266225

Client Details

Client	JBS & G (NSW & WA) Pty Ltd
Attention	Chris Bielby, M Linz
Address	Level 1, 50 Margaret St, Sydney, NSW, 2000

Sample Details

Your Reference	**60716, 251 Alding Rd**
Number of Samples	3 Soil
Date samples received	09/04/2021
Date completed instructions received	09/04/2021

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	12/04/2021
Date of Issue	12/04/2021

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Asbestos Approved By
Analysed by Asbestos Approved Identifier: Nyovan Moonean
Authorised by Asbestos Approved Signatory: Lucy Zhu

Results Approved By
Dragana Tomas, Senior Chemist
Giovanni Agosti, Group Technical Manager
Lucy Zhu, Asbestos Supervisor
Steven Luong, Organics Supervisor

Authorised By

Nancy Zhang, Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil		
Our Reference		266225-1
Your Reference	UNITS	QC20210408-01
Date Sampled		08/04/2021
Type of sample		Soil
Date extracted	-	09/04/2021
Date analysed	-	12/04/2021
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	<3
Surrogate aaa-Trifluorotoluene	%	100

svTRH (C10-C40) in Soil		
Our Reference		266225-1
Your Reference	UNITS	QC20210408-01
Date Sampled		08/04/2021
Type of sample		Soil
Date extracted	-	09/04/2021
Date analysed	-	10/04/2021
TRH C_{10} - C_{14}	mg/kg	<50
TRH C_{15} - C_{28}	mg/kg	<100
TRH C_{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
Total +ve TRH (>C10-C40)	mg/kg	<50
Surrogate o-Terphenyl	%	84

PAHs in Soil			
Our Reference		266225-1	266225-2
Your Reference	UNITS	QC20210408-01	QC20210408-02
Date Sampled		08/04/2021	08/04/2021
Type of sample		Soil	Soil
Date extracted	-	09/04/2021	09/04/2021
Date analysed	-	09/04/2021	09/04/2021
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	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	96	96

Organochlorine Pesticides in soil		
Our Reference		266225-1
Your Reference	UNITS	QC20210408-01
Date Sampled		08/04/2021
Type of sample		Soil
Date extracted	-	09/04/2021
Date analysed	-	09/04/2021
alpha-BHC	mg/kg	<0.1
HCB	mg/kg	<0.1
beta-BHC	mg/kg	<0.1
gamma-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
Endosulfan II	mg/kg	<0.1
pp-DDD	mg/kg	<0.1
Endrin Aldehyde	mg/kg	<0.1
pp-DDT	mg/kg	<0.1
Endosulfan Sulphate	mg/kg	<0.1
Methoxychlor	mg/kg	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1
Surrogate TCMX	%	89

PCBs in Soil		
Our Reference		266225-1
Your Reference	UNITS	QC20210408-01
Date Sampled		08/04/2021
Type of sample		Soil
Date extracted	-	09/04/2021
Date analysed	-	09/04/2021
Aroclor 1016	mg/kg	<0.1
Aroclor 1221	mg/kg	<0.1
Aroclor 1232	mg/kg	<0.1
Aroclor 1242	mg/kg	<0.1
Aroclor 1248	mg/kg	<0.1
Aroclor 1254	mg/kg	<0.1
Aroclor 1260	mg/kg	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1
Surrogate TCMX	%	89

Acid Extractable metals in soil			
Our Reference		266225-1	266225-2
Your Reference	UNITS	QC20210408-01	QC20210408-02
Date Sampled		08/04/2021	08/04/2021
Type of sample		Soil	Soil
Date prepared	-	12/04/2021	12/04/2021
Date analysed	-	12/04/2021	12/04/2021
Arsenic	mg/kg	6	5
Cadmium	mg/kg	<0.4	<0.4
Chromium	mg/kg	14	14
Copper	mg/kg	34	64
Lead	mg/kg	23	16
Mercury	mg/kg	0.1	<0.1
Nickel	mg/kg	11	9
Zinc	mg/kg	65	57

Moisture		
Our Reference		266225-1
Your Reference	UNITS	QC20210408-01
Date Sampled		08/04/2021
Type of sample		Soil
Date prepared	-	09/04/2021
Date analysed	-	12/04/2021
Moisture	%	19

Asbestos ID - soils NEPM - ASB-001			
Our Reference		266225-1	266225-2
Your Reference	UNITS	QC20210408-01	QC20210408-02
Date Sampled		08/04/2021	08/04/2021
Type of sample		Soil	Soil
Date analysed	-	12/04/2021	12/04/2021
Sample mass tested	g	503.71	460.04
Sample Description	-	Brown clayey soil & rocks	Brown clayey 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.
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.
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-021	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.

Method ID	Methodology Summary
Org-021	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD. Note, the Total +ve PCBs PQL is reflective of the lowest individual PQL and is therefore" Total +ve PCBs" is simply a sum of the positive individual PCBs.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-022/025	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-MS/GC-MSMS. Note, the Total +ve reported DDD+DDE+DDT PQL is reflective of the lowest individual PQL and is therefore simply a sum of the positive individually report DDD+DDE+DDT.
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-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-12	[NT]
Date extracted	-			09/04/2021	[NT]	[NT]	[NT]	[NT]	09/04/2021	[NT]
Date analysed	-			12/04/2021	[NT]	[NT]	[NT]	[NT]	12/04/2021	[NT]
TRH C_6 - C_9	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	86	[NT]
TRH C_6 - C_{10}	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	86	[NT]
Benzene	mg/kg	0.2	Org-023	<0.2	[NT]	[NT]	[NT]	[NT]	104	[NT]
Toluene	mg/kg	0.5	Org-023	<0.5	[NT]	[NT]	[NT]	[NT]	93	[NT]
Ethylbenzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	87	[NT]
m+p-xylene	mg/kg	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	73	[NT]
o-Xylene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	75	[NT]
naphthalene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	92	[NT]	[NT]	[NT]	[NT]	98	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-12	[NT]
Date extracted	-			09/04/2021	[NT]	[NT]	[NT]	[NT]	09/04/2021	[NT]
Date analysed	-			10/04/2021	[NT]	[NT]	[NT]	[NT]	10/04/2021	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	105	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	79	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	90	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	105	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	79	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	90	[NT]
Surrogate o-Terphenyl	%		Org-020	89	[NT]	[NT]	[NT]	[NT]	112	[NT]

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-12	[NT]
Date extracted	-			09/04/2021	[NT]	[NT]	[NT]	[NT]	09/04/2021	[NT]
Date analysed	-			09/04/2021	[NT]	[NT]	[NT]	[NT]	09/04/2021	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	90	[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]	79	[NT]
Fluorene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	86	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	107	[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]	91	[NT]
Pyrene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	93	[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]	78	[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]	85	[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	108	[NT]	[NT]	[NT]	[NT]	113	[NT]

QUALITY CONTROL: Organochlorine Pesticides in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-12	[NT]
Date extracted	-			09/04/2021	[NT]	[NT]	[NT]	[NT]	09/04/2021	[NT]
Date analysed	-			09/04/2021	[NT]	[NT]	[NT]	[NT]	09/04/2021	[NT]
alpha-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	90	[NT]
HCB	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	79	[NT]
gamma-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	117	[NT]
delta-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	105	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	107	[NT]
gamma-Chlordane	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	104	[NT]
Dieldrin	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	103	[NT]
Endrin	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	86	[NT]
Endosulfan II	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	95	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	74	[NT]
Methoxychlor	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	85	[NT]	[NT]	[NT]	[NT]	89	[NT]

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-12	[NT]
Date extracted	-			09/04/2021	[NT]	[NT]	[NT]	[NT]	09/04/2021	[NT]
Date analysed	-			09/04/2021	[NT]	[NT]	[NT]	[NT]	09/04/2021	[NT]
Aroclor 1016	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	120	[NT]
Aroclor 1260	mg/kg	0.1	Org-021	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate TCMX	%		Org-021	85	[NT]	[NT]	[NT]	[NT]	89	[NT]

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-12	[NT]
Date prepared	-			12/04/2021	[NT]	[NT]	[NT]	[NT]	12/04/2021	[NT]
Date analysed	-			12/04/2021	[NT]	[NT]	[NT]	[NT]	12/04/2021	[NT]
Arsenic	mg/kg	4	Metals-020	<4	[NT]	[NT]	[NT]	[NT]	98	[NT]
Cadmium	mg/kg	0.4	Metals-020	<0.4	[NT]	[NT]	[NT]	[NT]	99	[NT]
Chromium	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	96	[NT]
Copper	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	100	[NT]
Lead	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	97	[NT]
Mercury	mg/kg	0.1	Metals-021	<0.1	[NT]	[NT]	[NT]	[NT]	110	[NT]
Nickel	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	97	[NT]
Zinc	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	106	[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.

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 266225-2 is below the minimum 500mL sample volume as per National Environment Protection (Assessment of Site Contamination) Measure, Schedule B1, May 2013.

COC 9/4/2021 1600

Chain of Custody

JBS&G

PROJECT NO.: 60716
PROJECT NAME: 251 Alding Rd
DATE NEEDED BY: 24h TAT
LABORATORY BATCH NO.:
SAMPLERS: ML. MS
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) ...Mlinh.....@jbsg.com.au; (3) ...Charlby.....@jbsg.com.au
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	PAHs	TRH/BTEX	OCP/PCBs	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
QC2021040S-01	Soil	8/4/21		J+B (1)		/	/	/	/		/	
QC2021040S-02	Soil	8/4/21		J+B (2)		/	/	/			/	
QC2021040S-03	Soil	8/4/21		J+B (3)								

Envirolab Services
Chatswood NSW 2067
Ph: (02) 9910 6200
Job No: 266225
Date Received: 9/4/2021
Time Received: 1600
Received By: TS
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: Alex DATE: OF: 9/4/2021	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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Scanned with CamScanner

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	Chris Bielby, M Linz

Sample Login Details

Your reference	60716, 251 Alding Rd
Envirolab Reference	266225
Date Sample Received	09/04/2021
Date Instructions Received	09/04/2021
Date Results Expected to be Reported	12/04/2021

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	3 Soil
Turnaround Time Requested	1 day
Temperature on Receipt (°C)	4
Cooling Method	Ice
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	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticides in soil	PCBsin Soil	Acid Extractable metalsin soil	Asbestos ID - soils NEPM - ASB-001	On Hold
QC20210408-01	✓	✓	✓	✓	✓	✓	✓	
QC20210408-02			✓			✓	✓	
QC20210408-03								✓

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.

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

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 and proficiency testing scheme providers reports.

Attention: **Matthew Linz**

Report **786046-W**
Project name 251 ALDINS RD
Project ID 60716
Received Date Apr 09, 2021

Client Sample ID			**SW01**	**SW02**
Sample Matrix			**Water**	**Water**
Eurofins Sample No.			**S21-Ap12412**	**S21-Ap12413**
Date Sampled			**Apr 09, 2021**	**Apr 09, 2021**
Test/Reference	LOR	Unit		
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				
TRH C6-C9	0.02	mg/L	< 0.02	< 0.02
TRH C10-C14	0.05	mg/L	< 0.05	< 0.05
TRH C15-C28	0.1	mg/L	0.1	0.1
TRH C29-C36	0.1	mg/L	< 0.1	< 0.1
TRH C10-C36 (Total)	0.1	mg/L	0.1	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	%	87	92
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				
Naphthalene[N02]	0.01	mg/L	< 0.01	< 0.01
TRH C6-C10	0.02	mg/L	< 0.02	< 0.02
TRH C6-C10 less BTEX (F1)[N04]	0.02	mg/L	< 0.02	< 0.02
TRH >C10-C16	0.05	mg/L	< 0.05	< 0.05
TRH >C10-C16 less Naphthalene (F2)[N01]	0.05	mg/L	< 0.05	< 0.05
TRH >C16-C34	0.1	mg/L	0.2	0.1
TRH >C34-C40	0.1	mg/L	< 0.1	< 0.1
TRH >C10-C40 (total)*	0.1	mg/L	0.2	0.1
Polycyclic Aromatic Hydrocarbons (Trace level)				
Acenaphthene	0.00001	mg/L	< 0.00001	< 0.00001
Acenaphthylene	0.00001	mg/L	< 0.00001	< 0.00001
Anthracene	0.00001	mg/L	< 0.00001	< 0.00001
Benz(a)anthracene	0.00001	mg/L	< 0.00001	< 0.00001
Benzo(a)pyrene	0.00001	mg/L	< 0.00001	< 0.00001
Benzo(b&j)fluoranthene	0.00001	mg/L	< 0.00001	< 0.00001
Benzo(g.h.i)perylene	0.00001	mg/L	< 0.00001	< 0.00001
Benzo(k)fluoranthene	0.00001	mg/L	< 0.00001	< 0.00001
Chrysene	0.00001	mg/L	< 0.00001	< 0.00001
Dibenz(a.h)anthracene	0.00001	mg/L	< 0.00001	< 0.00001
Fluoranthene	0.00001	mg/L	< 0.00001	< 0.00001
Fluorene	0.00001	mg/L	< 0.00001	< 0.00001

Client Sample ID			SW01	SW02
Sample Matrix			Water	Water
Eurofins Sample No.			S21-Ap12412	S21-Ap12413
Date Sampled			Apr 09, 2021	Apr 09, 2021
Test/Reference	LOR	Unit		
Polycyclic Aromatic Hydrocarbons (Trace level)				
Indeno(1.2.3-cd)pyrene	0.00001	mg/L	< 0.00001	< 0.00001
Naphthalene	0.00001	mg/L	< 0.00001	< 0.00001
Phenanthrene	0.00001	mg/L	< 0.00001	< 0.00001
Pyrene	0.00001	mg/L	< 0.00001	< 0.00001
Total PAH*	0.00001	mg/L	< 0.00001	< 0.00001
2-Fluorobiphenyl (surr.)	1	%	65	55
p-Terphenyl-d14 (surr.)	1	%	75	61
Ammonia (as N)	0.01	mg/L	0.05	0.03
Conductivity (at 25°C)	10	uS/cm	180	180
Nitrate (as N)	0.02	mg/L	< 0.02	< 0.02
Nitrite (as N)	0.02	mg/L	< 0.02	< 0.02
pH (at 25 °C)	0.1	pH Units	7.3	7.4
Hardness mg equivalent CaCO3/L	1	mg/L	54	53
Alkalinity (speciated)				
Bicarbonate Alkalinity (as CaCO3)	20	mg/L	56	57
Carbonate Alkalinity (as CaCO3)	10	mg/L	< 10	< 10
Hydroxide Alkalinity (as CaCO3)	20	mg/L	< 20	< 20
Total Alkalinity (as CaCO3)	20	mg/L	56	57
Heavy Metals				
Arsenic (filtered)	0.001	mg/L	0.003	0.003
Cadmium (filtered)	0.0002	mg/L	< 0.0002	< 0.0002
Chromium (filtered)	0.001	mg/L	< 0.001	0.002
Copper (filtered)	0.001	mg/L	0.005	0.006
Lead (filtered)	0.001	mg/L	< 0.001	< 0.001
Mercury (filtered)	0.0001	mg/L	< 0.0001	< 0.0001
Nickel (filtered)	0.001	mg/L	0.002	0.003
Zinc (filtered)	0.005	mg/L	< 0.005	0.007

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.

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
Eurofins Suite B7 (filtered metals/PAH trace level)			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	Apr 12, 2021	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Melbourne	Apr 12, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Apr 12, 2021	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Apr 12, 2021	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons (Trace level)	Melbourne	Apr 12, 2021	7 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water (trace)			
Metals M8 filtered	Sydney	Apr 09, 2021	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Ammonia (as N)	Melbourne	Apr 12, 2021	28 Days
- Method: APHA 4500-NH3 Ammonia Nitrogen by FIA			
Conductivity (at 25°C)	Sydney	Apr 12, 2021	28 Days
- Method: LTM-INO-4030 Conductivity			
Nitrate (as N)	Melbourne	Apr 12, 2021	28 Days
- Method: LTM-INO-4120 Analysis of NOx NO2 NH3 by FIA			
Nitrite (as N)	Melbourne	Apr 12, 2021	2 Days
- Method: LTM-INO-4120 Analysis of NOx NO2 NH3 by FIA			
pH (at 25 °C)	Sydney	Apr 12, 2021	1 Days
- Method: LTM-GEN-7090 pH in water by ISE			
Hardness mg equivalent CaCO3/L	Sydney	Apr 13, 2021	28 Days
- Method: E020.1 Hardness in water			
Alkalinity (speciated)	Melbourne	Apr 12, 2021	14 Days
- Method: LTM-INO-4250 Alkalinity by Electrometric Titration			

eurofins | Environment Testing

ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
2/91 Leach Highway
Kewdale WA 6105
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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: 251 ALDINS RD
Project ID: 60716

Order No.:
Report #: 786046
Phone: 02 8245 0300
Fax:

Received: Apr 9, 2021 2:48 PM
Due: Apr 13, 2021
Priority: 2 Day
Contact Name: Matthew Linz

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Ammonia (as N)	Conductivity (at 25°C)	Hardness mg equivalent CaCO3/L	Nitrate (as N)	Nitrite (as N)	pH (at 25 °C)	Alkalinity (speciated)	Eurofins Suite B7 (filtered metals/PAH trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271						X			X	X		X	X
Sydney Laboratory - NATA Site # 18217							X	X			X		X
Brisbane Laboratory - NATA Site # 20794													
Perth Laboratory - NATA Site # 23736													
Mayfield Laboratory													
External Laboratory													
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**								
1	SW01	Apr 09, 2021		Water	S21-Ap12412	X	X	X	X	X	X	X	X
2	SW02	Apr 09, 2021		Water	S21-Ap12413	X	X	X	X	X	X	X	X
Test Counts						2	2	2	2	2	2	2	2

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.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

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 and 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.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
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 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

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, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene 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 Aroclor 1260 in Matrix Spikes and LCS.
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 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 - 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	< 0.01			0.01	Pass	
TRH C6-C10	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 (Trace level)							
Acenaphthene	mg/L	< 0.00001			0.00001	Pass	
Acenaphthylene	mg/L	< 0.00001			0.00001	Pass	
Anthracene	mg/L	< 0.00001			0.00001	Pass	
Benz(a)anthracene	mg/L	< 0.00001			0.00001	Pass	
Benzo(a)pyrene	mg/L	< 0.00001			0.00001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.00001			0.00001	Pass	
Benzo(g.h.i)perylene	mg/L	< 0.00001			0.00001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.00001			0.00001	Pass	
Chrysene	mg/L	< 0.00001			0.00001	Pass	
Dibenz(a.h)anthracene	mg/L	< 0.00001			0.00001	Pass	
Fluoranthene	mg/L	< 0.00001			0.00001	Pass	
Fluorene	mg/L	< 0.00001			0.00001	Pass	
Indeno(1.2.3-cd)pyrene	mg/L	< 0.00001			0.00001	Pass	
Naphthalene	mg/L	< 0.00001			0.00001	Pass	
Phenanthrene	mg/L	< 0.00001			0.00001	Pass	
Pyrene	mg/L	< 0.00001			0.00001	Pass	
Total PAH*	mg/L	-			0.00001	N/A	
Method Blank							
Ammonia (as N)	mg/L	< 0.01			0.01	Pass	
Conductivity (at 25°C)	uS/cm	< 10			10	Pass	
Nitrate (as N)	mg/L	< 0.02			0.02	Pass	
Nitrite (as N)	mg/L	< 0.02			0.02	Pass	
Method Blank							
Alkalinity (speciated)							
Bicarbonate Alkalinity (as CaCO3)	mg/L	< 20			20	Pass	
Carbonate Alkalinity (as CaCO3)	mg/L	< 10			10	Pass	
Hydroxide Alkalinity (as CaCO3)	mg/L	< 20			20	Pass	
Total Alkalinity (as CaCO3)	mg/L	< 20			20	Pass	
Method Blank							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Heavy Metals							
Arsenic (filtered)	mg/L	< 0.001			0.001	Pass	
Cadmium (filtered)	mg/L	< 0.0002			0.0002	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							
TRH C6-C9	%	121			70-130	Pass	
TRH C10-C14	%	109			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	114			70-130	Pass	
Toluene	%	124			70-130	Pass	
Ethylbenzene	%	116			70-130	Pass	
m&p-Xylenes	%	120			70-130	Pass	
Xylenes - Total*	%	119			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	121			70-130	Pass	
TRH C6-C10	%	118			70-130	Pass	
TRH >C10-C16	%	112			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons (Trace level)							
Acenaphthene	%	103			70-130	Pass	
Acenaphthylene	%	96			70-130	Pass	
Anthracene	%	72			70-130	Pass	
Benz(a)anthracene	%	85			70-130	Pass	
Benzo(a)pyrene	%	98			70-130	Pass	
Benzo(b&j)fluoranthene	%	83			70-130	Pass	
Benzo(g.h.i)perylene	%	95			70-130	Pass	
Benzo(k)fluoranthene	%	82			70-130	Pass	
Chrysene	%	127			70-130	Pass	
Dibenz(a.h)anthracene	%	75			70-130	Pass	
Fluoranthene	%	90			70-130	Pass	
Fluorene	%	101			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	78			70-130	Pass	
Naphthalene	%	87			70-130	Pass	
Phenanthrene	%	77			70-130	Pass	
Pyrene	%	105			70-130	Pass	
LCS - % Recovery							
Ammonia (as N)	%	101			70-130	Pass	
Conductivity (at 25°C)	%	84			70-130	Pass	
Nitrate (as N)	%	101			70-130	Pass	
Nitrite (as N)	%	104			70-130	Pass	
LCS - % Recovery							
Alkalinity (speciated)							
Carbonate Alkalinity (as CaCO3)	%	96			70-130	Pass	
Total Alkalinity (as CaCO3)	%	99			70-130	Pass	
LCS - % Recovery							
Heavy Metals							

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Arsenic (filtered)			%	94			80-120	Pass	
Cadmium (filtered)			%	95			80-120	Pass	
Chromium (filtered)			%	93			80-120	Pass	
Copper (filtered)			%	91			80-120	Pass	
Lead (filtered)			%	94			80-120	Pass	
Mercury (filtered)			%	101			80-120	Pass	
Nickel (filtered)			%	92			80-120	Pass	
Zinc (filtered)			%	98			80-120	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 C10-C14	B21-Ap04486	NCP	%	79			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH >C10-C16	B21-Ap04486	NCP	%	77			70-130	Pass	
Spike - % Recovery									
				Result 1					
Ammonia (as N)	M21-Ap08765	NCP	%	97			70-130	Pass	
Nitrate (as N)	M21-Ap08765	NCP	%	85			70-130	Pass	
Nitrite (as N)	M21-Ap08765	NCP	%	101			70-130	Pass	
Spike - % Recovery									
Alkalinity (speciated)				Result 1					
Carbonate Alkalinity (as CaCO3)	M21-Ap15530	NCP	%	80			70-130	Pass	
Total Alkalinity (as CaCO3)	M21-Ap15530	NCP	%	71			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic (filtered)	S21-Ap06271	NCP	%	94			75-125	Pass	
Cadmium (filtered)	S21-Ap06271	NCP	%	91			75-125	Pass	
Chromium (filtered)	S21-Ap06271	NCP	%	85			75-125	Pass	
Copper (filtered)	S21-Ap06271	NCP	%	80			75-125	Pass	
Lead (filtered)	S21-Ap06271	NCP	%	83			75-125	Pass	
Mercury (filtered)	S21-Ap06271	NCP	%	94			75-125	Pass	
Nickel (filtered)	S21-Ap06271	NCP	%	81			75-125	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 C10-C14	M21-Ap09683	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH C15-C28	M21-Ap09683	NCP	mg/L	1.0	1.1	11	30%	Pass	
TRH C29-C36	M21-Ap09683	NCP	mg/L	0.1	0.1	16	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
TRH >C10-C16	M21-Ap09683	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH >C16-C34	M21-Ap09683	NCP	mg/L	1.0	1.1	11	30%	Pass	
TRH >C34-C40	M21-Ap09683	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons (Trace level)				Result 1	Result 2	RPD			
Acenaphthene	M21-Ap02745	NCP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass	
Acenaphthylene	M21-Ap02745	NCP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass	
Anthracene	M21-Ap02745	NCP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass	
Benz(a)anthracene	M21-Ap02745	NCP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass	
Benzo(a)pyrene	M21-Ap02745	NCP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass	
Benzo(b&j)fluoranthene	M21-Ap02745	NCP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass	
Benzo(g.h.i)perylene	M21-Ap02745	NCP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass	

Duplicate									
Polycyclic Aromatic Hydrocarbons (Trace level)				Result 1	Result 2	RPD			
Benzo(k)fluoranthene	M21-Ap02745	NCP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass	
Chrysene	M21-Ap02745	NCP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass	
Dibenz(a.h)anthracene	M21-Ap02745	NCP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass	
Fluoranthene	M21-Ap02745	NCP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass	
Fluorene	M21-Ap02745	NCP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	M21-Ap02745	NCP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass	
Naphthalene	M21-Ap02745	NCP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass	
Phenanthrene	M21-Ap02745	NCP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass	
Pyrene	M21-Ap02745	NCP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Ammonia (as N)	M21-Ap06370	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Conductivity (at 25°C)	S21-Ap12412	CP	uS/cm	180	180	2.0	30%	Pass	
Nitrate (as N)	M21-Ap06370	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
Nitrite (as N)	M21-Ap06370	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
Hardness mg equivalent CaCO3/L	S21-Ap12412	CP	mg/L	54	53	1.0	30%	Pass	
Duplicate									
Alkalinity (speciated)				Result 1	Result 2	RPD			
Bicarbonate Alkalinity (as CaCO3)	M21-Ap15529	NCP	mg/L	110	110	3.0	30%	Pass	
Carbonate Alkalinity (as CaCO3)	M21-Ap15529	NCP	mg/L	20	21	4.0	30%	Pass	
Hydroxide Alkalinity (as CaCO3)	M21-Ap15529	NCP	mg/L	< 20	< 20	<1	30%	Pass	
Total Alkalinity (as CaCO3)	M21-Ap15529	NCP	mg/L	130	130	3.0	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic (filtered)	S21-Ap03310	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Cadmium (filtered)	S21-Ap03310	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Chromium (filtered)	S21-Ap03310	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Copper (filtered)	S21-Ap03310	NCP	mg/L	0.004	0.004	1.0	30%	Pass	
Lead (filtered)	S21-Ap03310	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Mercury (filtered)	S21-Ap03310	NCP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel (filtered)	S21-Ap03310	NCP	mg/L	0.003	0.003	<1	30%	Pass	
Zinc (filtered)	S21-Ap03310	NCP	mg/L	0.024	0.024	1.0	30%	Pass	

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

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.

Authorised by:

Ursula Long	Analytical Services Manager
Charl Du Preez	Senior Analyst-Inorganic (NSW)
John Nguyen	Senior Analyst-Metal (NSW)
Joseph Edouard	Senior Analyst-Organic (VIC)
Scott Beddoes	Senior Analyst-Inorganic (VIC)
Vivian Wang	Senior Analyst-Volatile (VIC)

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.: 60716	LABORATORY BATCH NO.:
PROJECT NAME: 251 Aldins Rd	SAMPLERS: ML. MS
DATE NEEDED BY: 24h TAT	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) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	PAH (low levels)	TPH/BTEX	EC, pH, alkalinity	Hardness	Nitrate/Nitrite	Ammonia	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
SW01	Water	9-4-21	1	Viles + Ice		/	/	/	/	/	/	/			786046
SW02	Water	9-4-21		"		/	/	/	/	/	/	/			

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: ML.1Z DATE: 9-4-21.	CONSIGNMENT NOTE NO. Drop-off	NAME: MWR	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 9/4/21 2:48PM	COOLER TEMP 5.3 deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	OF: Ewofing	
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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eurofins | Environment Testing

ABN: 50 005 085 521 www.eurofins.com.au EnviroSales@eurofins.com

Australia

Melbourne
6 Monterey Road
Dandenong South VIC 3175
Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
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

Perth
2/91 Leach Highway
Kewdale WA 6105
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

Newcastle
4/52 Industrial Drive
Mayfield East NSW 2304
PO Box 60 Wickham 2293
Phone : +61 2 4968 8448

New Zealand

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:	Matthew Linz
Project name:	251 ALDINS RD
Project ID:	60716
Turnaround time:	2 Day
Date/Time received	Apr 9, 2021 2:48 PM
Eurofins reference	786046

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 Sample Receipt : 5.3 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 Matthew Linz - mlinz@jbsg.com.au.

Global Leader - Results you can trust

Chain of Custody

1081006

JBS&G

PROJECT NO.: ALDINGTON 04	LABORATORY BATCH NO.:
PROJECT NAME: 66105	SAMPLERS: MASSIMO CHARMAN
DATE NEEDED BY: 48 HR.	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) .....@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:
1x - 01	SOIL	22/3/24		3502		X		X	
02									
03									
04									
05									
06									
07									
08									
09									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: MASSIMO CHARMAN DATE: 22/3/24	CONSIGNMENT NOTE NO.	NAME: Blakeout	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 6:30 pm	COOLER TEMP ..... deg C N/A
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME:	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

22/3/24

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Chain of Custody

JBS&G

PROJECT NO.: ADDINGTON – 04
PROJECT NAME: 66105
DATE NEEDED BY: 48 HR

LABORATORY BATCH NO.:
SAMPLERS: MASSIMO CHAPMAN.
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) melbourne.....@jbsg.com.au; (3) .....Sknott.....@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:
~~TX~~ – 20	SOIL	22/3/24		BAG.		X		X	
21									
TP07 – E									
S									
W									
N									
B									
BC – 01									
02									
03									
04									
05									
06									
07									
08									
09									
10									
11									
12									

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: MASSIMO CHAPMAN DATE: 22/3/24 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.:	LABORATORY BATCH NO.:
PROJECT NAME:	SAMPLERS:
DATE NEEDED BY:	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) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	AS bedtops	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
BC - 13	SOIL	22/3/24		PAE		X		X	
↓ 14	↓	↓		↓		↓		↓	
↓ 15									
↓ 16									
QC03									
QC04									

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: MASSIMO DATE: 22/3/24	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G CHASTOMER	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

Controlled Copy (June 2015)

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eurofins | Environment Testing

www.eurofins.com.au EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

Eurofins ARL Pty Ltd

ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
NATA# 2377
Site# 2370

Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

Auckland	Auckland (Asb)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,
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+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Massimo Chapman
Project name:	ALDINGTON_04
Project ID:	66105
Turnaround time:	2 Day
Date/Time received	Mar 22, 2024 6:30 PM
Eurofins reference	1081006

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

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 Massimo Chapman - mchapman@jbsg.com.au.

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web: www.eurofins.com.au
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: ALDINGTON_04
Project ID: 66105

Order No.:
Report #: 1081006
Phone: 02 8245 0300
Fax:

Received: Mar 22, 2024 6:30 PM
Due: Mar 26, 2024
Priority: 2 Day
Contact Name: Massimo Chapman

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	IX_01	Mar 22, 2024		Soil	S24-Ma0056361	X
2	IX_02	Mar 22, 2024		Soil	S24-Ma0056362	X
3	IX_03	Mar 22, 2024		Soil	S24-Ma0056363	X
4	IX_04	Mar 22, 2024		Soil	S24-Ma0056364	X
5	IX_05	Mar 22, 2024		Soil	S24-Ma0056365	X
6	IX_06	Mar 22, 2024		Soil	S24-Ma0056366	X
7	IX_07	Mar 22, 2024		Soil	S24-Ma0056367	X
8	IX_08	Mar 22, 2024		Soil	S24-Ma0056368	X
9	IX_09	Mar 22, 2024		Soil	S24-Ma0056369	X
10	IX_10	Mar 22, 2024		Soil	S24-Ma0056370	X
11	IX_11	Mar 22, 2024		Soil	S24-Ma0056371	X
12	IX_12	Mar 22, 2024		Soil	S24-Ma0056372	X
13	IX_13	Mar 22, 2024		Soil	S24-Ma0056373	X

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

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NSW 2000

Project Name: ALDINGTON_04
Project ID: 66105

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Report #: 1081006
Phone: 02 8245 0300
Fax:

Received: Mar 22, 2024 6:30 PM
Due: Mar 26, 2024
Priority: 2 Day
Contact Name: Massimo Chapman

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
14	IX_14	Mar 22, 2024		Soil	S24-Ma0056374	X
15	IX_15	Mar 22, 2024		Soil	S24-Ma0056375	X
16	IX_16	Mar 22, 2024		Soil	S24-Ma0056376	X
17	IX_17	Mar 22, 2024		Soil	S24-Ma0056377	X
18	IX_18	Mar 22, 2024		Soil	S24-Ma0056378	X
19	IX_19	Mar 22, 2024		Soil	S24-Ma0056379	X
20	IX_20	Mar 22, 2024		Soil	S24-Ma0056380	X
21	IX_21	Mar 22, 2024		Soil	S24-Ma0056381	X
22	TP09-E	Mar 22, 2024		Soil	S24-Ma0056382	X
23	TP09-S	Mar 22, 2024		Soil	S24-Ma0056383	X
24	TP09-W	Mar 22, 2024		Soil	S24-Ma0056384	X
25	TP09-N	Mar 22, 2024		Soil	S24-Ma0056385	X
26	TP09-B	Mar 22, 2024		Soil	S24-Ma0056386	X
27	6C_01	Mar 22, 2024		Soil	S24-Ma0056387	X
28	6C_02	Mar 22, 2024		Soil	S24-Ma0056388	X
29	6C_03	Mar 22, 2024		Soil	S24-Ma0056389	X

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

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Project Name: ALDINGTON_04
Project ID: 66105

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Phone: 02 8245 0300
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Received: Mar 22, 2024 6:30 PM
Due: Mar 26, 2024
Priority: 2 Day
Contact Name: Massimo Chapman

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
30	6C_04	Mar 22, 2024		Soil	S24-Ma0056390	X
31	6C_05	Mar 22, 2024		Soil	S24-Ma0056391	X
32	6C_06	Mar 22, 2024		Soil	S24-Ma0056392	X
33	6C_07	Mar 22, 2024		Soil	S24-Ma0056393	X
34	6C_08	Mar 22, 2024		Soil	S24-Ma0056394	X
35	6C_09	Mar 22, 2024		Soil	S24-Ma0056395	X
36	6C_10	Mar 22, 2024		Soil	S24-Ma0056396	X
37	6C_11	Mar 22, 2024		Soil	S24-Ma0056397	X
38	6C_12	Mar 22, 2024		Soil	S24-Ma0056398	X
39	6C_13	Mar 22, 2024		Soil	S24-Ma0056399	X
40	6C_14	Mar 22, 2024		Soil	S24-Ma0056400	X
41	6C_15	Mar 22, 2024		Soil	S24-Ma0056401	X
42	6C_16	Mar 22, 2024		Soil	S24-Ma0056402	X
43	QC03	Mar 22, 2024		Soil	S24-Ma0056403	X
44	QC04	Mar 22, 2024		Soil	S24-Ma0056404	X
Test Counts						44

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention:	Massimo Chapman
Report	1081006-AID
Project Name	ALDINGTON_04
Project ID	66105
Received Date	Mar 22, 2024
Date Reported	Mar 27, 2024

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 ALDINGTON_04
Project ID 66105
Date Sampled Mar 22, 2024
Report 1081006-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
IX_01	24-Ma0056361	Mar 22, 2024	Approximate Sample 617g Sample consisted of: Brown fine-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.
IX_02	24-Ma0056362	Mar 22, 2024	Approximate Sample 402g / >500ml Sample consisted of: Brown fine-grained clayey sandy soil, plant matter and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
IX_03	24-Ma0056363	Mar 22, 2024	Approximate Sample 756g Sample consisted of: Brown fine-grained clayey sandy soil, plant matter and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Synthetic mineral fibre detected. Organic fibre detected. No trace asbestos detected.
IX_04	24-Ma0056364	Mar 22, 2024	Approximate Sample 652g Sample consisted of: Brown fine-grained clayey sandy soil, plant matter and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
IX_05	24-Ma0056365	Mar 22, 2024	Approximate Sample 732g Sample consisted of: Brown fine-grained clayey sandy soil, plant matter and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
IX_06	24-Ma0056366	Mar 22, 2024	Approximate Sample 700g Sample consisted of: Brown fine-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.
IX_07	24-Ma0056367	Mar 22, 2024	Approximate Sample 522g Sample consisted of: Brown fine-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.
IX_08	24-Ma0056368	Mar 22, 2024	Approximate Sample 494g / >500ml Sample consisted of: Brown fine-grained clayey sandy soil, plant matter 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
IX_09	24-Ma0056369	Mar 22, 2024	Approximate Sample 570g Sample consisted of: Brown fine-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.
IX_10	24-Ma0056370	Mar 22, 2024	Approximate Sample 518g 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.
IX_11	24-Ma0056371	Mar 22, 2024	Approximate Sample 450g / >500ml 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.
IX_12	24-Ma0056372	Mar 22, 2024	Approximate Sample 420g / >500ml Sample consisted of: Brown fine-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.
IX_13	24-Ma0056373	Mar 22, 2024	Approximate Sample 311g / >500ml Sample consisted of: Brown fine-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.
IX_14	24-Ma0056374	Mar 22, 2024	Approximate Sample 487g / >500ml Sample consisted of: Brown fine-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.
IX_15	24-Ma0056375	Mar 22, 2024	Approximate Sample 559g 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.
IX_16	24-Ma0056376	Mar 22, 2024	Approximate Sample 524g Sample consisted of: Brown fine-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.
IX_17	24-Ma0056377	Mar 22, 2024	Approximate Sample 346g / >500ml Sample consisted of: Brown fine-grained clayey sandy soil, plant matter and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
IX_18	24-Ma0056378	Mar 22, 2024	Approximate Sample 483g / >500ml 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.
IX_19	24-Ma0056379	Mar 22, 2024	Approximate Sample 568g Sample consisted of: Brown fine-grained clayey sandy soil, plant matter and rocks	FA: Chrysotile asbestos detected in weathered fibre cement material. Approximate raw weight of FA = 0.019g Estimated asbestos content in FA = 0.0056g* Total estimated asbestos concentration in FA = 0.00099% 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
IX_20	24-Ma0056380	Mar 22, 2024	Approximate Sample 598g 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.
IX_21	24-Ma0056381	Mar 22, 2024	Approximate Sample 599g 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.
TP09-E	24-Ma0056382	Mar 22, 2024	Approximate Sample 760g Sample consisted of: Brown fine-grained clayey sandy soil, sand stone, bitumen like material and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP09-S	24-Ma0056383	Mar 22, 2024	Approximate Sample 501g 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.
TP09-W	24-Ma0056384	Mar 22, 2024	Approximate Sample 621g 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.
TP09-N	24-Ma0056385	Mar 22, 2024	Approximate Sample 595g 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.
TP09-B	24-Ma0056386	Mar 22, 2024	Approximate Sample 618g 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.
6C_01	24-Ma0056387	Mar 22, 2024	Approximate Sample 765g Sample consisted of: Black fine-grained clayey sandy soil, bitumen like material and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
6C_02	24-Ma0056388	Mar 22, 2024	Approximate Sample 567g Sample consisted of: Black fine-grained clayey sandy soil, organic debris, bitumen like material and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
6C_03	24-Ma0056389	Mar 22, 2024	Approximate Sample 599g 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.
6C_04	24-Ma0056390	Mar 22, 2024	Approximate Sample 544g 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.
6C_05	24-Ma0056391	Mar 22, 2024	Approximate Sample 529g Sample consisted of: Grey coarse-grained clayey sandy soil, sand stone, organic debris and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
6C_06	24-Ma0056392	Mar 22, 2024	Approximate Sample 542g Sample consisted of: Brown fine-grained clayey sandy soil, plant matter 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
6C_07	24-Ma0056393	Mar 22, 2024	Approximate Sample 681g Sample consisted of: Red-Brown coarse-grained clayey soil and rocks	AF: Chrysotile asbestos detected in the form of loose fibre bundles. Approximate raw weight of AF = 0.94g* Estimated asbestos content in AF = 0.90g* Total estimated asbestos concentration in AF = 0.13% w/w* Organic fibre detected. No trace asbestos detected.
6C_08	24-Ma0056394	Mar 22, 2024	Approximate Sample 825g Sample consisted of: Brown fine-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.
6C_09	24-Ma0056395	Mar 22, 2024	Approximate Sample 604g Sample consisted of: Brown fine-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.
6C_10	24-Ma0056396	Mar 22, 2024	Approximate Sample 831g Sample consisted of: Black fine-grained clayey sandy soil, bitumen like material and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
6C_11	24-Ma0056397	Mar 22, 2024	Approximate Sample 540g Sample consisted of: Brown fine-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.
6C_12	24-Ma0056398	Mar 22, 2024	Approximate Sample 630g 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.
6C_13	24-Ma0056399	Mar 22, 2024	Approximate Sample 720g Sample consisted of: Brown fine-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.
6C_14	24-Ma0056400	Mar 22, 2024	Approximate Sample 849g Sample consisted of: Brown fine-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.
6C_15	24-Ma0056401	Mar 22, 2024	Approximate Sample 487g / >500ml 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.
6C_16	24-Ma0056402	Mar 22, 2024	Approximate Sample 500g Sample consisted of: Brown fine-grained 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.
QC03	24-Ma0056403	Mar 22, 2024	Approximate Sample 592g 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.
QC04	24-Ma0056404	Mar 22, 2024	Approximate Sample 843g Sample consisted of: Black fine-grained clayey sandy soil, bitumen like material 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, 2024	Indefinite

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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
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
NATA# 2377
Site# 2370

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland	Auckland (Asb)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,
Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: ALDINGTON_04
Project ID: 66105

Order No.:
Report #: 1081006
Phone: 02 8245 0300
Fax:

Received: Mar 22, 2024 6:30 PM
Due: Mar 26, 2024
Priority: 2 Day
Contact Name: Massimo Chapman

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	IX_01	Mar 22, 2024		Soil	S24-Ma0056361	X
2	IX_02	Mar 22, 2024		Soil	S24-Ma0056362	X
3	IX_03	Mar 22, 2024		Soil	S24-Ma0056363	X
4	IX_04	Mar 22, 2024		Soil	S24-Ma0056364	X
5	IX_05	Mar 22, 2024		Soil	S24-Ma0056365	X
6	IX_06	Mar 22, 2024		Soil	S24-Ma0056366	X
7	IX_07	Mar 22, 2024		Soil	S24-Ma0056367	X
8	IX_08	Mar 22, 2024		Soil	S24-Ma0056368	X
9	IX_09	Mar 22, 2024		Soil	S24-Ma0056369	X
10	IX_10	Mar 22, 2024		Soil	S24-Ma0056370	X
11	IX_11	Mar 22, 2024		Soil	S24-Ma0056371	X
12	IX_12	Mar 22, 2024		Soil	S24-Ma0056372	X
13	IX_13	Mar 22, 2024		Soil	S24-Ma0056373	X

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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
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
NATA# 2377
Site# 2370

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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: ALDINGTON_04
Project ID: 66105

Order No.:
Report #: 1081006
Phone: 02 8245 0300
Fax:

Received: Mar 22, 2024 6:30 PM
Due: Mar 26, 2024
Priority: 2 Day
Contact Name: Massimo Chapman

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
14	IX_14	Mar 22, 2024		Soil	S24-Ma0056374	X
15	IX_15	Mar 22, 2024		Soil	S24-Ma0056375	X
16	IX_16	Mar 22, 2024		Soil	S24-Ma0056376	X
17	IX_17	Mar 22, 2024		Soil	S24-Ma0056377	X
18	IX_18	Mar 22, 2024		Soil	S24-Ma0056378	X
19	IX_19	Mar 22, 2024		Soil	S24-Ma0056379	X
20	IX_20	Mar 22, 2024		Soil	S24-Ma0056380	X
21	IX_21	Mar 22, 2024		Soil	S24-Ma0056381	X
22	TP09-E	Mar 22, 2024		Soil	S24-Ma0056382	X
23	TP09-S	Mar 22, 2024		Soil	S24-Ma0056383	X
24	TP09-W	Mar 22, 2024		Soil	S24-Ma0056384	X
25	TP09-N	Mar 22, 2024		Soil	S24-Ma0056385	X
26	TP09-B	Mar 22, 2024		Soil	S24-Ma0056386	X
27	6C_01	Mar 22, 2024		Soil	S24-Ma0056387	X
28	6C_02	Mar 22, 2024		Soil	S24-Ma0056388	X
29	6C_03	Mar 22, 2024		Soil	S24-Ma0056389	X

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
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Contact Name: Massimo Chapman

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
30	6C_04	Mar 22, 2024		Soil	S24-Ma0056390	X
31	6C_05	Mar 22, 2024		Soil	S24-Ma0056391	X
32	6C_06	Mar 22, 2024		Soil	S24-Ma0056392	X
33	6C_07	Mar 22, 2024		Soil	S24-Ma0056393	X
34	6C_08	Mar 22, 2024		Soil	S24-Ma0056394	X
35	6C_09	Mar 22, 2024		Soil	S24-Ma0056395	X
36	6C_10	Mar 22, 2024		Soil	S24-Ma0056396	X
37	6C_11	Mar 22, 2024		Soil	S24-Ma0056397	X
38	6C_12	Mar 22, 2024		Soil	S24-Ma0056398	X
39	6C_13	Mar 22, 2024		Soil	S24-Ma0056399	X
40	6C_14	Mar 22, 2024		Soil	S24-Ma0056400	X
41	6C_15	Mar 22, 2024		Soil	S24-Ma0056401	X
42	6C_16	Mar 22, 2024		Soil	S24-Ma0056402	X
43	QC03	Mar 22, 2024		Soil	S24-Ma0056403	X
44	QC04	Mar 22, 2024		Soil	S24-Ma0056404	X
Test Counts						44

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**). This estimate is not NATA-accredited.
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	N/A
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Asbestos Counter/Identifier:

Sayeed Abu	Senior Analyst-Asbestos

Authorised by:

Laxman Dias	Senior Analyst-Asbestos

Glenn Jackson
Managing Director

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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Attachment 5 – JBS&G Logs

TEST PIT TP01

PROJECT NUMBER 60716	**DRILLING COMPANY** Terex	**EASTING** N/A
PROJECT NAME 235-251 Aldington Road, Kemp	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Australia Pty Ltd	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 235-251 Aldington Road, Kemps Creep, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE** Map Approximation
	DIMENSIONS 0.3 x 0.5 m	**LOGGED BY** MS

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1 0.2 0.3 0.4 0.5 0.6		ML-SM:Sand SILT (ML-SM)	Fill: Sandy SILT topsoil, dark brown, heterogeneous, non-plastic, dry, inclusions of bricks and igneous gravels	D	TP01-0-0.6		No odour, staining or ACM
		0.7 0.8 0.9 1 1.1		CL-ML:Silty CLAY (CL-ML)	silty CLAY, red/orange, homogeneous, medium plasticity, damp, soft	SM	TP01-1-1.1		No odour, staining or ACM. End of hole @ 1.1 m.
		1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9			Termination Depth at: 1.1 m.				

Disclaimer This log is intended for environmental not geotechnical purposes.

produced by ESlog.ESdat.net on 13 Apr 2021

TEST PIT TP02

PROJECT NUMBER 60716	**DRILLING COMPANY** Terex	**EASTING** N/A
PROJECT NAME 235-251 Aldington Road, Kemp	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Australia Pty Ltd	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 235-251 Aldington Road, Kemps Creep, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE** Map Approximation
	DIMENSIONS 0.3 x 0.5 m	**LOGGED BY** MS

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		ML:SILT (ML)	Fill: SILT topsoil, dark brown, heterogeneous, non-plastic, dry, inclusions of grass roots and igneous gravels	D	TP02-0-0.1		No odour, staining or ACM
		0.2		CL-ML:Silty CLAY (CL-ML)	Fill: Re-worked silty CLAY, red/orange, heterogeneous, low plasticity, dry, inclusions of igneous gravels	D	TP02-0.2-0.3		No odour, staining or ACM
		0.4		CL-ML:Silty CLAY (CL-ML)	silty CLAY, red/orange, homogeneous, medium plasticity, damp, soft	SM	TP02-0.4-0.5		No odour, staining or ACM. End of hole @ 1.0 m.
		1			Termination Depth at: 1.0 m.				
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

Disclaimer This log is intended for environmental not geotechnical purposes.

produced by ESlog.ESdat.net on 13 Apr 2021

TEST PIT TP03

PROJECT NUMBER 60716	**DRILLING COMPANY** Terex	**EASTING** N/A
PROJECT NAME 235-251 Aldington Road, Kemp	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Australia Pty Ltd	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 235-251 Aldington Road, Kemps Creep, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE** Map Approximation
	DIMENSIONS 0.3 x 0.5 m	**LOGGED BY** MS

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		CL-ML:Silty CLAY	Fill: silty CLAY, dark brown, heterogeneous, non-plastic, dry, inclusions of grass roots and igneous gravels	D	TP03-0-0.1		No odour, staining or ACM
		0.2		CL-ML:Silty CLAY (CL-ML)	Fill: Re-worked silty CLAY, red/orange, heterogeneous, low plasticity, dry, inclusions of igneous gravels and tile		TP03-0.4-0.5		No odour, staining or ACM
		0.6		CL-ML:Silty CLAY (CL-ML)	silty CLAY, red/brown, homogeneous, medium plasticity, damp, soft	SM	TP03-0.9-1		No odour, staining or ACM. End of hole @ 1.1 m.
		1.1			Termination Depth at: 1.1 m.				

TEST PIT TP04

PROJECT NUMBER 60716	**DRILLING COMPANY** Terex	**EASTING** N/A
PROJECT NAME 235-251 Aldington Road, Kemp	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Australia Pty Ltd	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 235-251 Aldington Road, Kemps Creep, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE** Map Approximation
	DIMENSIONS 0.3 x 0.5 m	**LOGGED BY** MS

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		CL-ML:Silty CLAY	Fill: silty CLAY topsoil, dark brown, heterogeneous, non-plastic, dry	D	TP04-0-0.1		No odour, staining or ACM
		0.2		CL-ML:Silty CLAY (CL-ML)	Fill: Re-worked silty CLAY, red/brown, heterogeneous, low plasticity, damp, inclusions of igneous gravels	SM	TP04-0.2-0.3		No odour, staining or ACM
		0.3		CL-ML:Silty CLAY (CL-ML)	silty CLAY, red/brown, homogeneous, medium plasticity, damp, soft	SM	TP04-0.4-0.5		No odour, staining or ACM. End of hole @ 0.5 m.
		0.5			Termination Depth at: 0.5 m.				
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP05

PROJECT NUMBER 60716	**DRILLING COMPANY** Terex	**EASTING** N/A
PROJECT NAME 235-251 Aldington Road, Kemp	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Australia Pty Ltd	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 235-251 Aldington Road, Kemps Creep, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE** Map Approximation
	DIMENSIONS 0.3 x 0.5 m	**LOGGED BY** MS

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1 0.2 0.3 0.4		CL-ML:Silty CLAY (CL-ML)	Fill: Re-worked silty CLAY, red/brown, heterogeneous, low plasticity, damp	SM	TP05-0-0.4		No odour, staining or ACM
		0.5 0.6 0.7		CL-ML:Silty CLAY (CL-ML)	silty CLAY, grey, homogeneous, low plasticity, dry, very stiff	D	TP05-0.4-0.5		No odour, staining or ACM. End of hole @ 0.7 m.
		0.8 0.9 1 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9			Termination Depth at: 0.7 m.				

TEST PIT TP06

PROJECT NUMBER 60716	**DRILLING COMPANY** Terex	**EASTING** N/A
PROJECT NAME 235-251 Aldington Road, Kemp	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Australia Pty Ltd	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 235-251 Aldington Road, Kemps Creep, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE** Map Approximation
	DIMENSIONS 0.3 x 0.5 m	**LOGGED BY** MS

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		CL-ML:Silty CLAY (CL-ML)	Fill: silty CLAY topsoil, dark brown, heterogeneous, non-plastic, dry, inclusions of grass roots	D	TP06-0-0.1		No odour, staining or ACM. QA-01/QC-01
		0.2		CL-ML:Silty CLAY (CL-ML)	silty CLAY, red/brown, homogeneous, high plasticity, dry, firm	D	TP06-0.3-0.4		No odour, staining or ACM. End of hole @ 0.5 m.
		0.3							
		0.4							
		0.5			Termination Depth at: 0.5 m.				
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP07

PROJECT NUMBER 60716	**DRILLING COMPANY** Terex	**EASTING** N/A
PROJECT NAME 235-251 Aldington Road, Kemp	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Australia Pty Ltd	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 235-251 Aldington Road, Kemps Creep, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE** Map Approximation
	DIMENSIONS 0.3 x 0.5 m	**LOGGED BY** MS

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1 0.2 0.3		CL-ML:Silty CLAY (CL-ML)	Fill: silty CLAY topsoil, dark brown, heterogeneous, non-plastic, dry	D	TP07-0-0.3		No odour, staining or ACM
		0.4 0.5 0.6		CL-ML:Silty CLAY (CL-ML)	silty CLAY, red/brown/yellow, homogeneous, high plasticity, damp, firm	SM	TP07-0.4-0.5		No odour, staining or ACM. End of hole @ 0.6 m.
		0.7 0.8 0.9 1 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9			Termination Depth at: 0.6 m.				

TEST PIT TP08

PROJECT NUMBER 60716	**DRILLING COMPANY** Terex	**EASTING** N/A
PROJECT NAME 235-251 Aldington Road, Kemp	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Australia Pty Ltd	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 235-251 Aldington Road, Kemps Creep, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE** Map Approximation
	DIMENSIONS 0.3 x 0.5 m	**LOGGED BY** MS

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		CL-ML:Silty CLAY	Fill: silty CLAY topsoil, dark brown, heterogeneous, non-plastic, dry, inclusions of grass roots	D	TP08-0-0.1		No odour, staining or ACM
		0.2		CL-ML:Silty CLAY (CL-ML)	silty CLAY, red/brown, homogeneous, high plasticity, damp, firm	SM	TP08-0.4-0.5		No odour, staining or ACM. End of hole @ 0.6 m.
		0.6			Termination Depth at: 0.6 m.				
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP09

PROJECT NUMBER 60716	**DRILLING COMPANY** Terex	**EASTING** N/A
PROJECT NAME 235-251 Aldington Road, Kemp	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Australia Pty Ltd	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 235-251 Aldington Road, Kemps Creep, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE** Map Approximation
	DIMENSIONS 0.3 x 0.5 m	**LOGGED BY** MS

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1 0.2 0.3		CL-ML:Silty CLAY (CL-ML)	Fill: silty CLAY, dark brown, heterogeneous, low plasticity, dry, firm	D	TP09-0-0.3		No odour, staining or ACM
		0.4 0.5		CL-ML:Silty CLAY (CL-ML)	Fill: silty CLAY, dark brown, heterogeneous, medium plasticity, dry, firm, inclusions of gravels	D	TP09-0.4-0.5		Abestos fragment. No odour, staining.
		0.6 0.7 0.8 0.9 1		CL-ML:Silty CLAY (CL-ML)	silty CLAY, red/brown, homogeneous, high plasticity, damp, firm	SM	TP09-0.9-1		No odour, staining or ACM. End of hole @ 1.0 m.
		1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9			Termination Depth at: 1.0 m.				

TEST PIT TP10

PROJECT NUMBER 60716	**DRILLING COMPANY** Terex	**EASTING** N/A
PROJECT NAME 235-251 Aldington Road, Kemp	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Australia Pty Ltd	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 235-251 Aldington Road, Kemps Creep, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE** Map Approximation
	DIMENSIONS 0.3 x 0.5 m	**LOGGED BY** MS

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8		ML-CL-GC:C Gravelly SILT (ML-CL-GC)	Fill: clayey gravelly SILT, brown, heterogeneous, dry, inclusions of gravels, concrete, plastic and glass	D	TP10-0-0.8		No odour, staining or ACM.
		0.9 1		CL-ML:Silty CLAY (CL-ML)	silty CLAY, red/brown, homogeneous, high plasticity, damp, firm	SM	TP10-0.9-1		No odour, staining or ACM. End of hole @ 1.0 m.
		1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9			Termination Depth at: 1.0 m.				

TEST PIT TP11

PROJECT NUMBER 60716	**DRILLING COMPANY** Terex	**EASTING** N/A
PROJECT NAME 235-251 Aldington Road, Kemp	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Australia Pty Ltd	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 235-251 Aldington Road, Kemps Creep, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE** Map Approximation
	DIMENSIONS 0.3 x 0.5 m	**LOGGED BY** MS

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1 0.2 0.3		CL-ML:Silty CLAY (CL-ML)	Fill: silty CLAY, light brown, heterogeneous, medium plasticity, damp, soft, inclusions of gravels	SM	TP11-0-0.3		No odour, staining or ACM
		0.4 0.5		CL-ML:Silty CLAY (CL-ML)	silty CLAY, red/brown, homogeneous, high plasticity, damp, firm	SM	TP11-0.4-0.5		No odour, staining or ACM. End of hole @ 0.5 m.
		0.6 0.7 0.8 0.9 1 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9			Termination Depth at: 0.5 m.				

TEST PIT TP12

PROJECT NUMBER 60716	**DRILLING COMPANY** Terex	**EASTING** N/A
PROJECT NAME 235-251 Aldington Road, Kemp	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Australia Pty Ltd	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 235-251 Aldington Road, Kemps Creep, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE** Map Approximation
	DIMENSIONS 0.3 x 0.5 m	**LOGGED BY** ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		CL-ML:Silty CLAY (CL-ML)	Fill: silty CLAY, light brown, heterogeneous, medium plasticity, dry, inclusions of grass roots, glass, plastic and tiles	D	TP12-0-0.1		No odour, staining or ACM
		0.2		CL-ML:Silty CLAY (CL-ML)	silty CLAY, red/brown, homogeneous, high plasticity, damp, soft	SM	TP12-0.2-0.3		
		0.3							No odour, staining or ACM. End of hole @ 0.4 m.
		0.4			Termination Depth at: 0.4 m.				
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP13

PROJECT NUMBER 60716	**DRILLING COMPANY** Terex	**EASTING** N/A
PROJECT NAME 235-251 Aldington Road, Kemp	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Australia Pty Ltd	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 235-251 Aldington Road, Kemps Creep, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE** Map Approximation
	DIMENSIONS 0.3 x 0.5 m	**LOGGED BY** ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		CL-ML:Silty CLAY (CL-ML)	Fill: silty CLAY, light brown, heterogeneous, medium plasticity, damp, inclusions of plastic and glass	SM	TP13-0-0.1		No odour, staining or ACM
		0.2		CL-ML:Silty CLAY (CL-ML)	silty CLAY, red/brown, homogeneous, high plasticity, damp, firm	SM	TP13-0.3-0.4		No odour, staining or ACM. End of hole @ 0.4 m.
		0.3							
		0.4			Termination Depth at: 0.4 m.				
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP14

PROJECT NUMBER 60716	**DRILLING COMPANY** Terex	**EASTING** N/A
PROJECT NAME 235-251 Aldington Road, Kemp	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Australia Pty Ltd	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 235-251 Aldington Road, Kemps Creep, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE** Map Approximation
	DIMENSIONS 0.3 x 0.5 m	**LOGGED BY** ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		CL-ML:Silty CLAY (CL-ML)	Fill: silty CLAY, light brown, heterogeneous, medium plasticity, dry, inclusions of grass roots	D	TP14-0-0.1		No odour, staining or ACM
		0.2		CL-ML:Silty CLAY (CL-ML)	silty CLAY, red/brown, homogeneous, high plasticity, damp, firm	SM	TP14-0.2-0.3		No odour, staining or ACM. End of hole @ 0.3 m.
		0.3		(CL-ML)	Termination Depth at: 0.3 m.				
		0.4							
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP15

PROJECT NUMBER 60716	**DRILLING COMPANY** Terex	**EASTING** N/A
PROJECT NAME 235-251 Aldington Road, Kemp	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Australia Pty Ltd	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 235-251 Aldington Road, Kemps Creep, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE** Map Approximation
	DIMENSIONS 0.3 x 0.5 m	**LOGGED BY** ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		CL-ML:Silty CLAY	Fill: silty CLAY topsoil, dark brown, heterogeneous, medium plasticity, damp, inclusions of grass roots	SM	TP15-0-0.1		No odour, staining or ACM
		0.2		CL-ML:Silty CLAY (CL-ML)	Fill: Re-worked silty CLAY, red, heterogeneous, medium plasticity, damp, firm	SM	TP15-0.2-0.3		No odour, staining or ACM
		0.4		CL-ML:Silty CLAY (CL-ML)	silty CLAY, yellow/grey, homogeneous, high plasticity, damp, firm	SM	TP15-0.5-0.6		No odour, staining or ACM. End of hole @ 0.6 m.
		0.6			Termination Depth at: 0.6 m.				
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP16

PROJECT NUMBER 60716	**DRILLING COMPANY** Terex	**EASTING** N/A
PROJECT NAME 235-251 Aldington Road, Kemp	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Australia Pty Ltd	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 235-251 Aldington Road, Kemps Creep, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE** Map Approximation
	DIMENSIONS 0.3 x 0.5 m	**LOGGED BY** ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		CL-ML:Silty CLAY	Fill: silty CLAY topsoil, dark brown, heterogeneous, medium plasticity, damp, inclusions of grass roots and plastic	SM	TP16-0-0.1		No odour, staining or ACM
		0.2		CL-ML:Silty CLAY (CL-ML)	silty CLAY, red/brown, homogeneous, high plasticity, damp, firm	SM	TP16-0.3-0.4		No odour, staining or ACM. End of hole @ 0.4 m.
		0.3							
		0.4			Termination Depth at: 0.4 m.				
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP17

PROJECT NUMBER 60716	**DRILLING COMPANY** Terex	**EASTING** N/A
PROJECT NAME 235-251 Aldington Road, Kemp	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Australia Pty Ltd	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 235-251 Aldington Road, Kemps Creep, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE** Map Approximation
	DIMENSIONS 0.3 x 0.5 m	**LOGGED BY** ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		CL-ML:Silty CLAY (CL-ML)	Fill: silty CLAY topsoil, dark brown, heterogeneous, medium plasticity, damp, inclusions of grass roots and timber	SM	TP17-0-0.1		No odour, staining or ACM
		0.2		CL-ML:Silty CLAY (CL-ML)	silty CLAY, red/brown, homogeneous, high plasticity, damp, firm	SM	TP17-0.2-0.3		
		0.3							No odour, staining or ACM. End of hole @ 0.4 m.
		0.4			Termination Depth at: 0.4 m.				
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP18

PROJECT NUMBER 60716	**DRILLING COMPANY** Terex	**EASTING** N/A
PROJECT NAME 235-251 Aldington Road, Kemp	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Australia Pty Ltd	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 235-251 Aldington Road, Kemps Creep, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE** Map Approximation
	DIMENSIONS 0.3 x 0.5 m	**LOGGED BY** ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1 0.2 0.3		CL-ML:Silty CLAY (CL-ML)	Fill: silty CLAY topsoil, dark brown, heterogeneous, medium plasticity, damp, inclusions of grass roots and plastic	SM	TP18-0-0.1		No odour, staining or ACM. QA-03/QC-03
		0.4		CL-ML:Silty CLAY (CL-ML)	silty CLAY, red/brown, homogeneous, high plasticity, damp, firm	SM	TP18-0.3-0.4		No odour, staining or ACM. End of hole @ 0.4 m.
		0.5 0.6 0.7 0.8 0.9 1 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9			Termination Depth at: 0.4 m.				

TEST PIT TP19

PROJECT NUMBER 60716
PROJECT NAME 235-251 Aldington Road, Kemp
CLIENT Frasers Property Australia Pty Ltd
ADDRESS 235-251 Aldington Road, Kemps Creep, NSW

DRILLING COMPANY Terex
DRILLING DATE 08-Apr-21
DRILL RIG
DRILLING METHOD Test Pit
DIMENSIONS 0.3 x 0.5 m

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		CL-ML:Silty CLAY (CL-ML)	Fill: silty CLAY topsoil, dark brown, heterogeneous, medium plasticity, damp, inclusions of grass roots and plastic	SM	TP19-0-0.2		No odour, staining or ACM
		0.2		CL-ML:Silty CLAY (CL-ML)	silty CLAY, yellow, homogeneous, high plasticity, dry, firm	D	TP19-0.3-0.4		No odour, staining or ACM. End of hole @ 0.5 m.
		0.3							
		0.4							
		0.5			Termination Depth at: 0.5 m.				
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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TEST PIT TP20

PROJECT NUMBER 60716	**DRILLING COMPANY** Terex	**EASTING** N/A
PROJECT NAME 235-251 Aldington Road, Kemp	**DRILLING DATE** 08-Apr-21	**NORTHING** N/A
CLIENT Frasers Property Australia Pty Ltd	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 235-251 Aldington Road, Kemps Creep, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE** Map Approximation
	DIMENSIONS 0.3 x 0.5 m	**LOGGED BY** ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		CL-ML:Silty CLAY (CL-ML)	Fill: silty CLAY topsoil, dark brown, heterogeneous, medium plasticity, damp, inclusions of grass roots, plastic and ash	SM	TP20-0-0.2		No odour, staining or ACM
		0.2		CL-ML:Silty CLAY (CL-ML)	silty CLAY, yellow, homogeneous, high plasticity, dry, firm	D	TP20-0.3-0.4		
		0.3							No odour, staining or ACM. End of hole @ 0.5 m.
		0.4							
		0.5			Termination Depth at: 0.5 m.				
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE TP21

PROJECT NUMBER 60716
PROJECT NAME 235-251 Aldington Road, Kemp
CLIENT Frasers Property Australia Pty Ltd
ADDRESS 235-251 Aldington Road, Kemps Creep, NSW

DRILLING COMPANY Terex
DRILLING DATE 08-Apr-21
DRILL RIG
DRILLING METHOD Test Pit
DIAMETER

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		CL-ML:Silty CLAY (CL-ML)	Fill: silty CLAY topsoil, dark brown, heterogeneous, medium plasticity, damp	SM	TP21-0-0.2		No odour, staining or ACM
		0.2		CL-ML:Silty CLAY (CL-ML)	silty CLAY, red/brown, homogeneous, high plasticity, dry, firm	D	TP21-0.3-0.4		
		0.3							No odour, staining or ACM. End of hole @ 0.5 m.
		0.4							
		0.5			Termination Depth at: 0.5 m.				
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE TP22

PROJECT NUMBER 60716
PROJECT NAME 235-251 Aldington Road, Kemp
CLIENT Frasers Property Australia Pty Ltd
ADDRESS 235-251 Aldington Road, Kemps Creep, NSW

DRILLING COMPANY Terex
DRILLING DATE 08-Apr-21
DRILL RIG
DRILLING METHOD Test Pit
DIAMETER

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		CL-ML:Silty CLAY (CL-ML)	Fill: silty CLAY topsoil, dark brown, heterogeneous, medium plasticity, damp, inclusions of grass roots and charcoal	SM	TP22-0-0.2		No odour, staining or ACM
		0.2		CL-ML:Silty CLAY (CL-ML)	silty CLAY, red/brown, homogeneous, high plasticity, dry, firm	D	TP22-0.3-0.4		
		0.3							No odour, staining or ACM. End of hole @ 0.5 m.
		0.4							
		0.5			Termination Depth at: 0.5 m.				
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE TP23

PROJECT NUMBER 60716
PROJECT NAME 235-251 Aldington Road, Kemp
CLIENT Frasers Property Australia Pty Ltd
ADDRESS 235-251 Aldington Road, Kemps Creep, NSW

DRILLING COMPANY Terex
DRILLING DATE 08-Apr-21
DRILL RIG
DRILLING METHOD Test Pit
DIAMETER

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		CL-ML:Silty CLAY (CL-ML)	Fill: silty CLAY topsoil, dark brown, heterogeneous, medium plasticity, damp, inclusions of plastic	SM	TP23-0-0.2		No odour, staining or ACM
		0.2		CL-ML:Silty CLAY (CL-ML)	silty CLAY, red/brown, homogeneous, high plasticity, dry, firm	D	TP23-0.3-0.4		
		0.3							No odour, staining or ACM. End of hole @ 0.5 m.
		0.4							
		0.5			Termination Depth at: 0.5 m.				
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE TP24

PROJECT NUMBER 60716
PROJECT NAME 235-251 Aldington Road, Kemp
CLIENT Frasers Property Australia Pty Ltd
ADDRESS 235-251 Aldington Road, Kemps Creep, NSW

DRILLING COMPANY Terex
DRILLING DATE 08-Apr-21
DRILL RIG
DRILLING METHOD Test Pit
DIAMETER

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		CL-ML:Silty CLAY (CL-ML)	Fill: silty CLAY topsoil, dark brown, heterogeneous, medium plasticity, damp, inclusions of plastic	SM	TP24-0-0.2		No odour, staining or ACM
		0.2		CL-ML:Silty CLAY (CL-ML)	silty CLAY, red/brown, homogeneous, high plasticity, dry, firm	D	TP24-0.3-0.4		
		0.3							No odour, staining or ACM. End of hole @ 0.5 m.
		0.4							
		0.5			Termination Depth at: 0.5 m.				
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE TP25

PROJECT NUMBER 60716
PROJECT NAME 235-251 Aldington Road, Kemp
CLIENT Frasers Property Australia Pty Ltd
ADDRESS 235-251 Aldington Road, Kemps Creep, NSW

DRILLING COMPANY Terex
DRILLING DATE 08-Apr-21
DRILL RIG
DRILLING METHOD Test Pit
DIAMETER

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		CL-ML:Silty CLAY (CL-ML)	Fill: silty CLAY topsoil, dark brown, heterogeneous, medium plasticity, damp, inclusions of plastic and grass roots	SM	TP25-0-0.2		No odour, staining or ACM
		0.2		CL-ML:Silty CLAY (CL-ML)	silty CLAY, red/brown, homogeneous, high plasticity, dry, firm	D	TP25-0.3-0.4		
		0.3							No odour, staining or ACM. End of hole @ 0.5 m.
		0.4							
		0.5			Termination Depth at: 0.5 m.				
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE TP26

PROJECT NUMBER 60716
PROJECT NAME 235-251 Aldington Road, Kemp
CLIENT Frasers Property Australia Pty Ltd
ADDRESS 235-251 Aldington Road, Kemps Creep, NSW

DRILLING COMPANY Terex
DRILLING DATE 08-Apr-21
DRILL RIG
DRILLING METHOD Test Pit
DIAMETER

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		CL-ML:Silty CLAY (CL-ML)	Fill: silty CLAY topsoil, dark brown, heterogeneous, low plasticity, damp, inclusions of plastic and grass roots	SM	TP26-0-0.2		No odour, staining or ACM
		0.2		CL-ML:Silty CLAY (CL-ML)	silty CLAY, red/brown, homogeneous, high plasticity, damp, firm	SM	TP26-0.3-0.4		
		0.3							No odour, staining or ACM. End of hole @ 0.5 m.
		0.4							
		0.5			Termination Depth at: 0.5 m.				
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE TP27

PROJECT NUMBER 60716
PROJECT NAME 235-251 Aldington Road, Kemp
CLIENT Frasers Property Australia Pty Ltd
ADDRESS 235-251 Aldington Road, Kemps Creep, NSW

DRILLING COMPANY Terex
DRILLING DATE 08-Apr-21
DRILL RIG
DRILLING METHOD Test Pit
DIAMETER

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		CL-ML:Silty CLAY (CL-ML)	Fill: silty CLAY topsoil, dark brown, heterogeneous, low plasticity, damp, inclusions of plastic and grass roots	SM	TP27-0-0.2		No odour, staining or ACM
		0.2		CL-ML:Silty CLAY (CL-ML)	silty CLAY, red/brown, homogeneous, high plasticity, dry, firm	D	TP27-0.3-0.4		
		0.3							No odour, staining or ACM. End of hole @ 0.5 m.
		0.4							
		0.5			Termination Depth at: 0.5 m.				
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE TP28

PROJECT NUMBER 60716
PROJECT NAME 235-251 Aldington Road, Kemp
CLIENT Frasers Property Australia Pty Ltd
ADDRESS 235-251 Aldington Road, Kemps Creep, NSW

DRILLING COMPANY Terex
DRILLING DATE 08-Apr-21
DRILL RIG
DRILLING METHOD Test Pit
DIAMETER

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		CL-ML:Silty CLAY (CL-ML)	Fill: silty CLAY topsoil, dark brown, heterogeneous, low plasticity, dry	D	TP28-0-0.2		No odour, staining or ACM
		0.2		CL-ML:Silty CLAY (CL-ML)	silty CLAY, yellow/brown, homogeneous, high plasticity, dry, firm	D	TP28-0.3-0.4		No odour, staining or ACM. End of hole @ 0.5 m.
		0.3							
		0.4							
		0.5			Termination Depth at: 0.5 m.				
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE TP29

PROJECT NUMBER 60716
PROJECT NAME 235-251 Aldington Road, Kemp
CLIENT Frasers Property Australia Pty Ltd
ADDRESS 235-251 Aldington Road, Kemps Creep, NSW

DRILLING COMPANY Terex
DRILLING DATE 08-Apr-21
DRILL RIG
DRILLING METHOD Test Pit
DIAMETER

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		CL-ML:Silty CLAY (CL-ML)	Fill: silty CLAY topsoil, light brown, heterogeneous, low plasticity, dry, inclusions of plastic	D	TP29-0-0.1		No odour, staining or ACM. QA-03/QC-03
		0.2		CL-ML:Silty CLAY (CL-ML)	silty CLAY, yellow/brown, homogeneous, high plasticity, dry, firm	D	TP29-0.3-0.4		
		0.3							No odour, staining or ACM. End of hole @ 0.5 m.
		0.4							
		0.5			Termination Depth at: 0.5 m.				
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE TP30

PROJECT NUMBER 60716
PROJECT NAME 235-251 Aldington Road, Kemp
CLIENT Frasers Property Australia Pty Ltd
ADDRESS 235-251 Aldington Road, Kemps Creep, NSW

DRILLING COMPANY Terex
DRILLING DATE 08-Apr-21
DRILL RIG
DRILLING METHOD Test Pit
DIAMETER

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		CL-ML:Silty CLAY (CL-ML)	Fill: silty CLAY topsoil, light brown, heterogeneous, medium plasticity, dry, inclusions of plastic	D	TP30-0-0.2		No odour, staining or ACM
		0.2		CL-ML:Silty CLAY (CL-ML)	silty CLAY, red/brown, homogeneous, high plasticity, damp, firm	SM	TP30-0.3-0.4		
		0.3							No odour, staining or ACM. End of hole @ 0.5 m.
		0.4							
		0.5			Termination Depth at: 0.5 m.				
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE TP31

PROJECT NUMBER 60716
PROJECT NAME 235-251 Aldington Road, Kemp
CLIENT Frasers Property Australia Pty Ltd
ADDRESS 235-251 Aldington Road, Kemps Creep, NSW

DRILLING COMPANY Terex
DRILLING DATE 09-Apr-21
DRILL RIG
DRILLING METHOD Test Pit
DIAMETER

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		CL-ML:Silty CLAY (CL-ML)	Fill: silty CLAY topsoil, light brown, heterogeneous, low plasticity, damp, inclusions of plastic, PVC pipe and grass roots	SM	TP31-0-0.2		No odour, staining or ACM
		0.2		CL-ML:Silty CLAY (CL-ML)	silty CLAY, red/brown, homogeneous, high plasticity, dry, firm	D	TP31-0.3-0.4		
		0.3							No odour, staining or ACM. End of hole @ 0.5 m.
		0.4							
		0.5			Termination Depth at: 0.5 m.				
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE TP32

PROJECT NUMBER 60716
PROJECT NAME 235-251 Aldington Road, Kemp
CLIENT Frasers Property Australia Pty Ltd
ADDRESS 235-251 Aldington Road, Kemps Creep, NSW

DRILLING COMPANY Terex
DRILLING DATE 09-Apr-21
DRILL RIG
DRILLING METHOD Test Pit
DIAMETER

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1 0.2 0.3		CL-ML:Silty CLAY (CL-ML)	Fill: silty CLAY topsoil, light brown, heterogeneous, low plasticity, damp, inclusions of grass roots	SM	TP32-0-0.2		No odour, staining or ACM
		0.4 0.5		CL-ML:Silty CLAY (CL-ML)	silty CLAY, red/brown, homogeneous, high plasticity, dry, firm	D	TP32-0.3-0.4		No odour, staining or ACM. End of hole @ 0.5 m.
		0.6 0.7 0.8 0.9 1 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9			Termination Depth at: 0.5 m.				

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SOIL BOREHOLE TP33

PROJECT NUMBER 60716
PROJECT NAME 235-251 Aldington Road, Kemp
CLIENT Frasers Property Australia Pty Ltd
ADDRESS 235-251 Aldington Road, Kemps Creep, NSW

DRILLING COMPANY Terex
DRILLING DATE 09-Apr-21
DRILL RIG
DRILLING METHOD Test Pit
DIAMETER

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		CL-ML:Silty CLAY (CL-ML)	Fill: silty CLAY topsoil, light brown, heterogeneous, low plasticity, damp, inclusions of plastic pipe	SM	TP33-0-0.2		No odour, staining or ACM
		0.2		CL-ML:Silty CLAY (CL-ML)	silty CLAY, red/brown, homogeneous, high plasticity, damp, firm	SM	TP33-0.3-0.4		
		0.3							No odour, staining or ACM. End of hole @ 0.5 m.
		0.4							
		0.5			Termination Depth at: 0.5 m.				
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE TP34

PROJECT NUMBER 60716
PROJECT NAME 235-251 Aldington Road, Kemp
CLIENT Frasers Property Australia Pty Ltd
ADDRESS 235-251 Aldington Road, Kemps Creep, NSW

DRILLING COMPANY Terex
DRILLING DATE 09-Apr-21
DRILL RIG
DRILLING METHOD Test Pit
DIAMETER

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		CL-ML:Silty CLAY (CL-ML)	Fill: silty CLAY topsoil, light brown, heterogeneous, low plasticity, damp, inclusions of grass roots and timber	SM	TP34-0-0.2		No odour, staining or ACM
		0.2		CL-ML:Silty CLAY (CL-ML)	silty CLAY, red/brown, homogeneous, high plasticity, damp, firm	SM	TP34-0.3-0.4		
		0.3							No odour, staining or ACM. End of hole @ 0.5 m.
		0.4							
		0.5			Termination Depth at: 0.5 m.				
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE TP35

PROJECT NUMBER 60716
PROJECT NAME 235-251 Aldington Road, Kemp
CLIENT Frasers Property Australia Pty Ltd
ADDRESS 235-251 Aldington Road, Kemps Creep, NSW

DRILLING COMPANY Terex
DRILLING DATE 09-Apr-21
DRILL RIG
DRILLING METHOD Test Pit
DIAMETER

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		CL-ML:Silty CLAY (CL-ML)	Fill: silty CLAY topsoil, dark brown, heterogeneous, low plasticity, damp, inclusions of grass roots and timber	SM	TP35-0-0.2		No odour, staining or ACM
		0.2		CL-ML:Silty CLAY (CL-ML)	silty CLAY, light brown, homogeneous, high plasticity, damp, firm	SM	TP35-0.3-0.4		
		0.3							No odour, staining or ACM. End of hole @ 0.5 m.
		0.4							
		0.5			Termination Depth at: 0.5 m.				
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE TP36

PROJECT NUMBER 60716
PROJECT NAME 235-251 Aldington Road, Kemp
CLIENT Frasers Property Australia Pty Ltd
ADDRESS 235-251 Aldington Road, Kemps Creep, NSW

DRILLING COMPANY Terex
DRILLING DATE 09-Apr-21
DRILL RIG
DRILLING METHOD Test Pit
DIAMETER

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		CL-ML:Silty CLAY	Fill: silty CLAY topsoil, dark brown, heterogeneous, low plasticity, damp, inclusions of black pipe	SM	TP36-0-0.1		No odour, staining or ACM
		0.2		CL-ML:Silty CLAY (CL-ML)	silty CLAY, red/brown, homogeneous, high plasticity, damp, firm	SM	TP36-0.3-0.4		No odour, staining or ACM. End of hole @ 0.5 m.
		0.3							
		0.4							
		0.5			Termination Depth at: 0.5 m.				
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE TP37

PROJECT NUMBER 60716
PROJECT NAME 235-251 Aldington Road, Kemp
CLIENT Frasers Property Australia Pty Ltd
ADDRESS 235-251 Aldington Road, Kemps Creep, NSW

DRILLING COMPANY Terex
DRILLING DATE 09-Apr-21
DRILL RIG
DRILLING METHOD Test Pit
DIAMETER

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		CL-ML:Silty CLAY (CL-ML)	Fill: silty CLAY topsoil, dark brown, heterogeneous, low plasticity, damp, inclusions of grass roots	SM	TP37-0-0.2		No odour, staining or ACM
		0.2		CL-ML:Silty CLAY (CL-ML)	silty CLAY, red/brown, homogeneous, high plasticity, damp, firm	SM	TP37-0.3-0.4		
		0.3							No odour, staining or ACM. End of hole @ 0.5 m.
		0.4							
		0.5			Termination Depth at: 0.5 m.				
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE TP38

PROJECT NUMBER 60716
PROJECT NAME 235-251 Aldington Road, Kemp
CLIENT Frasers Property Australia Pty Ltd
ADDRESS 235-251 Aldington Road, Kemps Creep, NSW

DRILLING COMPANY Terex
DRILLING DATE 09-Apr-21
DRILL RIG
DRILLING METHOD Test Pit
DIAMETER

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		CL-ML:Silty CLAY (CL-ML)	Fill: silty CLAY topsoil, dark brown, heterogeneous, low plasticity, damp	SM	TP38-0-0.2		No odour, staining or ACM
		0.2		CL-ML:Silty CLAY (CL-ML)	silty CLAY, red/brown, homogeneous, high plasticity, damp, firm	SM	TP38-0.3-0.4		No odour, staining or ACM. End of hole @ 0.5 m.
		0.3							
		0.4							
		0.5			Termination Depth at: 0.5 m.				
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE TP39

PROJECT NUMBER 60716
PROJECT NAME 235-251 Aldington Road, Kemp
CLIENT Frasers Property Australia Pty Ltd
ADDRESS 235-251 Aldington Road, Kemps Creep, NSW

DRILLING COMPANY Terex
DRILLING DATE 09-Apr-21
DRILL RIG
DRILLING METHOD Test Pit
DIAMETER

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		CL-ML:Silty CLAY (CL-ML)	Fill: silty CLAY topsoil, dark brown, heterogeneous, low plasticity, damp	SM	TP39-0-0.2		No odour, staining or ACM
		0.2		CL-ML:Silty CLAY (CL-ML)	silty CLAY, red/brown, homogeneous, high plasticity, damp, firm	SM	TP39-0.3-0.4		
		0.3							No odour, staining or ACM. End of hole @ 0.5 m.
		0.4							
		0.5			Termination Depth at: 0.5 m.				
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE TP40

PROJECT NUMBER 60716
PROJECT NAME 235-251 Aldington Road, Kemp
CLIENT Frasers Property Australia Pty Ltd
ADDRESS 235-251 Aldington Road, Kemps Creep, NSW

DRILLING COMPANY Terex
DRILLING DATE 09-Apr-21
DRILL RIG
DRILLING METHOD Test Pit
DIAMETER

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		CL-ML:Silty CLAY (CL-ML)	Fill: silty CLAY topsoil, dark brown, heterogeneous, low plasticity, damp, inclusions of plastic	SM	TP40-0-0.2		No odour, staining or ACM
		0.2		CL-ML:Silty CLAY (CL-ML)	silty CLAY, red/brown, homogeneous, high plasticity, damp, firm	SM	TP40-0.3-0.4		No odour, staining or ACM. End of hole @ 0.5 m.
		0.3							
		0.4							
		0.5			Termination Depth at: 0.5 m.				
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE TP41

PROJECT NUMBER 60716
PROJECT NAME 235-251 Aldington Road, Kemp
CLIENT Frasers Property Australia Pty Ltd
ADDRESS 235-251 Aldington Road, Kemps Creep, NSW

DRILLING COMPANY Terex
DRILLING DATE 09-Apr-21
DRILL RIG
DRILLING METHOD Test Pit
DIAMETER

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		CL-ML:Silty CLAY (CL-ML)	Fill: silty CLAY topsoil, dark brown, heterogeneous, low plasticity, damp, inclusions of plastic	SM	TP41-0-0.2		No odour, staining or ACM
		0.2		CL-ML:Silty CLAY (CL-ML)	silty CLAY, red/brown, homogeneous, high plasticity, damp, firm	SM	TP41-0.3-0.4		
		0.3							No odour, staining or ACM. End of hole @ 0.5 m.
		0.4							
		0.5			Termination Depth at: 0.5 m.				
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE TP42

PROJECT NUMBER 60716
PROJECT NAME 235-251 Aldington Road, Kemp
CLIENT Frasers Property Australia Pty Ltd
ADDRESS 235-251 Aldington Road, Kemps Creep, NSW

DRILLING COMPANY Terex
DRILLING DATE 09-Apr-21
DRILL RIG
DRILLING METHOD Test Pit
DIAMETER

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		CL-ML:Silty CLAY (CL-ML)	Fill: silty CLAY topsoil, dark brown, heterogeneous, low plasticity, damp, inclusions of plastic	SM	TP42-0-0.2		No odour, staining or ACM
		0.2		CL-ML:Silty CLAY (CL-ML)	silty CLAY, red/brown, homogeneous, high plasticity, damp, firm	SM	TP42-0.3-0.4		
		0.3							No odour, staining or ACM. End of hole @ 0.5 m.
		0.4							
		0.5			Termination Depth at: 0.5 m.				
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE TP43

PROJECT NUMBER 60716
PROJECT NAME 235-251 Aldington Road, Kemp
CLIENT Frasers Property Australia Pty Ltd
ADDRESS 235-251 Aldington Road, Kemps Creep, NSW

DRILLING COMPANY Terex
DRILLING DATE 09-Apr-21
DRILL RIG
DRILLING METHOD Test Pit
DIAMETER

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		CL-ML:Silty CLAY (CL-ML)	Fill: silty CLAY topsoil, dark brown, heterogeneous, low plasticity, damp, inclusions of plastic	SM	TP43-0-0.2		No odour, staining or ACM
		0.2		CL-ML:Silty CLAY (CL-ML)	silty CLAY, red/brown, homogeneous, high plasticity, damp, firm	SM	TP43-0.3-0.4		No odour, staining or ACM. End of hole @ 0.5 m.
		0.3							
		0.4							
		0.5			Termination Depth at: 0.5 m.				
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE TP44

PROJECT NUMBER 60716
PROJECT NAME 235-251 Aldington Road, Kemp
CLIENT Frasers Property Australia Pty Ltd
ADDRESS 235-251 Aldington Road, Kemps Creep, NSW

DRILLING COMPANY Terex
DRILLING DATE 09-Apr-21
DRILL RIG
DRILLING METHOD Test Pit
DIAMETER

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		CL-ML:Silty CLAY (CL-ML)	Fill: silty CLAY topsoil, dark brown, heterogeneous, low plasticity, damp, inclusions of plastic and grass roots	SM	TP44-0-0.2		No odour, staining or ACM
		0.2		CL-ML:Silty CLAY (CL-ML)	silty CLAY, grey, homogeneous, high plasticity, damp, firm	SM	TP44-0.3-0.4		No odour, staining or ACM. End of hole @ 0.5 m.
		0.3							
		0.4							
		0.5			Termination Depth at: 0.5 m.				
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							

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SOIL BOREHOLE TP45

PROJECT NUMBER 60716
PROJECT NAME 235-251 Aldington Road, Kemp
CLIENT Frasers Property Australia Pty Ltd
ADDRESS 235-251 Aldington Road, Kemps Creep, NSW

DRILLING COMPANY Terex
DRILLING DATE 09-Apr-21
DRILL RIG
DRILLING METHOD Test Pit
DIAMETER

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY ML

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1 0.2 0.3 0.4 0.5		CL-ML:Silty CLAY (CL-ML)	silty CLAY, grey, homogeneous, high plasticity, dry, firm	D	TP45-0-0.2		No odour, staining or ACM. End of hole @ 0.5 m.
		0.6 0.7 0.8 0.9 1 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9			Termination Depth at: 0.5 m.				

TEST PIT TP01

Project Number 61646
Client Frasers Property Australia
Project Name 219-233 Aldington Rd
Address Kemps Creek

Contractor Ken Coles
Date 13-Dec-21
Plant Excavator
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By M Linz

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2		Fill	Fill - CLAY, brown, homogenous, damp, medium plasticity, soft, inclusion of rootlets	DP	TP01_0-0.1	0	No odour, staining or asbestos containing material observed
		0.4		CH	Natural - CLAY, orange/yellow, homogenous, damp, high plasticity, firm, trace gravels	DP	TP01_0.3-0.4	0.2	No odour, staining or asbestos containing material observed
		0.6			Termination Depth at: 0.50 m.				
		0.8							
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

Comments:

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TEST PIT TP02

Project Number 61646
Client Frasers Property Australia
Project Name 219-233 Aldington Rd
Address Kemps Creek

Contractor Ken Coles
Date 13-Dec-21
Plant Excavator
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By M Linz

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2		CL-ML	Natural - Silty CLAY, red/brown, heterogeneous, damp, medium plasticity, soft, inclusion of roots	DP	TP02_0-0.1	0	No odour, staining or asbestos containing material observed
		0.4		CH-MH	Natural - Silty CLAY, grey/brown, heterogeneous, moist, medium plasticity, soft,	M	TP02_0.2-0.3	0.1	No odour, staining or asbestos containing material observed
		0.6			Termination Depth at: 0.40 m.				
		0.8							
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

Comments:

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TEST PIT TP03

Project Number 61646
Client Frasers Property Australia
Project Name 219-233 Aldington Rd
Address Kemps Creek

Contractor Ken Coles
Date 13-Dec-21
Plant Excavator
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By M Linz

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2		ML-CL	Natural - Clayey SILT, brown, heterogeneous, damp, medium plasticity, soft, inclusion of roots	DP	TP03_0-0.1	0	No odour, staining or asbestos containing material observed
		0.4		CH-MH	Natural - Silty CLAY, red/brown, heterogeneous, damp, medium plasticity, soft,	DP	TP03_0.2-0.3	0	No odour, staining or asbestos containing material observed
		0.6			Termination Depth at: 0.40 m.				
		0.8							
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

Comments:

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TEST PIT TP04

Project Number 61646
Client Frasers Property Australia
Project Name 219-233 Aldington Rd
Address Kemp's Creek

Contractor Ken Coles
Date 13-Dec-21
Plant Excavator
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By M Linz

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2		ML-CL	Natural - Clayey SILT, brown, heterogeneous, damp, medium plasticity, soft, inclusion of roots	DP	TP04_0-0.1	0	No odour, staining or asbestos containing material observed
		0.4		CH	Natural - CLAY, red/brown, heterogeneous, damp, high plasticity, soft,	DP	TP04_0.2-0.3	0	No odour, staining or asbestos containing material observed
					Termination Depth at: 0.40 m.				

0.6
0.8
1
1.2
1.4
1.6
1.8
2
2.2
2.4
2.6
2.8
3
3.2
3.4
3.6
3.8

Comments:

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TEST PIT TP05

Project Number 61646
Client Frasers Property Australia
Project Name 219-233 Aldington Rd
Address Kemp's Creek

Contractor Ken Coles
Date 13-Dec-21
Plant Excavator
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By M Linz

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2		CL-ML	Natural - SIlty CLAY, dark brown, heterogeneous, damp, loose,	DP	TP05_0-0.1	0	No odour, staining or asbestos containing material observed
		0.4		CH-MH	Natural - SIlty CLAY, red/orange, heterogeneous, damp, medium plasticity, soft,	DP	TP05_0.2-0.3	0	No odour, staining or asbestos containing material observed
		0.6			Termination Depth at: 0.40 m.				
		0.8							
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

Comments:

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TEST PIT TP06

Project Number 61646
Client Frasers Property Australia
Project Name 219-233 Aldington Rd
Address Kemp's Creek

Contractor Ken Coles
Date 13-Dec-21
Plant Excavator
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By M Linz

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2		ML-CL	Natural - Clayey SILT, grey/brown, heterogeneous, damp, soft,	DP	TP06_0-0.1	0	No odour, staining or asbestos containing material observed
		0.4		CH-MH	Natural - Silty CLAY, red: heterogeneous, damp, medium plasticity, soft,	DP	TP06_0.2-0.3	0.1	No odour, staining or asbestos containing material observed
		0.6			Termination Depth at: 0.40 m.				
		0.8							
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

Comments:

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TEST PIT TP07

Project Number 61646
Client Frasers Property Australia
Project Name 219-233 Aldington Rd
Address Kemp's Creek

Contractor Ken Coles
Date 13-Dec-21
Plant Excavator
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By M Linz

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2		ML-CL	Natural - Clayey SILT, brown, heterogeneous, damp, low plasticity, loose,	DP	TP07_0-0.1	0	No odour, staining or asbestos containing material observed
				CH-MH	Natural - Silty CLAY, red/orange, heterogeneous, damp, medium plasticity, soft,	DP	TP07_0.2-0.3	0	No odour, staining or asbestos containing material observed
		0.4			Termination Depth at: 0.30 m.				
		0.6							
		0.8							
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

Comments:

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TEST PIT TP08

Project Number 61646
Client Frasers Property Australia
Project Name 219-233 Aldington Rd
Address Kemp's Creek

Contractor Ken Coles
Date 13-Dec-21
Plant Excavator
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By M Linz

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2		ML-CL	Natural - Clayey SILT, brown, heterogeneous, damp, medium plasticity, inclusion of grass	DP	TP08_0-0.1	0	No odour, staining or asbestos containing material observed
		0.4		CH-MH	Natural - Silty CLAY, red/brown, heterogeneous, damp, high plasticity,	DP	TP08_0.3-0.4	0	No odour, staining or asbestos containing material observed
		0.6			Termination Depth at: 0.50 m.				
		0.8							
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

Comments:

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TEST PIT TP09

Project Number 61646
Client Frasers Property Australia
Project Name 219-233 Aldington Rd
Address Kemp's Creek

Contractor Ken Coles
Date 13-Dec-21
Plant Excavator
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By M Linz

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2		Fill	Fill - SILT, brown, homogenous, dry, low plasticity, soft,	DR	TP09_0-0.1	0.6	No odour, staining or asbestos containing material observed
				Fill	Fill - Gravelly Clayey SILT, brown/black, damp, low plasticity, firm, inclusion of asbestos containing material	DP	TP09_0.2-0.3	0	No odour. Black Staining and asbestos observed
		0.4		CH	Natural - CLAY, red, homogenous, damp, medium plasticity, firm,	DP	TP09_0.3-0.4	0	No odour, staining or asbestos containing material observed
		0.6			Termination Depth at: 0.40 m.				
		0.8							
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

Comments:

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TEST PIT TP10

Project Number 61646
Client Frasers Property Australia
Project Name 219-233 Aldington Rd
Address Kemp's Creek

Contractor Ken Coles
Date 13-Dec-21
Plant Excavator
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By M Linz

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2		Fill	Fill - CLAY, brown, heterogeneous, damp, medium plasticity, soft, inclusion of rootlets and plastic	DP	TP10_0-0.1	0	No odour, staining or asbestos containing material observed
		0.4		CH	Natural - CLAY, red, heterogeneous, damp, high plasticity, stiff,	DP	TP10_0.2-0.3	0	No odour, staining or asbestos containing material observed
		0.6			Termination Depth at: 0.50 m.				
		0.8							
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

Comments:

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TEST PIT TP11

Project Number 61646
Client Frasers Property Australia
Project Name 219-233 Aldington Rd
Address Kemp's Creek

Contractor Ken Coles
Date 13-Dec-21
Plant Excavator
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By M Linz

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2		Fill	Fill - Clayey SILT, light brown, heterogeneous, damp, low plasticity, soft, inclusion of roots	DP	TP11_0-0.1	0	No odour, staining or asbestos containing material observed
		0.4		CH	Natural - CLAY, red/brown, heterogeneous, damp, medium plasticity, soft, inclusion of ash/charcoal	DP	TP11_0.3-0.4	0	No odour, staining or asbestos containing material observed
							TP11_0.4-0.5	0	
		0.6			Termination Depth at: 0.50 m.				
		0.8							
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

Comments:

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TEST PIT TP12

Project Number 61646
Client Frasers Property Australia
Project Name 219-233 Aldington Rd
Address Kemp's Creek

Contractor Ken Coles
Date 13-Dec-21
Plant Excavator
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By M Linz

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2		ML	Natural - SILT, brown, heterogeneous, saturated, low plasticity, soft, inclusion of styrfoam, white plastic	S	TP12_0-0.1	0.1	No odour, staining or asbestos containing material observed
		0.4		CH	Natural - CLAY, cream/red, damp, high plasticity, soft,	DP	TP12_0.3-0.4	0	No odour, staining or asbestos containing material observed
		0.6			Termination Depth at: 0.50 m.				
		0.8							
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

Comments:

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TEST PIT TP13

Project Number 61646
Client Frasers Property Australia
Project Name 219-233 Aldington Rd
Address Kemp's Creek

Contractor Ken Coles
Date 13-Dec-21
Plant Excavator
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By M Linz

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2		Fill	Fill - CLAY, brown, heterogeneous, damp, medium plasticity, soft, inclusion of rootlets	DP	TP13_0-0.1	0	No odour, staining or asbestos containing material observed
		0.4		CH	Natural - CLAY, red/orange, homogenous, damp, high plasticity, stiff,	DP	TP13_0.2-0.3	0	No odour, staining or asbestos containing material observed
		0.6			Termination Depth at: 0.50 m.				
		0.8							
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

Comments:

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TEST PIT TP14

Project Number 61646
Client Frasers Property Australia
Project Name 219-233 Aldington Rd
Address Kemp's Creek

Contractor Ken Coles
Date 13-Dec-21
Plant Excavator
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By M Linz

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2		Fill	Fill - CLAY, brown, heterogeneous, damp, medium plasticity, soft, inclsuion of rootlets and black plastic	DP	TP14_0-0.1	0	No odour, staining or asbestos containing material observed
		0.4		CH	Natural - CLAY, yellow/orange mottled, damp, high plasticity, firm,	DP	TP14_0.2-0.3	0	No odour, staining or asbestos containing material observed
		0.6			Termination Depth at: 0.50 m.				
		0.8							
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

Comments:

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TEST PIT TP15

Project Number 61646
Client Frasers Property Australia
Project Name 219-233 Aldington Rd
Address Kemp's Creek

Contractor Ken Coles
Date 13-Dec-21
Plant Excavator
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By M Linz

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2		Fill	Fill - CLAY, red/brown, heterogeneous, damp, high plasticity, firm, inclusion of shale, roots	DP	TP15_0-0.1	0	No odour, staining or asbestos containing material observed
		0.4					TP15_0.4-0.5	0	
		0.6							
		0.8							
		1					TP15_0.9-1.0	0	
		1.2							
		1.4							
		1.6							
		1.8							
		2					TP15_1.9-2.0	0	
		2.2							
		2.4							
		2.6							No odour, staining or asbestos containing material observed
		2.8		Fill	Fill - SILT, grey: saturated, low plasticity, very soft,	S	TP15_2.7-2.8	0	
		3		CH	Natural - CLAY, red, damp, high plasticity, stiff,	DP	TP15_2.8-2.9	0	No odour, staining or asbestos containing material observed
		3.2			Termination Depth at: 3.00 m.				
		3.4							
		3.6							
		3.8							

Comments:

TEST PIT TP16

Project Number 61646
Client Frasers Property Australia
Project Name 219-233 Aldington Rd
Address Kemp's Creek

Contractor Ken Coles
Date 13-Dec-21
Plant Excavator
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By M Linz

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2		CL	Natural - CLAY, brown, heterogeneous, damp, low plasticity, soft, inclusion of black plastic	DP	TP16_0-0.1	0	No odour, staining or asbestos containing material observed
		0.4		CH	Natural - CLAY, light red/brown, homogenous, damp, high plasticity, firm,	DP	TP16_0.2-0.3	0	No odour, staining or asbestos containing material observed
		0.6			Termination Depth at: 0.40 m.				
		0.8							
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

Comments:

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TEST PIT TP17

Project Number 61646
Client Frasers Property Australia
Project Name 219-233 Aldington Rd
Address Kemp's Creek

Contractor Ken Coles
Date 13-Dec-21
Plant Excavator
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By M Linz

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2 0.4 0.6 0.8		Fill	Fill - CLAY, brown/grey mottled, damp, medium plasticity, firm, inclusion of gravels, metal & plastic	DP	TP17_0-0.1	0	No odour, staining or asbestos containing material observed
							TP17_0.4-0.5	0	
		1 1.2 1.4 1.6 1.8		Fill	Fill - CLAY, dark grey/brown, heterogeneous, wet, low plasticity, soft,	W	TP17_0.9-1.0	0	No odour, staining or asbestos containing material observed
		2		CH	Natural - CLAY, red/orange, homogenous, damp, high plasticity, stiff,	DP	TP17_2.0-2.1	0	No odour, staining or asbestos containing material observed
		2.2 2.4 2.6 2.8 3 3.2 3.4 3.6 3.8			Termination Depth at: 2.20 m.				

Comments:

TEST PIT TP18

Project Number 61646
Client Frasers Property Australia
Project Name 219-233 Aldington Rd
Address Kemp's Creek

Contractor Ken Coles
Date 13-Dec-21
Plant Excavator
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By M Linz

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2		Fill	Fill - CLAY, brown, homogenous, damp, medium plasticity, soft, inclusion of rootlets	DP	TP18_0-0.1	0	No odour, staining or asbestos containing material observed
		0.4		CH	Natural - CLAY, red, homogenous, damp, high plasticity, firm,	DP	TP18_0.3-0.4	0	No odour, staining or asbestos containing material observed
		0.6			Termination Depth at: 0.50 m.				
		0.8							
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

Comments:

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TEST PIT TP19

Project Number 61646
Client Frasers Property Australia
Project Name 219-233 Aldington Rd
Address Kemp's Creek

Contractor Ken Coles
Date 13-Dec-21
Plant Excavator
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By M Linz

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2		Fill	Fill - CLAY, brown, heterogeneous, damp, medium plasticity, firm, inclusion of rootlets	DP	TP19_0-0.1	0	No odour, staining or asbestos containing material observed
		0.4		CH	Natural - CLAY, red, homogenous, damp, high plasticity, stiff,	DP	TP19_0.2-0.3	0	No odour, staining or asbestos containing material observed
		0.6			Termination Depth at: 0.50 m.				
		0.8							
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

Comments:

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TEST PIT TP20

Project Number 61646
Client Frasers Property Australia
Project Name 219-233 Aldington Rd
Address Kemp's Creek

Contractor Ken Coles
Date 15-Dec-21
Plant Excavator
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By M Linz

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2		Fill	Fill - Clayey SILT, brown, heterogeneous, damp, soft, inclusion of rootlets	DP	TP20_0-0.05	0	No odour, staining or asbestos containing material observed
		0.4		CH	Natural - CLAY, red/brown, homogenous, damp, firm,	DP	TP20_0.3-0.4	0	No odour, staining or asbestos containing material observed
		0.6			Termination Depth at: 0.50 m.				
		0.8							
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

Comments:

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TEST PIT TP21

Project Number 61646
Client Frasers Property Australia
Project Name 219-233 Aldington Rd
Address Kemp's Creek

Contractor Ken Coles
Date 15-Dec-21
Plant Excavator
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By M Linz

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0		Fill	Fill - Clayey SILT, brown, heterogeneous, damp, low plasticity, soft, inclusion of roots	DP	TP21_0-0.1	0	No staining or asbestos containing material observed. Organic odour
		0.2		Fill	Fill - Clayey SAND, light brown, saturated, well graded, medium gravel, sub-angular, loose,	S	TP21_0.3-0.4	0	No odour, staining or asbestos containing material observed
		0.4		CH	Natural - CLAY, red/brown, homogenous, wet, medium plasticity, soft,	W	TP21_0.9-1.0	0	No odour, staining or asbestos containing material observed
		0.6							
		0.8							
		1			Termination Depth at: 1.00 m.				
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

Comments:

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TEST PIT TP22

Project Number 61646
Client Frasers Property Australia
Project Name 219-233 Aldington Rd
Address Kemp's Creek

Contractor Ken Coles
Date 13-Dec-21
Plant Excavator
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By M Linz

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2		Fill	Fill - CLAY, brown, homogenous, damp, medium plasticity, soft, inclusion of roots	DP	TP22_0-0.1	0	No odour, staining or asbestos containing material observed
		0.4		CH	Natural - CLAY, red, homogenous, damp, high plasticity, firm,	DP	TP22_0.2-0.3	0	No odour, staining or asbestos containing material observed
		0.6			Termination Depth at: 0.50 m.				
		0.8							
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

Comments:

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TEST PIT TP23

Project Number 61646
Client Frasers Property Australia
Project Name 219-233 Aldington Rd
Address Kemp's Creek

Contractor Ken Coles
Date 13-Dec-21
Plant Excavator
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By M Linz

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2		Fill	Fill - CLAY, brown, heterogeneous, damp, medium plasticity, soft, inclusion of roots	DP	TP23_0-0.1	0	No odour, staining or asbestos containing material observed
		0.4		CH	Natural - CLAY, red, homogenous, damp, high plasticity, stiff,	DP	TP23_0.2-0.3	0	No odour, staining or asbestos containing material observed
		0.6			Termination Depth at: 0.50 m.				
		0.8							
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

Comments:

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TEST PIT TP24

Project Number 61646
Client Frasers Property Australia
Project Name 219-233 Aldington Rd
Address Kemp's Creek

Contractor Ken Coles
Date 13-Dec-21
Plant Excavator
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By M Linz

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2		Fill	Fill - Clayey SILT, brown, heterogeneous, wet, low plasticity, soft, inclusion of roots	W	TP24_0-0.1	0	No odour, staining or asbestos containing material observed
		0.4		CH	Natural - CLAY, red/brown, homogenous, damp, high plasticity, soft,	DP	TP24_0.3-0.4	0	No odour, staining or asbestos containing material observed
		0.6			Termination Depth at: 0.50 m.				
		0.8							
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

Comments:

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TEST PIT TP25

Project Number 61646
Client Frasers Property Australia
Project Name 219-233 Aldington Rd
Address Kemp's Creek

Contractor Ken Coles
Date 15-Dec-21
Plant Excavator
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By M Linz

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2		Fill	Fill - Clayey SILT, brown, heterogeneous, damp, low plasticity, soft,	DP	TP25_0-0.1	0	No odour, staining or asbestos containing material observed
		0.4					TP25_0.3-0.4	0	
		0.6		CH	Natural - CLAY, brown, homogenous, damp, high plasticity, firm,	DP	TP25_0.9-1.0	0	No odour, staining or asbestos containing material observed
		0.8							
		1			Termination Depth at: 1.00 m.				
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

Comments:

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TEST PIT TP26

Project Number 61646
Client Frasers Property Australia
Project Name 219-233 Aldington Rd
Address Kemp's Creek

Contractor Ken Coles
Date 13-Dec-21
Plant Excavator
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By M Linz

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2		Fill	Fill - CLAY, brown, heterogeneous, damp, medium plasticity, soft, inclusion of rootlets	DP	TP26_0-0.1	0	No odour, staining or asbestos containing material observed
		0.4		CH	Natural - CLAY, red, homogenous, damp, high plasticity, stiff,	DP	TP26_0.2-0.3	0	No odour, staining or asbestos containing material observed
		0.6			Termination Depth at: 0.50 m.				
		0.8							
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

Comments:

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TEST PIT TP27

Project Number 61646
Client Frasers Property Australia
Project Name 219-233 Aldington Rd
Address Kemp's Creek

Contractor Ken Coles
Date 14-Dec-21
Plant Excavator
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By M Linz

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2		Fill	Fill - Clayey SILT, brown, heterogeneous, damp, low plasticity, soft, inclusion of roots	DP	TP27_0-0.1	0	No odour, staining or asbestos containing material observed
		0.4		CH	Natural - CLAY, red/brown, homogenous, damp, high plasticity,	DP	TP27_0.2-0.3	0	No odour, staining or asbestos containing material observed
		0.6			Termination Depth at: 0.50 m.				
		0.8							
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

Comments:

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TEST PIT TP28

Project Number 61646
Client Frasers Property Australia
Project Name 219-233 Aldington Rd
Address Kemp's Creek

Contractor Ken Coles
Date 14-Dec-21
Plant Excavator
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By M Linz

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2		Fill	Fill - Clayey SILT, brown, heterogeneous, damp, low plasticity, soft, inclusion of roots & black plastic	DP	TP28_0-0.1	0	No odour, staining or asbestos containing material observed
		0.4		CH	Natural - CLAY, red/brown, homogenous, damp, high plasticity, firm,	DP	TP28_0.2-0.3	0	No odour, staining or asbestos containing material observed
		0.6			Termination Depth at: 0.50 m.				
		0.8							
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

Comments:

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TEST PIT TP29

Project Number 61646
Client Frasers Property Australia
Project Name 219-233 Aldington Rd
Address Kemp's Creek

Contractor Ken Coles
Date 14-Dec-21
Plant Excavator
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By M Linz

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2		Fill	Fill - Clayey SILT, brown, heterogeneous, damp, low plasticity, soft, inclusion of roots	DP	TP29_0-0.1	0	No odour, staining or asbestos containing material observed
		0.4		CH	Natural - CLAY, red/brown, homogenous, damp, high plasticity, firm,	DP	TP29_0.2-0.3	0	No odour, staining or asbestos containing material observed
		0.6			Termination Depth at: 0.40 m.				
		0.8							
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

Comments:

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TEST PIT TP30

Project Number 61646
Client Frasers Property Australia
Project Name 219-233 Aldington Rd
Address Kemp's Creek

Contractor Ken Coles
Date 14-Dec-21
Plant Excavator
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By M Linz

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2		Fill	Fill - Clayey SILT, brown/grey: heterogeneous, damp, low plasticity, soft,	DP	TP30_0-0.1	0.1	No odour, staining or asbestos containing material observed
		0.4		CH	Natural - CLAY, orange/red/brown, homogenous, damp, high plasticity, firm,	DP	TP30_0.2-0.3	0	No odour, staining or asbestos containing material observed
		0.6			Termination Depth at: 0.40 m.				
		0.8							
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

Comments:

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TEST PIT TP31

Project Number 61646
Client Frasers Property Australia
Project Name 219-233 Aldington Rd
Address Kemp's Creek

Contractor Ken Coles
Date 14-Dec-21
Plant Excavator
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By M Linz

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2		Fill	Fill - SILT, grey/black, heterogeneous, saturated, soft, inclusion of organic matter	S	TP31_0-0.1	0.4	No asbestos containing material. Organic odour and staining observed
							TP31_0.2-0.3	0	
		0.4					TP31_0.4-0.5	0	
		0.6		CH-GC	Natural - Gravelly CLAY, brown, heterogeneous, saturated, high plasticity, soft,	S	TP31_0.9-1.0	0	No odour, staining or asbestos containing material observed
		0.8							
		1			Termination Depth at: 1.00 m.				
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

Comments:

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TEST PIT TP32

Project Number 61646
Client Frasers Property Australia
Project Name 219-233 Aldington Rd
Address Kemp's Creek

Contractor Ken Coles
Date 14-Dec-21
Plant Excavator
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By M Linz

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2		Fill	Fill - Clayey SILT, brown, heterogeneous, damp, low plasticity, soft, inclusion of black plastic	DP	TP32_0-0.1	0.2	No odour, staining or asbestos containing material observed
		0.4		CH	Natural - CLAY, orange/brown, homogenous, damp, high plasticity, firm,	DP	TP32_0.2-0.3	0	No odour, staining or asbestos containing material observed
		0.6			Termination Depth at: 0.50 m.				
		0.8							
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

Comments:

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TEST PIT TP33

Project Number 61646
Client Frasers Property Australia
Project Name 219-233 Aldington Rd
Address Kemp's Creek

Contractor Ken Coles
Date 14-Dec-21
Plant Excavator
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By M Linz

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2		Fill	Fill - Clayey SILT, brown, heterogeneous, damp, low plasticity, soft, inclusion of black plastic	DP	TP33_0-0.1	0.1	No odour, staining or asbestos containing material observed
		0.4		CH	Natural - CLAY, red/brown, homogenous, damp, high plasticity, firm,	DP	TP33_0.2-0.3	0	No odour, staining or asbestos containing material observed
		0.6			Termination Depth at: 0.50 m.				
		0.8							
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

Comments:

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TEST PIT TP34

Project Number 61646
Client Frasers Property Australia
Project Name 219-233 Aldington Rd
Address Kemp's Creek

Contractor Ken Coles
Date 14-Dec-21
Plant Excavator
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By M Linz

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2		Fill	Fill - Clayey SILT, brown, heterogeneous, damp, low plasticity, soft, inclusion of black plastic & tubing	DP	TP34_0-0.1	0	No odour, staining or asbestos containing material observed
		0.4		CH	Natural - CLAY, red/brown, homogenous, damp, high plasticity, firm,	DP	TP34_0.2-0.3	0	No odour, staining or asbestos containing material observed
		0.6			Termination Depth at: 0.50 m.				
		0.8							
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

Comments:

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TEST PIT TP35

Project Number 61646
Client Frasers Property Australia
Project Name 219-233 Aldington Rd
Address Kemp's Creek

Contractor Ken Coles
Date 14-Dec-21
Plant Excavator
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By M Linz

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2		Fill	Fill - Clayey SILT, brown, heterogeneous, damp, low plasticity, soft, inclusion of roots	DP	TP35_0-0.1	0	No odour, staining or asbestos containing material observed
		0.4		CH	Natural - CLAY, red/brown, homogenous, damp, high plasticity, firm,	DP	TP35_0.2-0.3	0.1	No odour, staining or asbestos containing material observed
		0.6			Termination Depth at: 0.50 m.				
		0.8							
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

Comments:

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TEST PIT TP36

Project Number 61646
Client Frasers Property Australia
Project Name 219-233 Aldington Rd
Address Kemp's Creek

Contractor Ken Coles
Date 14-Dec-21
Plant Excavator
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By M Linz

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2		Fill	Fill - Clayey SILT, brown, heterogeneous, damp, low plasticity, soft, inclusion of grass & rocks	DP	TP36_0-0.1	0	No odour, staining or asbestos containing material observed
		0.4		CH	Natural - CLAY, red/orange, homogenous, damp, high plasticity, firm,	DP	TP36_0.2-0.3	0	No odour, staining or asbestos containing material observed
		0.6			Termination Depth at: 0.50 m.				
		0.8							
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

Comments:

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TEST PIT TP37

Project Number 61646
Client Frasers Property Australia
Project Name 219-233 Aldington Rd
Address Kemp's Creek

Contractor Ken Coles
Date 14-Dec-21
Plant Excavator
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By M Linz

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2		Fill	Fill - Clayey SILT, brown, heterogeneous, damp, low plasticity, soft,	DP	TP37_0-0.1	0	No odour, staining or asbestos containing material observed
		0.4		CH	Natural - CLAY, red/orange, homogenous, damp, high plasticity, firm,	DP	TP37_0.2-0.3	0	No odour, staining or asbestos containing material observed
		0.6			Termination Depth at: 0.40 m.				
		0.8							
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

Comments:

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TEST PIT TP38

Project Number 61646
Client Frasers Property Australia
Project Name 219-233 Aldington Rd
Address Kemp's Creek

Contractor Ken Coles
Date 14-Dec-21
Plant Excavator
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By M Linz

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2		Fill	Fill - Clayey SILT, brown, heterogeneous, damp, low plasticity, soft, inclusion of black plastic	DP	TP38_0-0.1	0	No odour, staining or asbestos containing material observed
		0.4		CH	Natural - CLAY, red/orange/brown, homogenous, damp, high plasticity, firm,	DP	TP38_0.2-0.3	0	No odour, staining or asbestos containing material observed
		0.6			Termination Depth at: 0.40 m.				
		0.8							
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

Comments:

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TEST PIT TP39

Project Number 61646
Client Frasers Property Australia
Project Name 219-233 Aldington Rd
Address Kemp's Creek

Contractor Ken Coles
Date 14-Dec-21
Plant Excavator
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By M Linz

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2		Fill	Fill - Clayey SILT, brown, heterogeneous, damp, low plasticity, soft, inclusion of black plastic	DP	TP39_0-0.1	0	No odour, staining or asbestos containing material observed
		0.4		CH	Natural - CLAY, red/orange/brown, homogenous, damp, high plasticity, firm,	DP	TP39_0.2-0.3	0	No odour, staining or asbestos containing material observed
		0.6			Termination Depth at: 0.50 m.				
		0.8							
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

Comments:

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TEST PIT TP40

Project Number 61646
Client Frasers Property Australia
Project Name 219-233 Aldington Rd
Address Kemp's Creek

Contractor Ken Coles
Date 14-Dec-21
Plant Excavator
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By M Linz

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2		Fill	Fill - Clayey SILT, dark brown, damp, low plasticity,	DP	TP40_0-0.1	0	No odour, staining or asbestos containing material observed
		0.4		Fill	Fill - Gravelly CLAY, brown, heterogeneous, damp, medium plasticity, firm, inclusion of gravels	DP	TP40_0.4-0.5	0	No odour, staining or asbestos containing material observed
		0.6							
		0.8		CH	Natural - CLAY, cream/red mottled, homogenous, damp, high plasticity, firm,	DP	TP40_0.9-1.0	0	No odour, staining or asbestos containing material observed
		1			Termination Depth at: 1.00 m.				
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

Comments:

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TEST PIT TP41

Project Number 61646
Client Frasers Property Australia
Project Name 219-233 Aldington Rd
Address Kemp's Creek

Contractor Ken Coles
Date 14-Dec-21
Plant Excavator
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By M Linz

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2		Fill	Fill - Clayey SILT, dark brown, damp, low plasticity, inclusion of roots	DP	TP41_0-0.1	0	No odour, staining or asbestos containing material observed
				Fill	Fill - Gravelly CLAY, brown, heterogeneous, damp, medium plasticity, firm, inclusion of gravels	DP	TP41_0.3-0.4	0	No odour, staining or asbestos containing material observed
		0.4		CH	Natural - CLAY, cream/red mottled, homogenous, damp, high plasticity, firm,	DP	TP41_0.5-0.6	0	No odour, staining or asbestos containing material observed
		0.6							
		0.8							
		1			Termination Depth at: 1.00 m.				
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

Comments:

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TEST PIT TP42

Project Number 61646
Client Frasers Property Australia
Project Name 219-233 Aldington Rd
Address Kemp's Creek

Contractor Ken Coles
Date 14-Dec-21
Plant Excavator
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By M Linz

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2		Fill	Fill - Clayey SILT, brown, heterogeneous, damp, medium plasticity, soft, inclusion of grass	DP	TP42_0-0.1	0	No odour, staining or asbestos containing material observed
		0.4		Fill	Fill - Gravelly CLAY, brown, heterogeneous, damp, high plasticity, firm, inclusion of gravels	DP	TP42_0.3-0.4	0	No odour, staining or asbestos containing material observed
		0.6		CH	Natural - CLAY, red/grey mottled, damp, high plasticity, firm, inclusion of iron stone	DP	TP42_0.9-1.0	0	No odour, staining or asbestos containing material observed
		0.8							
		1							
		1.2							
		1.4			Termination Depth at: 1.30 m.				
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

Comments:

Disclaimer This log is intended for environmental not geotechnical purposes.
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TEST PIT TP43

Project Number 61646
Client Frasers Property Australia
Project Name 219-233 Aldington Rd
Address Kemp's Creek

Contractor Ken Coles
Date 14-Dec-21
Plant Excavator
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By M Linz

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2		Fill	Fill - Silty CLAY, brown, heterogeneous, damp, low plasticity, soft, inclusion of roots	DP	TP43_0-0.1	0	No odour, staining or asbestos containing material observed
		0.4		CH	Natural - CLAY, brown/grey, damp, high plasticity, firm,	DP	TP43_0.3-0.4	0	No odour, staining or asbestos containing material observed
		0.6			Termination Depth at: 0.60 m.				
		0.8							
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

Comments:

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produced by ESlog.ESdat.net on 20 Dec 2021

TEST PIT TP44

Project Number 61646
Client Frasers Property Australia
Project Name 219-233 Aldington Rd
Address Kemp's Creek

Contractor Ken Coles
Date 14-Dec-21
Plant Excavator
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By M Linz

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2		Fill	Fill - Clayey SILT, brown, heterogeneous, damp,	DP	TP44_0-0.1	0	No odour, staining or asbestos containing material observed
		0.4		Fill	Fill - Gravelly CLAY, brown/red/grey, heterogeneous, damp, medium plasticity, inclusion of gravels	DP	TP44_0.3-0.4	0	No odour, staining or asbestos containing material observed
		0.6		CH	Natural - CLAY, cream/red, homogenous, damp, high plasticity, firm,	DP	TP44_0.9-1.0	0	No odour, staining or asbestos containing material observed
		0.8							
		1			Termination Depth at: 1.00 m.				
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

Comments:

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TEST PIT TP45

Project Number 61646
Client Frasers Property Australia
Project Name 219-233 Aldington Rd
Address Kemp's Creek

Contractor Ken Coles
Date 14-Dec-21
Plant Excavator
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By M Linz

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2		Fill	Fill - Silty CLAY, brown, heterogeneous, damp, low plasticity, soft, inclusion of styrofoam cup, black plastic	DP	TP45_0-0.1	0	No odour, staining or asbestos containing material observed
		0.4		CH	Natural - CLAY, red, homogenous, damp, high plasticity, firm,	DP	TP45_0.3-0.4	0	No odour, staining or asbestos containing material observed
		0.6			Termination Depth at: 0.50 m.				
		0.8							
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

Comments:

Disclaimer This log is intended for environmental not geotechnical purposes.
produced by ESlog.ESdat.net on 20 Dec 2021

TEST PIT TP46

Project Number 61646
Client Frasers Property Australia
Project Name 219-233 Aldington Rd
Address Kemp's Creek

Contractor Ken Coles
Date 14-Dec-21
Plant Excavator
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By M Linz

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2		Fill	Fill - Clayey SILT, brown, heterogeneous, damp, low plasticity, inclusion of grass and sandstone	DP	TP46_0-0.1	0	No odour, staining or asbestos containing material observed
		0.4		CH	Natural - CLAY, red, homogenous, damp, high plasticity, firm, inclusion of ironstone	DP	TP46_0.3-0.4	0	No odour, staining or asbestos containing material observed
		0.6			Termination Depth at: 0.40 m.				
		0.8							
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

Comments:

Disclaimer This log is intended for environmental not geotechnical purposes.
produced by ESlog.ESdat.net on 20 Dec 2021

TEST PIT TP47

Project Number 61646
Client Frasers Property Australia
Project Name 219-233 Aldington Rd
Address Kemp's Creek

Contractor Ken Coles
Date 14-Dec-21
Plant Excavator
Method Test Pit

Easting N/A
Northing N/A
Coordinate System N/A
Logged By M Linz

Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.2		Fill	Fill - Clayey SILT, brown, heterogeneous, moist, low plasticity, inclusion of grass	M	TP47_0-0.1	0	No odour, staining or asbestos containing material observed
		0.4		CH	Natural - CLAY, red, homogenous, damp, high plasticity, firm,	DP	TP47_0.3-0.4	0	No odour, staining or asbestos containing material observed
		0.6			Termination Depth at: 0.40 m.				
		0.8							
		1							
		1.2							
		1.4							
		1.6							
		1.8							
		2							
		2.2							
		2.4							
		2.6							
		2.8							
		3							
		3.2							
		3.4							
		3.6							
		3.8							

Comments:

Disclaimer This log is intended for environmental not geotechnical purposes.
produced by ESlog.ESdat.net on 20 Dec 2021

Attachment 6 – 95% UCL Statistics

1	**Normal UCL Statistics for Uncensored Full Data Sets**											
2												
3	User Selected Options											
4	Date/Time of Computation	2/04/2024 12:53:08 PM										
5	From File	WorkSheet_a.xls										
6	Full Precision	OFF										
7	Confidence Coefficient	95%										
8												
9												
10	**C0**											
11												
12	**General Statistics**											
13	Total Number of Observations	82				Number of Distinct Observations	29					
14						Number of Missing Observations	25					
15	Minimum	5.5				Mean	15.25					
16	Maximum	42				Median	14					
17	SD	6.103				SD of logged Data	0.371					
18	Coefficient of Variation	0.4				Skewness	1.734					
19												
20	**Normal GOF Test**											
21	Shapiro Wilk Test Statistic	0.88				**Normal GOF Test**						
22	5% Shapiro Wilk P Value	7.8844E-9				Data Not Normal at 5% Significance Level						
23	Lilliefors Test Statistic	0.134				**Lilliefors GOF Test**						
24	5% Lilliefors Critical Value	0.0978				Data Not Normal at 5% Significance Level						
25	**Data Not Normal at 5% Significance Level**											
26												
27	**Assuming Normal Distribution**											
28	**95% Normal UCL**					**95% UCLs (Adjusted for Skewness)**						
29	95% Student's-t UCL	16.37				95% Adjusted-CLT UCL (Chen-1995)	16.49					
30						95% Modified-t UCL (Johnson-1978)	16.39					
31												
32	**Suggested UCL to Use**											
33	**Data appear Gamma, May want to try Gamma Distribution**											
34												
35	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
36	These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)											
37	and Singh and Singh (2003). However, simulations results will not cover all Real World data sets.											
38	For additional insight the user may want to consult a statistician.											
39												

Appendix F Material Tracking Records

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Offsite Material Tracking (Form MT1)

Project Name: 199 Aldington Road, Kemps Creek **Project No.: KEMPA**

Sheet No.	Date	Time	Material Type	Material Classification	Weight (t)	Loads	Truck Contractor	Truck Config.	Truck Rego	Destination	Docket No.	EPA Transport Certificate No.	Supervisor	Physical Sheet Scanned/Filed?	Comments
1	21/03/2024	7:37	Others	GSW (Asbestos)	17.22	1	HI Quality	Bogie	XO40XB	Brandown Waste & Recycling	120044799-NCRD		Jake Steadman		TP460 & 463
1	21/03/2024	7:39	Others	GSW (Asbestos)	15.78	1	HI Quality	Bogie	XO79TY	Brandown Waste & Recycling	120044800-NCRD		Jake Steadman		TP460 & 463
1	21/03/2024	8:56	Others	GSW (Asbestos)	18.10	1	HI Quality	Bogie	XO40XB	Brandown Waste & Recycling	120044830-NCRD.2		Jake Steadman		TP460 & 463
1	21/03/2024	9:08	Others	GSW (Asbestos)	16.00	1	HI Quality	Bogie	XO79TY	Brandown Waste & Recycling	120044832-NCRD		Jake Steadman		TP460 & 463
1	21/03/2024	10:03	Others	GSW (Asbestos)	17.56	1	HI Quality	Bogie	XO40XB	Brandown Waste & Recycling	120044852-NCRD		Jake Steadman		TP460 & 463
1	21/03/2024	10:41	Others	GSW (Asbestos)	16.76	1	HI Quality	Bogie	XO79TY	Brandown Waste & Recycling	120044870-NCRD		Jake Steadman		TP460 & 463
1	21/03/2024	11:46	Others	GSW (Asbestos)	18.84	1	HI Quality	Bogie	XO40XB	Brandown Waste & Recycling	120044898-NCRD.2		Jake Steadman		TP460 & 463
1	21/03/2024	11:52	Others	GSW (Asbestos)	18.94	1	HI Quality	Bogie	XO79TY	Brandown Waste & Recycling	120044901-NCRD.2		Jake Steadman		TP460 & 463
1	21/03/2024	13:50	Others	GSW (Asbestos)	17.40	1	HI Quality	Bogie	XO40XB	Brandown Waste & Recycling	120044957-NCRD		Jake Steadman		Area 6C - Asbestos Concrete
1	21/03/2024	14:00	Others	GSW (Asbestos)	8.26	1	HI Quality	Bogie	XO79TY	Brandown Waste & Recycling	120044967-NCRD		Jake Steadman		TP460 & 463
1	22/03/2024	10:11	Others	GSW (Non-Recyc)	12.50	1	FCC	Bogie	05KENY	Kemps Creek Recycling Park	51012464		Jake Steadman		TP398
1	22/03/2024	10:57	Others	GSW (Non-Recyc)	14.44	1	FCC	Bogie	05KENY	Kemps Creek Recycling Park	51012477		Jake Steadman		TP398
2	26/03/2024	9:53	Others	Asb Sheeting/ Bins	4.64	1	FCC	Bogie	CI85HB	Bingo Recycling - Eastern Creek	268952	MGH6GDZ6	Jake Steadman		Area 1A - Additional Asbestos Pipe - 35m
3	28/03/2024	8:24	Others	GSW (Asbestos)	8.88	1	FCC	Bogie	CI85HB	Bingo Recycling - Eastern Creek	273311	MWSLRQTE	Jake Steadman		Area 1E/4F and 1F/3C Additional Asbestos Disposal
3	28/03/2024	10:23	Others	GSW (Asbestos)	5.34	1	FCC	Bogie	CI85HB	Bingo Recycling - Eastern Creek	273736	MZ6YLNWT	Jake Steadman		Area 1E/4F and 1F/3C Additional Asbestos Disposal
4	3/04/2024	8:11	Others	Asb Green Waste	2.74	1	FCC	Bogie	XN19XN	Bingo Recycling - Eastern Creek	277616	MM552LCY	Jake Steadman		Area 6C Asbestos Green Waste
4	3/04/2024	9:43	Others	Asb Green Waste	2.90	1	FCC	Bogie	XN19XN	Bingo Recycling - Eastern Creek	277941	MAYQFAVR	Jake Steadman		Area 6C Asbestos Green Waste
4	3/04/2024	11:16	Others	Asb Green Waste	4.68	1	FCC	Bogie	XN19XN	Bingo Recycling - Eastern Creek	278262	MBCPZ629	Jake Steadman		Area 6C Asbestos Green Waste
5	9/04/2024	8:58	Others	GSW (Asbestos)	10.26	1	FCC	Bogie	JL0015	Brandown Waste & Recycling	120047299-NCRD	MDJMSHLY	Lawrence Saliba		Area 1B GSW Asbestos
5	9/04/2024	9:46	Others	GSW (Asbestos)	11.26	1	FCC	Bogie	JL0015	Brandown Waste & Recycling	120047313-NCRD	MZVCYDCH	Lawrence Saliba		Area 1B GSW Asbestos
5	9/04/2024	10:36	Others	GSW (Asbestos)	11.40	1	FCC	Bogie	JL0015	Brandown Waste & Recycling	120047333-NCRD	MJ876BEQ	Lawrence Saliba		Area 1B GSW Asbestos
5	9/04/2024	11:38	Others	GSW (Asbestos)	9.04	1	FCC	Bogie	JL0015	Brandown Waste & Recycling	120047353-NCRD	MH8Q5KKT	Lawrence Saliba		Area 6C GSW Asbestos
5	9/04/2024	12:40	Others	GSW (Asbestos)	9.30	1	FCC	Bogie	JL0015	Brandown Waste & Recycling	120047380-NCRD	M864Y2QY	Lawrence Saliba		Area 6C GSW Asbestos
5	9/04/2024	1:24	Others	GSW (Asbestos)	7.94	1	FCC	Bogie	JL0015	Brandown Waste & Recycling	120047398-NCRD	MR3ELMCA	Lawrence Saliba		Area 6C GSW Asbestos
5	9/04/2024	2:22	Others	GSW (Asbestos)	8.26	1	FCC	Bogie	JL0015	Brandown Waste & Recycling	120047426-NCRD	MJ3ZA4LU	Lawrence Saliba		219-233 & 235-251 GSW Asbestos
5	9/04/2024	3:37	Others	GSW (Asbestos)	7.36	1	FCC	Bogie	JL0015	Brandown Waste & Recycling	120047447-NCRD	M48YQ7VR	Lawrence Saliba		219-233 & 235-251 GSW Asbestos

Delivery Docket
REPRINT

Brandown Waste and Recycling Pty
90 Range RD Cecil Park
NSW 2178
Phone: 0298261256

ABN: 97 659 847 300

Ticket No: 120044799-NCRD

Time In: 21/03/2024 7:37:54 AM
Time Out: 21/03/2024 7:37:54 AM

Vehicle Rego: XO40XB

Client: FORD CIVIL CONTRACTING P/L

Order Number:
Job: Ford Civil JZ Q-05209 Alington Rd Kemps Crk WAN 2024/00862
Job Add:Aldington Road
Kemps Creek

Weighed Items Price
Asbestos (Building & Demo)

Each Items Qty Price

GROSS Weight: 29.40t
TARE Weight: 12.18t(M)
NET Weight: 17.22t

TARE 1 12.18t(M)
GROSS 1 29.40t

Each Item Weight: 0.00t
Unit Cost:

Chargeable Fee:
Each Items:
GST :
==========
Total Price:
==========

Payments:

Driver:
MANUAL TICKET
Operator: kcrothers
Comments

.....

Delivery Docket
REPRINT

Brandown Waste and Recycling Pty
90 Range RD Cecil Park
NSW 2178
Phone: 0298261256

ABN: 97 659 847 300

Ticket No: 120044800-NCRD

Time In: 21/03/2024 7:39:42 AM
Time Out: 21/03/2024 7:39:42 AM

Vehicle Rego: XO79TY

Client: FORD CIVIL CONTRACTING P/L

Order Number:
Job: Ford Civil JZ Q-05209 Alington Rd Kemps Crk WAN 2024/00862
Job Add:Aldington Road
Kemps Creek

Weighed Items		Price
Asbestos (Building & Demo)		

Each Items	Qty	Price

GROSS Weight:	28.34t
TARE Weight:	12.56t
NET Weight:	15.78t

TARE	1	12.56t
GROSS	1	28.34t

Each Item Weight: 0.00t
Unit Cost:

Chargeable Fee:
Each Items:
GST :
==========
Total Price:
==========

Payments:

Driver:

Operator: kcrothers
Comments

.....

Delivery Docket
REPRINT

Brandown Waste and Recycling Pty
90 Range RD Cecil Park
NSW 2178
Phone: 0298261256

ABN: 97 659 847 300

Ticket No: 120044830-NCRD.2

Time In: 21/03/2024 8:56:49 AM
Time Out: 21/03/2024 8:56:49 AM

Vehicle Rego: XO40XB

Client: FORD CIVIL CONTRACTING P/L

Order Number:
Job: Ford Civil JZ Q-05209 Alington Rd Kemps Crk WAN 2024/00862
Job Add:Aldington Road
Kemps Creek

Weighed Items Price
Asbestos (Building & Demo)

Each Items Qty Price

GROSS Weight: 30.28t
TARE Weight: 12.18t(M)
NET Weight: 18.10t

TARE 1 12.18t(M)
GROSS 1 30.28t

Each Item Weight: 0.00t
Unit Cost:

Chargeable Fee:
Each Items:
GST :
==========
Total Price:
==========

Payments:

Driver:
MANUAL TICKET
Operator: mkiley
Comments

.....

Delivery Docket
REPRINT

Brandown Waste and Recycling Pty
90 Range RD Cecil Park
NSW 2178
Phone: 0298261256

ABN: 97 659 847 300

Ticket No: 120044832-NCRD

Time In: 21/03/2024 9:08:07 AM
Time Out: 21/03/2024 9:08:07 AM

Vehicle Rego: XO79TY

Client: FORD CIVIL CONTRACTING P/L

Order Number:
Job: Ford Civil JZ Q-05209 Alington Rd Kemps Crk WAN 2024/00862
Job Add:Aldington Road
Kemps Creek

Weighed Items Price
Asbestos (Building & Demo)

Each Items Qty Price

GROSS Weight: 28.56t
TARE Weight: 12.56t
NET Weight: 16.00t

TARE 1 12.56t
GROSS 1 28.56t

Each Item Weight: 0.00t
Unit Cost:

Chargeable Fee:
Each Items:
GST :
==========
Total Price:
==========

Payments:

Driver:

Operator: mkiley
Comments

.....

Delivery Docket
REPRINT

Brandown Waste and Recycling Pty
90 Range RD Cecil Park
NSW 2178
Phone: 0298261256

ABN: 97 659 847 300

Ticket No: 120044852-NCRD

Time In: 21/03/2024 10:03:19 AM
Time Out: 21/03/2024 10:03:19 AM

Vehicle Rego: XO40XB

Client: FORD CIVIL CONTRACTING P/L

Order Number:
Job: Ford Civil JZ Q-05209 Alington Rd Kemps Crk WAN 2024/00862
Job Add:Aldington Road
Kemps Creek

Weighed Items		Price
Asbestos (Building & Demo)		

Each Items	Qty	Price

GROSS Weight:	29.74t
TARE Weight:	12.18t(M)
NET Weight:	17.56t

TARE	1	12.18t(M)
GROSS	1	29.74t

Each Item Weight: 0.00t
Unit Cost:

Chargeable Fee:
Each Items:
GST :
==========
Total Price:
==========

Payments:

Driver:
MANUAL TICKET
Operator: kcrothers
Comments

.....

Delivery Docket
REPRINT

Brandown Waste and Recycling Pty
90 Range RD Cecil Park
NSW 2178
Phone: 0298261256

ABN: 97 659 847 300

Ticket No: 120044870-NCRD

Time In: 21/03/2024 10:41:35 AM
Time Out: 21/03/2024 10:41:35 AM

Vehicle Rego: XO79TY

Client: FORD CIVIL CONTRACTING P/L

Order Number:
Job: Ford Civil JZ Q-05209 Alington Rd Kemps Crk WAN 2024/00862
Job Add:Aldington Road
Kemps Creek

Weighed Items		Price
Asbestos (Building & Demo)		

Each Items	Qty	Price

GROSS Weight:	29.32t
TARE Weight:	12.56t
NET Weight:	16.76t

TARE	1	12.56t
GROSS	1	29.32t

Each Item Weight: 0.00t
Unit Cost:

Chargeable Fee:
Each Items:
GST :
==========
Total Price:
==========

Payments:

Driver:

Operator: kcrothers
Comments

.....

Delivery Docket
REPRINT

Brandown Waste and Recycling Pty
90 Range RD Cecil Park
NSW 2178
Phone: 0298261256

ABN: 97 659 847 300

Ticket No: 120044898-NCRD.2

Time In: 21/03/2024 11:46:46 AM
Time Out: 21/03/2024 11:46:46 AM

Vehicle Rego: XO40XB

Client: FORD CIVIL CONTRACTING P/L

Order Number:
Job: Ford Civil JZ Q-05209 Alington Rd Kemps Crk WAN 2024/00862
Job Add:Aldington Road
Kemps Creek

Weighed Items		Price
Asbestos (Building & Demo)		

Each Items	Qty	Price

GROSS Weight:	31.02t
TARE Weight:	12.18t(M)
NET Weight:	18.84t

TARE	1	12.18t(M)
GROSS	1	31.02t

Each Item Weight: 0.00t
Unit Cost:

Chargeable Fee:
Each Items:
GST :
==========
Total Price:
==========

Payments:

Driver:
MANUAL TICKET
Operator: kcrothers
Comments

.....

Delivery Docket
REPRINT

Brandown Waste and Recycling Pty
90 Range RD Cecil Park
NSW 2178
Phone: 0298261256

ABN: 97 659 847 300

Ticket No: 120044901-NCRD.2

Time In: 21/03/2024 11:52:23 AM
Time Out: 21/03/2024 11:52:23 AM

Vehicle Rego: XO79TY

Client: FORD CIVIL CONTRACTING P/L

Order Number: Willoughby
Job: Ford Civil JZ Q-05209 Alington Rd Kemps Crk WAN 2024/00862
Job Add:Aldington Road
Kemps Creek

Weighed Items Price
Asbestos (Building & Demo)

Each Items Qty Price

GROSS Weight: 31.50t
TARE Weight: 12.56t
NET Weight: 18.94t

TARE 1 12.56t
GROSS 1 31.50t

Each Item Weight: 0.00t
Unit Cost:

Chargeable Fee:
Each Items:
GST :
==========
Total Price:
==========

Payments:

Driver:

Operator: kcrothers
Comments

.....

Delivery Docket
REPRINT

Brandown Waste and Recycling Pty
90 Range RD Cecil Park
NSW 2178
Phone: 0298261256

ABN: 97 659 847 300

Ticket No: 120044957-NCRD

Time In: 21/03/2024 1:50:29 PM
Time Out: 21/03/2024 1:50:29 PM

Vehicle Rego: XO40XB

Client: FORD CIVIL CONTRACTING P/L

Order Number:
Job: Ford Civil JZ Q-05209 Alington Rd Kemps Crk WAN 2024/00862
Job Add:Aldington Road
Kemps Creek

Weighed Items Price
Asbestos (Building & Demo)

Each Items Qty Price

GROSS Weight: 29.58t
TARE Weight: 12.18t(M)
NET Weight: 17.40t

TARE 1 12.18t(M)
GROSS 1 29.58t

Each Item Weight: 0.00t
Unit Cost:

Chargeable Fee:
Each Items:
GST :
==========
Total Price:
==========

Payments:

Driver:
MANUAL TICKET
Operator: mkiley
Comments

.....

Delivery Docket
REPRINT

Brandown Waste and Recycling Pty
90 Range RD Cecil Park
NSW 2178
Phone: 0298261256

ABN: 97 659 847 300

Ticket No: 120044967-NCRD

Time In: 21/03/2024 2:00:51 PM
Time Out: 21/03/2024 2:00:51 PM

Vehicle Rego: XO79TY

Client: FORD CIVIL CONTRACTING P/L

Order Number:
Job: Ford Civil JZ Q-05209 Alington Rd Kemps Crk WAN 2024/00862
Job Add:Aldington Road
Kemps Creek

Weighed Items Price
Asbestos (Building & Demo)

Each Items Qty Price

GROSS Weight: 20.82t
TARE Weight: 12.56t
NET Weight: 8.26t

TARE 1 12.56t
GROSS 1 20.82t

Each Item Weight: 0.00t
Unit Cost:

Chargeable Fee:
Each Items:
GST :
==========
Total Price:
==========

Payments:

Driver:

Operator: mkiley
Comments

.....

Recycling Parks Pty Ltd
16-23 Clifton Ave
ABN: 66 610 969 303
Ph: 02 9826 1000
admin@recyclingparks.com.au

Docket: **51012464**

Date: **22/03/2024**

CUSTOMER COPY

Bulk Transport Solutions Pty Limited **Rego:** 05KENY

Order: KEMPS CREEK **Approval ID:** 240321-2

Material	Gross	Time	Tare	Time	Nett	Quantity
General Solid Waste	20.82 t	10:04	8.32 t	10:11	12.50 t	

Recycling Parks Pty Ltd
16-23 Clifton Ave
ABN: 66 610 969 303
Ph: 02 9826 1000
admin@recyclingparks.com.au

Docket: **51012477**

Date: **22/03/2024**

CUSTOMER COPY

Bulk Transport Solutions Pty Limited **Rego:** 05KENY

Order: KEMPS CREEK **Approval ID:** 240321-2

Material	Gross	Time	Tare	Time	Nett	Quantity
General Solid Waste	22.76 t	10:57	8.32 t	11:05	14.44 t	

BINGO Recycling - Eastern Creek
Bingo Waste Services Pty Ltd
A.B.N. 43 162 988 623
Honeycomb Drive
Eastern Creek NSW 2766
Phone: 1300 424 646

Docket #268952 : Waste Delivery

Docket Date: 26/03/2024

Gross: 14.44 Tonne
Tare: 9.80 Tonne
Net: 4.64 Tonne

Time In: 26/03/2024 09:53:57 AM
Time Out: 26/03/2024 10:14:20 AM

Customer
Bulk Transport Solutions
COLYTON
PO: KEMPS CREEK
Vehicle: CI85HB
Driver: Jim

Item	Qty	UOM
Asbestos Non Friable (Bonded or Sheeting)	4.64	Tonne

Printed At: 27/03/2024 8:00 AM

Driver Acknowledgment: You are under the instruction of site personnel. All machinery has right of way at all times. No fibro, food or hazardous materials are accepted. All Drivers must check axle weights and GVM. All loads must be adequately restrained. You agree to take all reasonable steps to prevent breaches of heavy vehicle national laws. Any breaches of the above may be subject to extra charges

For faster service, quote Contract Reference No
AS200

BINGO Recycling - Eastern Creek
Bingo Waste Services Pty Ltd
A.B.N. 43 162 988 623
Honeycomb Drive
Eastern Creek NSW 2766
Phone: 1300 424 646

Docket #273311 : Waste Delivery

Docket Date: 28/03/2024

Gross: 18.70 Tonne
Tare: 9.82 Tonne
Net: 8.88 Tonne

Time In: 28/03/2024 08:24:19 AM
Time Out: 28/03/2024 08:41:10 AM

Customer
Bulk Transport Solutions
KEMPS CREEK
PO: Kemps Creek
Vehicle: CI85HB
Driver: Jim

Item	Qty	UOM
Asbestos Contaminated Soils	8.88	Tonne

Printed At: 02/04/2024 8:36 AM

Driver Acknowledgment: You are under the instruction of site personnel. All machinery has right of way at all times. No fibro, food or hazardous materials are accepted. All Drivers must check axle weights and GVM. All loads must be adequately restrained. You agree to take all reasonable steps to prevent breaches of heavy vehicle national laws. Any breaches of the above may be subject to extra charges

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For faster service, quote Contract Reference No
A3813

BINGO Recycling - Eastern Creek
Bingo Waste Services Pty Ltd
A.B.N. 43 162 988 623
Honeycomb Drive
Eastern Creek NSW 2766
Phone: 1300 424 646

Docket #273736 : Waste Delivery

Docket Date: 28/03/2024

Gross:	15.16 Tonne
Tare:	9.82 Tonne
Net:	5.34 Tonne

Time In: 28/03/2024 10:23:32 AM
Time Out: 28/03/2024 10:39:57 AM

Customer
Bulk Transport Solutions
KEMPS CREEK
PO: Kemps Creek
Vehicle: CI85HB
Driver: Jim

Item	Qty	UOM
Asbestos Contaminated Soils	5.34	Tonne

Printed At: 02/04/2024 8:36 AM

Driver Acknowledgment: You are under the instruction of site personnel. All machinery has right of way at all times. No fibro, food or hazardous materials are accepted. All Drivers must check axle weights and GVM. All loads must be adequately restrained. You agree to take all reasonable steps to prevent breaches of heavy vehicle national laws. Any breaches of the above may be subject to extra charges

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For faster service, quote Contract Reference No
A3813

BINGO Recycling - Eastern Creek
Bingo Waste Services Pty Ltd
A.B.N. 43 162 988 623
Honeycomb Drive
Eastern Creek NSW 2766
Phone: 1300 424 646

Docket #281251 : Waste Delivery
Linked Ticket: #277616 (03/04/2024)

Docket Date: 04/04/2024

Gross: 14.38 Tonne
Tare: 11.64 Tonne
Net: 2.74 Tonne

Time In: 03/04/2024 08:11:22 AM
Time Out: 03/04/2024 08:25:09 AM

Customer
Bulk Transport Solutions
COLYTON
PO: ASBESTOS WASTE
Vehicle: XN19XN
Driver: Ben

Item	Qty	UOM
Asbestos Mixed Waste	2.74	Tonne

Printed At: 04/04/2024 2:48 PM

Driver Acknowledgment: You are under the instruction of site personnel. All machinery has right of way at all times. No fibro, food or hazardous materials are accepted. All Drivers must check axle weights and GVM. All loads must be adequately restrained. You agree to take all reasonable steps to prevent breaches of heavy vehicle national laws. Any breaches of the above may be subject to extra charges

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For faster service, quote Contract Reference No **AD150**

BINGO Recycling - Eastern Creek
Bingo Waste Services Pty Ltd
A.B.N. 43 162 988 623
Honeycomb Drive
Eastern Creek NSW 2766
Phone: 1300 424 646

Docket #281253 : Waste Delivery
Linked Ticket: #277941 (03/04/2024)

Docket Date: 04/04/2024

Gross: 14.52 Tonne
Tare: 11.62 Tonne
Net: 2.90 Tonne

Time In: 03/04/2024 09:43:02 AM
Time Out: 03/04/2024 10:06:37 AM

Customer
Bulk Transport Solutions
COLYTON
PO: ASBESTOS WASTE
Vehicle: XN19XN
Driver: Ben

Item	Qty	UOM
Asbestos Mixed Waste	2.90	Tonne

Printed At: 04/04/2024 2:48 PM

Driver Acknowledgment: You are under the instruction of site personnel. All machinery has right of way at all times. No fibro, food or hazardous materials are accepted. All Drivers must check axle weights and GVM. All loads must be adequately restrained. You agree to take all reasonable steps to prevent breaches of heavy vehicle national laws. Any breaches of the above may be subject to extra charges

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For faster service, quote Contract Reference No
AD150

BINGO Recycling - Eastern Creek
Bingo Waste Services Pty Ltd
A.B.N. 43 162 988 623
Honeycomb Drive
Eastern Creek NSW 2766
Phone: 1300 424 646

Docket #281256 : Waste Delivery
Linked Ticket: #278262 (03/04/2024)

Docket Date: 04/04/2024

Gross: 16.28 Tonne
Tare: 11.60 Tonne
Net: 4.68 Tonne

Time In: 03/04/2024 11:16:28 AM
Time Out: 03/04/2024 11:45:51 AM

Customer
Bulk Transport Solutions
COLYTON
PO: ASBESTOS WASTE
Vehicle: XN19XN
Driver: Ben

Item	Qty	UOM
Asbestos Mixed Waste	4.68	Tonne

Printed At: 04/04/2024 2:48 PM

Driver Acknowledgment: You are under the instruction of site personnel. All machinery has right of way at all times. No fibro, food or hazardous materials are accepted. All Drivers must check axle weights and GVM. All loads must be adequately restrained. You agree to take all reasonable steps to prevent breaches of heavy vehicle national laws. Any breaches of the above may be subject to extra charges

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For faster service, quote Contract Reference No
AD150

brandown

WASTE & RECYCLING SERVICES HI-QUALITY GROUP

Delivery Docket

Brandown Waste and Recycling Pty
90 Range RD Cecil Park
NSW 2178
Phone: 0298261256

ABN: 97 659 847 300

Ticket No: 120047299-NCRD

Time In: 9/04/2024 8:58:30 AM
Time Out: 9/04/2024 9:09:44 AM

Vehicle Rego: JL0015

Client: FORD CIVIL CONTRACTING P/L

Order Number:
Job: Ford Civil JZ Q-05209 TIP FEE
Aldington Rd Kemps Crk WAN
2024/00862
Job Add:Aldington Road
Kemps Creek

Weighed Items Price
ASBESTOS CONTAMINATED SOIL

Each Items Qty Price

GROSS Weight: 20.60t
TARE Weight: 10.34t
NET Weight: 10.26t

GROSS 1 20.60t
TARE 1 10.34t

Each Item Weight: 0.00t
Unit Cost:

Chargeable Fee:
Each Items:
GST :
==========
Total Price:
==========

Payments:

Driver:

Density:

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brandown

WASTE & RECYCLING SERVICES HI-QUALITY GROUP

Delivery Docket

Brandown Waste and Recycling Pty
90 Range RD Cecil Park
NSW 2178
Phone: 0298261256

ABN: 97 659 847 300

Ticket No: 120047313-NCRD

Time In: 9/04/2024 9:46:20 AM
Time Out: 9/04/2024 9:46:20 AM

Vehicle Rego: JL0015

Client: FORD CIVIL CONTRACTING P/L

Order Number:
Job: Ford Civil JZ Q-05209 TIP FEE
Aldington Rd Kemps Crk WAN
2024/00862
Job Add:Aldington Road
Kemps Creek

Weighed Items Price
ASBESTOS CONTAMINATED SOIL

Each Items Qty Price

GROSS Weight: 21.60t
TARE Weight: 10.34t
NET Weight: 11.26t

TARE 1 10.34t
GROSS 1 21.60t

Each Item Weight: 0.00t
Unit Cost:

Chargeable Fee:
Each Items:
GST :
==========
Total Price:
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Payments:

Driver:

Density:

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brandown

WASTE & RECYCLING SERVICES HI-QUALITY GROUP

Delivery Docket

Brandown Waste and Recycling Pty
90 Range RD Cecil Park
NSW 2178
Phone: 0298261256

ABN: 97 659 847 300

Ticket No: 120047333-NCRD

Time In: 9/04/2024 10:36:45 AM
Time Out: 9/04/2024 10:36:45 AM

Vehicle Rego: JL0015

Client: FORD CIVIL CONTRACTING P/L

Order Number:
Job: Ford Civil JZ Q-05209 TIP FEE
Aldington Rd Kemps Crk WAN
2024/00862
Job Add:Aldington Road
Kemps Creek

Weighed Items Price
ASBESTOS CONTAMINATED SOIL

Each Items Qty Price

GROSS Weight: 21.74t
TARE Weight: 10.34t
NET Weight: 11.40t

TARE 1 10.34t
GROSS 1 21.74t

Each Item Weight: 0.00t
Unit Cost:

Chargeable Fee:
Each Items:
GST :
==========
Total Price:
==========

Payments:

Driver:

Density:

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brandown

WASTE & RECYCLING SERVICES HI-QUALITY GROUP

Delivery Docket

Brandown Waste and Recycling Pty
90 Range RD Cecil Park
NSW 2178
Phone: 0298261256

ABN: 97 659 847 300

Ticket No: 120047353-NCRD

Time In: 9/04/2024 11:38:30 AM
Time Out: 9/04/2024 11:38:30 AM

Vehicle Rego: JL0015

Client: FORD CIVIL CONTRACTING P/L

Order Number:
Job: Ford Civil JZ Q-05209 TIP FEE
Aldington Rd Kemps Crk WAN
2024/00862
Job Add:Aldington Road
Kemps Creek

Weighed Items Price
ASBESTOS CONTAMINATED SOIL

Each Items Qty Price

GROSS Weight: 19.38t
TARE Weight: 10.34t
NET Weight: 9.04t

TARE 1 1 10.34t
GROSS 2 1 19.38t

Each Item Weight: 0.00t
Unit Cost:

Chargeable Fee:
Each Items:
GST :
==========
Total Price:
==========

Payments:

Driver:

Density:

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brandown

WASTE & RECYCLING SERVICES HI-QUALITY GROUP

Delivery Docket

Brandown Waste and Recycling Pty
90 Range RD Cecil Park
NSW 2178
Phone: 0298261256

ABN: 97 659 847 300

Ticket No: 120047380-NCRD

Time In: 9/04/2024 12:40:21 PM
Time Out: 9/04/2024 12:40:21 PM

Vehicle Rego: JL0015

Client: FORD CIVIL CONTRACTING P/L

Order Number:
Job: Ford Civil JZ Q-05209 TIP FEE
Aldington Rd Kemps Crk WAN
2024/00862
Job Add:Aldington Road
Kemps Creek

Weighed Items Price
ASBESTOS CONTAMINATED SOIL

Each Items Qty Price

GROSS Weight: 19.64t
TARE Weight: 10.34t
NET Weight: 9.30t

TARE 1 10.34t
GROSS 1 19.64t

Each Item Weight: 0.00t
Unit Cost:

Chargeable Fee:
Each Items:
GST :
==========
Total Price:
==========

Payments:

Driver:

Density:

.....

brandown

WASTE & RECYCLING SERVICES HI-QUALITY GROUP

Delivery Docket

Brandown Waste and Recycling Pty
90 Range RD Cecil Park
NSW 2178
Phone: 0298261256

ABN: 97 659 847 300

Ticket No: 120047398-NCRD

Time In: 9/04/2024 1:24:49 PM
Time Out: 9/04/2024 1:24:49 PM

Vehicle Rego: JL0015

Client: FORD CIVIL CONTRACTING P/L

Order Number:
Job: Ford Civil JZ Q-05209 TIP FEE
Aldington Rd Kemps Crk WAN
2024/00862
Job Add:Aldington Road
Kemps Creek

Weighed Items Price
ASBESTOS CONTAMINATED SOIL

Each Items Qty Price

GROSS Weight: 18.28t
TARE Weight: 10.34t
NET Weight: 7.94t

TARE 1 10.34t
GROSS 1 18.28t

Each Item Weight: 0.00t
Unit Cost:

Chargeable Fee:
Each Items:
GST :
==========
Total Price:
==========

Payments:

Driver:

Density:

.....

brandown

WASTE & RECYCLING SERVICES HI-QUALITY GROUP

Delivery Docket

Brandown Waste and Recycling Pty
90 Range RD Cecil Park
NSW 2178
Phone: 0298261256

ABN: 97 659 847 300

Ticket No: 120047426-NCRD

Time In: 9/04/2024 2:22:49 PM
Time Out: 9/04/2024 2:22:49 PM

Vehicle Rego: JL0015

Client: FORD CIVIL CONTRACTING P/L

Order Number:
Job: Ford Civil JZ Q-05209 TIP FEE
Aldington Rd Kemps Crk WAN
2024/00862
Job Add:Aldington Road
Kemps Creek

Weighed Items			Price
ASBESTOS CONTAMINATED SOIL			
Each Items		**Qty**	**Price**
GROSS Weight:			18.60t
TARE Weight:			10.34t
NET Weight:			8.26t
TARE 1	1		10.34t
GROSS 2	1		18.60t

Each Item Weight: 0.00t
Unit Cost:

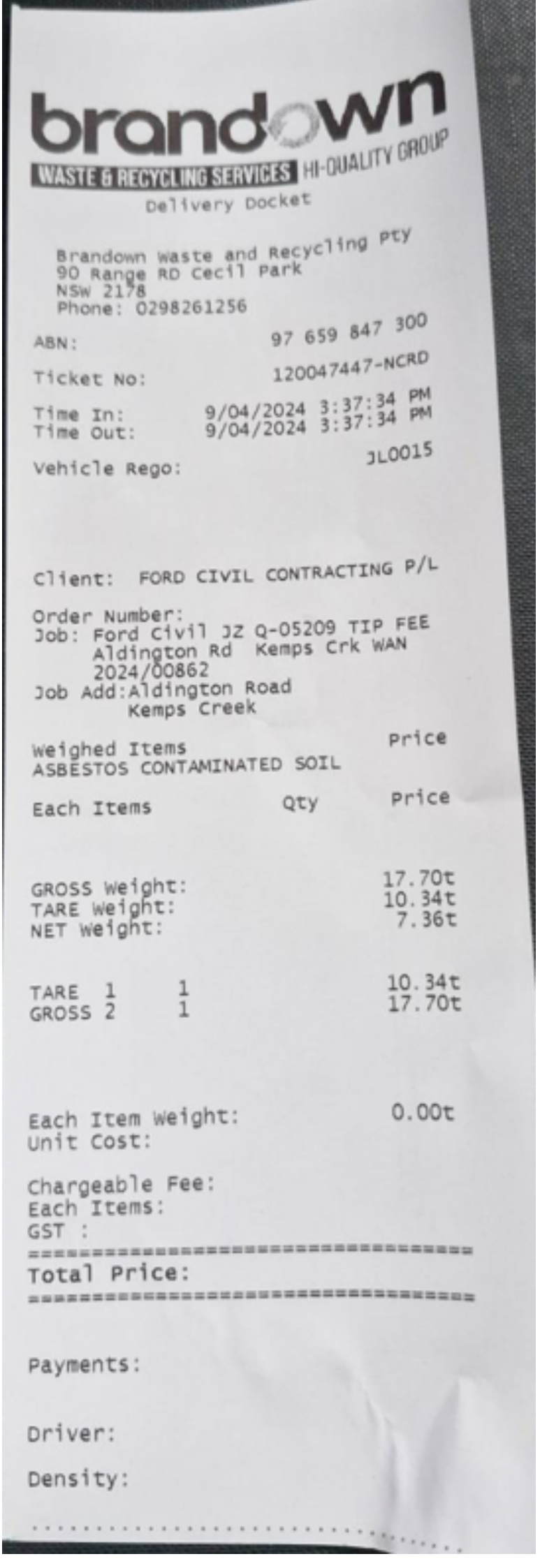
Chargeable Fee:
Each Items:
GST :
==========
Total Price:
==========

Payments:

Driver:

Density:

.....



brandown
WASTE & RECYCLING SERVICES HI-QUALITY GROUP

Delivery Docket

Brandown Waste and Recycling Pty
90 Range RD Cecil Park
NSW 2178
Phone: 0298261256

ABN: 97 659 847 300

Ticket No: 120047447-NCRD

Time In: 9/04/2024 3:37:34 PM
Time Out: 9/04/2024 3:37:34 PM

Vehicle Rego: JL0015

Client: FORD CIVIL CONTRACTING P/L

Order Number:
Job: Ford Civil JZ Q-05209 TIP FEE
Aldington Rd Kemps Crk WAN
2024/00862
Job Add:Aldington Road
Kemps Creek

Weighed Items			Price
ASBESTOS CONTAMINATED SOIL			
Each Items		**Qty**	**Price**
GROSS Weight:			17.70t
TARE Weight:			10.34t
NET Weight:			7.36t
TARE 1	1		10.34t
GROSS 2	1		17.70t
Each Item Weight:			0.00t
Unit Cost:			
Chargeable Fee:			
Each Items:			
GST :			
Total Price:			

Payments:

Driver:

Density:

M48YQ7VR: NSW INTRASTATE ASBESTOS

NSWNEPM.N220-Asbestos

Movement Status (23-Apr-2024 - 09:09): Submitted

KEY DETAILS

Pick Up Location	**ABN.24002542814 Ford Civil Contracting P/L 199 Aldington Road, Kemps Creek, NSW, 2178**	Drop Off Location	**ABN.30003830304 Brandown 90 Range, Cecil Park, NSW, 2178**
Drop Off Location Certificates	**NSW EPA Approved Asbestos Waste Receiving Facility (not found)**	NSW Material ID or Name	**NSWNEPM.N220-Asbestos**

ASBESTOS TRANSPORTER DETAILS

TRANSPORTER DETAILS

Who is the Transporter? (Required)	**ABN.24002542814 Ford Civil Contracting P/L**	Transporter Certificates	.....
Transporter Business Contact Name (Required)	**George Elhindi**	Transporter Business Mobile Number	**0414070720**
Transporter Business Contact Number	**0414070720**	Transporter Business Contact Email (Required)	**george.elhindi@fordcivil.com.au**
Nominated Driver Name	**Joseph Mandato**	Nominated Vehicle Registration Number	**JL0015**
Nominated Vehicle Type	**Tip Truck**		

ASBESTOS CONSIGNMENT DETAILS

ASBESTOS DETAILS (GENERAL)

Estimated Pick Up Date (Required)	**09-Apr-2024**	Estimated Drop Off Date (Required)	**09-Apr-2024**
Select if movement is related to an illegal dumping incident	☐	Additional Notes	.....
Creator Name	.....	Creator Reference	.....

ESTIMATED ASBESTOS WASTE DETAILS (MIN. ONE TYPE)

Friable Asbestos Contaminated Soil	**7.4 Tonnes**	Friable Sheeting Area (m2)	.....
Friable Mixed Asbestos Waste	.....	Friable Other	.....
Non-Friable Asbestos Contaminated Soil	.....	Non-Friable Sheeting Area (m2)	.....
Non-Friable Mixed Asbestos Waste	.....	Non-Friable Other	.....
Estimated Total Waste Weight	**7.4 Tonnes**		

PICK UP DETAILS

Pick Up Location Contact Name (Required)	**George Elhindi**	Pick Up Location Mobile Number	**0414070720**
Pick Up Location Contact Number	**0414070720**	Pick Up Location Contact Email (Required)	**george.elhindi@fordcivil.com.au**
Actual Generation Site Address	**199 Aldington Rd Kemps Creek**		

RECEIVING FACILITY

Receiver Business Contact Name	**Hi-Quality Group**	Receiver Business Mobile Number	**0298261666**
Receiver Business Contact Number	**0298261666**	Receiver Business Contact Email	.....

SUBMISSION

I declare that I have provided correct information to the best of my knowledge	☒

ASBESTOS PICK UP DETAILS

PICK UP ASBESTOS WASTE DETAILS (MIN. ONE TYPE)

Actual Pick Up Date (Required)	**09-Apr-2024**	Friable Asbestos Contaminated Soil	**7.4 Tonnes**
Friable Sheeting Area (m2)	.....	Friable Mixed Asbestos Waste	.....
Friable Other	.....	Non-Friable Asbestos Contaminated Soil	.....
Non-Friable Sheeting Area (m2)	.....	Non-Friable Mixed Asbestos Waste	.....
Non-Friable Other	.....	Total Pick Up Waste Weight	**7.4 Tonnes**

DRIVER DETAILS

Driver Name (Required)	**Joseph Mandato**	Registered Driver Mobile Number (Required)	**0411757277**
Vehicle Driver Licence (Required)	**4330AE**	Vehicle Driver Licence State (Required)	**NSW**

VEHICLE DETAILS

Vehicle Registration Number (Required)	**JL0015**	Vehicle Type	**Tip Truck**

SUBMISSION

I confirm that I have picked up the load of waste asbestos and the information I have provided on the load are correct to the best of my knowledge.	☒

ASBESTOS DROP OFF DETAILS

ASBESTOS DETAILS (GENERAL)

Actual Drop Off Date (Required)	**09-Apr-2024**	Actual Receiving Facility (Enter the actual receiving facility if this is different to nominated facility)	.....
Actual Receiver Business Contact Name	.....	Actual Receiver Business Contact Number	.....

(Enter the actual business contact name if the nominated facility changed)		(Enter the actual business contact number if the nominated facility changed)	
Actual Receiver Business Contact Email (Enter the actual business contact email if the nominated facility changed)	.....		

DROP OFF ASBESTOS WASTE DETAILS (MIN. ONE TYPE)

Friable Asbestos Contaminated Soil	**7.4 Tonnes**	Friable Sheeting Area (m2)	.....
Friable Mixed Asbestos Waste	.....	Friable Other	.....
Non-Friable Asbestos Contaminated Soil	.....	Non-Friable Sheeting Area (m2)	.....
Non-Friable Mixed Asbestos Waste	.....	Non-Friable Other	.....
Total Drop Off Waste Weight	**7.4 Tonnes**		

DROP OFF DETAILS

Docket Number	**120047447-NCRD**	Drop Off Notes	.....

CONFIRMATION

DECLARATION

I confirm that I have dropped off the load of asbestos waste in accordance with the movement record.

☒ I have read and agree with the declaration.

M864Y2QY: NSW INTRASTATE ASBESTOS

NSWNEPM.N220-Asbestos

Movement Status (23-Apr-2024 - 09:10): Submitted

KEY DETAILS

Pick Up Location	**ABN.24002542814 Ford Civil Contracting P/L 199 Aldington Road, Kemps Creek, NSW, 2178**	Drop Off Location	**ABN.30003830304 Brandown 90 Range, Cecil Park, NSW, 2178**
Drop Off Location Certificates	**NSW EPA Approved Asbestos Waste Receiving Facility (not found)**	NSW Material ID or Name	**NSWNEPM.N220-Asbestos**

ASBESTOS TRANSPORTER DETAILS

TRANSPORTER DETAILS

Who is the Transporter? (Required)	**ABN.24002542814 Ford Civil Contracting P/L**	Transporter Certificates	.....
Transporter Business Contact Name (Required)	**George Elhindi**	Transporter Business Mobile Number	**0414070720**
Transporter Business Contact Number	**0414070720**	Transporter Business Contact Email (Required)	**george.elhindi@fordcivil.com.au**
Nominated Driver Name	**Joseph Mandato**	Nominated Vehicle Registration Number	**JL0015**
Nominated Vehicle Type	**Tip Truck**		

ASBESTOS CONSIGNMENT DETAILS

ASBESTOS DETAILS (GENERAL)

Estimated Pick Up Date (Required)	**09-Apr-2024**	Estimated Drop Off Date (Required)	**09-Apr-2024**
Select if movement is related to an illegal dumping incident	☐	Additional Notes	.....
Creator Name	**George Elhindi**	Creator Reference	**199 Aldington Rd JBS&G**

ESTIMATED ASBESTOS WASTE DETAILS (MIN. ONE TYPE)

Friable Asbestos Contaminated Soil	**9.3 Tonnes**	Friable Sheeting Area (m2)	.....
Friable Mixed Asbestos Waste	.....	Friable Other	.....
Non-Friable Asbestos Contaminated Soil	.....	Non-Friable Sheeting Area (m2)	.....
Non-Friable Mixed Asbestos Waste	.....	Non-Friable Other	.....
Estimated Total Waste Weight	**9.3 Tonnes**		

PICK UP DETAILS

Pick Up Location Contact Name (Required)	**George Elhindi**	Pick Up Location Mobile Number	**0414070720**
Pick Up Location Contact Number	**0414070720**	Pick Up Location Contact Email (Required)	**george.elhindi@fordcivil.com.au**
Actual Generation Site Address	**199 Aldington Rd Kemps Creek**		

RECEIVING FACILITY

Receiver Business Contact Name	**Hi-Quality Group**	Receiver Business Mobile Number	**0298261666**
Receiver Business Contact Number	**0298261666**	Receiver Business Contact Email	.....

SUBMISSION

I declare that I have provided correct information to the best of my knowledge	☒

ASBESTOS PICK UP DETAILS

PICK UP ASBESTOS WASTE DETAILS (MIN. ONE TYPE)

Actual Pick Up Date (Required)	**09-Apr-2024**	Friable Asbestos Contaminated Soil	**9.3 Tonnes**
Friable Sheeting Area (m2)	.....	Friable Mixed Asbestos Waste	.....
Friable Other	.....	Non-Friable Asbestos Contaminated Soil	.....
Non-Friable Sheeting Area (m2)	.....	Non-Friable Mixed Asbestos Waste	.....
Non-Friable Other	.....	Total Pick Up Waste Weight	**9.3 Tonnes**

DRIVER DETAILS

Driver Name (Required)	**Joseph Mandato**	Registered Driver Mobile Number (Required)	**0411757277**
Vehicle Driver Licence (Required)	**4330AE**	Vehicle Driver Licence State (Required)	**NSW**

VEHICLE DETAILS

Vehicle Registration Number (Required)	**JL0015**	Vehicle Type	**Tip Truck**

SUBMISSION

I confirm that I have picked up the load of waste asbestos and the information I have provided on the load are correct to the best of my knowledge.	☒

ASBESTOS DROP OFF DETAILS

ASBESTOS DETAILS (GENERAL)

Actual Drop Off Date (Required)	**09-Apr-2024**	Actual Receiving Facility (Enter the actual receiving facility if this is different to nominated facility)	.....
Actual Receiver Business Contact Name	.....	Actual Receiver Business Contact Number	.....

(Enter the actual business contact name if the nominated facility changed)		(Enter the actual business contact number if the nominated facility changed)	
Actual Receiver Business Contact Email (Enter the actual business contact email if the nominated facility changed)	.....		

DROP OFF ASBESTOS WASTE DETAILS (MIN. ONE TYPE)

Friable Asbestos Contaminated Soil	**9.3 Tonnes**	Friable Sheeting Area (m2)	.....
Friable Mixed Asbestos Waste	.....	Friable Other	.....
Non-Friable Asbestos Contaminated Soil	.....	Non-Friable Sheeting Area (m2)	.....
Non-Friable Mixed Asbestos Waste	.....	Non-Friable Other	.....
Total Drop Off Waste Weight	**9.3 Tonnes**		

DROP OFF DETAILS

Docket Number	**120047380-NCRD**	Drop Off Notes	.....

CONFIRMATION

DECLARATION

I confirm that I have dropped off the load of asbestos waste in accordance with the movement record.

☒ I have read and agree with the declaration.

MAYQFAVR: NSW INTRASTATE ASBESTOS

NSWNEPM.N220-Asbestos

Movement Status (23-Apr-2024 - 09:12): Submitted

KEY DETAILS

Pick Up Location	**ABN.24002542814 Ford Civil Contracting P/L 199 Aldington Road, Kemps Creek, NSW, 2178**	Drop Off Location	**ABN.76115345769 Dial-A-Dump (EC) 1 Kangaroo Avenue, Eastern Creek, NSW, 2766**
Drop Off Location Certificates	**NSW EPA Approved Asbestos Waste Receiving Facility-WMF4073 (found)**	NSW Material ID or Name	**NSWNEPM.N220-Asbestos**

ASBESTOS TRANSPORTER DETAILS

TRANSPORTER DETAILS

Who is the Transporter? (Required)	**ABN.24002542814 Ford Civil Contracting P/L**	Transporter Certificates	.....
Transporter Business Contact Name (Required)	**George Elhindi**	Transporter Business Mobile Number	**0414070720**
Transporter Business Contact Number	**0414070720**	Transporter Business Contact Email (Required)	**george.elhindi@fordcivil.com.au**
Nominated Driver Name	**Nicholas Mavrogiannis**	Nominated Vehicle Registration Number	**XN19XN**
Nominated Vehicle Type	**Tip Truck**		

ASBESTOS CONSIGNMENT DETAILS

ASBESTOS DETAILS (GENERAL)

Estimated Pick Up Date (Required)	**03-Apr-2024**	Estimated Drop Off Date (Required)	**03-Apr-2024**
Select if movement is related to an illegal dumping incident	☐	Additional Notes	.....
Creator Name	**George Elhindi**	Creator Reference	**199 Aldington Rd JBS&G**

ESTIMATED ASBESTOS WASTE DETAILS (MIN. ONE TYPE)

Friable Asbestos Contaminated Soil	.....	Friable Sheeting Area (m2)	.....
Friable Mixed Asbestos Waste	.....	Friable Other	.....
Non-Friable Asbestos Contaminated Soil	.....	Non-Friable Sheeting Area (m2)	.....
Non-Friable Mixed Asbestos Waste	.....	Non-Friable Other	**2.9 Tonnes**
Estimated Total Waste Weight	**2.9 Tonnes**		

PICK UP DETAILS

Pick Up Location Contact Name (Required)	**George Elhindi**	Pick Up Location Mobile Number	**0414070720**
Pick Up Location Contact Number	**0414070720**	Pick Up Location Contact Email (Required)	**george.elhindi@fordcivil.com.au**
Actual Generation Site Address	**199 Aldington Rd Kemps Creek**		

RECEIVING FACILITY

Receiver Business Contact Name	**Bingo**	Receiver Business Mobile Number	**1300424645**
Receiver Business Contact Number	**1300424645**	Receiver Business Contact Email	.....

SUBMISSION

I declare that I have provided correct information to the best of my knowledge ☒

ASBESTOS PICK UP DETAILS

PICK UP ASBESTOS WASTE DETAILS (MIN. ONE TYPE)

Actual Pick Up Date (Required)	**03-Apr-2024**	Friable Asbestos Contaminated Soil	.....
Friable Sheeting Area (m2)	.....	Friable Mixed Asbestos Waste	.....
Friable Other	.....	Non-Friable Asbestos Contaminated Soil	.....
Non-Friable Sheeting Area (m2)	.....	Non-Friable Mixed Asbestos Waste	.....
Non-Friable Other	**2.9 Tonnes**	Total Pick Up Waste Weight	**2.9 Tonnes**

DRIVER DETAILS

Driver Name (Required)	**Nicholas Mavrogiannis**	Registered Driver Mobile Number (Required)	**0402109709**
Vehicle Driver Licence (Required)	**15333733**	Vehicle Driver Licence State (Required)	**NSW**

VEHICLE DETAILS

Vehicle Registration Number (Required)	**XN19XN**	Vehicle Type	**Tip Truck**

SUBMISSION

I confirm that I have picked up the load of waste asbestos and the information I have provided on the load are correct to the best of my knowledge. ☒

ASBESTOS DROP OFF DETAILS

ASBESTOS DETAILS (GENERAL)

Actual Drop Off Date (Required)	**03-Apr-2024**	Actual Receiving Facility (Enter the actual receiving facility if this is different to nominated facility)	.....
Actual Receiver Business Contact Name	.....	Actual Receiver Business Contact Number	.....

(Enter the actual business contact name if the nominated facility changed)		(Enter the actual business contact number if the nominated facility changed)	
Actual Receiver Business Contact Email (Enter the actual business contact email if the nominated facility changed)	.....		

DROP OFF ASBESTOS WASTE DETAILS (MIN. ONE TYPE)

Friable Asbestos Contaminated Soil	.....	Friable Sheeting Area (m2)	.....
Friable Mixed Asbestos Waste	.....	Friable Other	.....
Non-Friable Asbestos Contaminated Soil	.....	Non-Friable Sheeting Area (m2)	.....
Non-Friable Mixed Asbestos Waste	.....	Non-Friable Other	**2.9 Tonnes**
Total Drop Off Waste Weight	**2.9 Tonnes**		

DROP OFF DETAILS

Docket Number	**277941**	Drop Off Notes	.....

CONFIRMATION

DECLARATION

I confirm that I have dropped off the load of asbestos waste in accordance with the movement record.

☒ I have read and agree with the declaration.

MBCPZ629: NSW INTRASTATE ASBESTOS

NSWNEPM.N220-Asbestos

Movement Status (23-Apr-2024 - 09:12): Submitted

KEY DETAILS

Pick Up Location	**ABN.24002542814 Ford Civil Contracting P/L 199 Aldington Road, Kemps Creek, NSW, 2178**	Drop Off Location	**ABN.76115345769 Dial-A-Dump (EC) 1 Kangaroo Avenue, Eastern Creek, NSW, 2766**
Drop Off Location Certificates	**NSW EPA Approved Asbestos Waste Receiving Facility-WMF4073 (found)**	NSW Material ID or Name	**NSWNEPM.N220-Asbestos**

ASBESTOS TRANSPORTER DETAILS

TRANSPORTER DETAILS

Who is the Transporter? (Required)	**ABN.24002542814 Ford Civil Contracting P/L**	Transporter Certificates	.....
Transporter Business Contact Name (Required)	**George Elhindi**	Transporter Business Mobile Number	**0414070720**
Transporter Business Contact Number	**0414070720**	Transporter Business Contact Email (Required)	**george.elhindi@fordcivil.com.au**
Nominated Driver Name	**Nicholas Mavrogiannis**	Nominated Vehicle Registration Number	**XN19XN**
Nominated Vehicle Type	**Tip Truck**		

ASBESTOS CONSIGNMENT DETAILS

ASBESTOS DETAILS (GENERAL)

Estimated Pick Up Date (Required)	**03-Apr-2024**	Estimated Drop Off Date (Required)	**03-Apr-2024**
Select if movement is related to an illegal dumping incident	☐	Additional Notes	.....
Creator Name	**George Elhindi**	Creator Reference	**199 Aldington Rd JBS&G**

ESTIMATED ASBESTOS WASTE DETAILS (MIN. ONE TYPE)

Friable Asbestos Contaminated Soil	.....	Friable Sheeting Area (m2)	.....
Friable Mixed Asbestos Waste	.....	Friable Other	.....
Non-Friable Asbestos Contaminated Soil	.....	Non-Friable Sheeting Area (m2)	.....
Non-Friable Mixed Asbestos Waste	.....	Non-Friable Other	**4.7 Tonnes**
Estimated Total Waste Weight	**4.7 Tonnes**		

PICK UP DETAILS

Pick Up Location Contact Name (Required)	**George Elhindi**	Pick Up Location Mobile Number	**0414070720**
Pick Up Location Contact Number	**0414070720**	Pick Up Location Contact Email (Required)	**george.elhindi@fordcivil.com.au**
Actual Generation Site Address	**199 Aldington Rd Kemps Creek**		

RECEIVING FACILITY

Receiver Business Contact Name	**Bingo**	Receiver Business Mobile Number	**1300424645**
Receiver Business Contact Number	**1300424645**	Receiver Business Contact Email	.....

SUBMISSION

I declare that I have provided correct information to the best of my knowledge	☒

ASBESTOS PICK UP DETAILS

PICK UP ASBESTOS WASTE DETAILS (MIN. ONE TYPE)

Actual Pick Up Date (Required)	**03-Apr-2024**	Friable Asbestos Contaminated Soil	.....
Friable Sheeting Area (m2)	.....	Friable Mixed Asbestos Waste	.....
Friable Other	.....	Non-Friable Asbestos Contaminated Soil	.....
Non-Friable Sheeting Area (m2)	.....	Non-Friable Mixed Asbestos Waste	.....
Non-Friable Other	**4.7 Tonnes**	Total Pick Up Waste Weight	**4.7 Tonnes**

DRIVER DETAILS

Driver Name (Required)	**Nicholas Mavrogiannis**	Registered Driver Mobile Number (Required)	**0402109709**
Vehicle Driver Licence (Required)	**15333733**	Vehicle Driver Licence State (Required)	**NSW**

VEHICLE DETAILS

Vehicle Registration Number (Required)	**XN19XN**	Vehicle Type	**Tip Truck**

SUBMISSION

I confirm that I have picked up the load of waste asbestos and the information I have provided on the load are correct to the best of my knowledge.	☒

ASBESTOS DROP OFF DETAILS

ASBESTOS DETAILS (GENERAL)

Actual Drop Off Date (Required)	**03-Apr-2024**	Actual Receiving Facility (Enter the actual receiving facility if this is different to nominated facility)	.....
Actual Receiver Business Contact Name	.....	Actual Receiver Business Contact Number	.....

(Enter the actual business contact name if the nominated facility changed)		(Enter the actual business contact number if the nominated facility changed)	
Actual Receiver Business Contact Email (Enter the actual business contact email if the nominated facility changed)	.....		

DROP OFF ASBESTOS WASTE DETAILS (MIN. ONE TYPE)

Friable Asbestos Contaminated Soil	.....	Friable Sheeting Area (m2)	.....
Friable Mixed Asbestos Waste	.....	Friable Other	.....
Non-Friable Asbestos Contaminated Soil	.....	Non-Friable Sheeting Area (m2)	.....
Non-Friable Mixed Asbestos Waste	.....	Non-Friable Other	**4.7 Tonnes**
Total Drop Off Waste Weight	**4.7 Tonnes**		

DROP OFF DETAILS

Docket Number	**278262**	Drop Off Notes	.....

CONFIRMATION

DECLARATION

I confirm that I have dropped off the load of asbestos waste in accordance with the movement record.

☒ I have read and agree with the declaration.

MDJMSHLY: NSW INTRASTATE ASBESTOS

NSWNEPM.N220-Asbestos

Movement Status (23-Apr-2024 - 09:12): Submitted

KEY DETAILS

Pick Up Location	**ABN.24002542814 Ford Civil Contracting P/L 199 Aldington Road, Kemps Creek, NSW, 2178**	Drop Off Location	**ABN.30003830304 Brandown 90 Range, Cecil Park, NSW, 2178**
Drop Off Location Certificates	**NSW EPA Approved Asbestos Waste Receiving Facility (not found)**	NSW Material ID or Name	**NSWNEPM.N220-Asbestos**

ASBESTOS TRANSPORTER DETAILS

TRANSPORTER DETAILS

Who is the Transporter? (Required)	**ABN.24002542814 Ford Civil Contracting P/L**	Transporter Certificates	.....
Transporter Business Contact Name (Required)	**George Elhindi**	Transporter Business Mobile Number	**0414070720**
Transporter Business Contact Number	**0414070720**	Transporter Business Contact Email (Required)	**george.elhindi@fordcivil.com.au**
Nominated Driver Name	**Joseph Mandato**	Nominated Vehicle Registration Number	**JL0015**
Nominated Vehicle Type	**Tip Truck**		

ASBESTOS CONSIGNMENT DETAILS

ASBESTOS DETAILS (GENERAL)

Estimated Pick Up Date (Required)	**09-Apr-2024**	Estimated Drop Off Date (Required)	**09-Apr-2024**
Select if movement is related to an illegal dumping incident	☐	Additional Notes	.....
Creator Name	**George Elhindi**	Creator Reference	**199 Aldington Rd JBS&G**

ESTIMATED ASBESTOS WASTE DETAILS (MIN. ONE TYPE)

Friable Asbestos Contaminated Soil	**10.3 Tonnes**	Friable Sheeting Area (m2)	.....
Friable Mixed Asbestos Waste	.....	Friable Other	.....
Non-Friable Asbestos Contaminated Soil	.....	Non-Friable Sheeting Area (m2)	.....
Non-Friable Mixed Asbestos Waste	.....	Non-Friable Other	.....
Estimated Total Waste Weight	**10.3 Tonnes**		

PICK UP DETAILS

Pick Up Location Contact Name (Required)	**George Elhindi**	Pick Up Location Mobile Number	**0414070720**
Pick Up Location Contact Number	**0414070720**	Pick Up Location Contact Email (Required)	**george.elhindi@fordcivil.com.au**
Actual Generation Site Address	**199 Aldington Rd Kemps Creek**		

RECEIVING FACILITY

Receiver Business Contact Name	**Hi-Quality Group**	Receiver Business Mobile Number	**0298261666**
Receiver Business Contact Number	**0298261666**	Receiver Business Contact Email	.....

SUBMISSION

I declare that I have provided correct information to the best of my knowledge	☒

ASBESTOS PICK UP DETAILS

PICK UP ASBESTOS WASTE DETAILS (MIN. ONE TYPE)

Actual Pick Up Date (Required)	**09-Apr-2024**	Friable Asbestos Contaminated Soil	**10.3 Tonnes**
Friable Sheeting Area (m2)	.....	Friable Mixed Asbestos Waste	.....
Friable Other	.....	Non-Friable Asbestos Contaminated Soil	.....
Non-Friable Sheeting Area (m2)	.....	Non-Friable Mixed Asbestos Waste	.....
Non-Friable Other	.....	Total Pick Up Waste Weight	**10.3 Tonnes**

DRIVER DETAILS

Driver Name (Required)	**Joseph Mandato**	Registered Driver Mobile Number (Required)	**0411757277**
Vehicle Driver Licence (Required)	**4330AE**	Vehicle Driver Licence State (Required)	**NSW**

VEHICLE DETAILS

Vehicle Registration Number (Required)	**JL0015**	Vehicle Type	**Tip Truck**

SUBMISSION

I confirm that I have picked up the load of waste asbestos and the information I have provided on the load are correct to the best of my knowledge.	☒

ASBESTOS DROP OFF DETAILS

ASBESTOS DETAILS (GENERAL)

Actual Drop Off Date (Required)	**09-Apr-2024**	Actual Receiving Facility (Enter the actual receiving facility if this is different to nominated facility)	.....
Actual Receiver Business Contact Name	.....	Actual Receiver Business Contact Number	.....

(Enter the actual business contact name if the nominated facility changed)		(Enter the actual business contact number if the nominated facility changed)	
Actual Receiver Business Contact Email (Enter the actual business contact email if the nominated facility changed)	.....		

DROP OFF ASBESTOS WASTE DETAILS (MIN. ONE TYPE)

Friable Asbestos Contaminated Soil	**10.3 Tonnes**	Friable Sheeting Area (m2)	.....
Friable Mixed Asbestos Waste	.....	Friable Other	.....
Non-Friable Asbestos Contaminated Soil	.....	Non-Friable Sheeting Area (m2)	.....
Non-Friable Mixed Asbestos Waste	.....	Non-Friable Other	.....
Total Drop Off Waste Weight	**10.3 Tonnes**		

DROP OFF DETAILS

Docket Number	**120047299-NCRD**	Drop Off Notes	.....

CONFIRMATION

DECLARATION

I confirm that I have dropped off the load of asbestos waste in accordance with the movement record.

☒ I have read and agree with the declaration.

MGH6GDZ6: NSW INTRASTATE ASBESTOS

NSWNEPM.N220-Asbestos

Movement Status (23-Apr-2024 - 09:14): Submitted

KEY DETAILS

Pick Up Location	**ABN.24002542814 Ford Civil Contracting P/L 199 Aldington Road, Kemps Creek, NSW, 2178**	Drop Off Location	**ABN.76115345769 Dial-A-Dump (EC) 1 Kangaroo Avenue, Eastern Creek, NSW, 2766**
Drop Off Location Certificates	**NSW EPA Approved Asbestos Waste Receiving Facility-WMF4073 (found)**	NSW Material ID or Name	**NSWNEPM.N220-Asbestos**

ASBESTOS TRANSPORTER DETAILS

TRANSPORTER DETAILS

Who is the Transporter? (Required)	**ABN.24002542814 Ford Civil Contracting P/L**	Transporter Certificates	.....
Transporter Business Contact Name (Required)	**Ben Ryan**	Transporter Business Mobile Number	**0404047165**
Transporter Business Contact Number	**95974122**	Transporter Business Contact Email (Required)	**ben.ryan@fordcivil.com.au**
Nominated Driver Name	**James Dwyer**	Nominated Vehicle Registration Number	**CI85HB**
Nominated Vehicle Type	**Tip Truck**		

ASBESTOS CONSIGNMENT DETAILS

ASBESTOS DETAILS (GENERAL)

Estimated Pick Up Date (Required)	**26-Mar-2024**	Estimated Drop Off Date (Required)	**26-Mar-2024**
Select if movement is related to an illegal dumping incident	☐	Additional Notes	.....
Creator Name	**Ben Ryan**	Creator Reference	**199 Aldington Rd JBS&G**

ESTIMATED ASBESTOS WASTE DETAILS (MIN. ONE TYPE)

Friable Asbestos Contaminated Soil	.....	Friable Sheeting Area (m2)	.....
Friable Mixed Asbestos Waste	.....	Friable Other	.....
Non-Friable Asbestos Contaminated Soil	.....	Non-Friable Sheeting Area (m2)	.....
Non-Friable Mixed Asbestos Waste	**4640 Kilograms**	Non-Friable Other	.....
Estimated Total Waste Weight	**4640 Kilograms**		

PICK UP DETAILS

Pick Up Location Contact Name (Required)	**George Elhindi**	Pick Up Location Mobile Number	**0414070720**
Pick Up Location Contact Number	**0414070720**	Pick Up Location Contact Email (Required)	**George.Elhindi@fordcivil.com.au**
Actual Generation Site Address	**199 Aldington Rd Kemps Creek**		

RECEIVING FACILITY

Receiver Business Contact Name	**Bingo**	Receiver Business Mobile Number	**1300424645**
Receiver Business Contact Number	**1300424645**	Receiver Business Contact Email	.....

SUBMISSION

I declare that I have provided correct information to the best of my knowledge	☒

ASBESTOS PICK UP DETAILS

PICK UP ASBESTOS WASTE DETAILS (MIN. ONE TYPE)

Actual Pick Up Date (Required)	**26-Mar-2024**	Friable Asbestos Contaminated Soil	.....
Friable Sheeting Area (m2)	.....	Friable Mixed Asbestos Waste	.....
Friable Other	.....	Non-Friable Asbestos Contaminated Soil	**2000 Kilograms**
Non-Friable Sheeting Area (m2)	.....	Non-Friable Mixed Asbestos Waste	.....
Non-Friable Other	.....	Total Pick Up Waste Weight	**2000 Kilograms**

DRIVER DETAILS

Driver Name (Required)	**James Dwyer**	Registered Driver Mobile Number (Required)	**0413082719**
Vehicle Driver Licence (Required)	**1898US**	Vehicle Driver Licence State (Required)	**NSW**

VEHICLE DETAILS

Vehicle Registration Number (Required)	**CI85HB**	Vehicle Type	**Tip Truck**

SUBMISSION

I confirm that I have picked up the load of waste asbestos and the information I have provided on the load are correct to the best of my knowledge.	☒

ASBESTOS DROP OFF DETAILS

ASBESTOS DETAILS (GENERAL)

Actual Drop Off Date (Required)	**26-Mar-2024**	Actual Receiving Facility (Enter the actual receiving facility if this is different to nominated facility)	.....
Actual Receiver Business Contact Name	.....	Actual Receiver Business Contact Number	.....

(Enter the actual business contact name if the nominated facility changed)		(Enter the actual business contact number if the nominated facility changed)	
Actual Receiver Business Contact Email (Enter the actual business contact email if the nominated facility changed)	.....		

DROP OFF ASBESTOS WASTE DETAILS (MIN. ONE TYPE)

Friable Asbestos Contaminated Soil	.....	Friable Sheeting Area (m2)	.....
Friable Mixed Asbestos Waste	.....	Friable Other	.....
Non-Friable Asbestos Contaminated Soil	.....	Non-Friable Sheeting Area (m2)	.....
Non-Friable Mixed Asbestos Waste	**4640 Kilograms**	Non-Friable Other	.....
Total Drop Off Waste Weight	**4640 Kilograms**		

DROP OFF DETAILS

Docket Number	**268952**	Drop Off Notes	.....

CONFIRMATION

DECLARATION

I confirm that I have dropped off the load of asbestos waste in accordance with the movement record.

☒ I have read and agree with the declaration.

MH8Q5KKT: NSW INTRASTATE ASBESTOS

NSWNEPM.N220-Asbestos

Movement Status (23-Apr-2024 - 09:11): Submitted

KEY DETAILS

Pick Up Location	**ABN.24002542814 Ford Civil Contracting P/L 199 Aldington Road, Kemps Creek, NSW, 2178**	Drop Off Location	**ABN.30003830304 Brandown 90 Range, Cecil Park, NSW, 2178**
Drop Off Location Certificates	**NSW EPA Approved Asbestos Waste Receiving Facility (not found)**	NSW Material ID or Name	**NSWNEPM.N220-Asbestos**

ASBESTOS TRANSPORTER DETAILS

TRANSPORTER DETAILS

Who is the Transporter? (Required)	**ABN.24002542814 Ford Civil Contracting P/L**	Transporter Certificates	.....
Transporter Business Contact Name (Required)	**George Elhindi**	Transporter Business Mobile Number	**0414070720**
Transporter Business Contact Number	**0414070720**	Transporter Business Contact Email (Required)	**george.elhindi@fordcivil.com.au**
Nominated Driver Name	**Joseph Mandato**	Nominated Vehicle Registration Number	**JL0015**
Nominated Vehicle Type	**Tip Truck**		

ASBESTOS CONSIGNMENT DETAILS

ASBESTOS DETAILS (GENERAL)

Estimated Pick Up Date (Required)	**09-Apr-2024**	Estimated Drop Off Date (Required)	**09-Apr-2024**
Select if movement is related to an illegal dumping incident	☐	Additional Notes	.....
Creator Name	**George Elhindi**	Creator Reference	**199 Aldington Rd JBS&G**

ESTIMATED ASBESTOS WASTE DETAILS (MIN. ONE TYPE)

Friable Asbestos Contaminated Soil	**9 Tonnes**	Friable Sheeting Area (m2)	.....
Friable Mixed Asbestos Waste	.....	Friable Other	.....
Non-Friable Asbestos Contaminated Soil	.....	Non-Friable Sheeting Area (m2)	.....
Non-Friable Mixed Asbestos Waste	.....	Non-Friable Other	.....
Estimated Total Waste Weight	**9 Tonnes**		

PICK UP DETAILS

Pick Up Location Contact Name (Required)	**George Elhindi**	Pick Up Location Mobile Number	**0414070720**
Pick Up Location Contact Number	**0414070720**	Pick Up Location Contact Email (Required)	**george.elhindi@fordcivil.com.au**
Actual Generation Site Address	**199 Aldington Rd Kemps Creek**		

RECEIVING FACILITY

Receiver Business Contact Name	**Hi-Quality Group**	Receiver Business Mobile Number	**0298261666**
Receiver Business Contact Number	**0298261666**	Receiver Business Contact Email	.....

SUBMISSION

I declare that I have provided correct information to the best of my knowledge	☒

ASBESTOS PICK UP DETAILS

PICK UP ASBESTOS WASTE DETAILS (MIN. ONE TYPE)

Actual Pick Up Date (Required)	**09-Apr-2024**	Friable Asbestos Contaminated Soil	**9 Tonnes**
Friable Sheeting Area (m2)	.....	Friable Mixed Asbestos Waste	.....
Friable Other	.....	Non-Friable Asbestos Contaminated Soil	.....
Non-Friable Sheeting Area (m2)	.....	Non-Friable Mixed Asbestos Waste	.....
Non-Friable Other	.....	Total Pick Up Waste Weight	**9 Tonnes**

DRIVER DETAILS

Driver Name (Required)	**Joseph Mandato**	Registered Driver Mobile Number (Required)	**0411757277**
Vehicle Driver Licence (Required)	**4330AE**	Vehicle Driver Licence State (Required)	**NSW**

VEHICLE DETAILS

Vehicle Registration Number (Required)	**JL0015**	Vehicle Type	**Tip Truck**

SUBMISSION

I confirm that I have picked up the load of waste asbestos and the information I have provided on the load are correct to the best of my knowledge.	☒

ASBESTOS DROP OFF DETAILS

ASBESTOS DETAILS (GENERAL)

Actual Drop Off Date (Required)	**09-Apr-2024**	Actual Receiving Facility (Enter the actual receiving facility if this is different to nominated facility)	.....
Actual Receiver Business Contact Name	.....	Actual Receiver Business Contact Number	.....

(Enter the actual business contact name if the nominated facility changed)		(Enter the actual business contact number if the nominated facility changed)	
Actual Receiver Business Contact Email (Enter the actual business contact email if the nominated facility changed)	.....		

DROP OFF ASBESTOS WASTE DETAILS (MIN. ONE TYPE)

Friable Asbestos Contaminated Soil	**9 Tonnes**	Friable Sheeting Area (m2)	.....
Friable Mixed Asbestos Waste	.....	Friable Other	.....
Non-Friable Asbestos Contaminated Soil	.....	Non-Friable Sheeting Area (m2)	.....
Non-Friable Mixed Asbestos Waste	.....	Non-Friable Other	.....
Total Drop Off Waste Weight	**9 Tonnes**		

DROP OFF DETAILS

Docket Number	**120047353-NCRD**	Drop Off Notes	.....

CONFIRMATION

DECLARATION

I confirm that I have dropped off the load of asbestos waste in accordance with the movement record.

☒ I have read and agree with the declaration.

MJ3ZA4LU: NSW INTRASTATE ASBESTOS

NSWNEPM.N220-Asbestos

Movement Status (23-Apr-2024 - 09:10): Submitted

KEY DETAILS

Pick Up Location	**ABN.24002542814 Ford Civil Contracting P/L 199 Aldington Road, Kemps Creek, NSW, 2178**	Drop Off Location	**ABN.30003830304 Brandown 90 Range, Cecil Park, NSW, 2178**
Drop Off Location Certificates	**NSW EPA Approved Asbestos Waste Receiving Facility (not found)**	NSW Material ID or Name	**NSWNEPM.N220-Asbestos**

ASBESTOS TRANSPORTER DETAILS

TRANSPORTER DETAILS

Who is the Transporter? (Required)	**ABN.24002542814 Ford Civil Contracting P/L**	Transporter Certificates	.....
Transporter Business Contact Name (Required)	**George Elhindi**	Transporter Business Mobile Number	**0414070720**
Transporter Business Contact Number	**0414070720**	Transporter Business Contact Email (Required)	**george.elhindi@fordcivil.com.au**
Nominated Driver Name	**Joseph Mandato**	Nominated Vehicle Registration Number	**JL0015**
Nominated Vehicle Type	**Tip Truck**		

ASBESTOS CONSIGNMENT DETAILS

ASBESTOS DETAILS (GENERAL)

Estimated Pick Up Date (Required)	**09-Apr-2024**	Estimated Drop Off Date (Required)	**09-Apr-2024**
Select if movement is related to an illegal dumping incident	☐	Additional Notes	.....
Creator Name	**George Elhindi**	Creator Reference	**199 Aldington Rd JBS&G**

ESTIMATED ASBESTOS WASTE DETAILS (MIN. ONE TYPE)

Friable Asbestos Contaminated Soil	**8.3 Tonnes**	Friable Sheeting Area (m2)	.....
Friable Mixed Asbestos Waste	.....	Friable Other	.....
Non-Friable Asbestos Contaminated Soil	.....	Non-Friable Sheeting Area (m2)	.....
Non-Friable Mixed Asbestos Waste	.....	Non-Friable Other	.....
Estimated Total Waste Weight	**8.3 Tonnes**		

PICK UP DETAILS

Pick Up Location Contact Name (Required)	**George Elhindi**	Pick Up Location Mobile Number	**0414070720**
Pick Up Location Contact Number	**0414070720**	Pick Up Location Contact Email (Required)	**george.elhindi@fordcivil.com.au**
Actual Generation Site Address	**199 Aldington Rd Kemps Creek**		

RECEIVING FACILITY

Receiver Business Contact Name	**Hi-Quality Group**	Receiver Business Mobile Number	**0298261666**
Receiver Business Contact Number	**0298261666**	Receiver Business Contact Email	.....

SUBMISSION

I declare that I have provided correct information to the best of my knowledge	☒

ASBESTOS PICK UP DETAILS

PICK UP ASBESTOS WASTE DETAILS (MIN. ONE TYPE)

Actual Pick Up Date (Required)	**09-Apr-2024**	Friable Asbestos Contaminated Soil	**8.3 Tonnes**
Friable Sheeting Area (m2)	.....	Friable Mixed Asbestos Waste	.....
Friable Other	.....	Non-Friable Asbestos Contaminated Soil	.....
Non-Friable Sheeting Area (m2)	.....	Non-Friable Mixed Asbestos Waste	.....
Non-Friable Other	.....	Total Pick Up Waste Weight	**8.3 Tonnes**

DRIVER DETAILS

Driver Name (Required)	**Joseph Mandato**	Registered Driver Mobile Number (Required)	**0411757277**
Vehicle Driver Licence (Required)	**4330AE**	Vehicle Driver Licence State (Required)	**NSW**

VEHICLE DETAILS

Vehicle Registration Number (Required)	**JL0015**	Vehicle Type	**Tip Truck**

SUBMISSION

I confirm that I have picked up the load of waste asbestos and the information I have provided on the load are correct to the best of my knowledge.	☒

ASBESTOS DROP OFF DETAILS

ASBESTOS DETAILS (GENERAL)

Actual Drop Off Date (Required)	**09-Apr-2024**	Actual Receiving Facility (Enter the actual receiving facility if this is different to nominated facility)	.....
Actual Receiver Business Contact Name	.....	Actual Receiver Business Contact Number	.....

(Enter the actual business contact name if the nominated facility changed)		(Enter the actual business contact number if the nominated facility changed)	
Actual Receiver Business Contact Email (Enter the actual business contact email if the nominated facility changed)	.....		

DROP OFF ASBESTOS WASTE DETAILS (MIN. ONE TYPE)

Friable Asbestos Contaminated Soil	**8.3 Tonnes**	Friable Sheeting Area (m2)	.....
Friable Mixed Asbestos Waste	.....	Friable Other	.....
Non-Friable Asbestos Contaminated Soil	.....	Non-Friable Sheeting Area (m2)	.....
Non-Friable Mixed Asbestos Waste	.....	Non-Friable Other	.....
Total Drop Off Waste Weight	**8.3 Tonnes**		

DROP OFF DETAILS

Docket Number	**120047426-NCRD**	Drop Off Notes	.....

CONFIRMATION

DECLARATION

I confirm that I have dropped off the load of asbestos waste in accordance with the movement record.

☒ I have read and agree with the declaration.

MJ876BEQ: NSW INTRASTATE ASBESTOS

NSWNEPM.N220-Asbestos

Movement Status (23-Apr-2024 - 09:11): Submitted

KEY DETAILS

Pick Up Location	**ABN.24002542814 Ford Civil Contracting P/L 199 Aldington Road, Kemps Creek, NSW, 2178**	Drop Off Location	**ABN.30003830304 Brandown 90 Range, Cecil Park, NSW, 2178**
Drop Off Location Certificates	**NSW EPA Approved Asbestos Waste Receiving Facility (not found)**	NSW Material ID or Name	**NSWNEPM.N220-Asbestos**

ASBESTOS TRANSPORTER DETAILS

TRANSPORTER DETAILS

Who is the Transporter? (Required)	**ABN.24002542814 Ford Civil Contracting P/L**	Transporter Certificates	.....
Transporter Business Contact Name (Required)	**George Elhindi**	Transporter Business Mobile Number	**0414070720**
Transporter Business Contact Number	**0414070720**	Transporter Business Contact Email (Required)	**george.elhindi@fordcivil.com.au**
Nominated Driver Name	**Joseph Mandato**	Nominated Vehicle Registration Number	**JL0015**
Nominated Vehicle Type	**Tip Truck**		

ASBESTOS CONSIGNMENT DETAILS

ASBESTOS DETAILS (GENERAL)

Estimated Pick Up Date (Required)	**09-Apr-2024**	Estimated Drop Off Date (Required)	**09-Apr-2024**
Select if movement is related to an illegal dumping incident	☐	Additional Notes	.....
Creator Name	**George Elhindi**	Creator Reference	**199 Aldington Rd JBS&G**

ESTIMATED ASBESTOS WASTE DETAILS (MIN. ONE TYPE)

Friable Asbestos Contaminated Soil	**11.4 Tonnes**	Friable Sheeting Area (m2)	.....
Friable Mixed Asbestos Waste	.....	Friable Other	.....
Non-Friable Asbestos Contaminated Soil	.....	Non-Friable Sheeting Area (m2)	.....
Non-Friable Mixed Asbestos Waste	.....	Non-Friable Other	.....
Estimated Total Waste Weight	**11.4 Tonnes**		

PICK UP DETAILS

Pick Up Location Contact Name (Required)	**George Elhindi**	Pick Up Location Mobile Number	**0414070720**
Pick Up Location Contact Number	**0414070720**	Pick Up Location Contact Email (Required)	**george.elhindi@fordcivil.com.au**
Actual Generation Site Address	**199 Aldington Rd Kemps Creek**		

RECEIVING FACILITY

Receiver Business Contact Name	**Hi-Quality Group**	Receiver Business Mobile Number	**0298261666**
Receiver Business Contact Number	**0298261666**	Receiver Business Contact Email	.....

SUBMISSION

I declare that I have provided correct information to the best of my knowledge	☒

ASBESTOS PICK UP DETAILS

PICK UP ASBESTOS WASTE DETAILS (MIN. ONE TYPE)

Actual Pick Up Date (Required)	**09-Apr-2024**	Friable Asbestos Contaminated Soil	**11.4 Tonnes**
Friable Sheeting Area (m2)	.....	Friable Mixed Asbestos Waste	.....
Friable Other	.....	Non-Friable Asbestos Contaminated Soil	.....
Non-Friable Sheeting Area (m2)	.....	Non-Friable Mixed Asbestos Waste	.....
Non-Friable Other	.....	Total Pick Up Waste Weight	**11.4 Tonnes**

DRIVER DETAILS

Driver Name (Required)	**Joseph Mandato**	Registered Driver Mobile Number (Required)	**0411757277**
Vehicle Driver Licence (Required)	**4330AE**	Vehicle Driver Licence State (Required)	**NSW**

VEHICLE DETAILS

Vehicle Registration Number (Required)	**JL0015**	Vehicle Type	**Tip Truck**

SUBMISSION

I confirm that I have picked up the load of waste asbestos and the information I have provided on the load are correct to the best of my knowledge.	☒

ASBESTOS DROP OFF DETAILS

ASBESTOS DETAILS (GENERAL)

Actual Drop Off Date (Required)	**09-Apr-2024**	Actual Receiving Facility (Enter the actual receiving facility if this is different to nominated facility)	.....
Actual Receiver Business Contact Name	.....	Actual Receiver Business Contact Number	.....

(Enter the actual business contact name if the nominated facility changed)		(Enter the actual business contact number if the nominated facility changed)	
Actual Receiver Business Contact Email (Enter the actual business contact email if the nominated facility changed)	.....		

DROP OFF ASBESTOS WASTE DETAILS (MIN. ONE TYPE)

Friable Asbestos Contaminated Soil	**11.4 Tonnes**	Friable Sheeting Area (m2)	.....
Friable Mixed Asbestos Waste	.....	Friable Other	.....
Non-Friable Asbestos Contaminated Soil	.....	Non-Friable Sheeting Area (m2)	.....
Non-Friable Mixed Asbestos Waste	.....	Non-Friable Other	.....
Total Drop Off Waste Weight	**11.4 Tonnes**		

DROP OFF DETAILS

Docket Number	**120047333-NCRD**	Drop Off Notes	.....

CONFIRMATION

DECLARATION

I confirm that I have dropped off the load of asbestos waste in accordance with the movement record.

☒ I have read and agree with the declaration.

MM552LCY: NSW INTRASTATE ASBESTOS

NSWNEPM.N220-Asbestos

Movement Status (23-Apr-2024 - 09:13): Submitted

KEY DETAILS

Pick Up Location	**ABN.24002542814 Ford Civil Contracting P/L 199 Aldington Road, Kemps Creek, NSW, 2178**	Drop Off Location	**ABN.76115345769 Dial-A-Dump (EC) 1 Kangaroo Avenue, Eastern Creek, NSW, 2766**
Drop Off Location Certificates	**NSW EPA Approved Asbestos Waste Receiving Facility-WMF4073 (found)**	NSW Material ID or Name	**NSWNEPM.N220-Asbestos**

ASBESTOS TRANSPORTER DETAILS

TRANSPORTER DETAILS

Who is the Transporter? (Required)	**ABN.24002542814 Ford Civil Contracting P/L**	Transporter Certificates	.....
Transporter Business Contact Name (Required)	**George Elhindi**	Transporter Business Mobile Number	**0414070720**
Transporter Business Contact Number	**0414070720**	Transporter Business Contact Email (Required)	**george.elhindi@fordcivil.com.au**
Nominated Driver Name	**Nicholas Mavrogiannis**	Nominated Vehicle Registration Number	**XN19XN**
Nominated Vehicle Type	**Tip Truck**		

ASBESTOS CONSIGNMENT DETAILS

ASBESTOS DETAILS (GENERAL)

Estimated Pick Up Date (Required)	**03-Apr-2024**	Estimated Drop Off Date (Required)	**03-Apr-2024**
Select if movement is related to an illegal dumping incident	☐	Additional Notes	.....
Creator Name	**George Elhindi**	Creator Reference	**199 Aldington Rd JBS&G**

ESTIMATED ASBESTOS WASTE DETAILS (MIN. ONE TYPE)

Friable Asbestos Contaminated Soil	.....	Friable Sheeting Area (m2)	.....
Friable Mixed Asbestos Waste	.....	Friable Other	.....
Non-Friable Asbestos Contaminated Soil	.....	Non-Friable Sheeting Area (m2)	.....
Non-Friable Mixed Asbestos Waste	.....	Non-Friable Other	**2.7 Tonnes**
Estimated Total Waste Weight	**2.7 Tonnes**		

PICK UP DETAILS

Pick Up Location Contact Name (Required)	**George Elhindi**	Pick Up Location Mobile Number	**0414070720**
Pick Up Location Contact Number	**0414070720**	Pick Up Location Contact Email (Required)	**george.elhindi@fordcivil.com.au**
Actual Generation Site Address	**199 Aldington Rd Kemps Creek**		

RECEIVING FACILITY

Receiver Business Contact Name	**Bingo**	Receiver Business Mobile Number	**1300424645**
Receiver Business Contact Number	**1300424645**	Receiver Business Contact Email	.....

SUBMISSION

I declare that I have provided correct information to the best of my knowledge	☒

ASBESTOS PICK UP DETAILS

PICK UP ASBESTOS WASTE DETAILS (MIN. ONE TYPE)

Actual Pick Up Date (Required)	**03-Apr-2024**	Friable Asbestos Contaminated Soil	.....
Friable Sheeting Area (m2)	.....	Friable Mixed Asbestos Waste	.....
Friable Other	.....	Non-Friable Asbestos Contaminated Soil	.....
Non-Friable Sheeting Area (m2)	.....	Non-Friable Mixed Asbestos Waste	.....
Non-Friable Other	**2.7 Tonnes**	Total Pick Up Waste Weight	**2.7 Tonnes**

DRIVER DETAILS

Driver Name (Required)	**Nicholas Mavrogiannis**	Registered Driver Mobile Number (Required)	**0402109709**
Vehicle Driver Licence (Required)	**15333733**	Vehicle Driver Licence State (Required)	**NSW**

VEHICLE DETAILS

Vehicle Registration Number (Required)	**XN19XN**	Vehicle Type	**Tip Truck**

SUBMISSION

I confirm that I have picked up the load of waste asbestos and the information I have provided on the load are correct to the best of my knowledge.	☒

ASBESTOS DROP OFF DETAILS

ASBESTOS DETAILS (GENERAL)

Actual Drop Off Date (Required)	**03-Apr-2024**	Actual Receiving Facility (Enter the actual receiving facility if this is different to nominated facility)	.....
Actual Receiver Business Contact Name	.....	Actual Receiver Business Contact Number	.....

(Enter the actual business contact name if the nominated facility changed)		(Enter the actual business contact number if the nominated facility changed)	
Actual Receiver Business Contact Email (Enter the actual business contact email if the nominated facility changed)	.....		

DROP OFF ASBESTOS WASTE DETAILS (MIN. ONE TYPE)

Friable Asbestos Contaminated Soil	.....	Friable Sheeting Area (m2)	.....
Friable Mixed Asbestos Waste	.....	Friable Other	.....
Non-Friable Asbestos Contaminated Soil	.....	Non-Friable Sheeting Area (m2)	.....
Non-Friable Mixed Asbestos Waste	.....	Non-Friable Other	**2.7 Tonnes**
Total Drop Off Waste Weight	**2.7 Tonnes**		

DROP OFF DETAILS

Docket Number	**277616**	Drop Off Notes	.....

CONFIRMATION

DECLARATION

I confirm that I have dropped off the load of asbestos waste in accordance with the movement record.

☒ I have read and agree with the declaration.

MR3ELMCA: NSW INTRASTATE ASBESTOS

NSWNEPM.N220-Asbestos

Movement Status (23-Apr-2024 - 09:10): Submitted

KEY DETAILS

Pick Up Location	**ABN.24002542814 Ford Civil Contracting P/L 199 Aldington Road, Kemps Creek, NSW, 2178**	Drop Off Location	**ABN.30003830304 Brandown 90 Range, Cecil Park, NSW, 2178**
Drop Off Location Certificates	**NSW EPA Approved Asbestos Waste Receiving Facility (not found)**	NSW Material ID or Name	**NSWNEPM.N220-Asbestos**

ASBESTOS TRANSPORTER DETAILS

TRANSPORTER DETAILS

Who is the Transporter? (Required)	**ABN.24002542814 Ford Civil Contracting P/L**	Transporter Certificates	.....
Transporter Business Contact Name (Required)	**George Elhindi**	Transporter Business Mobile Number	**0414070720**
Transporter Business Contact Number	**0414070720**	Transporter Business Contact Email (Required)	**george.elhindi@fordcivil.com.au**
Nominated Driver Name	**Joseph Mandato**	Nominated Vehicle Registration Number	**JL0015**
Nominated Vehicle Type	**Tip Truck**		

ASBESTOS CONSIGNMENT DETAILS

ASBESTOS DETAILS (GENERAL)

Estimated Pick Up Date (Required)	**09-Apr-2024**	Estimated Drop Off Date (Required)	**09-Apr-2024**
Select if movement is related to an illegal dumping incident	☐	Additional Notes	.....
Creator Name	**George Elhindi**	Creator Reference	**199 Aldington Rd JBS&G**

ESTIMATED ASBESTOS WASTE DETAILS (MIN. ONE TYPE)

Friable Asbestos Contaminated Soil	**7.9 Tonnes**	Friable Sheeting Area (m2)	.....
Friable Mixed Asbestos Waste	.....	Friable Other	.....
Non-Friable Asbestos Contaminated Soil	.....	Non-Friable Sheeting Area (m2)	.....
Non-Friable Mixed Asbestos Waste	.....	Non-Friable Other	.....
Estimated Total Waste Weight	**7.9 Tonnes**		

PICK UP DETAILS

Pick Up Location Contact Name (Required)	**George Elhindi**	Pick Up Location Mobile Number	**0414070720**
Pick Up Location Contact Number	**0414070720**	Pick Up Location Contact Email (Required)	**george.elhindi@fordcivil.com.au**
Actual Generation Site Address	**199 Aldington Rd Kemps Creek**		

RECEIVING FACILITY

Receiver Business Contact Name	**Hi-Quality Group**	Receiver Business Mobile Number	**0298261666**
Receiver Business Contact Number	**0298261666**	Receiver Business Contact Email	.....

SUBMISSION

I declare that I have provided correct information to the best of my knowledge	☒

ASBESTOS PICK UP DETAILS

PICK UP ASBESTOS WASTE DETAILS (MIN. ONE TYPE)

Actual Pick Up Date (Required)	**09-Apr-2024**	Friable Asbestos Contaminated Soil	**7.9 Tonnes**
Friable Sheeting Area (m2)	.....	Friable Mixed Asbestos Waste	.....
Friable Other	.....	Non-Friable Asbestos Contaminated Soil	.....
Non-Friable Sheeting Area (m2)	.....	Non-Friable Mixed Asbestos Waste	.....
Non-Friable Other	.....	Total Pick Up Waste Weight	**7.9 Tonnes**

DRIVER DETAILS

Driver Name (Required)	**Joseph Mandato**	Registered Driver Mobile Number (Required)	**0411757277**
Vehicle Driver Licence (Required)	**4330AE**	Vehicle Driver Licence State (Required)	**NSW**

VEHICLE DETAILS

Vehicle Registration Number (Required)	**JL0015**	Vehicle Type	**Tip Truck**

SUBMISSION

I confirm that I have picked up the load of waste asbestos and the information I have provided on the load are correct to the best of my knowledge.	☒

ASBESTOS DROP OFF DETAILS

ASBESTOS DETAILS (GENERAL)

Actual Drop Off Date (Required)	**09-Apr-2024**	Actual Receiving Facility (Enter the actual receiving facility if this is different to nominated facility)	.....
Actual Receiver Business Contact Name	.....	Actual Receiver Business Contact Number	.....

(Enter the actual business contact name if the nominated facility changed)		(Enter the actual business contact number if the nominated facility changed)	
Actual Receiver Business Contact Email (Enter the actual business contact email if the nominated facility changed)	.....		

DROP OFF ASBESTOS WASTE DETAILS (MIN. ONE TYPE)

Friable Asbestos Contaminated Soil	**7.9 Tonnes**	Friable Sheeting Area (m2)	.....
Friable Mixed Asbestos Waste	.....	Friable Other	.....
Non-Friable Asbestos Contaminated Soil	.....	Non-Friable Sheeting Area (m2)	.....
Non-Friable Mixed Asbestos Waste	.....	Non-Friable Other	.....
Total Drop Off Waste Weight	**7.9 Tonnes**		

DROP OFF DETAILS

Docket Number	**120047398-NCRD**	Drop Off Notes	.....

CONFIRMATION

DECLARATION

I confirm that I have dropped off the load of asbestos waste in accordance with the movement record.

☒ I have read and agree with the declaration.

MWSLRQTE: NSW INTRASTATE ASBESTOS

NSWNEPM.N220-Asbestos

Movement Status (23-Apr-2024 - 09:14): Submitted

KEY DETAILS

Pick Up Location	**ABN.24002542814 Ford Civil Contracting P/L 199 Aldington Road, Kemps Creek, NSW, 2178**	Drop Off Location	**ABN.76115345769 Dial-A-Dump (EC) 1 Kangaroo Avenue, Eastern Creek, NSW, 2766**
Drop Off Location Certificates	**NSW EPA Approved Asbestos Waste Receiving Facility-WMF4073 (found)**	NSW Material ID or Name	**NSWNEPM.N220-Asbestos**

ASBESTOS TRANSPORTER DETAILS

TRANSPORTER DETAILS

Who is the Transporter? (Required)	**ABN.24002542814 Ford Civil Contracting P/L**	Transporter Certificates	.....
Transporter Business Contact Name (Required)	**George Elhindi**	Transporter Business Mobile Number	**0414070720**
Transporter Business Contact Number	**0414070720**	Transporter Business Contact Email (Required)	**george.elhindi@fordcivil.com.au**
Nominated Driver Name	**James Dwyer**	Nominated Vehicle Registration Number	**CI85HB**
Nominated Vehicle Type	**Tip Truck**		

ASBESTOS CONSIGNMENT DETAILS

ASBESTOS DETAILS (GENERAL)

Estimated Pick Up Date (Required)	**28-Mar-2024**	Estimated Drop Off Date (Required)	**28-Mar-2024**
Select if movement is related to an illegal dumping incident	☐	Additional Notes	.....
Creator Name	**George Elhindi**	Creator Reference	**199 Aldington Rd JBS&G**

ESTIMATED ASBESTOS WASTE DETAILS (MIN. ONE TYPE)

Friable Asbestos Contaminated Soil	**8.9 Tonnes**	Friable Sheeting Area (m2)	.....
Friable Mixed Asbestos Waste	.....	Friable Other	.....
Non-Friable Asbestos Contaminated Soil	.....	Non-Friable Sheeting Area (m2)	.....
Non-Friable Mixed Asbestos Waste	.....	Non-Friable Other	.....
Estimated Total Waste Weight	**8.9 Tonnes**		

PICK UP DETAILS

Pick Up Location Contact Name (Required)	**George Elhindi**	Pick Up Location Mobile Number	**0414070720**
Pick Up Location Contact Number	**0414070720**	Pick Up Location Contact Email (Required)	**george.elhindi@fordcivil.com.au**
Actual Generation Site Address	**199 Aldington Rd Kemps Creek**		

RECEIVING FACILITY

Receiver Business Contact Name	**Bingo**	Receiver Business Mobile Number	**1300424645**
Receiver Business Contact Number	**1300424645**	Receiver Business Contact Email	.....

SUBMISSION

I declare that I have provided correct information to the best of my knowledge	☒

ASBESTOS PICK UP DETAILS

PICK UP ASBESTOS WASTE DETAILS (MIN. ONE TYPE)

Actual Pick Up Date (Required)	**28-Mar-2024**	Friable Asbestos Contaminated Soil	**8.9 Tonnes**
Friable Sheeting Area (m2)	.....	Friable Mixed Asbestos Waste	.....
Friable Other	.....	Non-Friable Asbestos Contaminated Soil	.....
Non-Friable Sheeting Area (m2)	.....	Non-Friable Mixed Asbestos Waste	.....
Non-Friable Other	.....	Total Pick Up Waste Weight	**8.9 Tonnes**

DRIVER DETAILS

Driver Name (Required)	**James Dwyer**	Registered Driver Mobile Number (Required)	**0413082719**
Vehicle Driver Licence (Required)	**1898US**	Vehicle Driver Licence State (Required)	**NSW**

VEHICLE DETAILS

Vehicle Registration Number (Required)	**CI85HB**	Vehicle Type	**Tip Truck**

SUBMISSION

I confirm that I have picked up the load of waste asbestos and the information I have provided on the load are correct to the best of my knowledge.	☒

ASBESTOS DROP OFF DETAILS

ASBESTOS DETAILS (GENERAL)

Actual Drop Off Date (Required)	**28-Mar-2024**	Actual Receiving Facility (Enter the actual receiving facility if this is different to nominated facility)	.....
Actual Receiver Business Contact Name	.....	Actual Receiver Business Contact Number	.....

(Enter the actual business contact name if the nominated facility changed)		(Enter the actual business contact number if the nominated facility changed)	
Actual Receiver Business Contact Email (Enter the actual business contact email if the nominated facility changed)	.....		

DROP OFF ASBESTOS WASTE DETAILS (MIN. ONE TYPE)

Friable Asbestos Contaminated Soil	**8.9 Tonnes**	Friable Sheeting Area (m2)	.....
Friable Mixed Asbestos Waste	.....	Friable Other	.....
Non-Friable Asbestos Contaminated Soil	.....	Non-Friable Sheeting Area (m2)	.....
Non-Friable Mixed Asbestos Waste	.....	Non-Friable Other	.....
Total Drop Off Waste Weight	**8.9 Tonnes**		

DROP OFF DETAILS

Docket Number	**273311**	Drop Off Notes	.....

CONFIRMATION

DECLARATION

I confirm that I have dropped off the load of asbestos waste in accordance with the movement record.

☒ I have read and agree with the declaration.

MZ6YLNWT: NSW INTRASTATE ASBESTOS

NSWNEPM.N220-Asbestos

Movement Status (23-Apr-2024 - 09:13): Submitted

KEY DETAILS

Pick Up Location	**ABN.24002542814 Ford Civil Contracting P/L 199 Aldington Road, Kemps Creek, NSW, 2178**	Drop Off Location	**ABN.76115345769 Dial-A-Dump (EC) 1 Kangaroo Avenue, Eastern Creek, NSW, 2766**
Drop Off Location Certificates	**NSW EPA Approved Asbestos Waste Receiving Facility-WMF4073 (found)**	NSW Material ID or Name	**NSWNEPM.N220-Asbestos**

ASBESTOS TRANSPORTER DETAILS

TRANSPORTER DETAILS

Who is the Transporter? (Required)	**ABN.24002542814 Ford Civil Contracting P/L**	Transporter Certificates	.....
Transporter Business Contact Name (Required)	**George Elhindi**	Transporter Business Mobile Number	**0414070720**
Transporter Business Contact Number	**0414070720**	Transporter Business Contact Email (Required)	**george.elhindi@fordcivil.com.au**
Nominated Driver Name	**James Dwyer**	Nominated Vehicle Registration Number	**CI85HB**
Nominated Vehicle Type	**Tip Truck**		

ASBESTOS CONSIGNMENT DETAILS

ASBESTOS DETAILS (GENERAL)

Estimated Pick Up Date (Required)	**28-Mar-2024**	Estimated Drop Off Date (Required)	**28-Mar-2024**
Select if movement is related to an illegal dumping incident	☐	Additional Notes	.....
Creator Name	**George Elhindi**	Creator Reference	**199 Aldington Rd JBS&G**

ESTIMATED ASBESTOS WASTE DETAILS (MIN. ONE TYPE)

Friable Asbestos Contaminated Soil	**5.3 Tonnes**	Friable Sheeting Area (m2)	.....
Friable Mixed Asbestos Waste	.....	Friable Other	.....
Non-Friable Asbestos Contaminated Soil	.....	Non-Friable Sheeting Area (m2)	.....
Non-Friable Mixed Asbestos Waste	.....	Non-Friable Other	.....
Estimated Total Waste Weight	**5.3 Tonnes**		

PICK UP DETAILS

Pick Up Location Contact Name (Required)	**George Elhindi**	Pick Up Location Mobile Number	**0414070720**
Pick Up Location Contact Number	**0414070720**	Pick Up Location Contact Email (Required)	**george.elhindi@fordcivil.com.au**
Actual Generation Site Address	**199 Aldington Rd Kemps Creek**		

RECEIVING FACILITY

Receiver Business Contact Name	**Bingo**	Receiver Business Mobile Number	**1300424645**
Receiver Business Contact Number	**1300424645**	Receiver Business Contact Email	.....

SUBMISSION

I declare that I have provided correct information to the best of my knowledge	☒

ASBESTOS PICK UP DETAILS

PICK UP ASBESTOS WASTE DETAILS (MIN. ONE TYPE)

Actual Pick Up Date (Required)	**28-Mar-2024**	Friable Asbestos Contaminated Soil	**5.3 Tonnes**
Friable Sheeting Area (m2)	.....	Friable Mixed Asbestos Waste	.....
Friable Other	.....	Non-Friable Asbestos Contaminated Soil	.....
Non-Friable Sheeting Area (m2)	.....	Non-Friable Mixed Asbestos Waste	.....
Non-Friable Other	.....	Total Pick Up Waste Weight	**5.3 Tonnes**

DRIVER DETAILS

Driver Name (Required)	**James Dwyer**	Registered Driver Mobile Number (Required)	**0413082719**
Vehicle Driver Licence (Required)	**1898US**	Vehicle Driver Licence State (Required)	**NSW**

VEHICLE DETAILS

Vehicle Registration Number (Required)	**CI85HB**	Vehicle Type	**Tip Truck**

SUBMISSION

I confirm that I have picked up the load of waste asbestos and the information I have provided on the load are correct to the best of my knowledge.	☒

ASBESTOS DROP OFF DETAILS

ASBESTOS DETAILS (GENERAL)

Actual Drop Off Date (Required)	**28-Mar-2024**	Actual Receiving Facility (Enter the actual receiving facility if this is different to nominated facility)	.....
Actual Receiver Business Contact Name	.....	Actual Receiver Business Contact Number	.....

(Enter the actual business contact name if the nominated facility changed)		(Enter the actual business contact number if the nominated facility changed)	
Actual Receiver Business Contact Email (Enter the actual business contact email if the nominated facility changed)	.....		

DROP OFF ASBESTOS WASTE DETAILS (MIN. ONE TYPE)

Friable Asbestos Contaminated Soil	**5.3 Tonnes**	Friable Sheeting Area (m2)	.....
Friable Mixed Asbestos Waste	.....	Friable Other	.....
Non-Friable Asbestos Contaminated Soil	.....	Non-Friable Sheeting Area (m2)	.....
Non-Friable Mixed Asbestos Waste	.....	Non-Friable Other	.....
Total Drop Off Waste Weight	**5.3 Tonnes**		

DROP OFF DETAILS

Docket Number	**273736**	Drop Off Notes	.....

CONFIRMATION

DECLARATION

I confirm that I have dropped off the load of asbestos waste in accordance with the movement record.

☒ I have read and agree with the declaration.

MZVCYDCH: NSW INTRASTATE ASBESTOS

NSWNEPM.N220-Asbestos

Movement Status (23-Apr-2024 - 09:11): Submitted

KEY DETAILS

Pick Up Location	**ABN.24002542814 Ford Civil Contracting P/L 199 Aldington Road, Kemps Creek, NSW, 2178**	Drop Off Location	**ABN.30003830304 Brandown 90 Range, Cecil Park, NSW, 2178**
Drop Off Location Certificates	**NSW EPA Approved Asbestos Waste Receiving Facility (not found)**	NSW Material ID or Name	**NSWNEPM.N220-Asbestos**

ASBESTOS TRANSPORTER DETAILS

TRANSPORTER DETAILS

Who is the Transporter? (Required)	**ABN.24002542814 Ford Civil Contracting P/L**	Transporter Certificates	.....
Transporter Business Contact Name (Required)	**George Elhindi**	Transporter Business Mobile Number	**0414070720**
Transporter Business Contact Number	**0414070720**	Transporter Business Contact Email (Required)	**george.elhindi@fordcivil.com.au**
Nominated Driver Name	**Joseph Mandato**	Nominated Vehicle Registration Number	**JL0015**
Nominated Vehicle Type	**Tip Truck**		

ASBESTOS CONSIGNMENT DETAILS

ASBESTOS DETAILS (GENERAL)

Estimated Pick Up Date (Required)	**09-Apr-2024**	Estimated Drop Off Date (Required)	**09-Apr-2024**
Select if movement is related to an illegal dumping incident	☐	Additional Notes	.....
Creator Name	**George Elhindi**	Creator Reference	**199 Aldington Rd JBS&G**

ESTIMATED ASBESTOS WASTE DETAILS (MIN. ONE TYPE)

Friable Asbestos Contaminated Soil	**11.3 Tonnes**	Friable Sheeting Area (m2)	.....
Friable Mixed Asbestos Waste	.....	Friable Other	.....
Non-Friable Asbestos Contaminated Soil	.....	Non-Friable Sheeting Area (m2)	.....
Non-Friable Mixed Asbestos Waste	.....	Non-Friable Other	.....
Estimated Total Waste Weight	**11.3 Tonnes**		

PICK UP DETAILS

Pick Up Location Contact Name (Required)	**George Elhindi**	Pick Up Location Mobile Number	**0414070720**
Pick Up Location Contact Number	**0414070720**	Pick Up Location Contact Email (Required)	**george.elhindi@fordcivil.com.au**
Actual Generation Site Address	**199 Aldington Rd Kemps Creek**		

RECEIVING FACILITY

Receiver Business Contact Name	**Hi-Quality Group**	Receiver Business Mobile Number	**0298261666**
Receiver Business Contact Number	**0298261666**	Receiver Business Contact Email	.....

SUBMISSION

I declare that I have provided correct information to the best of my knowledge	☒

ASBESTOS PICK UP DETAILS

PICK UP ASBESTOS WASTE DETAILS (MIN. ONE TYPE)

Actual Pick Up Date (Required)	**09-Apr-2024**	Friable Asbestos Contaminated Soil	**11.3 Tonnes**
Friable Sheeting Area (m2)	.....	Friable Mixed Asbestos Waste	.....
Friable Other	.....	Non-Friable Asbestos Contaminated Soil	.....
Non-Friable Sheeting Area (m2)	.....	Non-Friable Mixed Asbestos Waste	.....
Non-Friable Other	.....	Total Pick Up Waste Weight	**11.3 Tonnes**

DRIVER DETAILS

Driver Name (Required)	**Joseph Mandato**	Registered Driver Mobile Number (Required)	**0411757277**
Vehicle Driver Licence (Required)	**4330AE**	Vehicle Driver Licence State (Required)	**NSW**

VEHICLE DETAILS

Vehicle Registration Number (Required)	**JL0015**	Vehicle Type	**Tip Truck**

SUBMISSION

I confirm that I have picked up the load of waste asbestos and the information I have provided on the load are correct to the best of my knowledge.	☒

ASBESTOS DROP OFF DETAILS

ASBESTOS DETAILS (GENERAL)

Actual Drop Off Date (Required)	**09-Apr-2024**	Actual Receiving Facility (Enter the actual receiving facility if this is different to nominated facility)	.....
Actual Receiver Business Contact Name	.....	Actual Receiver Business Contact Number	.....

(Enter the actual business contact name if the nominated facility changed)		(Enter the actual business contact number if the nominated facility changed)	
Actual Receiver Business Contact Email (Enter the actual business contact email if the nominated facility changed)	.....		

DROP OFF ASBESTOS WASTE DETAILS (MIN. ONE TYPE)

Friable Asbestos Contaminated Soil	**11.3 Tonnes**	Friable Sheeting Area (m2)	.....
Friable Mixed Asbestos Waste	.....	Friable Other	.....
Non-Friable Asbestos Contaminated Soil	.....	Non-Friable Sheeting Area (m2)	.....
Non-Friable Mixed Asbestos Waste	.....	Non-Friable Other	.....
Total Drop Off Waste Weight	**11.3 Tonnes**		

DROP OFF DETAILS

Docket Number	**120047313-NCRD**	Drop Off Notes	.....

CONFIRMATION

DECLARATION

I confirm that I have dropped off the load of asbestos waste in accordance with the movement record.

☒ I have read and agree with the declaration.

Appendix G Clearance Certification

©JBS&G Australia Pty Ltd

JBS&G (66105- 159,285)

29 April 2024

Ahmad Ghalayini
Frasers Property Industrial Pty Ltd
Via email: ahmad.ghalayini@frasersproperty.com.au

L007: Post Remediation Asbestos Clearance Certificate
'Edge South Development', 219 – 235 Aldington Road, Kemps Creek, NSW

Dear Ahmad,

1. Introduction

JBS&G Australia Pty Ltd (JBS&G) was engaged by Frasers Property Industrial Pty Ltd (FPI, the client) to undertake progressive clearance inspections following remediation works at the Edge South Development, 155-251 Aldington Road, Kemps Creek (the site). The site is identified as Lot 33 of Deposited Plan (DP) 258949, Lots 24-28 DP 255560, Lot 10 DP 253503 and Part Lot 34 DP 258949, and occupies a total area of approximately 65 hectares (ha). The location and layout of the site are shown on **Figure 1** and **Figure 2** (**Attachment 2**), respectively.

Previous environmental investigations identified isolated areas of bonded asbestos impacted material across the site which were subject to remediation in accordance with the site Remedial Action Plan (RAP, JBS&G 2024[1]). Remediation included the physical removal of asbestos containing material (ACM) fragments from surface soil, excavation and off-site disposal of subsurface asbestos impacts and excavation and off-site disposal of localised friable asbestos impacted materials identified as unexpected finds during the works.

Following completion of the remedial works, progressive asbestos clearance inspections were conducted to confirm the remedial objectives had been met, and that the site could be re-occupied without asbestos controls. The details of the clearance inspection(s) are summarised following.

2. Site and Clearance Area Details

Client Site Contact Details	
Client Name	Frasers Property Industrial Pty Ltd
Client Contact	Ahmad Ghalayini
Site and Clearance Area	
Site Address/Location	155-251 Aldington Road, Kemps Creek NSW
Description of Clearance Area	Ground surface clearance following the removal of asbestos impacted materials via either hand picking and tyning of soil to remove ACM fragments or mechanical excavation of soils across portions of the site during remediation, as shown in **Figure 2, Attachment 2**.

[1] *Remedial Action Plan – Aldington Road Estate, Edge South Development, Aldington Road, Kemps Creek, NSW*. Prepared for Frasers Property Industrial Pty Ltd by JBS&G Australia Pty Ltd Ref 65376/153876 Rev 2 dated 5 February 2024 (JBS&G 2024a)

3. Works and Contractor Details

Asbestos Works Details	
Date Asbestos works were completed	18 March 2024 – 9 April 2024
Licensed Asbestos Removal Contractor	Ford Civil Contracting Pty Ltd (AD21162)
Licence(s) Held	Class A (friable and non-friable)
Licensed Asbestos Removal Supervisor	Lawrence Saliba

4. Clearnce Inspection Details

JBS&G Clearance Inspection Details	
Date of clearance inspections	Remedial areas were cleared over multiple days between 18 March 2024 and 9 April 2024
Name and details of inspecting personnel	Bonded ACM clearance areas (**Figure 3A – 3E**) – Competent persons Massimo Chapman and Samuel Knott Friable asbestos clearance areas (**Figure 3B – 3E**) **–** Samuel Knott under the supervision of Licence Asbestos Assessor Stuart Lumsden (LAA 001140)
Was the inspecting personnel a Licensed Asbestos Assessor or Competent Person	All bonded ACM clearance inspections were conducted by a Competent Person, with all friable clearance inspections conducted by a Competent Person under direct supervision of a LAA.
Was air monitoring completed during the ground surface scrape works?	Yes. Air monitoring was conducted during all remediation and validation activities at representative static locations surrounding the remedial areas between 18 March 2024 and 9 April 2024 (refer **Attachment 3**). All results were reported as less than 0.01 fibres/mL.
Clearance Inspection Methodology	Following advice from the asbestos removal contractor that the remediation works were complete, the resultant ground surface was inspected by the JBS&G Competent Person and/or LAA for the presence of residual asbestos and asbestos containing materials. The inspection(s) were conducted by walking alternate 1 m transects across each clearance area (**Figures 3A – 3E**).
Exclusions	This clearance report is issued for the portion(s) of the site subject to remediation, as detailed in **Figure 2, Attachment 2** only and excludes area(s) beyond the remediation extents and/or to the subsurface, and the collapsed section of shed in area 1X as shown on **Figure 3D**

5. Clearance Inspection & Sampling Results

Visual Clearance Outcome/Action	Yes/No	Comments
Were any areas not able to be inspected?	No	-
Following visual inspection of the ground surface, was any visible debris, asbestos or ACM observed?	No	Refer to the **Photographs** in **Attachment 4**.
Were any validation samples collected during the inspection?	Yes	Soil samples were collected in accordance with the RAP (JBS&G 2024) following asbestos removal works at representative locations across each clearance area. Generally, samples were collected at a rate of 1/100 m2 for base samples, and 1/5 lineal metres of excavation walls. A total of 129 primary asbestos samples were collected.
Were the results of the validation samples satisfactory?	Yes	All final validation samples returned a result of *'No asbestos detected at the reporting limit of 0.001% w/w'* Laboratory analysis reports included as **Attachment 5**.
Can the cleared area be re-occupied?	Yes	The clearance area(s) (as shown on **Figures 3A – 3E**) are considered suitable for occupation under non-asbestos controlled conditions.

Is ongoing asbestos management required in the cleared area?	No	No further asbestos management controls are required across the clearance area.

6. Conclusions and Recommendations

Based on the information presented herein, and the **Limitations** in **Attachment 1**, JBS&G concludes that:

- The bonded and friable asbestos impacted areas (as shown in **Figure 2**, **Attachment 2**) were observed to have been successfully remediated at the time of inspection;
- No asbestos was identified within any of the 129 validation samples collected;
- Airborne asbestos fibre monitoring completed during the asbestos removal works showed that the airborne asbestos fibre level was less than 0.01 asbestos fibres/mL;
- At the time of inspection, no visible asbestos was found in the area, or vicinity of the area, where the asbestos remediation works were carried out; and
- The clearance area(s) (as detailed in **Figure 2**) are suitable to be re-occupied under non-asbestos controlled conditions.

Should additional suspected asbestos hazards be identified within the specified clearance areas subsequent to this advice, works should cease and JBS&G contacted to undertake an assessment of the suspected asbestos find.

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

Yours sincerely:

Samuel Knott
Environmental Consultant
JBS&G Australia Pty Ltd

Reviewed/Approved by:

Stuart Lumsden
Licensed Asbestos Assessor
(LAA 001426)
JBS&G Australia Pty Ltd

Reviewed/Approved by:

Seth Molinari
Senior Principal
JBS&G Australia Pty Ltd

Attachments forming part of this advice:
1) Limitations
2) Figures
3) Air Monitoring Results
4) Photographs
5) Laboratory Reports and Chain of Custody Documentation

Attachment 1 – 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. JBS&G accepts no liability for incomplete or inaccurate information provided to JBS&G by the client or other parties.

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 the type of assessment works being reviewed, and should not be used for any other purpose beyond which it was intended.

JBS&G accepts no liability for use or interpretation by any person or body other than the client who commissioned the works. This report should not be reproduced in part or without prior approval by the client, or amended in any way without prior approval by JBS&G, and should not be relied upon by other parties except at their sole risk after making their own enquires.

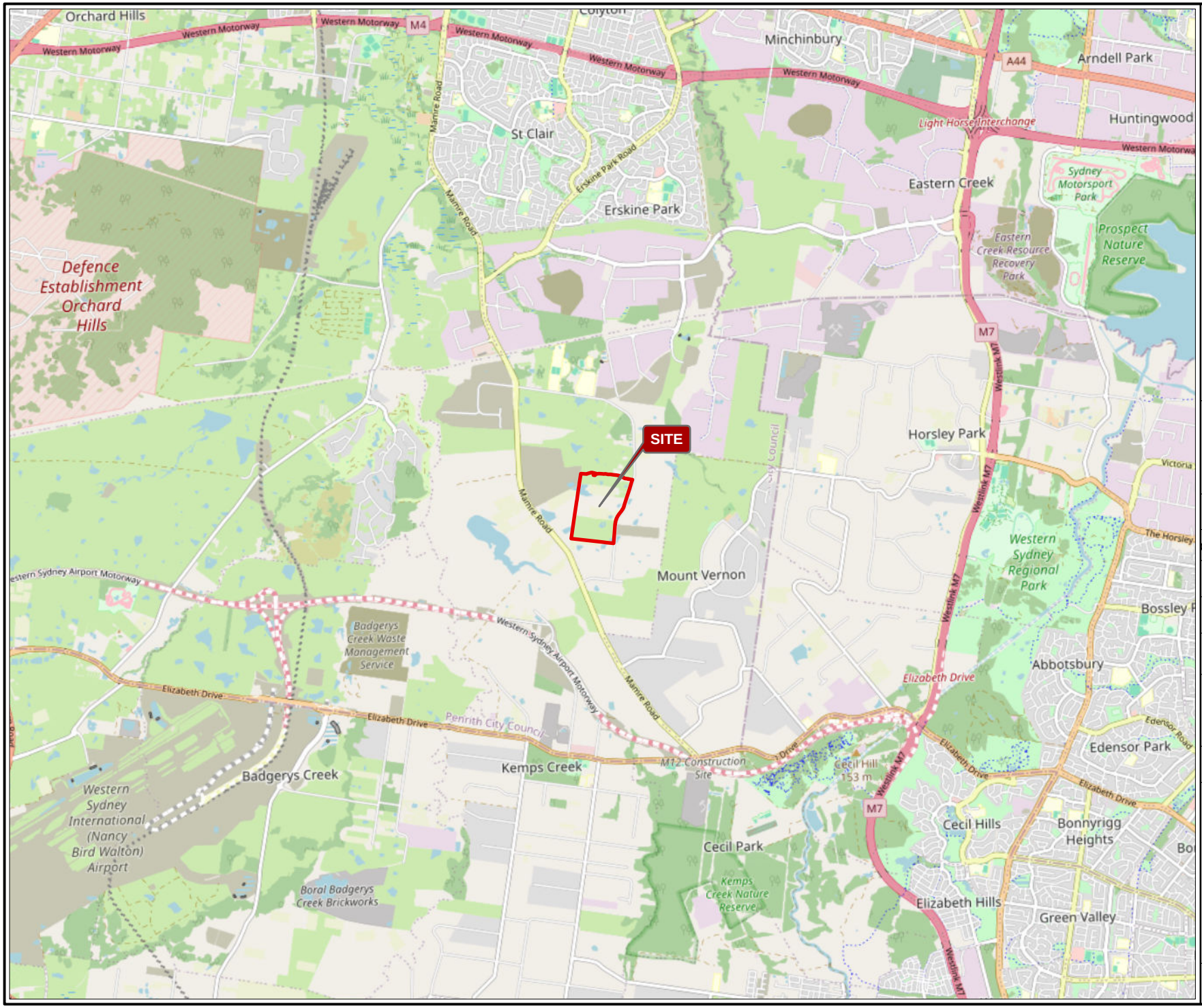
Conclusions arising from the review and assessment of data are based on the scope of work considered appropriate based on the regulatory requirements and relevant codes of practice. Within the limitations of the scope of services, the work reported herein has been performed in a professional manner in accordance with generally accepted industry standards and using a degree of skill and care ordinarily exercised by members of its profession.

No sampling or laboratory analyses were undertaken as part of the investigations undertaken, as described herein, which was limited to inspection of visible and accessible ground surfaces only in the designated area.

Changes to the surface conditions may occur subsequent to the investigations described herein, through natural processes such as rain, surface water runoff and wind, through the intentional or accidental disturbance of ground surfaces such as vehicle and pedestrian movement, excavation or failure of sediment and erosion controls, and/or through addition of materials/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 status of the site, and it is limited to the scope defined herein. Should additional information become available regarding conditions at the site, JBS&G reserves the right to review the report in the context of the additional information. This may require JBS&G undertaking further inspection, and possible sampling, analysis and reporting to verify additional information. Such additional works will only be completed following mutual written agreement between JBS&G and the client.

Attachment 2 – Figures



Legend

Approximate Site Boundary

JBS&G

Job No: 66105

Client: Frasers Property Group

Version: R02 Rev A	Date 23/04/2024
Drawn By: MW	Checked By: SK

Scale 1:75,000

0 750 1,500

metres

Coord. Sys. GDA 1994 MGA Zone 56

155-251 Aldington Road,
Kemps Creek, NSW

SITE LOCATION

FIGURE 1

File Name: 66105_KempsCreek_FrasersProperty_R01_Rev0

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

Legend

- Approximate Site Boundary
- NSW Cadastre

Management Areas

- Asbestos identified within site structures (further findings may occur following HBMS)
- AST Location

Remedial Extent

- Elevated hydrocarbons above the adopted land use criteria
- ACM identified in surficial soils (< 0.1 m bgs) and/or affixed to stockpiled concrete slabs

JBS&G

Job No: 66105

Client: Frasers Property Group

Version: R02 Rev A	Date 23/04/2024
Drawn By: MW	Checked By: SK

Scale 1:5,500

0 50 100
metres

Coord. Sys. GDA 1994 MGA Zone 56

155-251 Aldington Road,
Kemps Creek, NSW

SITE LAYOUT

FIGURE 2

File Name: 66105_KempsCreek_FrasersProperty_R01_Rev0
Reference: Nearmap - www.nearmap.com (Capture Date: 20211017)

Legend

- Approximate Site Boundary
- NSW Cadastre (DFSI, 2021)

Remedial Extent

- ACM identified in surficial soils (< 0.1 m bgs) and/or affixed to stockpiled concrete slabs

Site Features

- Asbestos Pipe
- Concrete Slab
- Sample Location

POINT	EASTING	NORTHING
A	296130.9172	6252963.328
B	296157.1695	6252960.033
C	296155.0042	6252942.784
D	296183.5667	6252939.198
E	296181.3785	6252921.768
F	296126.5637	6252928.649

JBS&G

Job No: 66105

Client: Frasers Property Group

Version: R02 Rev A	Date 23/04/2024
Drawn By: MW	Checked By: SK

Scale 1:300

0 3 6

metres

Coord. Sys. GDA 1994 MGA Zone 56

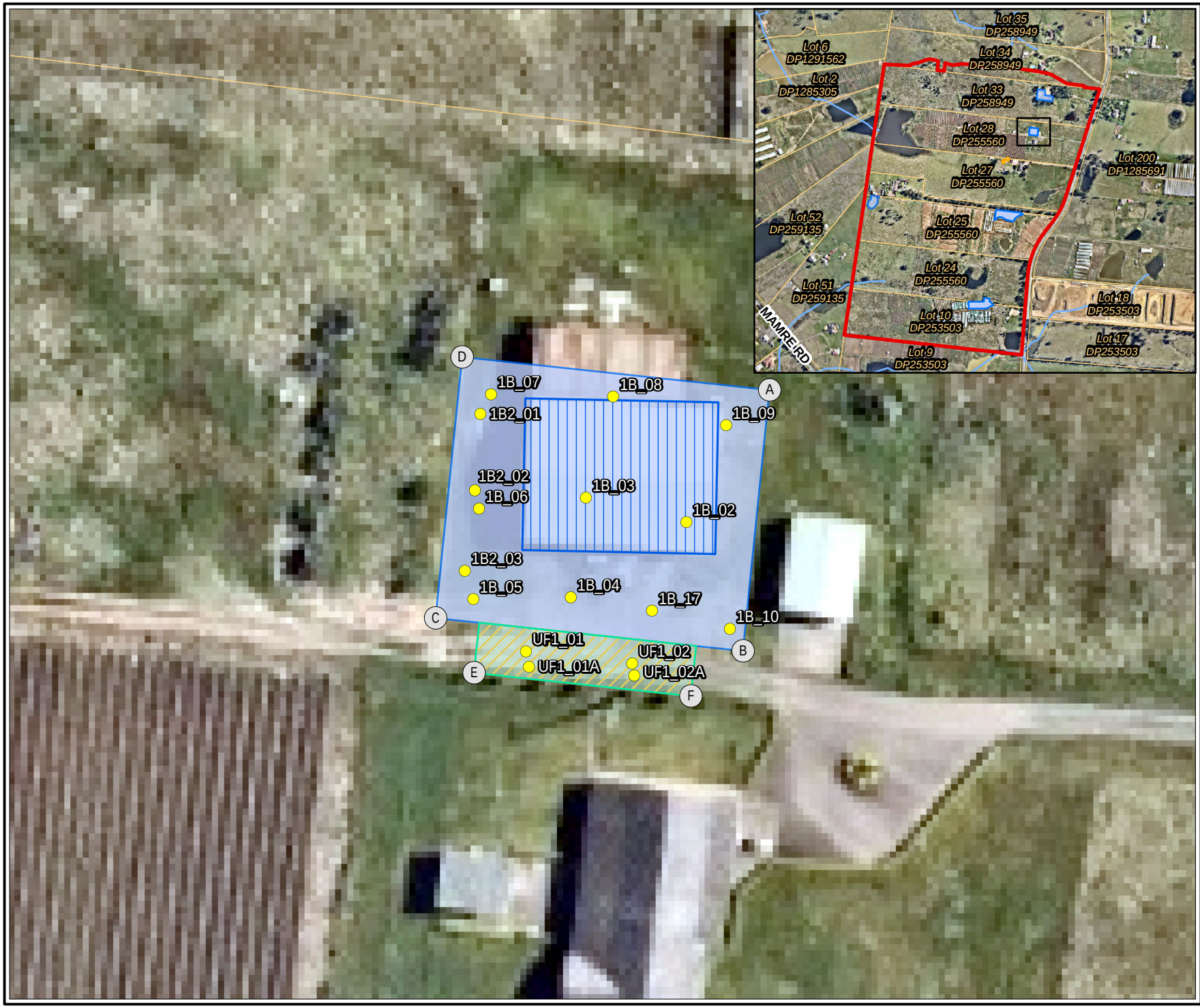
155-251 Aldington Road,
Kemps Creek, NSW

AREA 1A

VALIDATION SAMPLING

FIGURE 3A

File Name: 66105_KempsCreek_FrasersProperty_R01_Rev0
Reference: Nearmap - www.nearmap.com (Capture Date: 20211017)



Legend

- Approximate Site Boundary
- NSW Cadastre (DFSI, 2021)

Remedial Extent

- ACM identified in surficial soils (< 0.1 m bgs) and/or affixed to stockpiled concrete slabs

Site Features

- UF1
- Concrete Slab
- Friable Hotspot
- Sample Location

POINT	EASTING	NORTHING
A	296132.6053	6252826.61
B	296130.0324	6252801.31
C	296100.2115	6252804.5
D	296102.7844	6252829.8
E	296103.9413	6252799.19
F	296124.9713	6252796.94

JBS&G

Job No: 66105

Client: Frasers Property Group

Version: R02 Rev A	Date 29/04/2024
Drawn By: MW	Checked By: SK

Scale 1:500

0 5 10

metres

Coord. Sys. GDA 1994 MGA Zone 56

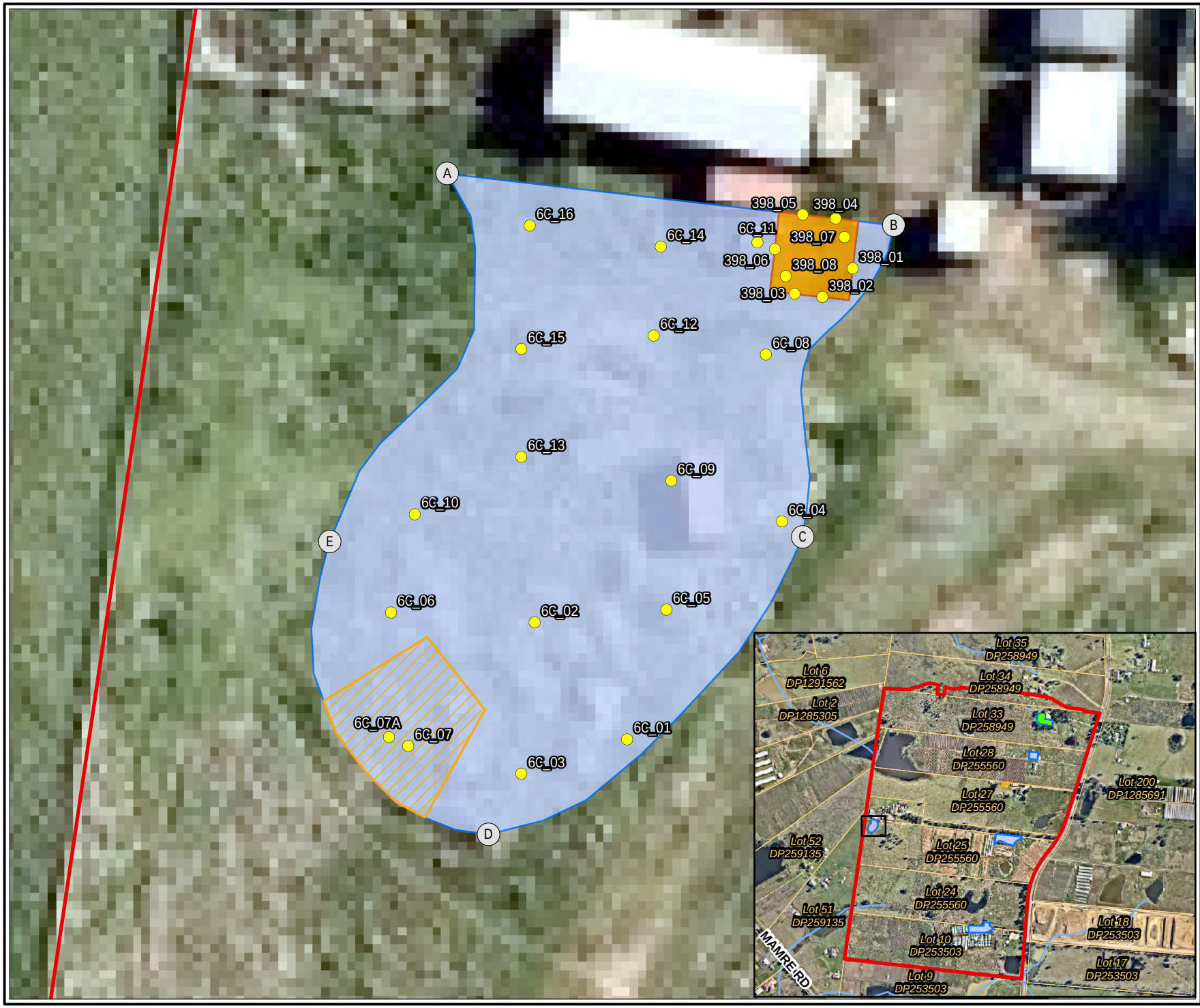
155-251 Aldington Road,
Kemps Creek, NSW

AREA 1B

VALIDATION SAMPLING

FIGURE 3B

File Name: 66105_KempsCreek_FrasersProperty_R002_RevA
Reference: Nearmap - www.nearmap.com (Capture Date: 20211017)



Legend

- Approximate Site Boundary

Remedial Extent

- Elevated hydrocarbons above the adopted land use criteria
- ACM identified in surficial soils (< 0.1 m bgs) and/or affixed to stockpiled concrete slabs
- Friable Hotspot
- Sample Location

POINT	EASTING	NORTHING
A	295547.5	6252593.78
B	295578.7	6252590.18
C	295572.3	6252568.41
D	295550.4	6252547.65
E	295539.3	6252568.09

JBS&G

Job No: 66105

Client: Frasers Property Group

Version: R02 Rev A | Date 23/04/2024

Drawn By: MW | Checked By: SK

Scale 1:360

0 3.5 7

metres

Coord. Sys. GDA 1994 MGA Zone 56

155-251 Aldington Road,
Kemps Creek, NSW

AREA 6C

VALIDATION SAMPLING

FIGURE 3C

File Name: 66105_KempsCreek_FrasersProperty_R01_Rev0
Reference: Nearmap - www.nearmap.com (Capture Date: 20211017)

Legend

Approximate Site Boundary

Remedial Extent

ACM identified in surficial soils (< 0.1 m bgs) and/or affixed to stockpiled concrete slabs

Site Features

Friable Hotspot

Shed Extent - Visually Cleared

Inaccessible Area

Sample Location

POINT	EASTING	NORTHING
A	295963.1832	6252233.14
B	295975.989	6252212.5
C	295947.2856	6252199.2
D	295890.2639	6252198.11
E	295889.2055	6252223.19
F	295942.6515	6252223.19

JBS&G

Job No: 66105

Client: Frasers Property Group

Version: R02 Rev A | Date 29/04/2024

Drawn By: MW | Checked By: SK

Scale 1:400

0 4 8

metres

Coord. Sys. GDA 1994 MGA Zone 56

155-251 Aldington Road,
Kemps Creek, NSW

AREA 1X

VALIDATION SAMPLING

FIGURE 3D

File Name: 66105_KempsCreek_FrasersProperty_R002_RevA
Reference: Nearmap - www.nearmap.com (Capture Date: 20211017)

Legend

- Approximate Site Boundary

Remedial Extent

- ACM identified in surficial soils (< 0.1 m bgs) and/or affixed to stockpiled concrete slabs

Site Features

- Concrete Slab
- Friable Hotspot
- Test Pit
- Sample Location

POINT	EASTING	NORTHING
A	295985.1961	6252543.145
B	296074.2386	6252532.627
C	296078.5749	6252526.991
D	296045.3961	6252502.861
E	295999.5785	6252518.137
F	295979.6211	6252506.878

JBS&G

Job No: 66105

Client: Frasers Property Group

Version: R02 Rev A	Date 29/04/2024
Drawn By: MW	Checked By: SK

Scale 1:500

0 5 10

metres

Coord. Sys. GDA 1994 MGA Zone 56

155-251 Aldington Road,
Kemps Creek, NSW

AREA 1E

VALIDATION SAMPLING

FIGURE 3E

File Name: 66105_KempsCreek_FrasersProperty_R002_RevA
Reference: Nearmap - www.nearmap.com (Capture Date: 20211017)

Attachment 3 - Air Monitoring Results

20 March 2024

Ahmad Ghalayini
Frasers Property Pty Ltd
Via email: ahmad.ghalayini@frasersproperty.com.au

AMR001: Airborne Asbestos Fibre Monitoring Report
Edge South Development, 199 Aldington Road, Kemps Creek NSW

Dear Ahmad,

Please find as **Attachment 1**, the airborne asbestos fibre monitoring results for the works undertaken at the Edge South Development, located at 199 Aldington Road, Kemps Creek, NSW (the site) on **Tuesday 19 March 2024.**

All air monitoring was completed in accordance with the *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres* [NOHSC: 3003(2005)], with NATA certification applying to all sample collection, handling and analytical procedures.

Please note that sample DI457175 (Lab ID: 24-Ma0045384), located in the south-west corner of the work zone was void due to equipment failure, with the battery running flat during the monitoring event. In accordance with the requirements of NOHSC: 3003 (2005), this sample has been void.

All remaining reported results were satisfactory and conform with the minimum action level of 0.01 fibres /mL for control monitoring as outlined in:

- Work, Health and Safety (2017) Regulation; and
- Safework NSW (2022) Code of Practice – *How to Safely Remove Asbestos.*

If you have any questions regarding these results, please contact the undersigned on 02 8245 0300 or by email sknott@jbsg.com.au.

Yours sincerely:

Sam Knott
Environmental Consultant
JBS&G Australia Pty Ltd

Attachment 1 – Asbestos Air Monitoring Results

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

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:	Samuel Knott
Report	1079609-AFC
Project Name	ALDINGTUAN
Project ID	66105
Received Date	Mar 19, 2024
Date Reported	Mar 19, 2024

METHODOLOGY:

Asbestos Sampling	Sampling as per the National Occupational Health & Safety Commission – Guidance Note on The Membrane Filter Method For Estimating Airborne Asbestos Fibres 2nd Edition [NOHSC:3003(2005)] and the NATA Specific Accreditation Criteria, ISO/IEC 17025 Application Document Life Sciences – Annex, Asbestos sampling and testing, Issued: March 2022.
Pump Calibration	Air sampling pump performance has been assessed in accordance with Australian Institute of Occupational Hygiene (AIOH) Technical Paper Air Sampling Pumps: Equipment Calibration Requirements. Pump flow rate measurement equipment (e.g. Field Rotameter) has been calibrated in accordance with AIOH Technical Paper Flow Measurement Equipment: Calibration Requirements.
Asbestos Counting	Fibre counting is conducted in accordance with the National Occupational Health & Safety Commission Guidance Note on the Membrane Filter Method For Estimating Airborne Asbestos Fibres 2nd Edition , [NOHSC:3003(2005)] (MFM) and supplementary work instruction in-house LTM-ASB-8010. Unless specifically noted, analysis is undertaken by approved analysts at the base facility. Fibre counts (Fibres/fields) are covered by the facility's NATA scope of accreditation. The requirements of the NATA Specific Accreditation Criteria, ISO/IEC 17025 Application Document Life Sciences – Annex, Asbestos sampling and testing, Issued: March 2022 are realised.

Project Name ALDINGTUAN
Project ID 66105
Date Sampled Mar 19, 2024
Report 1079609-AFC

Eurofins Sample No.	Client Sample ID	Pump ID	Location	Start (time)	End (time)	Start Flow Rate (L/min)	End Flow Rate (L/min)	Result (Fibres/Fields)	Result (Fibres/mL)
24-Ma0045384	DI457175		SE CORNER OF 6C					0/100	
24-Ma0045385	DI457183	AC205	SW CORNER OF 6C	7:17	14:48	2.0	2.0	0/100	< 0.01
24-Ma0045386	DI457052	AC106	NW CORNER OF 6C	7:20	14:51	2.0	2.0	0/100	< 0.01
24-Ma0045387	DI457168	AC094	NE CORNER OF 6C	7:25	14:53	2.0	2.0	0/100	< 0.01
24-Ma0045388	DI457186	--	BLANK	--	--	--	--	0/100	--

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-8010	Sydney	Mar 19, 2024	Indefinite
Asbestos - LTM-ASB-8010	Sydney	Mar 19, 2024	Indefinite

eurofins

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
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
NATA# 2377
Site# 2370

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland	Auckland (Asb)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,
Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: ALDINGTUAN
Project ID: 66105

Order No.:
Report #: 1079609
Phone: 02 8245 0300
Fax:

Received: Mar 19, 2024 5:40 PM
Due: Mar 19, 2024
Priority: Same day
Contact Name: Samuel Knott

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos (amount of fibres in air)	Asbestos Fibre Count & Concentration
Sydney Laboratory - NATA # 1261 Site # 18217						X	X
External Laboratory							
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**		
1	DI457175	Mar 19, 2024	2:46PM	Air	S24-Ma0045384	X	
2	DI457183	Mar 19, 2024	2:48PM	Air	S24-Ma0045385		X
3	DI457052	Mar 19, 2024	2:51PM	Air	S24-Ma0045386		X
4	DI457168	Mar 19, 2024	2:53PM	Air	S24-Ma0045387		X
5	DI457186	Mar 19, 2024		Air	S24-Ma0045388		X
Test Counts						1	4

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**). This estimate is not NATA-accredited.
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

Volume Measurement : Massimo Chapman, JBS & G Australia (NSW) P/L, has been trained by Eurofins and they conducted the sampling in accordance with the National Occupational Health & Safety Commission - Guidance Note on The Membrane Filter Method For Estimating Airborne Asbestos Fibres 2nd Edition [NOHSC:3003(2005)]methodology. Sampling pumps used by JBS & G Australia (NSW) P/L were calibrated by Eurofins Environment Testing and therefore volume measurements contained in this report are traceable back to Eurofins Environment Testing. Eurofins Environment Testing are responsible for all data contained in this report.

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:

Sayeed Abu	Senior Analyst-Asbestos

Glenn Jackson
Managing Director

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.

21 March 2024

Ahmad Ghalayini
Frasers Property Pty Ltd
Via email: ahmad.ghalayini@frasersproperty.com.au

AMR002: Airborne Asbestos Fibre Monitoring Report
Edge South Development, 199 Aldington Road, Kemps Creek NSW

Dear Ahmad,

Please find as **Attachment 1**, the airborne asbestos fibre monitoring results for the works undertaken at the Edge South Development, located at 199 Aldington Road, Kemps Creek, NSW (the site) on **Wednesday 20 March 2024.**

All air monitoring was completed in accordance with the *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres* [NOHSC: 3003(2005)], with NATA certification applying to all sample collection, handling and analytical procedures.

All reported results were satisfactory and conform with the minimum action level of 0.01 fibres /mL for control monitoring as outlined in:

- Work, Health and Safety (2017) Regulation; and
- Safework NSW (2022) Code of Practice – *How to Safely Remove Asbestos.*

If you have any questions regarding these results, please contact the undersigned on 02 8245 0300 or by email sknott@jbsg.com.au.

Yours sincerely:

Sam Knott
Environmental Consultant
JBS&G Australia Pty Ltd

Attachment 1 – Asbestos Air Monitoring Results

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:	Samuel Knott
Report	1080075-AFC
Project Name	ALDINGTON ROAD REMEDIATION
Project ID	66105
Received Date	Mar 20, 2024
Date Reported	Mar 20, 2024

METHODOLOGY:

Asbestos Sampling	Sampling as per the National Occupational Health & Safety Commission – Guidance Note on The Membrane Filter Method For Estimating Airborne Asbestos Fibres 2nd Edition [NOHSC:3003(2005)] and the NATA Specific Accreditation Criteria, ISO/IEC 17025 Application Document Life Sciences – Annex, Asbestos sampling and testing, Issued: March 2022.
Pump Calibration	Air sampling pump performance has been assessed in accordance with Australian Institute of Occupational Hygiene (AIOH) Technical Paper Air Sampling Pumps: Equipment Calibration Requirements. Pump flow rate measurement equipment (e.g. Field Rotameter) has been calibrated in accordance with AIOH Technical Paper Flow Measurement Equipment: Calibration Requirements.
Asbestos Counting	Fibre counting is conducted in accordance with the National Occupational Health & Safety Commission Guidance Note on the Membrane Filter Method For Estimating Airborne Asbestos Fibres 2nd Edition , [NOHSC:3003(2005)] (MFM) and supplementary work instruction in-house LTM-ASB-8010. Unless specifically noted, analysis is undertaken by approved analysts at the base facility. Fibre counts (Fibres/fields) are covered by the facility's NATA scope of accreditation. The requirements of the NATA Specific Accreditation Criteria, ISO/IEC 17025 Application Document Life Sciences – Annex, Asbestos sampling and testing, Issued: March 2022 are realised.

Project Name ALDINGTON ROAD REMEDIATION
Project ID 66105
Date Sampled Mar 20, 2024
Report 1080075-AFC

Eurofins Sample No.	Client Sample ID	Pump ID	Location	Start (time)	End (time)	Start Flow Rate (L/min)	End Flow Rate (L/min)	Result (Fibres/Fields)	Result (Fibres/mL)
24-Ma0049107	DI457055	AC025	NORTH SECTION OF 1E	7:30	14:25	2.0	2.0	0/100	< 0.01
24-Ma0049108	DI457178	AC193	EAST SECTION OF 1E	7:32	14:27	2.0	2.0	0/100	< 0.01
24-Ma0049109	DI457190	AC106	WEST SECTION OF 1E	7:35	14:32	2.0	2.0	0/100	< 0.01
24-Ma0049110	DI452237	AC094	SOUTH SECTION OF 1E	7:38	14:35	2.0	2.0	0/100	< 0.01
24-Ma0049111	DI457068	--	BLANK	--	--	--	--	0/100	--

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-8010	Sydney	Mar 20, 2024	Indefinite

eurofins

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
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
NATA# 2377
Site# 2370

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland	Auckland (Asb)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,
Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Order No.:
Report #: 1080075
Phone: 02 8245 0300
Fax:

Received: Mar 20, 2024 6:35 PM
Due: Mar 20, 2024
Priority: Same day
Contact Name: Samuel Knott

Project Name: ALDINGTON ROAD REMEDIATION
Project ID: 66105

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos Fibre Count & Concentration
Sydney Laboratory - NATA # 1261 Site # 18217						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	DI457055	Mar 20, 2024	7:30AM	Air	S24-Ma0049107	X
2	DI457178	Mar 20, 2024	7:32AM	Air	S24-Ma0049108	X
3	DI457190	Mar 20, 2024	7:35AM	Air	S24-Ma0049109	X
4	DI452237	Mar 20, 2024	7:38AM	Air	S24-Ma0049110	X
5	DI457068	Mar 20, 2024		Air	S24-Ma0049111	X
Test Counts						5

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**). This estimate is not NATA-accredited.
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

Volume Measurement : CHRIS SILLARS , JBS & G Australia (NSW) P/L, has been trained by Eurofins and they conducted the sampling in accordance with the National Occupational Health & Safety Commission - Guidance Note on The Membrane Filter Method For Estimating Airborne Asbestos Fibres 2nd Edition [NOHSC:3003(2005)]methodology. Sampling pumps used by JBS & G Australia (NSW) P/L were calibrated by Eurofins Environment Testing and therefore volume measurements contained in this report are traceable back to Eurofins Environment Testing. Eurofins Environment Testing are responsible for all data contained in this report.

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:

Sayeed Abu	Senior Analyst-Asbestos

Glenn Jackson
Managing Director

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.

22 March 2024

Ahmad Ghalayini
Frasers Property Pty Ltd
Via email: ahmad.ghalayini@frasersproperty.com.au

AMR003: Airborne Asbestos Fibre Monitoring Report
Edge South Development, 199 Aldington Road, Kemps Creek NSW

Dear Ahmad,

Please find as **Attachment 1**, the airborne asbestos fibre monitoring results for the works undertaken at the Edge South Development, located at 199 Aldington Road, Kemps Creek, NSW (the site) on **Thursday 21 March 2024.**

All air monitoring was completed in accordance with the *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres* [NOHSC: 3003(2005)], with NATA certification applying to all sample collection, handling and analytical procedures.

All reported results were satisfactory and conform with the minimum action level of 0.01 fibres /mL for control monitoring as outlined in:

- Work, Health and Safety (2017) Regulation; and
- Safework NSW (2022) Code of Practice – *How to Safely Remove Asbestos.*

If you have any questions regarding these results, please contact the undersigned on 02 8245 0300 or by email sknott@jbsg.com.au.

Yours sincerely:

Sam Knott
Environmental Consultant
JBS&G Australia Pty Ltd

Attachment 1 – Asbestos Air Monitoring Results

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:	Samuel Knott
Report	1080735-AFC
Project Name	ALDINGTON-AMR
Project ID	66105
Received Date	Mar 22, 2024
Date Reported	Mar 22, 2024

METHODOLOGY:

Asbestos Sampling	Sampling as per the National Occupational Health & Safety Commission – Guidance Note on The Membrane Filter Method For Estimating Airborne Asbestos Fibres 2nd Edition [NOHSC:3003(2005)] and the NATA Specific Accreditation Criteria, ISO/IEC 17025 Application Document Life Sciences – Annex, Asbestos sampling and testing, Issued: March 2022.
Pump Calibration	Air sampling pump performance has been assessed in accordance with Australian Institute of Occupational Hygiene (AIOH) Technical Paper Air Sampling Pumps: Equipment Calibration Requirements. Pump flow rate measurement equipment (e.g. Field Rotameter) has been calibrated in accordance with AIOH Technical Paper Flow Measurement Equipment: Calibration Requirements.
Asbestos Counting	Fibre counting is conducted in accordance with the National Occupational Health & Safety Commission Guidance Note on the Membrane Filter Method For Estimating Airborne Asbestos Fibres 2nd Edition , [NOHSC:3003(2005)] (MFM) and supplementary work instruction in-house LTM-ASB-8010. Unless specifically noted, analysis is undertaken by approved analysts at the base facility. Fibre counts (Fibres/fields) are covered by the facility's NATA scope of accreditation. The requirements of the NATA Specific Accreditation Criteria, ISO/IEC 17025 Application Document Life Sciences – Annex, Asbestos sampling and testing, Issued: March 2022 are realised.

Project Name ALDINGTON-AMR
Project ID 66105
Date Sampled Mar 21, 2024
Report 1080735-AFC

Eurofins Sample No.	Client Sample ID	Pump ID	Location	Start (time)	End (time)	Start Flow Rate (L/min)	End Flow Rate (L/min)	Result (Fibres/Fields)	Result (Fibres/mL)
24-Ma0054642	DI457189	AC025	NE CORNER 1A	7:20	14:50	2.0	2.0	0/100	< 0.01
24-Ma0054643	DI457176	AC193	NW CORNER 1A	7:21	14:52	2.0	2.0	0/100	< 0.01
24-Ma0054644	DI457042	AC094	SW CORNER 1A	7:23	14:54	2.0	2.0	0/100	< 0.01
24-Ma0054645	DI457098	AC106	SE CORNER 1A	7:25	14:56	2.0	2.0	0/100	< 0.01
24-Ma0054646	DI457034	--	BLANK	--	--	--	--	0/100	--

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-8010	Sydney	Mar 22, 2024	Indefinite

eurofins

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
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
NATA# 2377
Site# 2370

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland	Auckland (Asb)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,
Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: ALDINGTON-AMR
Project ID: 66105

Order No.:
Report #: 1080735
Phone: 02 8245 0300
Fax:

Received: Mar 22, 2024 11:50 AM
Due: Mar 22, 2024
Priority: Same day
Contact Name: Samuel Knott

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos Fibre Count & Concentration
Sydney Laboratory - NATA # 1261 Site # 18217						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	DI457189	Mar 21, 2024		Air	S24-Ma0054642	X
2	DI457176	Mar 21, 2024		Air	S24-Ma0054643	X
3	DI457042	Mar 21, 2024		Air	S24-Ma0054644	X
4	DI457098	Mar 21, 2024		Air	S24-Ma0054645	X
5	DI457034	Mar 21, 2024		Air	S24-Ma0054646	X
Test Counts						5

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**). This estimate is not NATA-accredited.
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

Volume Measurement : Massimo Chapman, JBS & G Australia (NSW) P/L, has been trained by Eurofins and they conducted the sampling in accordance with the National Occupational Health & Safety Commission - Guidance Note on The Membrane Filter Method For Estimating Airborne Asbestos Fibres 2nd Edition [NOHSC:3003(2005)]methodology. Sampling pumps used by JBS & G Australia (NSW) P/L were calibrated by Eurofins Environment Testing and therefore volume measurements contained in this report are traceable back to Eurofins Environment Testing. Eurofins Environment Testing are responsible for all data contained in this report.

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:

Md Mozibur Rahman	Senior Analyst-Asbestos

Authorised by:

Laxman Dias	Senior Analyst-Asbestos

Glenn Jackson
Managing Director

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.

25 March 2024

Ahmad Ghalayini
Frasers Property Pty Ltd
Via email: ahmad.ghalayini@frasersproperty.com.au

AMR004: Airborne Asbestos Fibre Monitoring Report
Edge South Development, 199 Aldington Road, Kemps Creek NSW

Dear Ahmad,

Please find as **Attachment 1**, the airborne asbestos fibre monitoring results for the works undertaken at the Edge South Development, located at 199 Aldington Road, Kemps Creek, NSW (the site) on **Friday 22 March 2024.**

All air monitoring was completed in accordance with the *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres* [NOHSC: 3003(2005)], with NATA certification applying to all sample collection, handling and analytical procedures.

All reported results were satisfactory and conform with the minimum action level of 0.01 fibres /mL for control monitoring as outlined in:

- Work, Health and Safety (2017) Regulation; and
- Safework NSW (2022) Code of Practice – *How to Safely Remove Asbestos.*

If you have any questions regarding these results, please contact the undersigned on 02 8245 0300 or by email sknott@jbsg.com.au.

Yours sincerely:

Sam Knott
Environmental Consultant
JBS&G Australia Pty Ltd

Attachment 1 – Asbestos Air Monitoring Results

Certificate of Analysis

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

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:	Samuel Knott
Report	1080988-AFC
Project Name	ALDINGTON-AMR
Project ID	66105
Received Date	Mar 22, 2024
Date Reported	Mar 22, 2024

METHODOLOGY:

Asbestos Sampling	Sampling as per the National Occupational Health & Safety Commission – Guidance Note on The Membrane Filter Method For Estimating Airborne Asbestos Fibres 2nd Edition [NOHSC:3003(2005)] and the NATA Specific Accreditation Criteria, ISO/IEC 17025 Application Document Life Sciences – Annex, Asbestos sampling and testing, Issued: March 2022.
Pump Calibration	Air sampling pump performance has been assessed in accordance with Australian Institute of Occupational Hygiene (AIOH) Technical Paper Air Sampling Pumps: Equipment Calibration Requirements. Pump flow rate measurement equipment (e.g. Field Rotameter) has been calibrated in accordance with AIOH Technical Paper Flow Measurement Equipment: Calibration Requirements.
Asbestos Counting	Fibre counting is conducted in accordance with the National Occupational Health & Safety Commission Guidance Note on the Membrane Filter Method For Estimating Airborne Asbestos Fibres 2nd Edition , [NOHSC:3003(2005)] (MFM) and supplementary work instruction in-house LTM-ASB-8010. Unless specifically noted, analysis is undertaken by approved analysts at the base facility. Fibre counts (Fibres/fields) are covered by the facility's NATA scope of accreditation. The requirements of the NATA Specific Accreditation Criteria, ISO/IEC 17025 Application Document Life Sciences – Annex, Asbestos sampling and testing, Issued: March 2022 are realised.

Project Name ALDINGTON-AMR
Project ID 66105
Date Sampled Mar 22, 2024
Report 1080988-AFC

Eurofins Sample No.	Client Sample ID	Pump ID	Location	Start (time)	End (time)	Start Flow Rate (L/min)	End Flow Rate (L/min)	Result (Fibres/Fields)	Result (Fibres/mL)
24-Ma0056249	DI457105	AC106	NE OF 1X	7:00	14:59	2.0	2.0	0/100	< 0.01
24-Ma0056250	DI457185	AC025	NW OF 1X	7:01	15:01	2.0	2.0	0/100	< 0.01
24-Ma0056251	DI456985	AC094	SW OF 1X	7:02	15:02	2.0	2.0	0/100	< 0.01
24-Ma0056252	DI457180	AC193	SE OF 1X	7:05	15:04	2.0	2.0	0/100	< 0.01
24-Ma0056253	DI457188	--	BLANK	--	--	--	--	0/100	--

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-8010	Sydney	Mar 22, 2024	Indefinite

eurofins

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
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
NATA# 2377
Site# 2370

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland	Auckland (Asb)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,
Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: ALDINGTON-AMR
Project ID: 66105

Order No.:
Report #: 1080988
Phone: 02 8245 0300
Fax:

Received: Mar 22, 2024 6:30 PM
Due: Mar 22, 2024
Priority: Same day
Contact Name: Samuel Knott

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos Fibre Count & Concentration
Sydney Laboratory - NATA # 1261 Site # 18217						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	DI457105	Mar 22, 2024	7:00AM	Air	S24-Ma0056249	X
2	DI457185	Mar 22, 2024	7:01AM	Air	S24-Ma0056250	X
3	DI456985	Mar 22, 2024	7:03AM	Air	S24-Ma0056251	X
4	DI457180	Mar 22, 2024	7:05AM	Air	S24-Ma0056252	X
5	DI457188	Mar 22, 2024		Air	S24-Ma0056253	X
Test Counts						5

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**). This estimate is not NATA-accredited.
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

Volume Measurement : MASSIMO CHAPMAN, JBS & G Australia (NSW) P/L, has been trained by Eurofins and they conducted the sampling in accordance with the National Occupational Health & Safety Commission - Guidance Note on The Membrane Filter Method For Estimating Airborne Asbestos Fibres 2nd Edition [NOHSC:3003(2005)]methodology. Sampling pumps used by JBS & G Australia (NSW) P/L were calibrated by Eurofins Environment Testing and therefore volume measurements contained in this report are traceable back to Eurofins Environment Testing. Eurofins Environment Testing are responsible for all data contained in this report.

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:

Md Mozibur Rahman	Senior Analyst-Asbestos

Authorised by:

Laxman Dias	Senior Analyst-Asbestos

Glenn Jackson
Managing Director

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.

26 March 2024

Ahmad Ghalayini
Frasers Property Pty Ltd
Via email: ahmad.ghalayini@frasersproperty.com.au

AMR005: Airborne Asbestos Fibre Monitoring Report
Edge South Development, 199 Aldington Road, Kemps Creek NSW

Dear Ahmad,

Please find as **Attachment 1**, the airborne asbestos fibre monitoring results for the works undertaken at the Edge South Development, located at 199 Aldington Road, Kemps Creek, NSW (the site) on **Monday 25 March 2024.**

All air monitoring was completed in accordance with the *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres* [NOHSC: 3003(2005)], with NATA certification applying to all sample collection, handling and analytical procedures.

All reported results were satisfactory and conform with the minimum action level of 0.01 fibres /mL for control monitoring as outlined in:

- Work, Health and Safety (2017) Regulation; and
- Safework NSW (2022) Code of Practice – *How to Safely Remove Asbestos.*

If you have any questions regarding these results, please contact the undersigned on 02 8245 0300 or by email sknott@jbsg.com.au.

Yours sincerely:

Sam Knott
Environmental Consultant
JBS&G Australia Pty Ltd

Attachment 1 – Asbestos Air Monitoring Results

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

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:	Samuel Knott
Report	1081384-AFC
Project Name	ALDINGTON-AMR
Project ID	66105
Received Date	Mar 25, 2024
Date Reported	Mar 25, 2024

METHODOLOGY:

Asbestos Sampling	Sampling as per the National Occupational Health & Safety Commission – Guidance Note on The Membrane Filter Method For Estimating Airborne Asbestos Fibres 2nd Edition [NOHSC:3003(2005)] and the NATA Specific Accreditation Criteria, ISO/IEC 17025 Application Document Life Sciences – Annex, Asbestos sampling and testing, Issued: March 2022.
Pump Calibration	Air sampling pump performance has been assessed in accordance with Australian Institute of Occupational Hygiene (AIOH) Technical Paper Air Sampling Pumps: Equipment Calibration Requirements. Pump flow rate measurement equipment (e.g. Field Rotameter) has been calibrated in accordance with AIOH Technical Paper Flow Measurement Equipment: Calibration Requirements.
Asbestos Counting	Fibre counting is conducted in accordance with the National Occupational Health & Safety Commission Guidance Note on the Membrane Filter Method For Estimating Airborne Asbestos Fibres 2nd Edition , [NOHSC:3003(2005)] (MFM) and supplementary work instruction in-house LTM-ASB-8010. Unless specifically noted, analysis is undertaken by approved analysts at the base facility. Fibre counts (Fibres/fields) are covered by the facility's NATA scope of accreditation. The requirements of the NATA Specific Accreditation Criteria, ISO/IEC 17025 Application Document Life Sciences – Annex, Asbestos sampling and testing, Issued: March 2022 are realised.

Project Name ALDINGTON-AMR
Project ID 66105
Date Sampled Mar 25, 2024
Report 1081384-AFC

Eurofins Sample No.	Client Sample ID	Pump ID	Location	Start (time)	End (time)	Start Flow Rate (L/min)	End Flow Rate (L/min)	Result (Fibres/Fields)	Result (Fibres/mL)
24-Ma0060217	DI457191	AC106	NE OF 1B	7:00	15:02	2.0	2.0	0/100	< 0.01
24-Ma0060218	DI457173	AC025	NW OF 1B	7:01	15:04	2.0	2.0	0/100	< 0.01
24-Ma0060219	DI456962	AC094	SW OF 1B	7:03	15:05	2.0	2.0	0/100	< 0.01
24-Ma0060220	DI457172	AC093	SE OF 1B	7:05	15:06	2.0	2.0	0/100	< 0.01
24-Ma0060221	DI457108	--	BLANK	--	--	--	--	0/100	--

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-8010	Sydney	Mar 25, 2024	Indefinite

eurofins

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
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
NATA# 2377
Site# 2370

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland	Auckland (Asb)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,
Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: ALDINGTON-AMR
Project ID: 66105

Order No.:
Report #: 1081384
Phone: 02 8245 0300
Fax:

Received: Mar 25, 2024 4:05 PM
Due: Mar 25, 2024
Priority: Same day
Contact Name: Samuel Knott

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos Fibre Count & Concentration
Sydney Laboratory - NATA # 1261 Site # 18217						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	DI457191	Mar 25, 2024	3:02PM	Air	S24-Ma0060217	X
2	DI457173	Mar 25, 2024	3:04PM	Air	S24-Ma0060218	X
3	DI456962	Mar 25, 2024	3:05PM	Air	S24-Ma0060219	X
4	DI457172	Mar 25, 2024	3:06PM	Air	S24-Ma0060220	X
5	DI457108	Mar 25, 2024		Air	S24-Ma0060221	X
Test Counts						5

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**). This estimate is not NATA-accredited.
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

Volume Measurement : Samuel Knott, JBS & G Australia (NSW) P/L, has been trained by Eurofins and they conducted the sampling in accordance with the National Occupational Health & Safety Commission - Guidance Note on The Membrane Filter Method For Estimating Airborne Asbestos Fibres 2nd Edition [NOHSC:3003(2005)]methodology. Sampling pumps used by JBS & G Australia (NSW) P/L were calibrated by Eurofins Environment Testing and therefore volume measurements contained in this report are traceable back to Eurofins Environment Testing. Eurofins Environment Testing are responsible for all data contained in this report.

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:

Sayeed Abu	Senior Analyst-Asbestos

Glenn Jackson
Managing Director

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.

27 March 2024

Ahmad Ghalayini
Frasers Property Pty Ltd
Via email: ahmad.ghalayini@frasersproperty.com.au

AMR006: Airborne Asbestos Fibre Monitoring Report
Edge South Development, 199 Aldington Road, Kemps Creek NSW

Dear Ahmad,

Please find as **Attachment 1**, the airborne asbestos fibre monitoring results for the works undertaken at the Edge South Development, located at 199 Aldington Road, Kemps Creek, NSW (the site) on **Tuesday 26 March 2024.**

All air monitoring was completed in accordance with the *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres* [NOHSC: 3003(2005)], with NATA certification applying to all sample collection, handling and analytical procedures.

All reported results were satisfactory and conform with the minimum action level of 0.01 fibres /mL for control monitoring as outlined in:

- Work, Health and Safety (2017) Regulation; and
- Safework NSW (2022) Code of Practice – *How to Safely Remove Asbestos.*

If you have any questions regarding these results, please contact the undersigned on 02 8245 0300 or by email sknott@jbsg.com.au.

Yours sincerely:

Sam Knott
Environmental Consultant
JBS&G Australia Pty Ltd

Attachment 1 – Asbestos Air Monitoring Results

Certificate of Analysis

eurofins | 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:	Samuel Knott
Report	1081846-AFC-V2
Project Name	ALDINGTON - AMR
Project ID	66105
Received Date	Mar 26, 2024
Date Reported	Mar 27, 2024

METHODOLOGY:

Asbestos Sampling	Sampling as per the National Occupational Health & Safety Commission – Guidance Note on The Membrane Filter Method For Estimating Airborne Asbestos Fibres 2nd Edition [NOHSC:3003(2005)] and the NATA Specific Accreditation Criteria, ISO/IEC 17025 Application Document Life Sciences – Annex, Asbestos sampling and testing, Issued: March 2022.
Pump Calibration	Air sampling pump performance has been assessed in accordance with Australian Institute of Occupational Hygiene (AIOH) Technical Paper Air Sampling Pumps: Equipment Calibration Requirements. Pump flow rate measurement equipment (e.g. Field Rotameter) has been calibrated in accordance with AIOH Technical Paper Flow Measurement Equipment: Calibration Requirements.
Asbestos Counting	Fibre counting is conducted in accordance with the National Occupational Health & Safety Commission Guidance Note on the Membrane Filter Method For Estimating Airborne Asbestos Fibres 2nd Edition , [NOHSC:3003(2005)] (MFM) and supplementary work instruction in-house LTM-ASB-8010. Unless specifically noted, analysis is undertaken by approved analysts at the base facility. Fibre counts (Fibres/fields) are covered by the facility's NATA scope of accreditation. The requirements of the NATA Specific Accreditation Criteria, ISO/IEC 17025 Application Document Life Sciences – Annex, Asbestos sampling and testing, Issued: March 2022 are realised.

Project Name ALDINGTON - AMR
Project ID 66105
Date Sampled Mar 26, 2024
Report 1081846-AFC-V2

Eurofins Sample No.	Client Sample ID	Pump ID	Location	Start (time)	End (time)	Start Flow Rate (L/min)	End Flow Rate (L/min)	Result (Fibres/Fields)	Result (Fibres/mL)
24-Ma0063217	DI457007	AC106	NE OF 1B	7:03	15:05	2.0	2.0	0/100	< 0.01
24-Ma0063218	DI456857	AC094	NW OF 1B	7:05	15:07	2.0	2.0	0/100	< 0.01
24-Ma0063219	DI456849	AC025	SE OF 1B	7:06	15:09	2.0	2.0	0/100	< 0.01
24-Ma0063220	DI456905	AC093	SW OF 1B	7:07	15:10	2.0	2.0	0/100	< 0.01
24-Ma0063221	DI457067	--	BLANK	--	--	--	--	0/100	--

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-8010	Sydney	Mar 26, 2024	Indefinite

eurofins

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
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
NATA# 2377
Site# 2370

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland	Auckland (Asb)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,
Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: ALDINGTON - AMR
Project ID: 66105

Order No.:
Report #: 1081846
Phone: 02 8245 0300
Fax:

Received: Mar 26, 2024 5:50 PM
Due: Mar 26, 2024
Priority: Same day
Contact Name: Samuel Knott

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos Fibre Count & Concentration
Sydney Laboratory - NATA # 1261 Site # 18217						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	DI457007	Mar 26, 2024	7:03AM	Air	S24-Ma0063217	X
2	DI456857	Mar 26, 2024	7:05AM	Air	S24-Ma0063218	X
3	DI456849	Mar 26, 2024	7:06AM	Air	S24-Ma0063219	X
4	DI456905	Mar 26, 2024	7:07AM	Air	S24-Ma0063220	X
5	DI457067	Mar 26, 2024		Air	S24-Ma0063221	X
Test Counts						5

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**). This estimate is not NATA-accredited.
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

Volume Measurement : Samuel Knott, JBS & G Australia (NSW) P/L, has been trained by Eurofins and they conducted the sampling in accordance with the National Occupational Health & Safety Commission - Guidance Note on The Membrane Filter Method For Estimating Airborne Asbestos Fibres 2nd Edition [NOHSC:3003(2005)]methodology. Sampling pumps used by JBS & G Australia (NSW) P/L were calibrated by Eurofins Environment Testing and therefore volume measurements contained in this report are traceable back to Eurofins Environment Testing. Eurofins Environment Testing are responsible for all data contained in this report.

V2- new version to amend to air concentration on Ma0063220 that originally had a mistaken pump out of calibration indentification.

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:

Geronimo Jr Abrot	Senior Analyst-Asbestos

Authorised by:

Sayeed Abu	Senior Analyst-Asbestos

Glenn Jackson
Managing Director

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.

2 April 2024

Ahmad Ghalayini
Frasers Property Pty Ltd
Via email: ahmad.ghalayini@frasersproperty.com.au

AMR007: Airborne Asbestos Fibre Monitoring Report
Edge South Development, 199 Aldington Road, Kemps Creek NSW

Dear Ahmad,

Please find as **Attachment 1**, the airborne asbestos fibre monitoring results for the works undertaken at the Edge South Development, located at 199 Aldington Road, Kemps Creek, NSW (the site) on **Thursday 28 March 2024.**

All air monitoring was completed in accordance with the *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres* [NOHSC: 3003(2005)], with NATA certification applying to all sample collection, handling and analytical procedures.

All reported results were satisfactory and conform with the minimum action level of 0.01 fibres /mL for control monitoring as outlined in:

- Work, Health and Safety (2017) Regulation; and
- Safework NSW (2022) Code of Practice – *How to Safely Remove Asbestos.*

If you have any questions regarding these results, please contact the undersigned on 02 8245 0300 or by email sknott@jbsg.com.au.

Yours sincerely:

Sam Knott
Environmental Consultant
JBS&G Australia Pty Ltd

Attachment 1 – Asbestos Air Monitoring Results

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

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:	Samuel Knott
Report	1082854-AFC
Project Name	ALDINGTON - AMR
Project ID	66105
Received Date	Mar 28, 2024
Date Reported	Mar 28, 2024

METHODOLOGY:

Asbestos Sampling	Sampling as per the National Occupational Health & Safety Commission – Guidance Note on The Membrane Filter Method For Estimating Airborne Asbestos Fibres 2nd Edition [NOHSC:3003(2005)] and the NATA Specific Accreditation Criteria, ISO/IEC 17025 Application Document Life Sciences – Annex, Asbestos sampling and testing, Issued: March 2022.
Pump Calibration	Air sampling pump performance has been assessed in accordance with Australian Institute of Occupational Hygiene (AIOH) Technical Paper Air Sampling Pumps: Equipment Calibration Requirements. Pump flow rate measurement equipment (e.g. Field Rotameter) has been calibrated in accordance with AIOH Technical Paper Flow Measurement Equipment: Calibration Requirements.
Asbestos Counting	Fibre counting is conducted in accordance with the National Occupational Health & Safety Commission Guidance Note on the Membrane Filter Method For Estimating Airborne Asbestos Fibres 2nd Edition , [NOHSC:3003(2005)] (MFM) and supplementary work instruction in-house LTM-ASB-8010. Unless specifically noted, analysis is undertaken by approved analysts at the base facility. Fibre counts (Fibres/fields) are covered by the facility's NATA scope of accreditation. The requirements of the NATA Specific Accreditation Criteria, ISO/IEC 17025 Application Document Life Sciences – Annex, Asbestos sampling and testing, Issued: March 2022 are realised.

Project Name ALDINGTON - AMR
Project ID 66105
Date Sampled Mar 28, 2024
Report 1082854-AFC

Eurofins Sample No.	Client Sample ID	Pump ID	Location	Start (time)	End (time)	Start Flow Rate (L/min)	End Flow Rate (L/min)	Result (Fibres/Fields)	Result (Fibres/mL)
24-Ma0070148	DI456870	AC106	NE OF 1E	7:01	14:00	2.0	2.0	0/100	< 0.01
24-Ma0070149	DI456975	AC094	NW OF 1E	7:03	14:01	2.0	2.0	0/100	< 0.01
24-Ma0070150	DI457359	AC025	SE OF 1E	7:04	14:03	2.0	2.0	2/100	< 0.01
24-Ma0070151	DI456878	AC093	SW OF 1E	7:06	14:05	2.0	2.0	0/100	< 0.01
24-Ma0070152	DI456867	--	BLANK	--	--	--	--	0/100	--

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-8010	Sydney	Mar 28, 2024	Indefinite

eurofins

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
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
NATA# 2377
Site# 2370

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland	Auckland (Asb)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,
Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: ALDINGTON - AMR
Project ID: 66105

Order No.:
Report #: 1082854
Phone: 02 8245 0300
Fax:

Received: Mar 28, 2024 6:50 PM
Due: Mar 28, 2024
Priority: Same day
Contact Name: Samuel Knott

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos Fibre Count & Concentration
Sydney Laboratory - NATA # 1261 Site # 18217						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	DI456870	Mar 28, 2024	7:01AM	Air	S24-Ma0070148	X
2	DI456975	Mar 28, 2024	7:03AM	Air	S24-Ma0070149	X
3	DI457359	Mar 28, 2024	7:04AM	Air	S24-Ma0070150	X
4	DI456878	Mar 28, 2024	7:06AM	Air	S24-Ma0070151	X
5	DI456867	Mar 28, 2024		Air	S24-Ma0070152	X
Test Counts						5

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**). This estimate is not NATA-accredited.
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

Volume Measurement : Samuel Knott, JBS & G Australia (NSW) P/L, has been trained by Eurofins and they conducted the sampling in accordance with the National Occupational Health & Safety Commission - Guidance Note on The Membrane Filter Method For Estimating Airborne Asbestos Fibres 2nd Edition [NOHSC:3003(2005)]methodology. Sampling pumps used by JBS & G Australia (NSW) P/L were calibrated by Eurofins Environment Testing and therefore volume measurements contained in this report are traceable back to Eurofins Environment Testing. Eurofins Environment Testing are responsible for all data contained in this report.

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:

Bennel Jiri	Senior Analyst-Asbestos

Authorised by:

Sayeed Abu	Senior Analyst-Asbestos

Glenn Jackson
Managing Director

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.

5 April 2024

Ahmad Ghalayini
Frasers Property Pty Ltd
Via email: ahmad.ghalayini@frasersproperty.com.au

AMR008: Airborne Asbestos Fibre Monitoring Report
Edge South Development, 199 Aldington Road, Kemps Creek NSW

Dear Ahmad,

Please find as **Attachment 1**, the airborne asbestos fibre monitoring results for the works undertaken at the Edge South Development, located at 199 Aldington Road, Kemps Creek, NSW (the site) on **Wednesday 3 April 2024.**

All air monitoring was completed in accordance with the *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres* [NOHSC: 3003(2005)], with NATA certification applying to all sample collection, handling and analytical procedures.

All reported results were satisfactory and conform with the minimum action level of 0.01 fibres /mL for control monitoring as outlined in:

- Work, Health and Safety (2017) Regulation; and
- Safework NSW (2022) Code of Practice – *How to Safely Remove Asbestos.*

If you have any questions regarding these results, please contact the undersigned on 02 8245 0300 or by email sknott@jbsg.com.au.

Yours sincerely:

Sam Knott
Environmental Consultant
JBS&G Australia Pty Ltd

Attachment 1 – Asbestos Air Monitoring Results

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

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:	Samuel Knott
Report	1083669-AFC
Project Name	ALDINGTON-AMR
Project ID	66105
Received Date	Apr 03, 2024
Date Reported	Apr 03, 2024

METHODOLOGY:

Asbestos Sampling	Sampling as per the National Occupational Health & Safety Commission – Guidance Note on The Membrane Filter Method For Estimating Airborne Asbestos Fibres 2nd Edition [NOHSC:3003(2005)] and the NATA Specific Accreditation Criteria, ISO/IEC 17025 Application Document Life Sciences – Annex, Asbestos sampling and testing, Issued: March 2022.
Pump Calibration	Air sampling pump performance has been assessed in accordance with Australian Institute of Occupational Hygiene (AIOH) Technical Paper Air Sampling Pumps: Equipment Calibration Requirements. Pump flow rate measurement equipment (e.g. Field Rotameter) has been calibrated in accordance with AIOH Technical Paper Flow Measurement Equipment: Calibration Requirements.
Asbestos Counting	Fibre counting is conducted in accordance with the National Occupational Health & Safety Commission Guidance Note on the Membrane Filter Method For Estimating Airborne Asbestos Fibres 2nd Edition , [NOHSC:3003(2005)] (MFM) and supplementary work instruction in-house LTM-ASB-8010. Unless specifically noted, analysis is undertaken by approved analysts at the base facility. Fibre counts (Fibres/fields) are covered by the facility's NATA scope of accreditation. The requirements of the NATA Specific Accreditation Criteria, ISO/IEC 17025 Application Document Life Sciences – Annex, Asbestos sampling and testing, Issued: March 2022 are realised.

Project Name ALDINGTON-AMR
Project ID 66105
Date Sampled Apr 03, 2024
Report 1083669-AFC

Eurofins Sample No.	Client Sample ID	Pump ID	Location	Start (time)	End (time)	Start Flow Rate (L/min)	End Flow Rate (L/min)	Result (Fibres/Fields)	Result (Fibres/mL)
24-Ap0004540	DI483003	AC208	NE OF 6C	7:10	11:09	2.0	2.0	0/100	< 0.01
24-Ap0004541	DI483011	AC106	NW OF 6C	7:11	11:11	2.0	2.0	0/100	< 0.01
24-Ap0004542	DI483012	AC094	SE OF 6C	7:13	11:14	2.0	2.0	0/100	< 0.01
24-Ap0004543	DI483029	AC025	SW OF 6C	7:14	11:15	2.0	2.0	0/100	< 0.01
24-Ap0004544	DI482997	--	BLANK	--	--	--	--	0/100	--

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-8010	Sydney	Apr 03, 2024	Indefinite

eurofins

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
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
NATA# 2377
Site# 2370

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland	Auckland (Asb)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,
Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: ALDINGTON-AMR
Project ID: 66105

Order No.:
Report #: 1083669
Phone: 02 8245 0300
Fax:

Received: Apr 3, 2024 4:56 PM
Due: Apr 3, 2024
Priority: Same day
Contact Name: Samuel Knott

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos Fibre Count & Concentration
Sydney Laboratory - NATA # 1261 Site # 18217						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	DI483003	Apr 03, 2024	7:10AM	Air	S24-Ap0004540	X
2	DI483011	Apr 03, 2024	7:11AM	Air	S24-Ap0004541	X
3	DI483012	Apr 03, 2024	7:13AM	Air	S24-Ap0004542	X
4	DI483029	Apr 03, 2024	7:14AM	Air	S24-Ap0004543	X
5	DI482997	Apr 03, 2024		Air	S24-Ap0004544	X
Test Counts						5

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**). This estimate is not NATA-accredited.
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

Volume Measurement : SAMUEL KNOTT, JBS & G Australia (NSW) P/L, has been trained by Eurofins and they conducted the sampling in accordance with the National Occupational Health & Safety Commission - Guidance Note on The Membrane Filter Method For Estimating Airborne Asbestos Fibres 2nd Edition [NOHSC:3003(2005)]methodology. Sampling pumps used by JBS & G Australia (NSW) P/L were calibrated by Eurofins Environment Testing and therefore volume measurements contained in this report are traceable back to Eurofins Environment Testing. Eurofins Environment Testing are responsible for all data contained in this report.

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:

Geronimo Jr Abrot	Senior Analyst-Asbestos

Authorised by:

Sayeed Abu	Senior Analyst-Asbestos

Glenn Jackson
Managing Director

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.

10 April 2024

Ahmad Ghalayini
Frasers Property Pty Ltd
Via email: ahmad.ghalayini@frasersproperty.com.au

AMR009: Airborne Asbestos Fibre Monitoring Report
Edge South Development, 199 Aldington Road, Kemps Creek NSW

Dear Ahmad,

Please find as **Attachment 1**, the airborne asbestos fibre monitoring results for the works undertaken at the Edge South Development, located at 199 Aldington Road, Kemps Creek, NSW (the site) on **Tuesday 9 April 2024.**

All air monitoring was completed in accordance with the *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres* [NOHSC: 3003(2005)], with NATA certification applying to all sample collection, handling and analytical procedures.

All reported results were satisfactory and conform with the minimum action level of 0.01 fibres /mL for control monitoring as outlined in:

- Work, Health and Safety (2017) Regulation; and
- Safework NSW (2022) Code of Practice – *How to Safely Remove Asbestos.*

If you have any questions regarding these results, please contact the undersigned on 02 8245 0300 or by email sknott@jbsg.com.au.

Yours sincerely:

Sam Knott
Environmental Consultant
JBS&G Australia Pty Ltd

Attachment 1 – Asbestos Air Monitoring Results

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

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:	Samuel Knott
Report	1085652-AFC
Project Name	ALDINGTON-AMR
Project ID	66105
Received Date	Apr 09, 2024
Date Reported	Apr 09, 2024

METHODOLOGY:

Asbestos Sampling	Sampling as per the National Occupational Health & Safety Commission – Guidance Note on The Membrane Filter Method For Estimating Airborne Asbestos Fibres 2nd Edition [NOHSC:3003(2005)] and the NATA Specific Accreditation Criteria, ISO/IEC 17025 Application Document Life Sciences – Annex, Asbestos sampling and testing, Issued: March 2022.
Pump Calibration	Air sampling pump performance has been assessed in accordance with Australian Institute of Occupational Hygiene (AIOH) Technical Paper Air Sampling Pumps: Equipment Calibration Requirements. Pump flow rate measurement equipment (e.g. Field Rotameter) has been calibrated in accordance with AIOH Technical Paper Flow Measurement Equipment: Calibration Requirements.
Asbestos Counting	Fibre counting is conducted in accordance with the National Occupational Health & Safety Commission Guidance Note on the Membrane Filter Method For Estimating Airborne Asbestos Fibres 2nd Edition , [NOHSC:3003(2005)] (MFM) and supplementary work instruction in-house LTM-ASB-8010. Unless specifically noted, analysis is undertaken by approved analysts at the base facility. Fibre counts (Fibres/fields) are covered by the facility's NATA scope of accreditation. The requirements of the NATA Specific Accreditation Criteria, ISO/IEC 17025 Application Document Life Sciences – Annex, Asbestos sampling and testing, Issued: March 2022 are realised.

Project Name ALDINGTON-AMR
Project ID 66105
Date Sampled Apr 09, 2024
Report 1085652-AFC

Eurofins Sample No.	Client Sample ID	Pump ID	Location	Start (time)	End (time)	Start Flow Rate (L/min)	End Flow Rate (L/min)	Result (Fibres/Fields)	Result (Fibres/mL)
24-Ap0020266	DI456830	AC025	NW OF IB	7:30	12:33	2.0	2.0	0/100	< 0.01
24-Ap0020267	DI456872	AC134	SE OF IB	7:31	12:34	2.0	2.0	0/100	< 0.01
24-Ap0020268	DI456822	AC059	NW OF AREA 66	8:02	12:45	2.0	2.0	0/100	< 0.01
24-Ap0020269	DI456992	AC130	SE OF 66	8:00	12:48	2.0	2.0	0/100	< 0.01
24-Ap0020270	DI457003	AC127	SE OF 1X	8:10	13:12	2.0	2.0	0/100	< 0.01
24-Ap0020271	DI452224	AC074	NW OF 1X	8:12	13:15	2.0	2.0	0/100	< 0.01
24-Ap0020272	DI456909	--	BLANK	--	--	--	--	0/100	--

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-8010	Sydney	Apr 09, 2024	Indefinite

eurofins

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
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
NATA# 2377
Site# 2370

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland	Auckland (Asb)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,
Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: ALDINGTON-AMR
Project ID: 66105

Order No.:
Report #: 1085652
Phone: 02 8245 0300
Fax:

Received: Apr 9, 2024 4:40 PM
Due: Apr 9, 2024
Priority: Same day
Contact Name: Samuel Knott

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos Fibre Count & Concentration
Sydney Laboratory - NATA # 1261 Site # 18217						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	DI456830	Apr 09, 2024	7:30AM	Air	S24-Ap0020266	X
2	DI456872	Apr 09, 2024	7:31AM	Air	S24-Ap0020267	X
3	DI456822	Apr 09, 2024	8:02AM	Air	S24-Ap0020268	X
4	DI456992	Apr 09, 2024	8:00AM	Air	S24-Ap0020269	X
5	DI457003	Apr 09, 2024	8:10AM	Air	S24-Ap0020270	X
6	DI452224	Apr 09, 2024	8:12AM	Air	S24-Ap0020271	X
7	DI456909	Apr 09, 2024		Air	S24-Ap0020272	X
Test Counts						7

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**). This estimate is not NATA-accredited.
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

Volume Measurement : BRENDAN SINCLAIR,SAMUEL KNOTT, JBS & G Australia (NSW) P/L, has been trained by Eurofins and they conducted the sampling in accordance with the National Occupational Health & Safety Commission - Guidance Note on The Membrane Filter Method For Estimating Airborne Asbestos Fibres 2nd Edition [NOHSC:3003(2005)]methodology. Sampling pumps used by JBS & G Australia (NSW) P/L were calibrated by Eurofins Environment Testing and therefore volume measurements contained in this report are traceable back to Eurofins Environment Testing. Eurofins Environment Testing are responsible for all data contained in this report.

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:

Geronimo Jr Abrot	Senior Analyst-Asbestos

Authorised by:

Sayeed Abu	Senior Analyst-Asbestos

Glenn Jackson
Managing Director

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.

Attachment 4 – Photographs

Photograph 1: ground surface clearance on 18 March 2024

Photograph 2: ground surface clearance on 20 March 2024

Photograph 3: ground surface clearance on 22 March 2024

Photograph 4: ground surface clearance on 22 March 2024

Photograph 5: ground surface clearance on 22 March 2024

Photograph 6: ground surface clearance on 26 March 2024

Photograph 7: ground surface clearance on 9 April 2024

Attachment 5 – Laboratory Reports and Chain of Custody Documentation

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 347244

Client Details

Client	JBS & G (NSW & WA) Pty Ltd
Attention	M Chapman, S Knott
Address	Level 1, 50 Margaret St, Sydney, NSW, 2000

Sample Details

Your Reference	**66105 - Aldington_03**
Number of Samples	2 Soil
Date samples received	22/03/2024
Date completed instructions received	22/03/2024

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	26/03/2024
Date of Issue	25/03/2024

NATA Accreditation Number 2901. This document shall not be reproduced except in full.

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		347244-1	347244-2
Your Reference	UNITS	QA01	QA02
Date Sampled		21/03/2024	21/03/2024
Type of sample		Soil	Soil
Date analysed	-	25/03/2024	25/03/2024
Sample mass tested	g	810.19	919.83
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 relative to the sample mass tested) 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.

1 of 1

ENVIRO.

Chain of Custody

JBS&G

PROJECT NO.: 66105	LABORATORY BATCH NO.:
PROJECT NAME: ALDINGTON – 03	SAMPLERS: MASSIMO CAMPANELLA
DATE NEEDED BY: 2DAY TAT.	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) .....@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:
1	QA01	Soil	21/3/24		BAG		X		X	
2	QA02	↓	↓		↓		X		X	

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

Job No: 347249
Date Received: 22/3/24
Time Received: 1620
Received By: KW
Temp: Cool/Ambient
Cooling: Ice/Icepack 20°C
Security: Intact/Broken/None

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: MASSIMO CAMPANELLA DATE: 21/3/24. OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: Katy Wang DATE: 22/3/24 1630 OF: ELS SYD	COOLER SEAL – Yes / No ..... Intact / Broken ..... COOLER TEMP 20 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

© 2011-2019 JBS&G Australia Pty Ltd

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 347529

Client Details

Client	JBS & G (NSW & WA) Pty Ltd
Attention	M Chapman, S Knott
Address	Level 1, 50 Margaret St, Sydney, NSW, 2000

Sample Details

Your Reference	**66105 Aldington_04**
Number of Samples	2 Soil
Date samples received	27/03/2024
Date completed instructions received	27/03/2024

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	28/03/2024
Date of Issue	28/03/2024

NATA Accreditation Number 2901. This document shall not be reproduced except in full.

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		347529-1	347529-2
Your Reference	UNITS	QA03	QA04
Date Sampled		22/03/2024	22/03/2024
Type of sample		Soil	Soil
Date analysed	-	28/03/2024	28/03/2024
Sample mass tested	g	769.61	542.15
Sample Description	-	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
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 relative to the sample mass tested) 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.

1 of 1

Chain of Custody

JBS&G

PROJECT NO.: 66105	LABORATORY BATCH NO.:
PROJECT NAME: ADDINGTON_04	SAMPLERS: MASSIMO CHAPMAN
DATE NEEDED BY: [redacted] (24 HRS)	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) mchapman@jbsg.com.au; (3) swatt@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:
1	QA03	SOIL	22/3		BAG		X		X	
2	04	↓	↓		↓		X		X	

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

ENVIROLAB

Job No: 347529

Date Received: 27/3/24
Time Received: 16:45
Received By: ST
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: MASSIMO CHAPMAN DATE: 26/3/24	CONSIGNMENT NOTE NO.	NAME: Shaun Tolo	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 27/3/24	COOLER TEMP 3 ..... 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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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 347732

Client Details

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

Sample Details

Your Reference	**66105 Aldington-283**
Number of Samples	1 Soil
Date samples received	28/03/2024
Date completed instructions received	28/03/2024

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	02/04/2024
Date of Issue	02/04/2024

NATA Accreditation Number 2901. This document shall not be reproduced except in full.

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		347732-1
Your Reference	UNITS	QA260324
Date Sampled		26/03/2024
Type of sample		Soil
Date analysed	-	02/04/2024
Sample mass tested	g	554.81
Sample Description	-	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
Trace Analysis	-	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected
ACM >7mm Estimation*	g	–
FA and AF Estimation*	g	–
ACM >7mm Estimation*	%(w/w)	<0.01
FA and AF Estimation*#2	%(w/w)	<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 relative to the sample mass tested) 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.

Chain of Custody

JBS&G

PROJECT NO.: 66105	LABORATORY BATCH NO.:
PROJECT NAME: ALDINGTON – 283	SAMPLERS: SK
DATE NEEDED BY: Overnight TAT	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) ....Sknott.....@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

FAST TAT

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
1	QA260324	Soil	26.3		Asbestos Bag		X		X	

ENVIROLAB

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

Job No: 347732
Date Received: 28/3/24
Time Received: 1520
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: Sam Knott DATE: 28.3.24	CONSIGNMENT NOTE NO.	NAME: DATE: 28/3/24 1520	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

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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 348513

Client Details

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

Sample Details

Your Reference	**66105 Aldington-94**
Number of Samples	1 Soil
Date samples received	10/04/2024
Date completed instructions received	10/04/2024

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	11/04/2024
Date of Issue	11/04/2024

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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: Nyovan Moonean
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		348513-1
Your Reference	UNITS	QA240409
Date Sampled		09/04/2024
Type of sample		Soil
Date analysed	-	11/04/2024
Sample mass tested	g	262.21
Sample Description	-	Brown coarse-grained soil,rocks & debris
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected
ACM >7mm Estimation*	g	–
FA and AF Estimation*	g	–
ACM >7mm Estimation*	%(w/w)	<0.01
FA and AF Estimation*#2	%(w/w)	<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 relative to the sample mass tested) 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.

Chain of Custody

JBS&G

PROJECT NO.: 66105	LABORATORY BATCH NO.:
PROJECT NAME: ALDINGTON – 94	SAMPLERS: SK
DATE NEEDED BY: 24 HR TAT	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) ...Sknott.....@jbsg.com.au; (3) ...ckavitmun.....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

Please forward to enviridab (24HR TAT)

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
QA240409	Soil	9.4.24		As Bag				X	

ENVIROLAB

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

Job No: 348513
Date Received: 10/4/24
Time Received: 1510
Received By: JL
Temp: Cool/Ambient
Cooling: Icepack
Security: Intact/Broken/None

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Sam Knott DATE: 9.4.24	CONSIGNMENT NOTE NO.	NAME: Pitham Al Smayel DATE:	COOLER SEAL – Yes..... No..... Intact..... Broken.....
OF: JBS&G	TRANSPORT CO.	OF: 4:46 pm	COOLER TEMP 18.2 deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: Duthyan DATE: 10/4/24	COOLER SEAL – Yes..... No..... Intact..... Broken.....
OF:	TRANSPORT CO	OF: ELS 1810	COOLER TEMP 10 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

ANTP.

PROJECT NO.: ALDINGTON_01	LABORATORY BATCH NO.:
PROJECT NAME: 66105	SAMPLERS: MASSIMO CHAPMAN.
DATE NEEDED BY:	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) mchapman@jbsg.com.au; (3) sknott@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

398_01 run for JB1

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	JB2A.	Heavy metal	TPH/BTEX	PAHs	OCP/PUS	Asbestos.	Phenols	JB1	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
398_01	Soil	18/3/24		1xJAR + BAG + ICE.			X	X	X			X	X			
02													X			
03													X			
04													X			
05													X			
06													X			
07													X			
08													X			
398A_01																
02																
03																
398B_01																
02																
03																
463A_01				1xJ+B+I												
02																
03																
463B_01																
02																

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Massimo Chapman DATE: 19.3.24	CONSIGNMENT NOTE NO.	NAME: DATE: 19/3/24 9:40	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	OF:	COOLER TEMP 8.3 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

1079912

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Chain of Custody

JBS&G

PROJECT NO.: 66105	LABORATORY BATCH NO.:
PROJECT NAME: ALDINGTON_01	SAMPLERS: MASSIMO CHAPMAN.
DATE NEEDED BY:	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) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	JB24 Asbestos	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
463B_03	SOIL	18/3/24		1 x JAR TBAG + ICE					
460A_01									
02									
03									
460B 01									
02									
03									
463_01				1 x BAG				X	
02								X	
03								X	
04								X	
05								X	
06								X	
07								X	
08								X	
09								X	
460_01								X	
02								X	
03								X	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Massimo C. DATE: 19-3-24	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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2 of 3

Chain of Custody

JBS&G

PROJECT NO.: 66105	LABORATORY BATCH NO.:
PROJECT NAME: ALDINGTON - 01	SAMPLERS: MASSIMO LUPPINO
DATE NEEDED BY:	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) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	J02A	TPH/BTEX	Asbestos	BTEX	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
460 - 04	Soil	18/3/24		1x Brown							X	
05											X	
06											X	
07											X	
08											X	
09											X	
10											X	
11											X	
12											X	
13											X	
14											X	
TS/TB.	WATER			2x VIALS TICE.				X				
QC20240318	Soil	18.3.24		Jar + Bag		X					X	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: M.C. DATE: 19.3.24	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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eurofins | Environment Testing

www.eurofins.com.au EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

Eurofins ARL Pty Ltd

ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
NATA# 2377
Site# 2370

Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

Auckland	Auckland (Asb)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,
Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Massimo Chapman
Project name:	ALDINGTON_01
Project ID:	66105
Turnaround time:	5 Day
Date/Time received	Mar 19, 2024 4:40 PM
Eurofins reference	1079912

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 : 8.3 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.
✗	Split sample sent to requested external lab.
✗	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Please confirm TAT. Asbestos bag for sample "463A_03" was mislabeled as "468A_03", logged as per coc.

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 Massimo Chapman - mchapman@jbsg.com.au.

eurofins

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
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
NATA# 2377
Site# 2370

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland	Auckland (Asb)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,
Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: ALDINGTON_01
Project ID: 66105

Order No.:
Report #: 1079912
Phone: 02 8245 0300
Fax:

Received: Mar 19, 2024 4:40 PM
Due: Mar 26, 2024
Priority: 5 Day
Contact Name: Massimo Chapman

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	HOLD	BTEX	Moisture Set	JBS&G Suite 1	BTEX
Melbourne Laboratory - NATA # 1261 Site # 1254										X	
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X
External Laboratory											
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**						
1	398_01	Mar 18, 2024		Soil	S24-Ma0047765				X	X	
2	398_02	Mar 18, 2024		Soil	S24-Ma0047766				X	X	
3	398_03	Mar 18, 2024		Soil	S24-Ma0047767				X	X	
4	398_04	Mar 18, 2024		Soil	S24-Ma0047768				X	X	
5	398_05	Mar 18, 2024		Soil	S24-Ma0047769				X	X	
6	398_06	Mar 18, 2024		Soil	S24-Ma0047770				X	X	
7	398_07	Mar 18, 2024		Soil	S24-Ma0047771				X	X	
8	398_08	Mar 18, 2024		Soil	S24-Ma0047772				X	X	
9	463_01	Mar 18, 2024		Soil	S24-Ma0047773	X					
10	463_02	Mar 18, 2024		Soil	S24-Ma0047774	X					
11	463_03	Mar 18, 2024		Soil	S24-Ma0047775	X					
12	463_04	Mar 18, 2024		Soil	S24-Ma0047776	X					

eurofins

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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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
NATA# 2377
Site# 2370

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland	Auckland (Asb)	Christchurch	Tauranga
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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: ALDINGTON_01
Project ID: 66105

Order No.:
Report #: 1079912
Phone: 02 8245 0300
Fax:

Received: Mar 19, 2024 4:40 PM
Due: Mar 26, 2024
Priority: 5 Day
Contact Name: Massimo Chapman

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	HOLD	BTEX	Moisture Set	JBS&G Suite 1	BTEX
Melbourne Laboratory - NATA # 1261 Site # 1254										X	
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X
13	463_05	Mar 18, 2024		Soil	S24-Ma0047777	X					
14	463_06	Mar 18, 2024		Soil	S24-Ma0047778	X					
15	463_07	Mar 18, 2024		Soil	S24-Ma0047779	X					
16	463_08	Mar 18, 2024		Soil	S24-Ma0047780	X					
17	463_09	Mar 18, 2024		Soil	S24-Ma0047781	X					
18	460_01	Mar 18, 2024		Soil	S24-Ma0047782	X					
19	460_02	Mar 18, 2024		Soil	S24-Ma0047783	X					
20	460_03	Mar 18, 2024		Soil	S24-Ma0047784	X					
21	460_04	Mar 18, 2024		Soil	S24-Ma0047785	X					
22	460_05	Mar 18, 2024		Soil	S24-Ma0047786	X					
23	460_06	Mar 18, 2024		Soil	S24-Ma0047787	X					
24	460_07	Mar 18, 2024		Soil	S24-Ma0047788	X					
25	460_08	Mar 18, 2024		Soil	S24-Ma0047789	X					
26	460_09	Mar 18, 2024		Soil	S24-Ma0047790	X					
27	460_10	Mar 18, 2024		Soil	S24-Ma0047791	X					

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

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Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X
28	460_11	Mar 18, 2024		Soil	S24-Ma0047792	X					
29	460_12	Mar 18, 2024		Soil	S24-Ma0047793	X					
30	460_13	Mar 18, 2024		Soil	S24-Ma0047794	X					
31	460_14	Mar 18, 2024		Soil	S24-Ma0047795	X					
32	TS	Mar 18, 2024		Water	S24-Ma0047796						X
33	TB	Mar 18, 2024		Water	S24-Ma0047797			X			
34	398A_01	Mar 18, 2024		Soil	S24-Ma0047798		X				
35	398A_02	Mar 18, 2024		Soil	S24-Ma0047799		X				
36	398A_03	Mar 18, 2024		Soil	S24-Ma0047800		X				
37	398B_01	Mar 18, 2024		Soil	S24-Ma0047801		X				
38	398B_02	Mar 18, 2024		Soil	S24-Ma0047802		X				
39	398B_03	Mar 18, 2024		Soil	S24-Ma0047803		X				
40	463A_01	Mar 18, 2024		Soil	S24-Ma0047804		X				
41	463A_02	Mar 18, 2024		Soil	S24-Ma0047805		X				
42	463A_03	Mar 18, 2024		Soil	S24-Ma0047806		X				

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Melbourne Laboratory - NATA # 1261 Site # 1254										X	
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X
43	463B_01	Mar 18, 2024		Soil	S24-Ma0047807		X				
44	463B_02	Mar 18, 2024		Soil	S24-Ma0047808		X				
45	463B_03	Mar 18, 2024		Soil	S24-Ma0047809		X				
46	460A_01	Mar 18, 2024		Soil	S24-Ma0047810		X				
47	460A_02	Mar 18, 2024		Soil	S24-Ma0047811		X				
48	460A_03	Mar 18, 2024		Soil	S24-Ma0047812		X				
49	460B_01	Mar 18, 2024		Soil	S24-Ma0047813		X				
50	460B_02	Mar 18, 2024		Soil	S24-Ma0047814		X				
51	460B_03	Mar 18, 2024		Soil	S24-Ma0047815		X				
52	QC20240318	Mar 18, 2024		Soil	S24-Ma0047816		X				
Test Counts						23	19	1	8	8	1

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
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NSW 2000

Attention:	Massimo Chapman
Report	1079912-AID
Project Name	ALDINGTON_01
Project ID	66105
Received Date	Mar 19, 2024
Date Reported	Mar 26, 2024

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 ALDINGTON_01
Project ID 66105
Date Sampled Mar 18, 2024
Report 1079912-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
463_01	24-Ma0047773	Mar 18, 2024	Approximate Sample 598g 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.
463_02	24-Ma0047774	Mar 18, 2024	Approximate Sample 707g 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.
463_03	24-Ma0047775	Mar 18, 2024	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.
463_04	24-Ma0047776	Mar 18, 2024	Approximate Sample 693g 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.
463_05	24-Ma0047777	Mar 18, 2024	Approximate Sample 606g 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.
463_06	24-Ma0047778	Mar 18, 2024	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.
463_07	24-Ma0047779	Mar 18, 2024	Approximate Sample 779g 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.
463_08	24-Ma0047780	Mar 18, 2024	Approximate Sample 788g 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
463_09	24-Ma0047781	Mar 18, 2024	Approximate Sample 660g 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.
460_01	24-Ma0047782	Mar 18, 2024	Approximate Sample 539g 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.
460_02	24-Ma0047783	Mar 18, 2024	Approximate Sample 527g 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.
460_03	24-Ma0047784	Mar 18, 2024	Approximate Sample 559g 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.
460_04	24-Ma0047785	Mar 18, 2024	Approximate Sample 452g 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.
460_05	24-Ma0047786	Mar 18, 2024	Approximate Sample 481g 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.
460_06	24-Ma0047787	Mar 18, 2024	Approximate Sample 598g 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.
460_07	24-Ma0047788	Mar 18, 2024	Approximate Sample 538g 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.
460_08	24-Ma0047789	Mar 18, 2024	Approximate Sample 484g 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.
460_09	24-Ma0047790	Mar 18, 2024	Approximate Sample 547g 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.
460_10	24-Ma0047791	Mar 18, 2024	Approximate Sample 614g 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.
460_11	24-Ma0047792	Mar 18, 2024	Approximate Sample 563g 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.
460_12	24-Ma0047793	Mar 18, 2024	Approximate Sample 445g 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
460_13	24-Ma0047794	Mar 18, 2024	Approximate Sample 703g 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.
460_14	24-Ma0047795	Mar 18, 2024	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.

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, 2024	Indefinite

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web: www.eurofins.com.au
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Melbourne Laboratory - NATA # 1261 Site # 1254											X	
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X
External Laboratory												
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**							
1	398_01	Mar 18, 2024		Soil	S24-Ma0047765			X		X	X	
2	398_02	Mar 18, 2024		Soil	S24-Ma0047766			X		X	X	
3	398_03	Mar 18, 2024		Soil	S24-Ma0047767			X		X	X	
4	398_04	Mar 18, 2024		Soil	S24-Ma0047768			X		X	X	
5	398_05	Mar 18, 2024		Soil	S24-Ma0047769			X		X	X	
6	398_06	Mar 18, 2024		Soil	S24-Ma0047770			X		X	X	
7	398_07	Mar 18, 2024		Soil	S24-Ma0047771			X		X	X	
8	398_08	Mar 18, 2024		Soil	S24-Ma0047772			X		X	X	
9	463_01	Mar 18, 2024		Soil	S24-Ma0047773	X						
10	463_02	Mar 18, 2024		Soil	S24-Ma0047774	X						
11	463_03	Mar 18, 2024		Soil	S24-Ma0047775	X						
12	463_04	Mar 18, 2024		Soil	S24-Ma0047776	X						

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23	460_06	Mar 18, 2024		Soil	S24-Ma0047787	X						
24	460_07	Mar 18, 2024		Soil	S24-Ma0047788	X						
25	460_08	Mar 18, 2024		Soil	S24-Ma0047789	X						
26	460_09	Mar 18, 2024		Soil	S24-Ma0047790	X						
27	460_10	Mar 18, 2024		Soil	S24-Ma0047791	X						

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web: www.eurofins.com.au
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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

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Perth
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
NATA# 2377
Site# 2370

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NZBN: 9429046024954

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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: ALDINGTON_01
Project ID: 66105

Order No.:
Report #: 1079912
Phone: 02 8245 0300
Fax:

Received: Mar 19, 2024 4:40 PM
Due: Mar 26, 2024
Priority: 5 Day
Contact Name: Massimo Chapman

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	HOLD	Phenols (Speciated)	BTEX	Moisture Set	JBS&G Suite 1	BTEX
Melbourne Laboratory - NATA # 1261 Site # 1254											X	
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X
28	460_11	Mar 18, 2024		Soil	S24-Ma0047792	X						
29	460_12	Mar 18, 2024		Soil	S24-Ma0047793	X						
30	460_13	Mar 18, 2024		Soil	S24-Ma0047794	X						
31	460_14	Mar 18, 2024		Soil	S24-Ma0047795	X						
32	TS	Mar 18, 2024		Water	S24-Ma0047796							X
33	TB	Mar 18, 2024		Water	S24-Ma0047797				X			
34	398A_01	Mar 18, 2024		Soil	S24-Ma0047798		X					
35	398A_02	Mar 18, 2024		Soil	S24-Ma0047799		X					
36	398A_03	Mar 18, 2024		Soil	S24-Ma0047800		X					
37	398B_01	Mar 18, 2024		Soil	S24-Ma0047801		X					
38	398B_02	Mar 18, 2024		Soil	S24-Ma0047802		X					
39	398B_03	Mar 18, 2024		Soil	S24-Ma0047803		X					
40	463A_01	Mar 18, 2024		Soil	S24-Ma0047804		X					
41	463A_02	Mar 18, 2024		Soil	S24-Ma0047805		X					
42	463A_03	Mar 18, 2024		Soil	S24-Ma0047806		X					

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
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Project Name: ALDINGTON_01
Project ID: 66105

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Fax:

Received: Mar 19, 2024 4:40 PM
Due: Mar 26, 2024
Priority: 5 Day
Contact Name: Massimo Chapman

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	HOLD	Phenols (Speciated)	BTEX	Moisture Set	JBS&G Suite 1	BTEX
Melbourne Laboratory - NATA # 1261 Site # 1254											X	
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X	X	X	X
43	463B_01	Mar 18, 2024		Soil	S24-Ma0047807		X					
44	463B_02	Mar 18, 2024		Soil	S24-Ma0047808		X					
45	463B_03	Mar 18, 2024		Soil	S24-Ma0047809		X					
46	460A_01	Mar 18, 2024		Soil	S24-Ma0047810		X					
47	460A_02	Mar 18, 2024		Soil	S24-Ma0047811		X					
48	460A_03	Mar 18, 2024		Soil	S24-Ma0047812		X					
49	460B_01	Mar 18, 2024		Soil	S24-Ma0047813		X					
50	460B_02	Mar 18, 2024		Soil	S24-Ma0047814		X					
51	460B_03	Mar 18, 2024		Soil	S24-Ma0047815		X					
52	QC20240318	Mar 18, 2024		Soil	S24-Ma0047816		X					
Test Counts						23	19	8	1	8	8	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**). This estimate is not NATA-accredited.
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

24-Ma0047785, 24-Ma0047786, 24-Ma0047789, 24-Ma0047793: 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	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:

Chamath JHM Annakkage	Senior Analyst-Asbestos

Authorised by:

Laxman Dias	Senior Analyst-Asbestos

Glenn Jackson
Managing Director

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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1 of 2

Chain of Custody

JBS&G

PROJECT NO.: 66105	LABORATORY BATCH NO.:
PROJECT NAME: ALDINGTON - 02	SAMPLERS: MASSIMO CHAPMAN
DATE NEEDED BY: 3 Day TAT	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) .....SKnott.....@jbsg.com.au; (3) ...mchapman.....@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:
1e - 01	SOIL	20/3/24		BAG.		X		X	
02						X			
03						X			
04						X			
05						X			
06						X			
07						X			
08						X			
09						X			
10						X			
11						X			
12						X			
13						X			
14						X			
15						X			
16						X			
17						X			
18						X			
19						X			

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: MASSIMO CHAPMAN DATE: 20/3/24	CONSIGNMENT NOTE NO.	NAME: Matt Knott	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 20/3 6:30pm	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

1080081

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2 of 2

Chain of Custody

JBS&G

PROJECT NO.: 66105	LABORATORY BATCH NO.:
PROJECT NAME: ALDINGTON - 02	SAMPLERS: MASSIMO CHAPMAN
DATE NEEDED BY:	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) .....skraatt.....@jbsg.com.au; (3) .....mchapman.....@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:
1e - 20	SOIL	20/3/24		Bottle		X		X	
↓ 21	↓	↓		↓		X		X	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: MASSIMO CHAPMAN DATE: 20/3/24	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

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Samuel Knott
Project name:	ALDINGTON-02
Project ID:	66105
Turnaround time:	3 Day
Date/Time received	Mar 20, 2024 6:38 PM
Eurofins reference	1080081

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 Samuel Knott - sknott@jbsg.com.au.

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

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Address: Level 1, 50 Margaret St
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NSW 2000

Project Name: ALDINGTON-02
Project ID: 66105

Order No.:
Report #: 1080081
Phone: 02 8245 0300
Fax:

Received: Mar 20, 2024 6:38 PM
Due: Mar 25, 2024
Priority: 3 Day
Contact Name: Samuel Knott

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	1E - 1	Mar 20, 2024		Building Materials	S24-Ma0049133	X
2	1E - 2	Mar 20, 2024		Building Materials	S24-Ma0049134	X
3	1E - 3	Mar 20, 2024		Building Materials	S24-Ma0049135	X
4	1E - 4	Mar 20, 2024		Building Materials	S24-Ma0049136	X
5	1E - 5	Mar 20, 2024		Building Materials	S24-Ma0049137	X
6	1E - 6	Mar 20, 2024		Soil	S24-Ma0049138	X
7	1E - 7	Mar 20, 2024		Soil	S24-Ma0049139	X
8	1E - 8	Mar 20, 2024		Soil	S24-Ma0049140	X
9	1E - 9	Mar 20, 2024		Soil	S24-Ma0049141	X
10	1E - 10	Mar 20, 2024		Soil	S24-Ma0049142	X

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
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+61 8 6253 4444
NATA# 2377
Site# 2370

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland	Auckland (Asb)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,
Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: ALDINGTON-02
Project ID: 66105

Order No.:
Report #: 1080081
Phone: 02 8245 0300
Fax:

Received: Mar 20, 2024 6:38 PM
Due: Mar 25, 2024
Priority: 3 Day
Contact Name: Samuel Knott

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
11	1E - 11	Mar 20, 2024		Soil	S24-Ma0049143	X
12	1E - 12	Mar 20, 2024		Soil	S24-Ma0049144	X
13	1E - 13	Mar 20, 2024		Soil	S24-Ma0049145	X
14	1E - 14	Mar 20, 2024		Soil	S24-Ma0049146	X
15	1E - 15	Mar 20, 2024		Soil	S24-Ma0049147	X
16	1E - 16	Mar 20, 2024		Soil	S24-Ma0049148	X
17	1E - 17	Mar 20, 2024		Soil	S24-Ma0049149	X
18	1E - 18	Mar 20, 2024		Soil	S24-Ma0049150	X
19	1E - 19	Mar 20, 2024		Soil	S24-Ma0049151	X
20	1E - 20	Mar 20, 2024		Soil	S24-Ma0049152	X
21	1E - 21	Mar 20, 2024		Soil	S24-Ma0049153	X
Test Counts						21

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:	Samuel Knott
Report	1080081-AID
Project Name	ALDINGTON-02
Project ID	66105
Received Date	Mar 20, 2024
Date Reported	Mar 25, 2024

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 ALDINGTON-02
Project ID 66105
Date Sampled Mar 20, 2024
Report 1080081-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
1E - 1	24-Ma0049133	Mar 20, 2024	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.
1E - 2	24-Ma0049134	Mar 20, 2024	Approximate Sample 632g 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.
1E - 3	24-Ma0049135	Mar 20, 2024	Approximate Sample 706g 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.
1E - 4	24-Ma0049136	Mar 20, 2024	Approximate Sample 638g 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.
1E - 5	24-Ma0049137	Mar 20, 2024	Approximate Sample 580g 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.
1E - 6	24-Ma0049138	Mar 20, 2024	Approximate Sample 693g Sample consisted of: Brown coarse-grained clayey sandy soil, cement, bitumen like material, organic debris and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
1E - 7	24-Ma0049139	Mar 20, 2024	Approximate Sample 627g Sample consisted of: Brown coarse-grained clayey sandy soil, cement, bitumen like material, organic debris and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
1E - 8	24-Ma0049140	Mar 20, 2024	Approximate Sample 466g 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.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
1E - 9	24-Ma0049141	Mar 20, 2024	Approximate Sample 603g 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.
1E - 10	24-Ma0049142	Mar 20, 2024	Approximate Sample 627g 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.
1E - 11	24-Ma0049143	Mar 20, 2024	Approximate Sample 477g Sample consisted of: Brown fine-grained clayey sandy soil, charcoal, organic debris, and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
1E - 12	24-Ma0049144	Mar 20, 2024	Approximate Sample 617g Sample consisted of: Red-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.
1E - 13	24-Ma0049145	Mar 20, 2024	Approximate Sample 605g Sample consisted of: Red-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.
1E - 14	24-Ma0049146	Mar 20, 2024	Approximate Sample 874g Sample consisted of: Brown fine-grained sandy soil, charcoal, corroded metal, bitumen like material, organic debris and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
1E - 15	24-Ma0049147	Mar 20, 2024	Approximate Sample 684g Sample consisted of: Brown fine-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.
1E - 16	24-Ma0049148	Mar 20, 2024	Approximate Sample 368g 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.
1E - 17	24-Ma0049149	Mar 20, 2024	Approximate Sample 534g 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.
1E - 18	24-Ma0049150	Mar 20, 2024	Approximate Sample 803g 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.
1E - 19	24-Ma0049151	Mar 20, 2024	Approximate Sample 640g Sample consisted of: Brown coarse-grained clayey sandy soil, organic debris and rocks	AF: Chrysotile asbestos detected in compressed fibre cement material. Approximate raw weight of AF = 0.045g* Estimated asbestos content in AF = 0.0045g* Total estimated asbestos concentration in AF = 0.00070% 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
1E - 20	24-Ma0049152	Mar 20, 2024	Approximate Sample 399g Sample consisted of: Brown fine-grained clayey sandy soil, organic debris and rocks	ACM: Chrysotile and amosite asbestos detected in compressed fibre cement material. Approximate raw weight of ACM = 4.3g Total estimated asbestos content in ACM = 0.86g* Total estimated asbestos concentration in ACM = 0.22% w/w* Organic fibre detected. No trace asbestos detected.
1E - 21	24-Ma0049153	Mar 20, 2024	Approximate Sample 533g 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.

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, 2024	Indefinite

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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
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
NATA# 2377
Site# 2370

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland	Auckland (Asb)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,
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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	1E - 1	Mar 20, 2024		Building Materials	S24-Ma0049133	X
2	1E - 2	Mar 20, 2024		Building Materials	S24-Ma0049134	X
3	1E - 3	Mar 20, 2024		Building Materials	S24-Ma0049135	X
4	1E - 4	Mar 20, 2024		Building Materials	S24-Ma0049136	X
5	1E - 5	Mar 20, 2024		Building Materials	S24-Ma0049137	X
6	1E - 6	Mar 20, 2024		Soil	S24-Ma0049138	X
7	1E - 7	Mar 20, 2024		Soil	S24-Ma0049139	X
8	1E - 8	Mar 20, 2024		Soil	S24-Ma0049140	X
9	1E - 9	Mar 20, 2024		Soil	S24-Ma0049141	X
10	1E - 10	Mar 20, 2024		Soil	S24-Ma0049142	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

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
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Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
11	1E - 11	Mar 20, 2024		Soil	S24-Ma0049143	X
12	1E - 12	Mar 20, 2024		Soil	S24-Ma0049144	X
13	1E - 13	Mar 20, 2024		Soil	S24-Ma0049145	X
14	1E - 14	Mar 20, 2024		Soil	S24-Ma0049146	X
15	1E - 15	Mar 20, 2024		Soil	S24-Ma0049147	X
16	1E - 16	Mar 20, 2024		Soil	S24-Ma0049148	X
17	1E - 17	Mar 20, 2024		Soil	S24-Ma0049149	X
18	1E - 18	Mar 20, 2024		Soil	S24-Ma0049150	X
19	1E - 19	Mar 20, 2024		Soil	S24-Ma0049151	X
20	1E - 20	Mar 20, 2024		Soil	S24-Ma0049152	X
21	1E - 21	Mar 20, 2024		Soil	S24-Ma0049153	X
Test Counts						21

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**). This estimate is not NATA-accredited.
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

24-Ma0049140, 24-Ma0049143, 24-Ma0049148, 24-Ma0049152: 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:

Sayeed Abu	Senior Analyst-Asbestos

Authorised by:

Chamath JHM Annakkage	Senior Analyst-Asbestos

Glenn Jackson
Managing Director

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.

1 of 2.

Chain of Custody

JBS&G

PROJECT NO.: 66105
PROJECT NAME: ALDINGTON-03
DATE NEEDED BY: 2 DAY TAT

LABORATORY BATCH NO.:
SAMPLERS: MASSIMO CHADWICK
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) .....Sknott.....@jbsg.com.au; (3) .....mdrapmen.....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos S.	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
1a_01	Soil	21/3/24		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	
15						X		X	
16						X		X	
1b_01						X		X	
02						X		X	
03						X		X	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: MASSIMO CHADWICK DATE: 21/3/24 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: DATE: 22/3/24 (1:50) OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP 22.7 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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1080742

2 of 2.

Chain of Custody

JBS&G

PROJECT NO.: 66105	LABORATORY BATCH NO.:
PROJECT NAME: ALDINGTON - 03	SAMPLERS: MASSIMO CHAPMAN
DATE NEEDED BY: 2 DAY TAT	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) .....S.Smith.....@jbsg.com.au; (3) .....mchapman.....@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:
16-04	Soil	21/3/24		BAG		X		X	
05						X		X	
06						X		X	
07						X		X	
08						X		X	
09						X		X	
10						X		X	
QC01						X		X	
QC02						X		X	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: MASSIMO CHAPMAN DATE: 21/3/24.	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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Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
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Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

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ABN: 91 05 0159 898

Perth
46-48 Banksia Road
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WA 6106
+61 8 6253 4444
NATA# 2377
Site# 2370

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NZBN: 9429046024954

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Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Samuel Knott
Project name:	ALDINGTON-03
Project ID:	66105
Turnaround time:	2 Day
Date/Time received	Mar 22, 2024 11:50 AM
Eurofins reference	1080742

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 : 23.3 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.
✗	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 Samuel Knott - sknott@jbsg.com.au.

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: ALDINGTON-03
Project ID: 66105

Order No.:
Report #: 1080742
Phone: 02 8245 0300
Fax:

Received: Mar 22, 2024 11:50 AM
Due: Mar 26, 2024
Priority: 2 Day
Contact Name: Samuel Knott

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	1A-01	Mar 21, 2024		Soil	S24-Ma0054727	X
2	1A-02	Mar 21, 2024		Soil	S24-Ma0054728	X
3	1A-03	Mar 21, 2024		Soil	S24-Ma0054729	X
4	1A-04	Mar 21, 2024		Soil	S24-Ma0054730	X
5	1A-05	Mar 21, 2024		Soil	S24-Ma0054731	X
6	1A-06	Mar 21, 2024		Soil	S24-Ma0054732	X
7	1A-07	Mar 21, 2024		Soil	S24-Ma0054733	X
8	1A-08	Mar 21, 2024		Soil	S24-Ma0054734	X
9	1A-09	Mar 21, 2024		Soil	S24-Ma0054735	X
10	1A-10	Mar 21, 2024		Soil	S24-Ma0054736	X
11	1A-11	Mar 21, 2024		Soil	S24-Ma0054737	X
12	1A-12	Mar 21, 2024		Soil	S24-Ma0054738	X
13	1A-13	Mar 21, 2024		Soil	S24-Ma0054739	X

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: ALDINGTON-03
Project ID: 66105

Order No.:
Report #: 1080742
Phone: 02 8245 0300
Fax:

Received: Mar 22, 2024 11:50 AM
Due: Mar 26, 2024
Priority: 2 Day
Contact Name: Samuel Knott

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
14	1A-14	Mar 21, 2024		Soil	S24-Ma0054740	X
15	1A-15	Mar 21, 2024		Soil	S24-Ma0054741	X
16	1A-16	Mar 21, 2024		Soil	S24-Ma0054742	X
17	1B-01	Mar 21, 2024		Soil	S24-Ma0054743	X
18	1B-02	Mar 21, 2024		Soil	S24-Ma0054744	X
19	1B-03	Mar 21, 2024		Soil	S24-Ma0054745	X
20	1B-04	Mar 21, 2024		Soil	S24-Ma0054746	X
21	1B-05	Mar 21, 2024		Soil	S24-Ma0054747	X
22	1B-06	Mar 21, 2024		Soil	S24-Ma0054748	X
23	1B-07	Mar 21, 2024		Soil	S24-Ma0054749	X
24	1B-08	Mar 21, 2024		Soil	S24-Ma0054750	X
25	1B-09	Mar 21, 2024		Soil	S24-Ma0054751	X
26	1B-10	Mar 21, 2024		Soil	S24-Ma0054752	X
27	QC01	Mar 21, 2024		Soil	S24-Ma0054753	X
28	QC02	Mar 21, 2024		Soil	S24-Ma0054754	X
Test Counts						28

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention:	Samuel Knott
Report	1080742-AID
Project Name	ALDINGTON-03
Project ID	66105
Received Date	Mar 22, 2024
Date Reported	Mar 26, 2024

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 ALDINGTON-03
Project ID 66105
Date Sampled Mar 21, 2024
Report 1080742-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
1A-01	24-Ma0054727	Mar 21, 2024	Approximate Sample 701g Sample consisted of: Brown coarse-grained soil, organic debris and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
1A-02	24-Ma0054728	Mar 21, 2024	Approximate Sample 667g Sample consisted of: Brown fine-grained clayey soil, cement, organic debris and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
1A-03	24-Ma0054729	Mar 21, 2024	Approximate Sample 540g Sample consisted of: Brown fine-grained clayey soil, cement, organic debris and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
1A-04	24-Ma0054730	Mar 21, 2024	Approximate Sample 566g Sample consisted of: Brown coarse-grained soil, organic debris, cement, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
1A-05	24-Ma0054731	Mar 21, 2024	Approximate Sample 900g 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.
1A-06	24-Ma0054732	Mar 21, 2024	Approximate Sample 550g Sample consisted of: Brown fine-grained clayey soil, cement, organic debris and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
1A-07	24-Ma0054733	Mar 21, 2024	Approximate Sample 720g Sample consisted of: Brown fine-grained clayey soil, cement, brick, organic debris and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
1A-08	24-Ma0054734	Mar 21, 2024	Approximate Sample 620g 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
1A-09	24-Ma0054735	Mar 21, 2024	Approximate Sample 500g Sample consisted of: Brown fine-grained clayey soil, organic debris and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
1A-10	24-Ma0054736	Mar 21, 2024	Approximate Sample 731g 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.
1A-11	24-Ma0054737	Mar 21, 2024	Approximate Sample 500g 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.
1A-12	24-Ma0054738	Mar 21, 2024	Approximate Sample 622g 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.
1A-13	24-Ma0054739	Mar 21, 2024	Approximate Sample 726g 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.
1A-14	24-Ma0054740	Mar 21, 2024	Approximate Sample 706g Sample consisted of: Brown fine-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.
1A-15	24-Ma0054741	Mar 21, 2024	Approximate Sample 725g 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.
1A-16	24-Ma0054742	Mar 21, 2024	Approximate Sample 501g 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.
1B-01	24-Ma0054743	Mar 21, 2024	Approximate Sample 520g 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.
1B-02	24-Ma0054744	Mar 21, 2024	Approximate Sample 500g 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.
1B-03	24-Ma0054745	Mar 21, 2024	Approximate Sample 501g Sample consisted of: Brown fine-grained clayey soil, plant residue, organic debris and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
1B-04	24-Ma0054746	Mar 21, 2024	Approximate Sample 520g Sample consisted of: Brown coarse grained sandy clayey soil, plaster and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
1B-05	24-Ma0054747	Mar 21, 2024	Approximate Sample 722g 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
1B-06	24-Ma0054748	Mar 21, 2024	Approximate Sample 610g 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.
1B-07	24-Ma0054749	Mar 21, 2024	Approximate Sample 700g Sample consisted of: Brown coarse-grained soil, coal, debris and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
1B-08	24-Ma0054750	Mar 21, 2024	Approximate Sample 780g Sample consisted of: Brown coarse-grained soil, plaster, coal, corroded metal and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
1B-09	24-Ma0054751	Mar 21, 2024	Approximate Sample 821g Sample consisted of: Brown coarse-grained soil, coal, plaster, brick, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
1B-10	24-Ma0054752	Mar 21, 2024	Approximate Sample 786g Sample consisted of: Brown coarse-grained soil, plaster, bitumen, coal and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
QC01	24-Ma0054753	Mar 21, 2024	Approximate Sample 752g Sample consisted of: Brown coarse-grained soil, glass, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
QC02	24-Ma0054754	Mar 21, 2024	Approximate Sample 987g Sample consisted of: Brown coarse-grained 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.

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, 2024	Indefinite

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web: www.eurofins.com.au
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Contact Name: Samuel Knott

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	1A-01	Mar 21, 2024		Soil	S24-Ma0054727	X
2	1A-02	Mar 21, 2024		Soil	S24-Ma0054728	X
3	1A-03	Mar 21, 2024		Soil	S24-Ma0054729	X
4	1A-04	Mar 21, 2024		Soil	S24-Ma0054730	X
5	1A-05	Mar 21, 2024		Soil	S24-Ma0054731	X
6	1A-06	Mar 21, 2024		Soil	S24-Ma0054732	X
7	1A-07	Mar 21, 2024		Soil	S24-Ma0054733	X
8	1A-08	Mar 21, 2024		Soil	S24-Ma0054734	X
9	1A-09	Mar 21, 2024		Soil	S24-Ma0054735	X
10	1A-10	Mar 21, 2024		Soil	S24-Ma0054736	X
11	1A-11	Mar 21, 2024		Soil	S24-Ma0054737	X
12	1A-12	Mar 21, 2024		Soil	S24-Ma0054738	X
13	1A-13	Mar 21, 2024		Soil	S24-Ma0054739	X

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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
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+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
NATA# 2377
Site# 2370

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland	Auckland (Asb)	Christchurch	Tauranga
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Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: ALDINGTON-03
Project ID: 66105

Order No.:
Report #: 1080742
Phone: 02 8245 0300
Fax:

Received: Mar 22, 2024 11:50 AM
Due: Mar 26, 2024
Priority: 2 Day
Contact Name: Samuel Knott

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
14	1A-14	Mar 21, 2024		Soil	S24-Ma0054740	X
15	1A-15	Mar 21, 2024		Soil	S24-Ma0054741	X
16	1A-16	Mar 21, 2024		Soil	S24-Ma0054742	X
17	1B-01	Mar 21, 2024		Soil	S24-Ma0054743	X
18	1B-02	Mar 21, 2024		Soil	S24-Ma0054744	X
19	1B-03	Mar 21, 2024		Soil	S24-Ma0054745	X
20	1B-04	Mar 21, 2024		Soil	S24-Ma0054746	X
21	1B-05	Mar 21, 2024		Soil	S24-Ma0054747	X
22	1B-06	Mar 21, 2024		Soil	S24-Ma0054748	X
23	1B-07	Mar 21, 2024		Soil	S24-Ma0054749	X
24	1B-08	Mar 21, 2024		Soil	S24-Ma0054750	X
25	1B-09	Mar 21, 2024		Soil	S24-Ma0054751	X
26	1B-10	Mar 21, 2024		Soil	S24-Ma0054752	X
27	QC01	Mar 21, 2024		Soil	S24-Ma0054753	X
28	QC02	Mar 21, 2024		Soil	S24-Ma0054754	X
Test Counts						28

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**). This estimate is not NATA-accredited.
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	No
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
Managing Director

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

1081006

JBS&G

PROJECT NO.: ALDINGTON 04	LABORATORY BATCH NO.:
PROJECT NAME: 66105	SAMPLERS: MASSIMO CHARMAN
DATE NEEDED BY: 48 HR.	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) .....@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:
1x - 01	SOIL	22/3/24		3502		X		X	
02									
03									
04									
05									
06									
07									
08									
09									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: MASSIMO CHARMAN DATE: 22/3/24	CONSIGNMENT NOTE NO.	NAME: Blakeout	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 6:30 pm	COOLER TEMP ..... deg C N/A
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME:	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

22/3/24

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Chain of Custody

JBS&G

PROJECT NO.: ADDINGTON – 04
PROJECT NAME: 66105
DATE NEEDED BY: 48 HR

LABORATORY BATCH NO.:
SAMPLERS: MASSIMO CHAPMAN.
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) melbourne.....@jbsg.com.au; (3) .....Sknott.....@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:
~~TX~~ – 20	SOIL	22/3/24		BAG.		X		X	
21									
TP07 – E									
S									
W									
N									
B									
BC – 01									
02									
03									
04									
05									
06									
07									
08									
09									
10									
11									
12									

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: MASSIMO CHAPMAN DATE: 22/3/24 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

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Chain of Custody

JBS&G

PROJECT NO.:	LABORATORY BATCH NO.:
PROJECT NAME:	SAMPLERS:
DATE NEEDED BY:	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

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COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	AS bedtops	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
BC - 13	SOIL	22/3/24		PAE		X		X	
↓ 14	↓	↓		↓		↓		↓	
↓ 15									
↓ 16									
QC03									
QC04									

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: MASSIMO DATE: 22/3/24	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G CHASTOMER	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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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

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Welshpool
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NATA# 2377
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+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Massimo Chapman
Project name:	ALDINGTON_04
Project ID:	66105
Turnaround time:	2 Day
Date/Time received	Mar 22, 2024 6:30 PM
Eurofins reference	1081006

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

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 Massimo Chapman - mchapman@jbsg.com.au.

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: ALDINGTON_04
Project ID: 66105

Order No.:
Report #: 1081006
Phone: 02 8245 0300
Fax:

Received: Mar 22, 2024 6:30 PM
Due: Mar 26, 2024
Priority: 2 Day
Contact Name: Massimo Chapman

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	IX_01	Mar 22, 2024		Soil	S24-Ma0056361	X
2	IX_02	Mar 22, 2024		Soil	S24-Ma0056362	X
3	IX_03	Mar 22, 2024		Soil	S24-Ma0056363	X
4	IX_04	Mar 22, 2024		Soil	S24-Ma0056364	X
5	IX_05	Mar 22, 2024		Soil	S24-Ma0056365	X
6	IX_06	Mar 22, 2024		Soil	S24-Ma0056366	X
7	IX_07	Mar 22, 2024		Soil	S24-Ma0056367	X
8	IX_08	Mar 22, 2024		Soil	S24-Ma0056368	X
9	IX_09	Mar 22, 2024		Soil	S24-Ma0056369	X
10	IX_10	Mar 22, 2024		Soil	S24-Ma0056370	X
11	IX_11	Mar 22, 2024		Soil	S24-Ma0056371	X
12	IX_12	Mar 22, 2024		Soil	S24-Ma0056372	X
13	IX_13	Mar 22, 2024		Soil	S24-Ma0056373	X

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
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+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: ALDINGTON_04
Project ID: 66105

Order No.:
Report #: 1081006
Phone: 02 8245 0300
Fax:

Received: Mar 22, 2024 6:30 PM
Due: Mar 26, 2024
Priority: 2 Day
Contact Name: Massimo Chapman

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
14	IX_14	Mar 22, 2024		Soil	S24-Ma0056374	X
15	IX_15	Mar 22, 2024		Soil	S24-Ma0056375	X
16	IX_16	Mar 22, 2024		Soil	S24-Ma0056376	X
17	IX_17	Mar 22, 2024		Soil	S24-Ma0056377	X
18	IX_18	Mar 22, 2024		Soil	S24-Ma0056378	X
19	IX_19	Mar 22, 2024		Soil	S24-Ma0056379	X
20	IX_20	Mar 22, 2024		Soil	S24-Ma0056380	X
21	IX_21	Mar 22, 2024		Soil	S24-Ma0056381	X
22	TP09-E	Mar 22, 2024		Soil	S24-Ma0056382	X
23	TP09-S	Mar 22, 2024		Soil	S24-Ma0056383	X
24	TP09-W	Mar 22, 2024		Soil	S24-Ma0056384	X
25	TP09-N	Mar 22, 2024		Soil	S24-Ma0056385	X
26	TP09-B	Mar 22, 2024		Soil	S24-Ma0056386	X
27	6C_01	Mar 22, 2024		Soil	S24-Ma0056387	X
28	6C_02	Mar 22, 2024		Soil	S24-Ma0056388	X
29	6C_03	Mar 22, 2024		Soil	S24-Ma0056389	X

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
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ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: ALDINGTON_04
Project ID: 66105

Order No.:
Report #: 1081006
Phone: 02 8245 0300
Fax:

Received: Mar 22, 2024 6:30 PM
Due: Mar 26, 2024
Priority: 2 Day
Contact Name: Massimo Chapman

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
30	6C_04	Mar 22, 2024		Soil	S24-Ma0056390	X
31	6C_05	Mar 22, 2024		Soil	S24-Ma0056391	X
32	6C_06	Mar 22, 2024		Soil	S24-Ma0056392	X
33	6C_07	Mar 22, 2024		Soil	S24-Ma0056393	X
34	6C_08	Mar 22, 2024		Soil	S24-Ma0056394	X
35	6C_09	Mar 22, 2024		Soil	S24-Ma0056395	X
36	6C_10	Mar 22, 2024		Soil	S24-Ma0056396	X
37	6C_11	Mar 22, 2024		Soil	S24-Ma0056397	X
38	6C_12	Mar 22, 2024		Soil	S24-Ma0056398	X
39	6C_13	Mar 22, 2024		Soil	S24-Ma0056399	X
40	6C_14	Mar 22, 2024		Soil	S24-Ma0056400	X
41	6C_15	Mar 22, 2024		Soil	S24-Ma0056401	X
42	6C_16	Mar 22, 2024		Soil	S24-Ma0056402	X
43	QC03	Mar 22, 2024		Soil	S24-Ma0056403	X
44	QC04	Mar 22, 2024		Soil	S24-Ma0056404	X
Test Counts						44

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention:	Massimo Chapman
Report	1081006-AID
Project Name	ALDINGTON_04
Project ID	66105
Received Date	Mar 22, 2024
Date Reported	Mar 27, 2024

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 ALDINGTON_04
Project ID 66105
Date Sampled Mar 22, 2024
Report 1081006-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
IX_01	24-Ma0056361	Mar 22, 2024	Approximate Sample 617g Sample consisted of: Brown fine-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.
IX_02	24-Ma0056362	Mar 22, 2024	Approximate Sample 402g / >500ml Sample consisted of: Brown fine-grained clayey sandy soil, plant matter and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
IX_03	24-Ma0056363	Mar 22, 2024	Approximate Sample 756g Sample consisted of: Brown fine-grained clayey sandy soil, plant matter and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Synthetic mineral fibre detected. Organic fibre detected. No trace asbestos detected.
IX_04	24-Ma0056364	Mar 22, 2024	Approximate Sample 652g Sample consisted of: Brown fine-grained clayey sandy soil, plant matter and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
IX_05	24-Ma0056365	Mar 22, 2024	Approximate Sample 732g Sample consisted of: Brown fine-grained clayey sandy soil, plant matter and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
IX_06	24-Ma0056366	Mar 22, 2024	Approximate Sample 700g Sample consisted of: Brown fine-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.
IX_07	24-Ma0056367	Mar 22, 2024	Approximate Sample 522g Sample consisted of: Brown fine-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.
IX_08	24-Ma0056368	Mar 22, 2024	Approximate Sample 494g / >500ml Sample consisted of: Brown fine-grained clayey sandy soil, plant matter 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
IX_09	24-Ma0056369	Mar 22, 2024	Approximate Sample 570g Sample consisted of: Brown fine-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.
IX_10	24-Ma0056370	Mar 22, 2024	Approximate Sample 518g 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.
IX_11	24-Ma0056371	Mar 22, 2024	Approximate Sample 450g / >500ml 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.
IX_12	24-Ma0056372	Mar 22, 2024	Approximate Sample 420g / >500ml Sample consisted of: Brown fine-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.
IX_13	24-Ma0056373	Mar 22, 2024	Approximate Sample 311g / >500ml Sample consisted of: Brown fine-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.
IX_14	24-Ma0056374	Mar 22, 2024	Approximate Sample 487g / >500ml Sample consisted of: Brown fine-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.
IX_15	24-Ma0056375	Mar 22, 2024	Approximate Sample 559g 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.
IX_16	24-Ma0056376	Mar 22, 2024	Approximate Sample 524g Sample consisted of: Brown fine-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.
IX_17	24-Ma0056377	Mar 22, 2024	Approximate Sample 346g / >500ml Sample consisted of: Brown fine-grained clayey sandy soil, plant matter and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
IX_18	24-Ma0056378	Mar 22, 2024	Approximate Sample 483g / >500ml 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.
IX_19	24-Ma0056379	Mar 22, 2024	Approximate Sample 568g Sample consisted of: Brown fine-grained clayey sandy soil, plant matter and rocks	FA: Chrysotile asbestos detected in weathered fibre cement material. Approximate raw weight of FA = 0.019g Estimated asbestos content in FA = 0.0056g* Total estimated asbestos concentration in FA = 0.00099% 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
IX_20	24-Ma0056380	Mar 22, 2024	Approximate Sample 598g 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.
IX_21	24-Ma0056381	Mar 22, 2024	Approximate Sample 599g 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.
TP09-E	24-Ma0056382	Mar 22, 2024	Approximate Sample 760g Sample consisted of: Brown fine-grained clayey sandy soil, sand stone, bitumen like material and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP09-S	24-Ma0056383	Mar 22, 2024	Approximate Sample 501g 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.
TP09-W	24-Ma0056384	Mar 22, 2024	Approximate Sample 621g 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.
TP09-N	24-Ma0056385	Mar 22, 2024	Approximate Sample 595g 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.
TP09-B	24-Ma0056386	Mar 22, 2024	Approximate Sample 618g 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.
6C_01	24-Ma0056387	Mar 22, 2024	Approximate Sample 765g Sample consisted of: Black fine-grained clayey sandy soil, bitumen like material and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
6C_02	24-Ma0056388	Mar 22, 2024	Approximate Sample 567g Sample consisted of: Black fine-grained clayey sandy soil, organic debris, bitumen like material and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
6C_03	24-Ma0056389	Mar 22, 2024	Approximate Sample 599g 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.
6C_04	24-Ma0056390	Mar 22, 2024	Approximate Sample 544g 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.
6C_05	24-Ma0056391	Mar 22, 2024	Approximate Sample 529g Sample consisted of: Grey coarse-grained clayey sandy soil, sand stone, organic debris and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
6C_06	24-Ma0056392	Mar 22, 2024	Approximate Sample 542g Sample consisted of: Brown fine-grained clayey sandy soil, plant matter 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
6C_07	24-Ma0056393	Mar 22, 2024	Approximate Sample 681g Sample consisted of: Red-Brown coarse-grained clayey soil and rocks	AF: Chrysotile asbestos detected in the form of loose fibre bundles. Approximate raw weight of AF = 0.94g* Estimated asbestos content in AF = 0.90g* Total estimated asbestos concentration in AF = 0.13% w/w* Organic fibre detected. No trace asbestos detected.
6C_08	24-Ma0056394	Mar 22, 2024	Approximate Sample 825g Sample consisted of: Brown fine-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.
6C_09	24-Ma0056395	Mar 22, 2024	Approximate Sample 604g Sample consisted of: Brown fine-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.
6C_10	24-Ma0056396	Mar 22, 2024	Approximate Sample 831g Sample consisted of: Black fine-grained clayey sandy soil, bitumen like material and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
6C_11	24-Ma0056397	Mar 22, 2024	Approximate Sample 540g Sample consisted of: Brown fine-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.
6C_12	24-Ma0056398	Mar 22, 2024	Approximate Sample 630g 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.
6C_13	24-Ma0056399	Mar 22, 2024	Approximate Sample 720g Sample consisted of: Brown fine-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.
6C_14	24-Ma0056400	Mar 22, 2024	Approximate Sample 849g Sample consisted of: Brown fine-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.
6C_15	24-Ma0056401	Mar 22, 2024	Approximate Sample 487g / >500ml 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.
6C_16	24-Ma0056402	Mar 22, 2024	Approximate Sample 500g Sample consisted of: Brown fine-grained 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.
QC03	24-Ma0056403	Mar 22, 2024	Approximate Sample 592g 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.
QC04	24-Ma0056404	Mar 22, 2024	Approximate Sample 843g Sample consisted of: Black fine-grained clayey sandy soil, bitumen like material 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, 2024	Indefinite

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

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Sydney Laboratory - NATA # 1261 Site # 18217						X
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	IX_01	Mar 22, 2024		Soil	S24-Ma0056361	X
2	IX_02	Mar 22, 2024		Soil	S24-Ma0056362	X
3	IX_03	Mar 22, 2024		Soil	S24-Ma0056363	X
4	IX_04	Mar 22, 2024		Soil	S24-Ma0056364	X
5	IX_05	Mar 22, 2024		Soil	S24-Ma0056365	X
6	IX_06	Mar 22, 2024		Soil	S24-Ma0056366	X
7	IX_07	Mar 22, 2024		Soil	S24-Ma0056367	X
8	IX_08	Mar 22, 2024		Soil	S24-Ma0056368	X
9	IX_09	Mar 22, 2024		Soil	S24-Ma0056369	X
10	IX_10	Mar 22, 2024		Soil	S24-Ma0056370	X
11	IX_11	Mar 22, 2024		Soil	S24-Ma0056371	X
12	IX_12	Mar 22, 2024		Soil	S24-Ma0056372	X
13	IX_13	Mar 22, 2024		Soil	S24-Ma0056373	X

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web: www.eurofins.com.au
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Sydney Laboratory - NATA # 1261 Site # 18217						X
14	IX_14	Mar 22, 2024		Soil	S24-Ma0056374	X
15	IX_15	Mar 22, 2024		Soil	S24-Ma0056375	X
16	IX_16	Mar 22, 2024		Soil	S24-Ma0056376	X
17	IX_17	Mar 22, 2024		Soil	S24-Ma0056377	X
18	IX_18	Mar 22, 2024		Soil	S24-Ma0056378	X
19	IX_19	Mar 22, 2024		Soil	S24-Ma0056379	X
20	IX_20	Mar 22, 2024		Soil	S24-Ma0056380	X
21	IX_21	Mar 22, 2024		Soil	S24-Ma0056381	X
22	TP09-E	Mar 22, 2024		Soil	S24-Ma0056382	X
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Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: ALDINGTON_04
Project ID: 66105

Order No.:
Report #: 1081006
Phone: 02 8245 0300
Fax:

Received: Mar 22, 2024 6:30 PM
Due: Mar 26, 2024
Priority: 2 Day
Contact Name: Massimo Chapman

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines
Sydney Laboratory - NATA # 1261 Site # 18217						X
30	6C_04	Mar 22, 2024		Soil	S24-Ma0056390	X
31	6C_05	Mar 22, 2024		Soil	S24-Ma0056391	X
32	6C_06	Mar 22, 2024		Soil	S24-Ma0056392	X
33	6C_07	Mar 22, 2024		Soil	S24-Ma0056393	X
34	6C_08	Mar 22, 2024		Soil	S24-Ma0056394	X
35	6C_09	Mar 22, 2024		Soil	S24-Ma0056395	X
36	6C_10	Mar 22, 2024		Soil	S24-Ma0056396	X
37	6C_11	Mar 22, 2024		Soil	S24-Ma0056397	X
38	6C_12	Mar 22, 2024		Soil	S24-Ma0056398	X
39	6C_13	Mar 22, 2024		Soil	S24-Ma0056399	X
40	6C_14	Mar 22, 2024		Soil	S24-Ma0056400	X
41	6C_15	Mar 22, 2024		Soil	S24-Ma0056401	X
42	6C_16	Mar 22, 2024		Soil	S24-Ma0056402	X
43	QC03	Mar 22, 2024		Soil	S24-Ma0056403	X
44	QC04	Mar 22, 2024		Soil	S24-Ma0056404	X
Test Counts						44

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**). This estimate is not NATA-accredited.
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	N/A
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Asbestos Counter/Identifier:

Sayeed Abu	Senior Analyst-Asbestos

Authorised by:

Laxman Dias	Senior Analyst-Asbestos

Glenn Jackson
Managing Director

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.: 66105	LABORATORY BATCH NO.:
PROJECT NAME: ALDINGTON ROAD	SAMPLERS: SK
DATE NEEDED BY: SAME DAY TAT	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) ....Stenott.....@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

Same Day TAT

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
TB2_01	Soil	25.3.24		ALL BAGS		X		X	
TB2_02	↓	↓				X		X	
TB2_03						X		X	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Sean Knott DATE: 25.3.24 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: DATE: 25/3/24 4:05 OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP 1.5 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

Controlled Copy (June 2015)

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1081385

eurofins | Environment Testing

www.eurofins.com.au EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

Eurofins ARL Pty Ltd

ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
NATA# 2377
Site# 2370

Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

Auckland	Auckland (Asb)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,
Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Samuel Knott
Project name:	ALDINGTON ROAD
Project ID:	66105
Turnaround time:	Overnight
Date/Time received	Mar 25, 2024 4:05 PM
Eurofins reference	1081385

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 : 25.3 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:

Andrew Black on phone : (+61) 2 9900 8490 or by email: AndrewBlack@eurofins.com

Results will be delivered electronically via email to Samuel Knott - sknott@jbsg.com.au.

eurofins

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: ALDINGTON ROAD
Project ID: 66105

Order No.:
Report #: 1081385
Phone: 02 8245 0300
Fax:

Received: Mar 25, 2024 4:05 PM
Due: Mar 26, 2024
Priority: Overnight
Contact Name: Samuel Knott

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	1B2 _01	Mar 25, 2024		Soil	S24-Ma0060222	X
2	1B2 _02	Mar 25, 2024		Soil	S24-Ma0060223	X
3	1B2 _03	Mar 25, 2024		Soil	S24-Ma0060224	X
Test Counts						3

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:	Samuel Knott
Report	1081385-AID
Project Name	ALDINGTON ROAD
Project ID	66105
Received Date	Mar 25, 2024
Date Reported	Mar 26, 2024

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 ALDINGTON ROAD
Project ID 66105
Date Sampled Mar 25, 2024
Report 1081385-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
1B2 _01	24-Ma0060222	Mar 25, 2024	Approximate Sample 506g Sample consisted of: Red-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.
1B2 _02	24-Ma0060223	Mar 25, 2024	Approximate Sample 577g Sample consisted of: Red-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.
1B2 _03	24-Ma0060224	Mar 25, 2024	Approximate Sample 549g Sample consisted of: Red-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.

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 25, 2024	Indefinite

eurofins

web: www.eurofins.com.au
email: EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd
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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
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Eurofins Analytical Services Manager : Andrew Black

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External Laboratory						
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Test Counts						3

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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.

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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): $\%_{WA} = \sum \frac{(m \times P_A)_x}{x}$

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AS	Australian Standard.
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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

Authorised by:

Laxman Dias	Senior Analyst-Asbestos

Glenn Jackson
Managing Director

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.: 86105	LABORATORY BATCH NO.:
PROJECT NAME: ALDINGTON – UF2	SAMPLERS: SK
DATE NEEDED BY: Same day	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) ....Sknott.....@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

Same day ASAP

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
UF2_B01	Soil	26/3		Bag				X	
UF2_EW1	↓	↓		↓				X	
UF2_EW2								X	
UF2_EW3								X	
UF2_WW1								X	
UF2_WW2								X	
UF2_WW3								X	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Sam Knott DATE: 26·3·24	CONSIGNMENT NOTE NO.	NAME: Elizabeth Brotherton	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: OF: 26/3 11:34am	N/A
NAME: DATE:	CONSIGNMENT NOTE NO.	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

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1681697

eurofins | Environment Testing

www.eurofins.com.au EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

Eurofins ARL Pty Ltd

ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
NATA# 2377
Site# 2370

Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

Auckland	Auckland (Asb)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,
Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Samuel Knott
Project name:	ALDINGTON_UF2
Project ID:	66105
Turnaround time:	Same day
Date/Time received	Mar 26, 2024 11:34 AM
Eurofins reference	1081697

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.
✓	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 Samuel Knott - sknott@jbsg.com.au.

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eurofins

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
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: ALDINGTON_UF2
Project ID: 66105

Order No.:
Report #: 1081697
Phone: 02 8245 0300
Fax:

Received: Mar 26, 2024 11:34 AM
Due: Mar 26, 2024
Priority: Same day
Contact Name: Samuel Knott

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	UF2_B01	Mar 26, 2024		Soil	S24-Ma0062347	X
2	UF2_EW1	Mar 26, 2024		Soil	S24-Ma0062348	X
3	UF2_EW2	Mar 26, 2024		Soil	S24-Ma0062349	X
4	UF2_EW3	Mar 26, 2024		Soil	S24-Ma0062350	X
5	UF2_WW1	Mar 26, 2024		Soil	S24-Ma0062351	X
6	UF2_WW2	Mar 26, 2024		Soil	S24-Ma0062352	X
7	UF2_WW3	Mar 26, 2024		Soil	S24-Ma0062353	X
Test Counts						7

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:	Samuel Knott
Report	1081697-AID
Project Name	ALDINGTON_UF2
Project ID	66105
Received Date	Mar 26, 2024
Date Reported	Mar 28, 2024

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 ALDINGTON_UF2
Project ID 66105
Date Sampled Mar 26, 2024
Report 1081697-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
UF2_B01	24-Ma0062347	Mar 26, 2024	Approximate Sample 544g Sample consisted of: Red- brown coarse-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
UF2_EW1	24-Ma0062348	Mar 26, 2024	Approximate Sample 526g Sample consisted of: Red- brown coarse-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
UF2_EW2	24-Ma0062349	Mar 26, 2024	Approximate Sample 437g Sample consisted of: Red- brown coarse-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
UF2_EW3	24-Ma0062350	Mar 26, 2024	Approximate Sample 507g Sample consisted of: Red- brown coarse-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
UF2_WW1	24-Ma0062351	Mar 26, 2024	Approximate Sample 525g Sample consisted of: Red- brown coarse-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
UF2_WW2	24-Ma0062352	Mar 26, 2024	Approximate Sample 478g Sample consisted of: Red- brown coarse-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
UF2_WW3	24-Ma0062353	Mar 26, 2024	Approximate Sample 553g Sample consisted of: Red- brown coarse-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 26, 2024	Indefinite

eurofins

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
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

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ABN: 91 05 0159 898

Perth
46-48 Banksia Road
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Site# 2370

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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: ALDINGTON_UF2
Project ID: 66105

Order No.:
Report #: 1081697
Phone: 02 8245 0300
Fax:

Received: Mar 26, 2024 11:34 AM
Due: Mar 27, 2024
Priority: 1 Day
Contact Name: Samuel Knott

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	UF2_B01	Mar 26, 2024		Soil	S24-Ma0062347	X
2	UF2_EW1	Mar 26, 2024		Soil	S24-Ma0062348	X
3	UF2_EW2	Mar 26, 2024		Soil	S24-Ma0062349	X
4	UF2_EW3	Mar 26, 2024		Soil	S24-Ma0062350	X
5	UF2_WW1	Mar 26, 2024		Soil	S24-Ma0062351	X
6	UF2_WW2	Mar 26, 2024		Soil	S24-Ma0062352	X
7	UF2_WW3	Mar 26, 2024		Soil	S24-Ma0062353	X
Test Counts						7

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**). This estimate is not NATA-accredited.
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).
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LOR	Limit of Reporting.
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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

24-Ma0062349 and 24-Ma0062352: 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	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

Authorised by:

Chamath JHM Annakkage	Senior Analyst-Asbestos

Glenn Jackson
Managing Director

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.: 66105	LABORATORY BATCH NO.:
PROJECT NAME: Aldington Dr - 263	SAMPLERS: SK
DATE NEEDED BY: Overnight	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) .....SRnott.....@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

Overnight TAT

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
UF2-EW4	Soil	26.3		A. Bag		1		X	
UF2-EW5						2		X	
UF2-WW4						X		X	
UF2-WW5						7		X	
IE-20A						X		X	
IE-2019A						X		X	
QC260324						7		X	
UF1-01						X		X	
UF1-02						X		X	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Sam Knott DATE: 26.3.24	CONSIGNMENT NOTE NO.	NAME: [illegible]	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 26/3/24 5:30	COOLER TEMP 10.4 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

1081847

Controlled Copy (June 2015)
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eurofins | Environment Testing

www.eurofins.com.au EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

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6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

Eurofins ARL Pty Ltd

ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
NATA# 2377
Site# 2370

Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

Auckland	Auckland (Asb)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,
Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Samuel Knott
Project name:	ALDINGTON-263
Project ID:	66105
Turnaround time:	Overnight
Date/Time received	Mar 26, 2024 5:30 PM
Eurofins reference	1081847

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 Samuel Knott - sknott@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

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
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Welshpool
WA 6106
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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: ALDINGTON-263
Project ID: 66105

Order No.:
Report #: 1081847
Phone: 02 8245 0300
Fax:

Received: Mar 26, 2024 5:30 PM
Due: Mar 27, 2024
Priority: Overnight
Contact Name: Samuel Knott

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	UF2-EW4	Mar 26, 2024		Soil	S24-Ma0063222	X
2	UF2-EW5	Mar 26, 2024		Soil	S24-Ma0063223	X
3	UF2-WW4	Mar 26, 2024		Soil	S24-Ma0063224	X
4	UF2-WW5	Mar 26, 2024		Soil	S24-Ma0063225	X
5	IE-20A	Mar 26, 2024		Soil	S24-Ma0063226	X
6	IE-19A	Mar 26, 2024		Soil	S24-Ma0063227	X
7	QC260324	Mar 26, 2024		Soil	S24-Ma0063228	X
8	UF1-01	Mar 26, 2024		Soil	S24-Ma0063229	X
9	UF1-02	Mar 26, 2024		Soil	S24-Ma0063230	X
Test Counts						9

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:	Samuel Knott
Report	1081847-AID
Project Name	ALDINGTON-263
Project ID	66105
Received Date	Mar 26, 2024
Date Reported	Mar 27, 2024

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 ALDINGTON-263
Project ID 66105
Date Sampled Mar 26, 2024
Report 1081847-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
UF2-EW4	24-Ma0063222	Mar 26, 2024	Approximate Sample 657g 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.
UF2-EW5	24-Ma0063223	Mar 26, 2024	Approximate Sample 576g 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.
UF2-WW4	24-Ma0063224	Mar 26, 2024	Approximate Sample 573g 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.
UF2-WW5	24-Ma0063225	Mar 26, 2024	Approximate Sample 525g 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.
IE-20A	24-Ma0063226	Mar 26, 2024	Approximate Sample 566g 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.
IE-19A	24-Ma0063227	Mar 26, 2024	Approximate Sample 491g 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.
QC260324	24-Ma0063228	Mar 26, 2024	Approximate Sample 647g 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
UF1-01	24-Ma0063229	Mar 26, 2024	Approximate Sample 725.5g Sample consisted of: Brown fine-grained clayey soil, cement and rocks	AF: Chrysotile asbestos detected in fibre cement fragments. Approximate raw weight of AF = 0.0048g* Estimated asbestos content in AF = 0.00048g* Total estimated asbestos concentration in AF = 0.000066% w/w* No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected.
UF1-02	24-Ma0063230	Mar 26, 2024	Approximate Sample 520g Sample consisted of: Brown fine-grained clayey soil, plaster material 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 26, 2024	Indefinite

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

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ABN: 50 005 085 521

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

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Perth
46-48 Banksia Road
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Contact Name: Samuel Knott

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	UF2-EW4	Mar 26, 2024		Soil	S24-Ma0063222	X
2	UF2-EW5	Mar 26, 2024		Soil	S24-Ma0063223	X
3	UF2-WW4	Mar 26, 2024		Soil	S24-Ma0063224	X
4	UF2-WW5	Mar 26, 2024		Soil	S24-Ma0063225	X
5	IE-20A	Mar 26, 2024		Soil	S24-Ma0063226	X
6	IE-19A	Mar 26, 2024		Soil	S24-Ma0063227	X
7	QC260324	Mar 26, 2024		Soil	S24-Ma0063228	X
8	UF1-01	Mar 26, 2024		Soil	S24-Ma0063229	X
9	UF1-02	Mar 26, 2024		Soil	S24-Ma0063230	X
Test Counts						9

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**). This estimate is not NATA-accredited.
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

24-Ma0063227, 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	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
Managing Director

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.: 66105	LABORATORY BATCH NO.:
PROJECT NAME: ALDINGTON – 94	SAMPLERS: SK
DATE NEEDED BY: 24 HR	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) Skmott@jbsg.com.au; (3) C.Kauffman@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

24HR TAT

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
VF1-01A	Soil	9.4.24		As Bag				X	
VF1_02A	↓	↓		↓				X	
FC_07A								X	
QC240409								X	
IX_19A								X	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Sam Knott DATE: 9.4.24	CONSIGNMENT NOTE NO.	NAME: Riham Al Smaydi DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	OF:	N/A COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE: 9/4	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF: 4:40 pm	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

1085660

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eurofins | Environment Testing

www.eurofins.com.au EnviroSales@eurofins.com

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

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6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	T: +61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

Eurofins ARL Pty Ltd

ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
NATA# 2377
Site# 2370

Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

Auckland	Auckland (Asb)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise,	43 Detroit Drive	1277 Cameron Road,
Penrose,	Mount Wellington,	Rolleston,	Gate Pa,
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Samuel Knott
Project name:	ALDINGTON-94
Project ID:	66105
Turnaround time:	1 Day
Date/Time received	Apr 9, 2024 4:40 PM
Eurofins reference	1085660

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 Samuel Knott - sknott@jbsg.com.au.

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web: www.eurofins.com.au
email: EnviroSales@eurofins.com

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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: ALDINGTON-94
Project ID: 66105

Order No.:
Report #: 1085660
Phone: 02 8245 0300
Fax:

Received: Apr 9, 2024 4:40 PM
Due: Apr 10, 2024
Priority: 1 Day
Contact Name: Samuel Knott

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	UF1_01A	Apr 09, 2024		Soil	S24-Ap0020329	X
2	UF1_02A	Apr 09, 2024		Soil	S24-Ap0020330	X
3	6C_07A	Apr 09, 2024		Soil	S24-Ap0020331	X
4	QC240409	Apr 09, 2024		Soil	S24-Ap0020332	X
5	1X_19A	Apr 09, 2024		Soil	S24-Ap0020333	X
Test Counts						5

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention:	Samuel Knott
Report	1085660-AID
Project Name	ALDINGTON-94
Project ID	66105
Received Date	Apr 09, 2024
Date Reported	Apr 10, 2024

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 ALDINGTON-94
Project ID 66105
Date Sampled Apr 09, 2024
Report 1085660-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
UF1_01A	24-Ap0020329	Apr 09, 2024	Approximate Sample 575g Sample consisted of: Brown fine-grained clayey soil, organic debris and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
UF1_02A	24-Ap0020330	Apr 09, 2024	Approximate Sample 520g Sample consisted of: Brown fine-grained clayey soil, organic debris and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
6C_07A	24-Ap0020331	Apr 09, 2024	Approximate Sample 471g Sample consisted of: Brown fine-grained clayey soil, organic debris and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
QC240409	24-Ap0020332	Apr 09, 2024	Approximate Sample 394g Sample consisted of: Brown fine-grained clayey soil, organic debris and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
1X_19A	24-Ap0020333	Apr 09, 2024	Approximate Sample 477g Sample consisted of: Brown fine-grained clayey soil, organic debris 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	Apr 09, 2024	Indefinite

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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
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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794	Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
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Site# 2370

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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: ALDINGTON-94
Project ID: 66105

Order No.:
Report #: 1085660
Phone: 02 8245 0300
Fax:

Received: Apr 9, 2024 4:40 PM
Due: Apr 10, 2024
Priority: 1 Day
Contact Name: Samuel Knott

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	UF1_01A	Apr 09, 2024		Soil	S24-Ap0020329	X
2	UF1_02A	Apr 09, 2024		Soil	S24-Ap0020330	X
3	6C_07A	Apr 09, 2024		Soil	S24-Ap0020331	X
4	QC240409	Apr 09, 2024		Soil	S24-Ap0020332	X
5	1X_19A	Apr 09, 2024		Soil	S24-Ap0020333	X
Test Counts						5

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**). This estimate is not NATA-accredited.
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

24-Ap0020331 to 24-Ap0020333: 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:

Bennel Jiri	Senior Analyst-Asbestos

Authorised by:

Laxman Dias	Senior Analyst-Asbestos

Glenn Jackson
Managing Director

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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Appendix H 95% UCL Calculations

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UCL Statistics for Uncensored Full Data Sets

User Selected Options	
Date/Time of Computation	22/04/2024 7:55:51 PM
From File	WorkSheet.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Benzo(a)pyrene TEQ

General Statistics

Total Number of Observations	8	Number of Distinct Observations	7
		Number of Missing Observations	0
Minimum	1.2	Mean	20.36
Maximum	100	Median	6.55
SD	33.47	Std. Error of Mean	11.83
Coefficient of Variation	1.644	Skewness	2.432

Note: Sample size is small (e.g., <10), if data are collected using ISM approach, you should use guidance provided in ITRC Tech Reg Guide on ISM (ITRC, 2012) to compute statistics of interest. For example, you may want to use Chebyshev UCL to estimate EPC (ITRC, 2012). Chebyshev UCL can be computed using the Nonparametric and All UCL Options of ProUCL 5.0

Normal GOF Test

Shapiro Wilk Test Statistic	0.641	**Shapiro Wilk GOF Test**
5% Shapiro Wilk Critical Value	0.818	Data Not Normal at 5% Significance Level
Lilliefors Test Statistic	0.32	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.313	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	42.78	95% Adjusted-CLT UCL (Chen-1995)	50.7
		95% Modified-t UCL (Johnson-1978)	44.48

Gamma GOF Test

A-D Test Statistic	0.472	**Anderson-Darling Gamma GOF Test**
5% A-D Critical Value	0.758	Detected data appear Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.198	**Kolmogrov-Smirnoff Gamma GOF Test**
5% K-S Critical Value	0.308	Detected data appear Gamma Distributed at 5% Significance Level

Detected data appear Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	0.565	k star (bias corrected MLE)	0.437
Theta hat (MLE)	36.03	Theta star (bias corrected MLE)	46.64
nu hat (MLE)	9.043	nu star (bias corrected)	6.985
MLE Mean (bias corrected)	20.36	MLE Sd (bias corrected)	30.82
		Approximate Chi Square Value (0.05)	2.162
Adjusted Level of Significance	0.0195	Adjusted Chi Square Value	1.549

Assuming Gamma Distribution

95% Approximate Gamma UCL (use when n>=50)	65.78	95% Adjusted Gamma UCL (use when n<50)	91.82

55												
56	**Lognormal GOF Test**											
57					Shapiro Wilk Test Statistic	0.908	**Shapiro Wilk Lognormal GOF Test**					
58					5% Shapiro Wilk Critical Value	0.818	Data appear Lognormal at 5% Significance Level					
59					Lilliefors Test Statistic	0.207	**Lilliefors Lognormal GOF Test**					
60					5% Lilliefors Critical Value	0.313	Data appear Lognormal at 5% Significance Level					
61	**Data appear Lognormal at 5% Significance Level**											
62												
63	**Lognormal Statistics**											
64					Minimum of Logged Data	0.182	Mean of logged Data	1.911				
65					Maximum of Logged Data	4.605	SD of logged Data	1.639				
66												
67	**Assuming Lognormal Distribution**											
68					95% H-UCL	618.4	90% Chebyshev (MVUE) UCL	52.99				
69					95% Chebyshev (MVUE) UCL	68.2	97.5% Chebyshev (MVUE) UCL	89.32				
70					99% Chebyshev (MVUE) UCL	130.8						
71												
72	**Nonparametric Distribution Free UCL Statistics**											
73	**Data appear to follow a Discernible Distribution at 5% Significance Level**											
74												
75	**Nonparametric Distribution Free UCLs**											
76					95% CLT UCL	39.83	95% Jackknife UCL	42.78				
77					95% Standard Bootstrap UCL	37.86	95% Bootstrap-t UCL	93.99				
78					95% Hall's Bootstrap UCL	104.4	95% Percentile Bootstrap UCL	41.59				
79					95% BCA Bootstrap UCL	49.15						
80					90% Chebyshev(Mean, Sd) UCL	55.87	95% Chebyshev(Mean, Sd) UCL	71.95				
81					97.5% Chebyshev(Mean, Sd) UCL	94.27	99% Chebyshev(Mean, Sd) UCL	138.1				
82												
83	**Suggested UCL to Use**											
84					95% Adjusted Gamma UCL	91.82						
85												
86	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
87	These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)											
88	and Singh and Singh (2003). However, simulations results will not cover all Real World data sets.											
89	For additional insight the user may want to consult a statistician.											
90												

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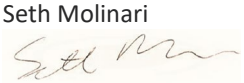
A	Samuel Knott	Seth Molinari	**DRAFT** for client comment		29/04/2024
0	Samuel Knott	Seth Molinari	Seth Molinari		20/05/2024
1	Samuel Knott	Seth Molinari	Seth Molinari 		26/07/2024

www.jbsg.com.au

JBS&G

Adelaide
Kaurna Country | 100 Hutt St,
Adelaide, SA 5000
T: 08 8431 7113

Brisbane
Turrbal/Yuggera Country | Level 37,
123 Eagle Street, Brisbane, QLD 4000
T: 07 3211 5350

Bunbury
Wardandi Country | 177 Spencer
Street Bunbury, WA 6230
T: 08 9792 4797

Canberra
Ngunnawal Country | Level 1, The Realm
18 National Circuit Barton, ACT 2600
T: 02 6198 3278

Darwin
Larrakia Country | Suite G1, Level 1,
48-50 Smith Street, Darwin NT 0800
T: 08 8943 0600

Hobart
Muwununa/Nuenon Country | Level 6,
111 Macquarie Street Hobart, TAS 7000
T: 03 6108 9054

Melbourne
Wurundjeri Country | Level 19,
31 Queen Street, Melbourne VIC 3000
T: 03 9642 0599

Newcastle
Awabakal/Worimi Country | 61 / 63
Parry Street Newcastle West, NSW 2302
T: 02 8245 0300

Perth
Whadjuk Country | Allendale Square,
Level 9, 77 St Georges Terrace, WA 6000
T: 08 9380 3100

Sydney
Gadigal Country | Level 1,
50 Margaret Street, Sydney, NSW 2000
T: 02 8245 0300

Wollongong
Dharawal Country | Suite 1A, 280 - 286
Keira Street, Wollongong, NSW 2500
T: 02 4225 2647