JBS&G 61301/142794
L001 (SEARs cover letter JBS&G - Rev B)

16 December 2021

Lachlan Andrew
Project Strategy NSW Pty Ltd
Via email: landrew@projectstrategy.com.au

SEARs Items Relating to Acid Sulfate Soils and Contamination – Ascent Logistics Centre, 520 Gardeners Road, Alexandria, NSW (SSD-32489140)

Dear Lachlan,

1. Introduction

JBS&G Australia Pty Ltd (JBS&G) was engaged by Project Strategy NSW Pty Ltd on behalf of Charter Hall (the client) to prepare this letter addressing parts of Planning Secretary's Environmental Assessment Requirements for Warehouse and distribution centres (SEARs document) for the proposed Ascent Logistics Centre located at 520 Gardeners Road, Alexandria, NSW. Specifically, this letter outlines where part Items 12 (Ground and Water Conditions) and Item 16 (Contamination and Remediation) of the SEARs document are addressed, in reports prepared by JBS&G, for State Significant Development (SSD) Application Number SSD-32489140.

2. Reports Prepared and SEARS Items Addressed by JBS&G

The following reports have been prepared for the site by JBS&G:

- *Detailed Site Investigation, 520-530 Gardeners Road, Alexandria, NSW, 2020*, JBS&G Australia Pty Ltd, 16 December 2021, 61301/140011 (Rev B) (JBS&G 2021a); and
- *Acid Sulfate Soil Management Plan, 520-530 Gardeners Road, Alexandria, NSW, 2020*, JBS&G Australia Pty Ltd, 16 December 2021, 61301/140799 (Rev B) (JBS&G 2021b).

Table A summarises the SEARs document Item and specific requirements met by JBS&G reports.

Table A – SEARs Items Addressed by JBS&G Reports

SEARs Item	SEARs Item Requirement and Documentation	JBS&G Report Addressing SEARs Item
12 Ground and Water Conditions	Provide an assessment of salinity and acid sulfate soil impacts - Salinity Management Plan and/or Acid Sulfate Soils Management Plan	JBS&G (2021b) provides an Acid Sulfate Soils Management Plan for acid sulfate soil conditions identified at the site during the Detailed Site Investigation (JBS&G 2021a)
16. Contamination and Remediation	In accordance with SEPP 55, assess and quantify any soil and groundwater contamination and demonstrate that the site is suitable (or will be suitable, after remediation) for the development. Preliminary Site Investigation and If required: • Detailed Site Investigation • Remedial Action Plan • Preliminary Long-term Environmental Management Plan	JBS&G (2021a) comprises a Preliminary and Detailed Site Investigation, which identified the site is suitable for commercial/industrial landuse.

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

Yours sincerely:



John De Martin
Principal
JBS&G Australia Pty Ltd

Charter Hall

Detailed Site Investigation

520-530 Gardeners Road
Alexandria, NSW, 2020

16 December 2021

61301/140011 (Rev B)

JBS&G

www.jbsg.com.au

Charter Hall
Detailed Site Investigation

520-530 Gardeners Road
Alexandria, NSW, 2020

16 December 2021

61301/140011 (Rev B)
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Table of Contents

Abbreviations vi

Executive Summary vii

1. Introduction 1
   - 1.1 Objectives 1
   - 1.2 Scope of Work 1

2. Site Condition and Surrounding Environment 2
   - 2.1 Site Identification 2
   - 2.2 Site Description 2
   - 2.3 Surrounding Land-use 3
   - 2.4 Topography 3
   - 2.5 Geology and Soils 3
   - 2.6 Hydrology 3
   - 2.7 Hydrogeology 3
   - 2.8 Acid Sulfate Soils 3
   - 2.9 Meteorology 4

3. Site History 5
   - 3.1 NSW EPA Records 5
   - 3.2 Australian and NSW Heritage Register 5
   - 3.3 Aerial Photographs 5
   - 3.4 Section 10.7 Planning Certificate 6
   - 3.5 Historical Title Review 6
   - 3.6 Integrity Assessment and Summary of Site History 7

4. Previous Investigation 8

5. Conceptual Site Model (CSM) 10
   - 5.1 Potential Areas of Environmental Concern 10
   - 5.2 Potentially Contaminated Media 10
   - 5.3 Potential for Migration from Site 10
   - 5.4 Receptors 11
   - 5.5 Preferential Pathways 11

6. Sampling and Analysis Plan 12
   - 6.1 Data Quality Objectives 12
     - 6.1.1 State the Problem 12
     - 6.1.2 Identify the Decision 12
     - 6.1.3 Identify Inputs to the Decision 12
     - 6.1.4 Define the Study Boundaries 13

6.1.5 Develop a Decision Rule 13
6.1.6 Specific Limits on Decision Errors 14
6.2 Optimise the Design of Obtaining Data 15
6.3 Investigation Methodology 15
6.3.1 Soil Sampling Methodology 15
6.3.2 Decontamination 16
6.3.3 Duplicate and Triplicate Sample Preparation 16
6.3.4 Laboratory Analysis 16
7. Assessment Criteria 17
7.1 Regulatory Guidelines 17
8. Quality Assurance/Quality Control 18
8.1 QA/QC Results 18
8.2 QA/QC Discussion 18
8.2.1 Precision 18
8.2.2 Accuracy 19
8.2.3 Representativeness 19
8.2.4 Comparability 20
8.2.5 Completeness 20
8.2.6 Sensitivity 20
8.2.7 QA/QC Conclusions 20
9. Observations and Results of Analysis 21
9.1 Soil Sampling 21
9.1.1 Observations 21
9.1.2 Soil Analytical Results - Metals 21
9.1.3 Soil Analytical Results - PAHs 21
9.1.4 Soil Analytical Results - TRH 21
9.1.5 Soil Analytical Results - BTEXN 22
9.1.6 Soil Analytical Results - PCBs 22
9.1.7 Soil Analytical Results – OCPs 22
9.1.8 Soil Analytical Results - Asbestos 22
9.1.9 Soil Analytical Results – SPOCAS 22
10. Discussion 23
10.1 Potential Risks to Future On-site Receptors 23
10.2 Background Soil Concentrations 23
10.3 Chemical Mixtures 23
10.4 Aesthetic Issues 23
10.5 Potential Migration of Contaminants 23
10.6 Site Management Strategy 23

11. Conclusions and Recommendations 24
12. Limitations 25

List of Tables

Table 2.1 Summary Site Details 2
Table 3.1: Aerial Photograph Review 5
Table 3.2: Summary of Historical Site Titles 7
Table 4.1: Areas of Environmental Concern and Associated Contaminants of Potential Concern 10
Table 5.1 Summary of Decision Rules 13
Table 5.2 Data Quality Indicators 15
Table 6.3 Analytical Schedule 16
Table 8.1: QA/QC Results Summary 18

List of Figures

Figure 1 Site Location
Figure 2 Site Layout and Historic Sample Locations
Figure 3 Sample Locations

Appendices

Appendix A Summary Tables
Appendix B Indicative Development Plans
Appendix C Photographic Log
Appendix D Registered Groundwater Bore Information
Appendix E EPA Records
Appendix F Heritage Records
Appendix G Aerial Photographs
Appendix H Section 10.7 Planning Certificates
Appendix I Title Records
Appendix J Borehole Logs
Appendix K Field Calibration Records
Appendix L Laboratory Reports and Chain of Custody Documentation
Appendix M Quality Assurance/Quality Control
Appendix N ProUCL Data and Output
Appendix O PSI (JBS&G 2021)

Abbreviations

Term	Definition
ACM	Asbestos Containing Materials
AEC	Area of Environmental Concern
AHD	Australian Height Datum
AMP	Asbestos Management Plan
ASS	Acid Sulfate Soils
bgs	Below Ground Surface
BTEX	Benzene, Toluene, Ethylbenzene and Xylenes
B(a)P	Benzo(a)pyrene
CLM	Contaminated Land Management
COPC	Contaminant of Potential Concern
CSM	Conceptual Site Model
DECCW	NSW Department of Environment, Climate Change and Water
DQOs	Data Quality Objectives
DSI	Detailed Site Investigation
DWE	NSW Department of Water and Energy
EMP	Environmental Management Plan
EPA	NSW Environment Protection Authority
JBS&G	JBS&G Australia Pty Ltd
LEP	Local Environmental Plan
MGA	Map Grid of Australia
PSI	Preliminary Site Assessment
PS	Plan of Subdivision
Ha	Hectare
OCPs	Organochlorine Pesticides
OEH	Office of Environment and Heritage
PAHs	Polycyclic Aromatic Hydrocarbons
PCB	Polychlorinated Biphenyls
PFAS	Per- and Poly- Fluoroalkyl Substances
POEO Act	Protection of Environment Operations Act
PSI	Preliminary Site Investigation
RPD	Relative Percentage Difference
TRH	Total Recoverable Hydrocarbons
VOC	Volatile Organic Compounds

Executive Summary

JBS&G Australia Pty Ltd (JBS&G) was engaged by Charter Hall Pty Ltd (Charter Hall, the client) to undertake a Stage 2 Detailed Site Investigation (DSI) for the property located at 520-530 Gardeners Road, Alexandria NSW (the site). The site is legally identified as Lot 302 in DP 1231238 and covers an area of approximately 1.8 hectares (ha).

JBS&G previously completed a preliminary site investigation (PSI) (JBS&G 2020[1]), which identified that the site had historically been used for a variety of industrial purposes since at least 1943. A limited intrusive site investigation identified the presence of fill materials at depths ranging from 0.5-1.8 m below ground surface (bgs). The fill materials were found to contain building and demolition wastes with potentially isolated impacts of identified contaminants of potential concern in soil.

It is understood that the client proposes to redevelop the site with a commercial / industrial development comprising two-levels of warehouse buildings with driveways joining buildings across both levels, and a rooftop carpark covering the buildings and adjoining driveways. A DSI is required to support a State Significant Development (SSD) Development Application (DA) for the proposed redevelopment. To this end, JBS&G have proposed an assessment that supplements JBS&G (2020) and includes environmental sampling as consistent with a detailed site investigation (DSI)

The scope of work completed comprised: review of historical site information contained in the PSI (JBS&G 2020); an intrusive investigation program to compliment soil sampling undertaken as part of the PSI (JBS&G 2020); analysis of soil samples for a range of contaminants of potential concern (COPCs); comparison of collected data against regulator published/endorsed investigation criteria to facilitate an assessment of land use suitability; and preparation of this DSI report.

Concrete pavement approximately 150-200 mm thick was present at all boreholes. Fill was encountered at each location, underlying the slab at depths ranging from 1-2 m bgs. It is noted that refusal in fill was encountered at locations BH01-BH09, where a secondary slab was encountered. The fill comprised of gravelly sandy clay with varying levels of inclusions that comprised crushed sandstone, plastic and tile. The fill was underlain by natural sands to the maximum depth of the investigation (5 m bgs). No ACM was observed within the materials assessed. In addition, no odours or staining as potentially associated with contamination was observed throughout the materials. However, sulphidic odours were noted within natural sand materials at depth.

Concentrations of COPC in soils were below adopted health-based criteria with the following exceptions:

- 56 mg/kg B(a)P TEQ in BH11 0.9-1, which exceeded the health-based criterion of 40 mg/kg; and
- 82 mg/kg aldrin + dieldrin were recorded in sample MW4_1.0 in the 2020 sampling and exceeded the health-based criterion of 45 mg/kg.

The 95% Upper Confidence Limit (UCL) on the B(a)P TEQ mean concentration in fill samples, for data collected in 2020 and 2021, was calculated using ProUCL[2]. The 95% UCL for B(a)P TEQ was calculated to be 10.82 mg/kg, which was below the adopted criterion of 40 mg/kg, and the standard deviation of B(a)P TEQ concentrations was 9.84 mg/kg.

The 95% Upper Confidence Limit (UCL) on the aldrin + dieldrin mean concentration in fill samples was calculated using ProUCL. The 95% UCL for aldrin + dieldrin was calculated to be 18.48 mg/kg,

[1] *Preliminary Site Investigation 520-530 Gardeners Road, Alexandria*, JBS&G Australia Pty Ltd, 17 February 2020 (JBS&G 2020).
[2] ProUCL Version 5.1.002

which was below the adopted criterion of 45 mg/kg, and the standard deviation of aldrin + dieldrin concentrations was 16.7 mg/kg.

Based on the results of the current investigation, presented in **Section 9**, and results of targeted soil and groundwater assessment by JBS&G (2020), concentrations of COPC in fill and soils at the site do not pose a potential risk to future site receptors.

Based on the results of the assessment, and in accordance with the limitations in **Section 12**, it is concluded that the site is suitable for commercial/industrial landuse.

It is recommended that a Construction Environmental Management Plan (CEMP) be prepared for the future site redevelopment works to identify typical site management controls and makes provisions for unexpected finds. In addition, an Acid Sulfate Soil Management Plan (ASSMP) will be required to detail the management requirements for future construction works that result in the disturbance of natural sand materials at the site which have been identified to comprise of PASS.

1. Introduction

JBS&G Australia Pty Ltd (JBS&G) was engaged by Charter Hall Pty Ltd (Charter Hall, the client) to undertake a Stage 2 Detailed Site Investigation (DSI) for the property located at 520-530 Gardeners Road, Alexandria NSW (the site). The site is legally identified as Lot 302 in DP 1231238 and covers an area of approximately 1.8 hectares (ha). The site location and layout are shown in **Figures 1** and **2**.

JBS&G previously completed a preliminary site investigation (PSI) (JBS&G 2020[3]), which identified that the site had historically been used for a variety of industrial purposes since at least 1943. A copy of the PSI is provided in **Appendix O**. A limited intrusive site investigation identified the presence of fill materials at depths ranging from 0.5-1.8 m below ground surface (bgs). The fill materials were found to contain building and demolition wastes with potentially isolated impacts of identified contaminants of potential concern in soil.

It is understood that the client proposes to redevelop the site with a commercial / industrial development comprising two-levels of warehouse buildings with driveways joining buildings across both levels, and a rooftop carpark covering the buildings and adjoining driveways. Indicative development plans are provided in **Appendix B**. A DSI is required to support a State Significant Development (SSD) Development Application (DA) for the proposed redevelopment. To this end, JBS&G have proposed an assessment that supplements JBS&G (2020) and includes environmental sampling as consistent with a detailed site investigation (DSI)

This report has been developed in accordance with guidelines made or approved by the New South Wales (NSW) Environmental Protection Authority (EPA) and relevant Australian Standards.

1.1 Objectives

The objectives of the investigation are to characterise potential contamination at the site and draw conclusions regarding the suitability of the site for on-going commercial/industrial land use.

1.2 Scope of Work

The scope of work completed comprised:

- Review of historical site information contained in the PSI prepared for the site (JBS&G 2020);
- An intrusive investigation program comprising inspection, field assessment and soil sampling to compliment soil sampling undertaken as part of the PSI (JBS&G 2020);
- Analysis of soil samples for a range of contaminants of potential concern (COPCs);
- Comparison of collected data against regulator published/endorsed investigation criteria to facilitate an assessment of land use suitability; and
- Preparation of this DSI report in general accordance with relevant EPA guidelines.

[3] *Preliminary Site Investigation 520-530 Gardeners Road, Alexandria*, JBS&G Australia Pty Ltd, 17 February 2020 (JBS&G 2020).

2. Site Condition and Surrounding Environment

2.1 Site Identification

The site is bounded by Gardeners Road to the south and Bourke Road to the West, in the suburb of Alexandria. The site location is shown on **Figure 1**. The site layout and associated cadastral boundaries and shown on **Figure 2**. The site details are summarised in **Table 2.1** and described in detail in the following sections.

Table 2.1 Summary Site Details

Lot/Plan Number (PS)	Lot 302 in DP1231238
Address	520-530 Gardeners Road, Alexandria, NSW 2020
Local Government Authority	City of Sydney Council
Approximate MGA Coordinates (MGA 56)	E: 332580 N: 6245300 (centre of the site)
Site Zoning	IN1 General Industrial & SP2 Infrastructure (Sydney Local Environmental Plan 2012)
Current Use	Commercial/Industrial
Previous Use	Commercial/Industrial
Site Area	18,280 m^2

2.2 Site Description

A detailed site inspection was carried out by one of JBS&G's suitably trained and experienced field scientists on 22 January 2020. The following presents a summary of observations made during the site inspection:

- The site comprises a generally flat, large rectangular parcel of land with approximate dimensions of 100 m east–west by 170 m north–south, located on the northern side of Gardeners Road. A large empty warehouse is located in the central portion of the site. The building is of concrete and steel construction with a concrete floor. Bitumen and concrete paved car parking is along the southern, western and south-eastern portions and a concrete delivery/despatch laneway is located along the eastern boundary. The site includes landscaped areas along the southern and western boundaries.
- An above ground water storage tank (**Photograph 1, Appendix C**), with below ground pipes feeding to the building, along with a fire pump room housing a petroleum powered generator (**Photograph 2**), were present in the north eastern portion of the site. An area of former hazardous chemical storage was present near the water storage tank (**Photograph 3**). No dangerous good were sighted during the inspection. A rainwater reuse tank was observed near the south eastern portion of the site (**Photograph 4**).
- The carpark pavement surface was in generally good condition, with some repaired patches observed near the warehouse in the central southern and northern portions of the site (**Photographs 5** and **6**), possibly relating to former maintenance works. The concrete surface inside the warehouse was in good condition with no obvious cracks or areas of maintenance, however, some areas of staining were evident (**Photograph 7**). Concrete along the eastern laneway was also in good order, with some repaired patches observed (**Photograph 8**).
- Stormwater drains and pits extended along all four sides of the site, with no groundwater monitoring wells or underground storage tanks (USTs) observed.
- Adjacent properties appeared to have been recently redeveloped and did not appear to have any evident bulk storage areas.
- No visual staining or odours were observed across the carpark surface during the site inspection.

2.3 Surrounding Land-use

Surrounding land-uses at the time of site inspection are described following:

- North: Telecommunications provider (large warehouse), with additional commercial/industrial type buildings further north
- South: Gardeners Road with commercial/industrial and multi-level residential buildings further south
- East: A recently developed warehouse structure, with additional commercial/industrial buildings further east
- West: Bourke Road, with commercial/industrial buildings further west

2.4 Topography

A review of the topographic data accessed from Nearmap[4] indicated that the centre of the site has an approximate elevation of around 18 m above Australian Height Datum (AHD). The site is relatively flat, with the general site and surrounding land sloping gently to the north.

2.5 Geology and Soils

Review of the 1:100 000 Geology map indicated that the site is underlain by medium to fine-grained "marine" sand with podosols. Review of the eSPADE[5] database indicated that a 1.30 m deep soil profile taken on Coward Road, Mascot was classified as Humus Poszol (GSG).

2.6 Hydrology

The site is predominantly covered by concrete and bitumen, with some vegetated areas along the western and southern boundaries. Precipitation is anticipated to discharge directly to local stormwater infrastructure via numerous stormwater drains located on the site. Rainfall may also infiltrate directly into the soils of landscaped areas. During times of heavy rainfall off site migration may occur as surface run-off. It is anticipated that surface water will discharge via the local stormwater system into the Alexandra Canal, located approximately 330 m northwest of the site, and ultimately into the Cooks River.

2.7 Hydrogeology

A review of hydrogeological features presented in **Appendix D** indicated there were no groundwater bores on site. A search of the Department of Environment and Primary Industries' Water Measurement Information System indicated there were 13 registered groundwater boreholes within 500 m of the site**.**

The nearest groundwater bore is 220 m east of the site and is used for industrial purposes. There are no registered bores located between the site and the nearest waterbody where groundwater is anticipated to discharge. Review of groundwater bore reports revealed that nearby bores were used for industrial or monitoring purposes, and groundwater is not expected to be used for consumption.

2.8 Acid Sulfate Soils

Review of Botany Bay Acid Sulfate Soil Risk Map[6] indicates that the site exists on disturbed terrain which may include filled areas, which often occur during reclamation of low-lying swamps for urban development. Other disturbed terrain includes areas which have been mined or dredged or have

[4] Nearmap, http://maps.au.nearmap.com/ accessed 29 Jan 2019.
[5] eSPADE v2, https://www.environment.nsw.gov.au/eSpade2Webapp accessed 29 Jan 2020.
[6] Botany Bay Acid Sulfate Risk Map – Edition Two (9130S3), Department of Land and Conservation of Water. Printed December 1997.

undergone heavy ground disturbance through general urban development or construction of dams or levees. Soil investigations are required to assess these areas for acid sulfate potential.

2.9 Meteorology

A review of average climate data for the nearest relevant Bureau of Meteorology monitoring location (Sydney Airport NSW[7]), indicates the site is located within the following meteorological setting:

- Average minimum temperatures vary from 7.3 ^{o}C in July to 19.1 ^{o}C in February;
- Average maximum temperatures vary from 12.2 ^{o}C in July to 26.7 ^{o}C in January;
- The average annual rainfall is approximately 1077.4 mm with rainfall greater than 1 mm occurring on an average of 95.6 days per year; and
- Monthly rainfall varies from 60.0 mm in September to 125.3 mm in June with the wettest periods occurring on average in January to June.

[7] Commonwealth of Australia, Bureau of Meteorology, http://www.bom.gov.au/climate/data/stations, Accessed 29 Jan 2020.

3. Site History

3.1 NSW EPA Records

A search of the NSW EPA's public registers was undertaken for the site and is included as **Appendix E**. The search included the following public registers:

- NSW EPA POEO Act public register of licences, applications and notices (maintained under Section 308 of the POEO Act);
- NSW EPA contaminated land public register of record of notices (under Section 58 of the *Contaminated Land Management Act 1997* (CLM Act));
- NSW contaminated sites notified to the EPA (under Section 60 of the CLM Act); and
- NSW EPA Government PFAS Investigation Program.

A review of the provided records indicated that no prevention, clean-up or prohibitions notices have been issued under the POEO Act for the site and immediate surroundings. Furthermore, no environment protection licences were identified adjacent to the site. The site, nor the immediate surrounds have been listed on the NSW Government PFAS Investigation program.

3.2 Australian and NSW Heritage Register

A search of the Australian Heritage database and the NSW Heritage database was undertaken, with records included as **Appendix F**. The review of heritage inventory did not identify any heritage listed items at the site or immediate surrounds.

3.3 Aerial Photographs

Historical aerial photographs dated 1943, 1950, 1961, 1978, 1986, 1998, 2009 and 2019 were reviewed for this assessment (**Appendix G**). The key features with respect to the review of the aerial photographs in relation to the historical use of the site is presented in **Table 3.1**.

Table 3.1: Aerial Photograph Review

Year	Observations
1943	The site contained a large warehouse building in the south-eastern portion of the site. Several smaller structures were present in the south-western and northern portions of the site. It appeared that machinery and unidentified objects, potentially waste, were stored outside the site structures. The majority of the remaining ground surface appears to be cleared and unsealed. The surrounding land-uses to the south, west and east of the site appear consistent with a mixture of residential and industrial land-uses. Gardeners Road and Bourke Street are present to the south and west of the site respectively.
1950	The site appeared to have undergone significant development with the extension of warehouse structures over the central and northern portion of the sites. Additional smaller structures were constructed in the western portion of the site along with multiple stockpiles of unknown materials. What appear to be fill materials, potentially associated with the roadworks extension of Bourke Road, are visible long the north-western boundary of the site. Significant industrial development has occurred in the property to the east of the site, where several large warehouses, and potential stacks/silos were visible.
1961	The site appeared largely consistent with the 1950 aerial photograph. It is noted that a small structure within the western portion of the site was removed along with stockpiled materials in the south-western portion of the site. What appear to be machinery or trucks were visible in the north-western portion of the site. What appears to be further industrial development is visible on land to the west.
1978	The site appeared largely consistent with the previous photograph with the notable exception of the storage of cylindrical objects or parked vehicles in the western portion of the site. Silos or similar are visible in the property to the north of the site. Additional land to the west appears to have been developed for commercial/industrial use.
1986	The site appeared largely consistent with the previous aerial photograph with the exception of the ground-surface in western portion of the site which appears to have been paved. Several large cylindrical objects were stored in the western portion of the site. Additional silos or above ground storage tanks are visible in the

Year	Observations
	property to the north and east of the site. There appears to have been some additional commercial/industrial development of land to the west and northwest.
1998	The site had been redeveloped with a large warehouse structure visible in the central portion of the site, consistent with the current (2020) site layout. A storage tank is apparent in the north-western corner of the site. Additional smaller structures and potential machinery is present along the eastern boundary. The balance of the site is predominantly covered hardstand and used as a carpark. The surrounding area is largely unchanged from the 1986 aerial photograph.
2009	The site and immediate surrounds appear largely consistent with the 1998 aerial photograph.
2019	The site appears largely consistent with the previous aerial photograph, with the exception of the removal of the garden area along the south-western perimeter of the site for the potential widening of Gardeners Road and Bourke Street. The industrial properties to the north and east of the site were redeveloped with large commercial/warehouse buildings visible.

3.4 Section 10.7 Planning Certificate

Section 10.7 (2) and (5) Planning certificates were obtained for the site from City of Sydney Council (**Appendix H**). Relevant details are summarised below:

- The land is subject to the requirements under Sydney Local Environmental Plan 2012;
- The land is zoned IN1 General Industrial and SP2 Infrastructure;
- The land is not declared as significantly contaminated land within the meaning of the Contaminated Land Management Act 1997 (CLM Act).
- The land has not been identified as a property that comprises, or on which there is, an item that is listed on the State Heritage Register under the Heritage Act 1977;
- Has not been identified as being within an area under the Wilderness Act 1987;
- Has not been identified as land that is within an environmentally sensitive area;
- The land has not been identified as being present within an Acid Sulfate Soils Map as Class 1 or Class 2;
- The land is not affected by Section 15 of the Mine Subsidence Compensation Act 1961 proclaiming land to be a Mine Subsidence District;
- The land is affected by a road widening or road realignment under a planning instrument;
- Has not been identified as land that is subject to a biobanking agreement under part 7A of the threatened Species Conservation Act 1995 or a property vegetation plan under the Native Vegetation Act 2003; and
- The land is not identified by an environmental planning instrument, a development control plan or a policy adopted by the Council as being or affected by a coastline hazard, a coastal hazard or a coastal erosion hazard.

3.5 Historical Title Review

A copy of the historical title's documentation obtained for the site is provided in **Appendix I**. The historical title details are summarised in **Table 3.2**.

Table 3.2: Summary of Historical Site Titles

Date	Owner / Occupation
Western Lot	
28.01.1938 (1938 to 1948)	Metters Limited
26.10.1948 (1948 to 1979)	British Standard Machinery Co. Limited
Eastern Lot	
02.08.1938 (1938 to 1979)	British Standard Machinery Co. Limited
01.11.1979 (1979 to 1991)	Allied Mills Industries Pty Limited Now Goodman Fielder Mills Limited
Whole site area	
07.05.1991 (1991 to 1996)	Goodman Fielder Industries Limited Now GF Finance Limited
11.12.1996 (1996 to date)	# South Sydney Central Limited

3.6 Integrity Assessment and Summary of Site History

From review of historical site information (JBS&G 2020), it is considered that the site was predominantly used for industrial purposes from at least 1943. British Standard Machinery Co. Limited owned the site in the period from 1938 (eastern portion only before acquiring whole site in 1948) to 1979 in which the company is understood to have manufactured earthmoving equipment. From 1979 to 1991 the site was owned by Allied Mills Industries Pty Limited which is understood to have manufactured and distributed bakery premixes/products. In 1996 South Sydney Central Limited acquired the site and redeveloped it into a single large warehouse structure that operated as 'Bunnings' Hardware store.

4. Previous Investigation

JBS&G (2020) carried out a PSI for the site that comprised a site inspection and desktop review of readily available site history and site condition records including: historical aerial photographs; council planning certificates; current and historical land title records; OEH heritage records; EPA notifications and contaminated land records; and review of licensed groundwater bore data. The PSI was undertaken to identify areas of environmental concern (AECs) and associated contaminants of potential concern (COPCs).

The PSI also included limited soil/groundwater and soil vapour sampling from nine soil bores (SB1 to SB9), five groundwater monitoring wells (MW01 to MW05) and field screening of 21 soil vapour sampling probes with soil vapour samples collected for laboratory analysis for eleven vapour probes with the highest field screening results for volatile organic compounds.

- The intrusive field investigation identified:
    - Fill material at depths ranging from 0.5-1.8 m bgs containing building and demolition wastes including brick and concrete as well as slag and bitumen. It is noted that no asbestos was observed within drilling spoil or identified within samples analysed by the laboratory. However, it is noted that drilling with spiral augers and push tubes is not the preferred method for the assessment of asbestos in soils given the limited volume of materials that can be inspected. On this basis, the extent of asbestos in soil may be more widespread than reported herein, particularly given the presence of building and demolition wastes within fill materials.

      The concentrations of contaminants of concern in analysed samples were below the adopted health based criteria, with the exception of the sum of aldrin and dieldrin (82 mg/kg) in MW4 1.0 m. Given the presence of hardstand across the site, this single exceedance does not pose a risk to current site users. However, should the site be redeveloped to have accessible soils, it will require management / remediation. In addition, should this material require off-site disposal, it will comprise 'Scheduled Waste' and be required to be disposed of in accordance with the appropriate Chemical Control Order (2004)[8], which will incur greater landfill disposal fees.

      It is noted that a range of contaminants, including heavy metals, TRH and bezo(a)pyrene, exceeded the generic commercial / industrial land-use criteria protective of ecological receptors within fill samples. However, as the site is predominantly covered by hardstand, therefore, these exceedances are not considered to pose a risk to ecological receptors;
    - The groundwater investigation identified elevated levels of heavy metal (arsenic and nickel) in a number of wells, and benzo(a)pyrene, in MW5 only. However, the elevated concentrations reported in groundwater are considered to be most likely indicative of background concentrations due to historical use of the surrounding area for industrial purposes and not as a result of site related impacts;
    - The concentration of VOCs in sub-slab vapour were reported to be below the laboratory LOR or the adopted site assessment criteria, indicating no potential unacceptable health risks to current or future occupants of the commercial warehouse building via vapour intrusion from these constituents.
- On the weight of evidence:

[8] *Chemical Control Order in Relation to Scheduled Chemical Wastes*, Environment Protection Authority NSW, 11 June 2004.

- The potential for gross or widespread subsurface contamination that would preclude ongoing use of the site in a commercial / industrial capacity, is considered to be low to moderate.

The summarised results of analysis for the JBS&G 2020 investigation are provided in **Appendix A**.

5. Conceptual Site Model (CSM)

5.1 Potential Areas of Environmental Concern

Based on the history review and observations made during the JBS&G inspection of the site, areas of environmental concern have been identified and are presented in **Table 4.1**.

Table 4.1: Areas of Environmental Concern and Associated Contaminants of Potential Concern

Area of Environmental Concern (AEC)	Primary Contaminants of Potential Concern (COPC)
Anthropogenic fill materials of unknown origin used to create existing/current site levels	Total recoverable hydrocarbons (TRH), benzene, toluene, ethylbenzene and xylene (BTEX), polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyl (PCBs), heavy metals, organochlorine pesticides (OCPs) and asbestos
Former structures (refurbishment/demolition)	Asbestos, heavy metals (lead-based paint)
Historical manufacturing / workshop activities	Heavy metals, TRH, BTEX, PAH and VOCs
Storage of general waste and materials (e.g. chemicals, oils, fuels)	Heavy metals, TRH, BTEX, PAH, phenols and VOCs, asbestos
Offsite sources (e.g. former industry north and east of the site)	Heavy metals, TRH, BTEX, PAH and VOC

5.2 Potentially Contaminated Media

Potentially contaminated media present at the site includes:

- Soil (inclusive of fill and natural);
- Groundwater; and
- Soil vapour

There is potential that fill material may have been used at the site associated with site levelling and grading activities, relating to the historical use of the site. In addition, there is evidence that former site structures, with the potential to comprise hazardous building materials, were demolished during redevelopment of the site, in which improper demolition practice may have caused impacts to underlying exposed soils.

Vertical migration of contaminants from surface soil and fill material into underlying natural materials may have occurred, most likely in instances where liquids where stored/spilled on-site. As such natural soils are considered to represent potentially contaminated media. Furthermore, there is the potential for contaminates to vertically migrate and leach from soils into groundwater.

Soil vapour and groundwater assessment completed as part of the PSI (JBS&G 2020) there was low potential for volatile impacts to be present at the site in soil and groundwater, and a low potential for COPCs in soils to have leached to groundwater.

5.3 Potential for Migration from Site

The potential contaminants of concern identified as part of the site history review and site inspection are potentially present in solid form (e.g. heavy metals, asbestos) or liquid form (e.g. fuels/oils, solvents, etc.).

The site is almost entirely sealed by hardstand and building footprints. A such, the potential for windblown dust is considered to be unlikely – unless the hardstand is removed from the site during redevelopment.

The potential for infiltration of water and subsequent migration of contaminants through the soil profile is considered generally to be low, given the extent of the impermeable ground surface and building footprint. Groundwater assessment completed as part of the PSI (JBS&GV 2020) indicated there was low potential for COPC in soil to have impacted groundwater and a low potential risk of off-site migration of COPCs via groundwater.

Contaminant migration via surface water run-off is considered to be a potential migration pathway. Water soluble contaminants present on the concrete surface have a potential to migrate from site to the drainage channel at the southern rear of the site.

5.4 Receptors

Potential receptors of environmental impact within the site which will need to be addressed with respect to potential risks to current and/or future site user include:

- Current and future site users and landowners who may potentially be exposed to COPC;
- Excavation / construction / maintenance workers conducting activities at the site, who may potentially be exposed to COPC through direct contact with impacted soils/groundwater present within excavations and/or inhalation of dusts / fibres associated with impacted soils;
- Flora species to be established on the (limited) vegetated areas of the site; and
- Existing and/or future users/occupants of adjoining properties should contamination be identified to be migrating from the current site. This is anticipated to be limited to potential contaminant migration via windblown dusts / fibres (from limited areas not covered in hardstand) or groundwater.
- As the site is predominately sealed by hardstand, it is considered unlikely that users of the site may be directly exposed to possible soil contamination. On this basis, general site users will typically only be exposed to environmental impacts, if present, through inhalation pathways in instances where volatile constituents are present in soil and/or groundwater.

5.5 Preferential Pathways

For the purpose of this assessment, preferential pathways have been identified as natural and/or man-made pathways that result in the preferential migration of COPC as either solid (sediments, dust etc), liquid (surface water and groundwater) or gas.

Man-made preferential pathways are likely present throughout the site, generally associated with areas of previously disturbed natural ground present beneath the existing ground surface and unconsolidated fill materials. Fill materials and disturbed natural soil are anticipated to have a higher permeability than the underlying natural soils and/or bedrock.

6. Sampling and Analysis Plan

6.1 Data Quality Objectives

DQOs were developed for the investigation in accordance with the process outlined in Schedule B2 of the National Environment Protection Measure (NEPM) (NEPC 2013[9]).

6.1.1 State the Problem

The site has previously been primarily used for industrial purposes and more recently for commercial warehousing.

Based on the PSI prepared for the site (JBS&G 2020) a number of AECs were identified. Intrusive sampling (JBS&G 2020) outside the existing building footprint did not identify contamination at the site that would affect the suitability of the site for on-going commercial/industrial use. A DSI is required as part of a submission for a SSD application to identify id there are any potential contamination issues that may affect on-going use of the site for commercial purposes.

6.1.2 Identify the Decision

Based on the decision-making process for assessing urban redevelopment sites detailed in EPA (2017), the following decisions must be made:

- Are there any unacceptable risks to onsite future receptors?
- Are there any issues relating to the local area background soil concentrations that exceed appropriate criteria?
- Are there any impacts of chemical mixtures?
- Are there any unacceptable aesthetic issues?
- Is there any evidence of, or potential for, migration of contaminants from the assessment area?
- Is a site management strategy required?

6.1.3 Identify Inputs to the Decision

The following inputs were required to assess the extent and nature of site contamination:

- Information obtained from the PSI (JBS&G 2020);
- Additional soil samples for submission to analytical laboratory ;
- Appropriate assessment criteria for evaluation of potential soil impacts;
- Field parameters measured utilising calibrated equipment during the intrusive investigation including assessment of soil sample headspace;
- Laboratory analysis of soil samples for COPC; and
- Confirmation that data generated by sample analysis are of an acceptable quality to allow reliable comparison to assessment criteria by assessment of quality assurance / quality control (QA/QC) as per the data quality indicators established in **Section 6.1.6**.

[9] *National Environmental Protection (Assessment of Site Contamination) Measure 1999*. As compiled 16 May 2013 National Environmental Council (NEPC 2013)

6.1.4 Define the Study Boundaries

The lateral boundaries of the site are shown on **Figure 2**. The vertical extent of the investigation was 6 m bgs, the maximum depth of soil investigation.

Due to the project objectives, seasonality was not assessed as part of the investigation. Data are therefore representative of the site conditions at the time of sampling.

6.1.5 Develop a Decision Rule

Soil analytical data were assessed against the appropriate criteria as identified in **Section 6**. Statistical analyses of soil data were undertaken, where appropriate, in accordance with relevant guidance documents. The following statistical criteria were utilised:

- The 95 % Upper Confidence Limit (UCL) on the average concentration for each analyte (calculated for samples collected from consistent soil horizons, stratigraphy or material types) must be below the adopted criterion;
- No single analyte concentration shall exceed 250 % of the adopted criterion; and
- The standard deviation of the results must be less than 50 % of the criterion.

The decision rules adopted to answer the decisions identified in **Section 5.1.2** are summarised in **Table 5.1**.

Table 5.1 Summary of Decision Rules

Decisions Required to be Made	Decision Rule
1. Are there any unacceptable risks to onsite future receptors?	Soil analytical data were compared against EPA endorsed criteria. Statistical analysis of the soil data was completed in accordance with relevant guidance documents, as appropriate, to facilitate the decisions. The criteria in **Section 6**, and the following statistical criteria were adopted with respect to soils: Either: the reported concentrations were all below the site criteria; Or: the average site concentration for each analyte was below the adopted site criterion; no single analyte concentration exceeded 250 % of the adopted site criterion; and the standard deviation of the results was less than 50 % of the site criterion; And: the 95 % UCL of the average concentration for each analyte was below the adopted site criterion. If the statistical criteria stated above were satisfied, the answer to the decision is **No**. If the statistical criteria were not satisfied, the answer to the decision is **Yes**.
2. Are there any issues relating to the local area background soil concentrations that exceed appropriate criteria?	If COPC concentrations in soils exceeded published background concentrations (NEPC 2013), the answer to the decision was Yes. Otherwise the answer to the decision was No.
3. Are there any impacts of chemical mixtures?	Were there more than one group of contaminants present which increase the risk of harm? If there is, the answer to the decision was Yes. Otherwise, the answer to the decision was No.
4. Are there any unacceptable aesthetic issues?	If there were any ACM fragments on the ground surface, any unacceptable odours or soil discolouration, or excessive extraneous/foreign/waste materials, the answer to the decision was Yes. Otherwise, the answer to the decision was No.
5. Is there any evidence of, or potential for, migration of contaminants from the assessment area?	Based on assessment results, was there any evidence of, or the potential for, migration of unacceptable contaminant concentrations to migrate from the assessment area? If yes, the answer to the decisions was Yes. Otherwise, the answer to the decision was No.
6. Is a Site management strategy required?	Is the answer to any of the above decisions Yes? If Yes, a Site management strategy is required. If No, a Site management strategy is not required.

6.1.6 Specific Limits on Decision Errors

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.

EPA (1995[10]), indicates that a site investigator should maintain a confidence level no lower than 95 %. As such, for the assessment of soil samples, the 95 % upper confidence limit for contaminant concentrations were compared to the adopted site assessment guidelines where required, providing the statistical criteria in **Table 5.1** are met.

Specific limits for this project have been adopted in accordance with the appropriate guidance from the NEPM (NEPC 2013), appropriate Data Quality Indicators (DQIs, used to assess QA/QC) and standard JBS&G procedures for field sampling and handling.

To assess the usability of the data prior to making decisions, the data were assessed against pre-determined DQIs for 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 detailed in **Table 5.2**.

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

[10] *'Contaminated Sites: Sample Design Guidelines'*, NSW Environment Protection Authority, ISBN 0 7310 3746 1, September 1995, EPA (1995)

Table 5.2 Data Quality Indicators

Data Quality Indicators	Frequency	Data Quality Criteria
Precision		
Split duplicates (intra laboratory)	1 / 20 samples	<30%[1] RPD
Blind duplicates (inter laboratory)	1 / 20 samples	
Laboratory Duplicates	1 / 20 samples	<30 % RPD[1]
Accuracy		
Surrogate spikes	All organic samples	70-130 %
Laboratory control samples	1 per lab batch	70-130 %
Matrix spikes	1 per lab batch	70-130 %
Representativeness		
Sampling appropriate for media and analytes	All samples	-[2]
Samples extracted and analysed within holding times.	-	Soil: organics (14 days), inorganics (6 months)
Laboratory Blanks	1 per lab batch	<LOR
Trip spike	1 per lab batch	70-130% recovery
Trip blank	1 per lab batch	<LOR
Comparability		
Standard operating procedures for sample collection & handling	All Samples	All Samples
Standard analytical methods used for all analyses	All Samples	NATA accreditation
Consistent field conditions, sampling staff and laboratory analysis	All Samples	All samples[2]
Limits of reporting appropriate and consistent	All Samples	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 was 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 was completed during the DQI compliance assessment.

6.2 Optimise the Design of Obtaining Data

JBS&G (2020) previously carried out sampling from nine locations on the site. The NSW *Sampling Design Guidelines* (EPA 1995) recommends approximately 30 sampling locations for a site covering approximately 1.8 ha. Therefore, JBS&G carried out soil sampling at 21 generally grid-based locations across the site to compliment the 9 locations sampled by JBS&G (2020).

The soil sampling and analysis program is summarised in **Table 6.3**. Soil sampling locations are shown on **Figure 3**.

6.3 Investigation Methodology

6.3.1 Soil Sampling Methodology

Soil sampling was completed via a drill rig using solid flight augers (BH01 to BH09) or push tubes (BH10 to BH21). Soil samples were collected from the soil surface or immediately underlying hardstand pavements, at 0.2 m, 0.5 m bgs, 1.0 m bgs and every meter thereafter to a maximum depth of 6 m bgs. Boreholes BH01 and BH09 were used to target fill material and all of these

boreholes encountered refusal on concrete at depth between 1 and 1.2 m bgs. Boreholes BH10 to BH21 were drilled to minimum depth of 2.2 m bgs, with boreholes BH12, BH17, BH18, BH19, BH20 and BH21 extended to depths between 5 and 6 m bgs to target PASS.

During the collection of soil samples, features such as seepage, discolouration, staining, odours and other indicators of contamination were noted on investigation logs (**Appendix J**). A calibrated PID was utilised to screen for VOCs within the sampled material. Field calibration of the PID are provided in Appendix

Soil samples were collected directly from split push tube liners or from the solid flight augers, using a new disposable pair of nitrile gloves for each sample, and immediately transferred to laboratory supplied sample jars and bags. For asbestos analysis, 500 mL soil samples were collected for asbestos analysis consistent with NEPC (2013). The sample containers were then transferred to a chilled esky for sample preservation 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.

Based upon field observations, samples were analysed in accordance with the analytical schedule detailed in **Table 6.3**.

6.3.2 Decontamination

Decontamination of soil sampling equipment was not required for sampling from boreholes using push tubes sampling. All soil was removed from the augers between sampling locations when soil samples were collected using solid flight augers.

6.3.3 Duplicate and Triplicate Sample Preparation

At selected soil sample locations, sufficient soil was collected to provide a primary, blind (intra-laboratory) duplicate and split (inter-laboratory) duplicate (triplicate) sample using the sampling methodology outlined above.

The collected soil samples were divided laterally into three samples with minimal disturbance to reduce the potential for loss of volatiles and placed in three clean glass jars and sample bags as appropriate. Soil samples were not homogenised in order to minimise the loss of volatiles.

Each sample was labelled with primary, duplicate or triplicate sample identification before being placed in the same chilled esky for transport to the laboratory.

6.3.4 Laboratory Analysis

JBS&G contracted Eurofins Environment Testing (Eurofins) as the primary laboratory and Envirolab Services Pty Ltd (Envirolab) as the secondary laboratory for the required chemical analyses. In addition to meeting their NATA quality requirements, the laboratories were required to meet JBS&G's internal QA/QC requirements. The completed analysis schedule is summarised in **Table 6.3.**

Table 6.3 Analytical Schedule

Sampling Pattern	No. Locations	Laboratory Analyses (excludes QA/QC)
Soil Grid based	21 boreholes	TRHs/BTEXN, 21 samples PAHs, 21 samples Heavy Metals (As, Cd, Cr, Cu, Hg, Ni, Pb, Zn), 25 samples OCP, 21 samples OPPs, 21 samples Asbestos (500ml) + Visual Inspection, 21 samples SPOCAS – 16 samples

In addition to the above primary analyses, to address the DQIs, field duplicate and triplicate soil samples were analysed at a rate of one per 20 primary samples.

7. Assessment Criteria

7.1 Regulatory Guidelines

Nominated criteria were adopted from NEPC (2013) included:

Health Based Criteria:

- Section 4 Table 7 'Health Screening Levels (HSLs) for Asbestos Contamination in Soils';
- Section 6 Table 1A(1) 'Health Investigation Levels (HILs) for Soil Contaminants'; and
- Section 6 Table 1A(3) Soil HSLs for Vapour Intrusion.

Given the proposed land use identified in **Section 1.1**, the land use scenario adopted for the assessment was commercial/industrial (HIL-D and HSL-D).

NEPC (2013) provides criteria for assessment of asbestos in soils, including asbestos containing materials (ACM) and fibrous asbestos/asbestos fines (FA/AF). The relevant criteria are summarised in **Table A**.

Ecological Screening Levels:

It is noted that the site will be mostly paved and ecological exposure pathways will be incomplete. Ecological screening levels and ecological investigation levels has been included for comparative purposes only.

Ecological Screening Levels (ESLs) for the site were obtained from Table 1B in Section 6 'ESLs for TRH Fractions F1-F4 and BTEX in Soil' under the 'Commercial/Industrial' land use scenario. ESLs for both coarse and fine textured soils were considered given both soil types were present in top 2 m of soil.

CRC CARE (2017[11]) provides alternative ESLs for B(a)P than those provided in NEPC (2013). The alternative ESLs are based on higher reliability, species sensitivity distribution data than was used to calculate the ESLs provided in NEPC (2013). CRC CARE (2017) provides an alternative ESLs for B(a)P for commercial/industrial of 172 mg/kg. It is noted that upon review of CRC CARE (2017) by NSW Office of Environment and Heritage, Environment Protection Science Branch, adjusted ESLs were derived providing a value of 67 mg/kg for B(a)P, which has been adopted as the B(a)P ESL for the site.

Management Limits:

Management limits for consideration of the formation of Light Non-Aqueous Phase Liquids (LNAPLs), fire and explosive hazards, and effects on buried infrastructure were obtained from Table 1B(7) 'Management Limits for TPH Fractions F1-F4 in Soil' for commercial/industrial land uses. The soil texture adopted for comparison of results was determined based on observations made during the assessment, noting that surface soils comprised both coarser sands and finer clays. Both coarse and fine soil limits are presented in **Table A**.

Acid Sulfate Soils

The assessment of acid sulfate soil conditions was completed via use of laboratory sPOCAS analysis methods with the results compared to the site acid sulfate soil action criteria published in the *Acid Sulfate Soil Manual* (ASSMAC 1998[12]), as presented in **Table A.** Where results exceeded the site action criteria, material was considered to comprise Potential/Actual Acid Sulfate Soil.

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

[12] *Acid Sulfate Soil Manual*, New South Wales Acid Sulfate Management Advisory Committee, August 1998 (ASSMAC 1998)

8. Quality Assurance/Quality Control

8.1 QA/QC Results

QA/QC results for the sampling is summarised in **Table 8.1** and discussed in **Section 8.2**. Detailed QA/QC results are included in the laboratory reports in **Appendix L**, and in the QA/QC summary provided in **Appendix M**. A QA/QC assessment has also been undertaken on the data collected as part of the PSI (JBS&G 2020) undertaken in January 2020.

Table 8.1: QA/QC Results Summary

Data Quality Indicator	Results	DQI met?
Precision		
Blind duplicates (intra laboratory)	0-111 % RPD Intra laboratory duplicates analysed at 8 %	Partial[1]
Blind triplicates (inter laboratory)	0-115 % RPD Intra laboratory duplicates analysed at 8%	Partial[1]
Laboratory duplicates	0 - 100 % RPD	Partial[1]
Accuracy		
Surrogate spikes	Not determined - 150 % Recovery	Partial[1]
Laboratory Control Samples	70-130% Recovery	Yes
Matrix spikes	70 - 130% Recovery	Yes
Representativeness		
Sampling appropriate for media and analytes	All sampling conducted in accordance with JBS&G procedures	Yes
Laboratory blanks	<LOR	Yes
Samples extracted and analysed within holding times.	All primary samples analysed were extracted and analysed within holding times.	Yes
Trip spikes	98-130%	Yes
Trip blanks	<LOR	Yes
Comparability		
Standard operating procedures used for sample collection & handling	One JBS&G field scientist used standard operating procedures throughout works.	Yes
Standard analytical methods used	Standard analytical methods detailed in the laboratory reports **Appendix L**.	Yes
Consistent field conditions, sampling staff and laboratory analysis	Sampling was conducted by two field personnel using standard operating procedures in the same conditions throughout the works. The laboratories remained consistent throughout the investigation.	Yes
Limits of reporting appropriate and consistent	Limits of reporting were consistent between laboratories	Yes
Completeness		
Soil description & Chains of Custody completed	All borehole logs and Chains of Custody were completed appropriately.	Yes
Appropriate documentation	All appropriate field documentation processes were undertaken. Borehole logs and calibration records are included in **Appendix J** and **Appendix K** respectively.	Yes
Satisfactory frequency/result for QC samples	The QC results are considered adequate for the purposes of the investigation.	Yes
Data from critical samples is considered valid	Data from critical samples is considered valid.	Yes
Sensitivity		
Analytical limits of reporting generally appropriate for adopted site assessment criteria	Appropriate laboratory detection limits were achieved for all soil analyses.	Yes

1. See discussion of DQI exceedances in **Section 8.2**.

8.2 QA/QC Discussion

8.2.1 Precision

The RPDs for the intra-laboratory and inter-laboratory duplicates are presented in **Appendix M**.

With the exceptions of some metals in three soil duplicate pairs (BH02 0.9-1/QC 2021005-01, BH04 0.2-0.3/QC 20210805-02, MW2_0.5/QA03) the RPDs for primary and blind duplicate samples met the DQI. The elevated RPDs for metals suggests some heterogeneity in the fill material sampled. However, the concentrations of metals with elevated RPDs were all well below adopted assessment criteria and are considered to not affect the reliability of the data for site assessment. As a conservative measure the highest concentration has been taken into consideration in assessing the site.

With the exceptions of heavy metals in two soil duplicate pairs (BH02 0.9-1/QA20210805-01 and BH04 0.2-0.3/QA20210805-02) and one water duplicate pair (MW2/QC) the RPDs for primary and split duplicate samples met the DQI. The elevated RPDs for metals in soils suggests some heterogeneity in the fill material sampled. However, the concentrations of metals in soil samples with elevated RPDs were all well below adopted assessment criteria and are considered to not affect the reliability of the data for site assessment. Similarly, elevated RPDs for arsenic and chromium in a water primary/duplicate pair are considered to not affect the reliability of the data as the concentrations in water samples are considered representative of background concentrations in the area. As a conservative measure the highest concentration has been taken into consideration in assessing the site.

With the exceptions of magnesium-peroxide in one sample, dieldrin in one sample and lead and copper in one sample, the RPDs for laboratory duplicates analysed were reported within the acceptable limits. Review of results of analyses for laboratory duplicates with elevated RPDs indicated that concentrations of the respective analytes were all significantly below adopted criteria. Therefore, the elevated RPDs do not affect the reliability of the data for the site assessment.

8.2.2 Accuracy

Surrogate spike recoveries for soil and water samples were generally within the acceptable range of 70-130 %, with the exceptions of some OCP/PCB, PAH, BTEX and OPP surrogate recoveries. Elevated recoveries indicate that potentially reported concentrations are greater than actual concentrations present in the samples and vice versa for low surrogate recoveries. Taking into consideration COPC concentrations were well below adopted criteria, the low or elevated surrogate recoveries do not affect the reliability of the data for assessing potential risks from contaminants at the site.

The laboratory reported that the percent recovery for the semi-volatile TRH surrogate for sample QA02 was not possible to report as the concentration of analytes in the sample had caused interference.

Chromatographic interference did not allow determination of surrogate recoveries for one of two OCP/PCB surrogates in two samples and one of two OCP/PCB surrogates in five soil samples and an OPP surrogate in one sample. The chromatographic interference did not affect the LOR for the analytes and is not considered to affect the reliability of the data for the site assessment, considering the acceptable recovery was obtained for the second surrogate for OCP/PCB, and OPPs were not detected above the LOR in any of the samples.

Laboratory control sample (LCS) recoveries were within the acceptable range of 70-130 %.

Matrix spike recoveries were within the preferred range of 70-130 % for all samples relevant to the site.

On this basis the DQIs for accuracy are considered to have been achieved for this investigation.

8.2.3 Representativeness

The extraction and analysis of soil samples were completed within the recommended holding times for all analytes.

One trip spike was submitted with the soil samples collected during the assessment. Trip spike recoveries for analytes was within the acceptable limit of 70-130 %, indicating there was a low potential for loss of volatile compounds during transport.

A trip blank was submitted with the soil samples collected during the assessment. There were no reported concentrations of BTEX compounds above the laboratory LOR, which indicated there was a low potential for cross contamination of samples by volatile compounds.

A rinsate sample was not obtained from the solid flight augers used for collection soil samples from boreholes BH01 to BH09. However, noting that all materials were dislodged from the augers between sampling locations and that concentrations of COPCs in samples collected from BH01 to BH09 were below adopted criteria, the decontamination procedures are considered adequate.

Based on the above comments the DQIs for representativeness were considered to have been satisfactorily achieved.

8.2.4 Comparability

Eurofins, the primary laboratory, and Envirolab Services, the secondary laboratory, are NATA accredited for all analytical methods used. The laboratories used similar analytical methods and the analytical data were comparable between laboratories as indicated by the results of duplicate analysis. Where different LORs were adopted by the laboratories, this did not impact upon the usability of the data given that all values were considerably less than the adopted assessment criteria.

The samples collected for assessment purposes are considered comparable as all samples were collected by an experienced JBS&G field scientist in accordance with standard JBS&G sampling methods.

8.2.5 Completeness

All laboratory and field documentation are complete and correct. Chain of custody documentation is provided with laboratory reports in **Appendix L**. Borehole and test pit logs are presented in **Appendix M**.

The frequency of analysis of all QA/QC samples was considered appropriate and valid.

8.2.6 Sensitivity

The adopted analytical methods provided suitable LORs with respect to the adopted site assessment criteria.

8.2.7 QA/QC Conclusions

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

The NATA certified laboratory reports indicate that the project laboratories were achieving levels of performance within its 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.

9. Observations and Results of Analysis

9.1 Soil Sampling

Detailed laboratory reports and chain of custody documentation are provided in **Appendix L**. Summarised soil analytical data for COPCs are presented in **Table A** and discussed in the following sections.

9.1.1 Observations

Drilling works were undertaken on 5 and 6 August 2021 to collect soil samples from twenty-one borehole locations (BH01 to BH21) to compliment the nine soil locations (SB1 to SB4, MW1 to MW5) sampled in January 2020. Sampling locations are shown on **Figure 3** and borelogs are provided as **Appendix J**.

Concrete pavement approximately 150-200 mm thick was present at all boreholes. Fill was encountered at each location, underlying the slab at depths ranging from 1-2 m bgs. It is noted that refusal in fill was encountered at locations Bh01-BH09, where a secondary slab was encountered. The fill comprised of gravelly sandy clay with varying levels of inclusions that comrpised crushed sandstone, plastic and tile. The fill was underlain by natural sands to the maximum depth of the investigation (5 m bgs). No ACM was observed within the materials assessed. In addition, no odours or staining as potentially associated with contamination was observed throughout the materials. However, sulphidic odours were noted within natural sand materials at depth.

9.1.2 Soil Analytical Results - Metals

Review of results of analysis summarised in **Table A** indicates all metals concentrations were less than the adopted HILs.

Although some metals concentrations were greater than generic EILs, as identified in **Section 7.1**, these metals concentrations do not affect the suitability of the site for the proposed development as the ecological exposure pathways will be incomplete.

9.1.3 Soil Analytical Results - PAHs

Review of results of analysis summarised in **Table A** indicates that with the following exception, concentrations of total PAH, and benzo(a)pyrene (B(a)P) and carcinogenic PAHs as B(a)P Toxic Equivalence Quotient (TEQ) values for analysed samples were below the adopted site HILs:

- 56 mg/kg B(a)P TEQ in BH11 0.9-1, which exceeded the HIL of 40 mg/kg.

The 95% Upper Confidence Limit (UCL) on the B(a)P TEQ mean concentration in fill samples, for data collected in 2020 and 2021, was calculated using ProUCL[13]. The 95% UCL for B(a)P TEQ was calculated to be 10.82 mg/kg, which was below the adopted criterion of 40 mg/kg, and the standard deviation of B(a)P TEQ concentrations was 9.84 mg/kg.

The data used in the ProUCL calculations and the ProUCL output is included in **Appendix N**.

B(a)P concentrations where below ESLs.

9.1.4 Soil Analytical Results - TRH

Review of results of analysis summarised in **Table A** indicates concentrations of TRH were less than the adopted HSLs.

Review of results of analysis indicated TRH C10-C16 and C16-34 in BH11 0.9-1 (<2500 mg/kg and <5000 mg/kg) exceeded the respective management limits (1000 mg/kg and 3500 mg/kg). The TRH limits of reporting had to be raised in this sample due to matrix interference. It is noted that

[13] ProUCL Version 5.1.002

elevated PAHs were recorded in this sample, which is attributed to old asphaltic pavement, which is considered to no represent a TRH management risk, therefore, no further consideration of TRH at this location is warranted.

9.1.5 Soil Analytical Results - BTEXN

Review of results of analysis in **Table A** indicates BTEXN concentrations did not exceed HSLs for vapour intrusion, ESLs or EILs. All concentrations were below laboratories LOR.

9.1.6 Soil Analytical Results - PCBs

Concentrations of total PCB compounds were reported below the LOR and adopted health criteria for all soil samples selected for analysis.

9.1.7 Soil Analytical Results – OCPs

Review of results of analysis summarised in **Table A** indicates that concentrations of OCPs for analysed samples were below the adopted site HILs.

It is noted that 82 mg/kg aldrin + dieldrin were recorded in sample MW4_1.0 in the 2020 sampling and exceeded the health-based criterion of 45 mg/kg. The 95% Upper Confidence Limit (UCL) on the aldrin + dieldrin mean concentration in fill samples was calculated using ProUCL. The 95% UCL for aldrin + dieldrin was calculated to be 18.48 mg/kg, which was below the adopted criterion of 45 mg/kg, and the standard deviation of aldrin + dieldrin concentrations was 16.7 mg/kg.

The data used in the ProUCL calculations and the ProUCL output is included in **Appendix N**.

9.1.8 Soil Analytical Results - Asbestos

Asbestos was not observed in fill material in any of the sampling locations. Asbestos was not detected in any soil samples submitted for analysis and, therefore, concentrations of asbestos in soil were all below adopted criteria.

9.1.9 Soil Analytical Results – SPOCAS

Nine samples were collected from the shallow unsaturated (< 1.5 m) fill and clayey sand materials and assessed for the presence of ASS via the sPOCAS analysis method in which none of the samples reported PASS characteristics.

In addition, six samples collected within natural sand materials in which the results are detailed following:

- The peroxide oxidisable sulfur ranged from <0.02-0.52% S; and
- The recorded TSA ranged from <2 to 50 mol H^+/t.

Based on the results from the natural sand soils, it appears that some of the materials comprise of PASS and will therefore require management during construction activities that result in their disturbance.

10. Discussion

In order to assess the suitability of the site for the proposed use, the decisions required to be made as set out in **Section 6.1.2**, are discussed below.

10.1 Potential Risks to Future On-site Receptors

Based on the results of soil sampling and analysis it is considered that concentrations of COPCs in fill and soils within the site are suitable for commercial/industrial landuse.

Based on the results of the current investigation, presented in **Section 9**, and results of targeted soil and groundwater assessment by JBS&G (2020), concentrations of COPC in fill and soils at the site do not pose a potential risk to future site receptors.

10.2 Background Soil Concentrations

Some contaminants were identified in site soils at concentrations exceeding generic EILs. However, the concentrations are considered representative of what are representative of background concentrations in the area, which has been used for commercial/industrial purposes for mre than 80 years.

As such, no evidence of background contamination of site media has been identified.

10.3 Chemical Mixtures

There were no chemical mixtures identified during the site investigation that may increase the risk of harm at the site.

10.4 Aesthetic Issues

Potential aesthetic issues identified during the current investigation were limited to odourous soils encountered associated with PASS. The odourous soils encountered are considered to not pose an aesthetic issue based on the proposed development where most of the site will be paved and underlying soils will be inaccessible.

10.5 Potential Migration of Contaminants

Based on the concentrations of COPCs recorded in soils in the previous (JBS&G 2020) and current investigation, and the results of targeted groundwater assessment completed by JBS&G (2020), the potential for migration of contaminants from the site is considered to be low.

10.6 Site Management Strategy

Based on the results of intrusive site investigations and discussions provided in **Sections 10.1 to 10.5**, the site does not require a site management for on-going commercial industrial use.

11. Conclusions and Recommendations

Based on the results of the assessment, and in accordance with the limitations in **Section 12**, it is concluded that the site is suitable for commercial/industrial landuse.

It is recommended that a Construction Environmental Management Plan (CEMP) be prepared for the future site redevelopment works to identify typical site management controls and makes provisions for unexpected finds. In addition, an Acid Sulfate Soil Management Plan (ASSMP) will be required to detail the management requirements for future construction works that result in the disturbance of natural sand materials at the site which have been identified to comprise of PASS.

12. 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 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.

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 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, who should make their own enquires.

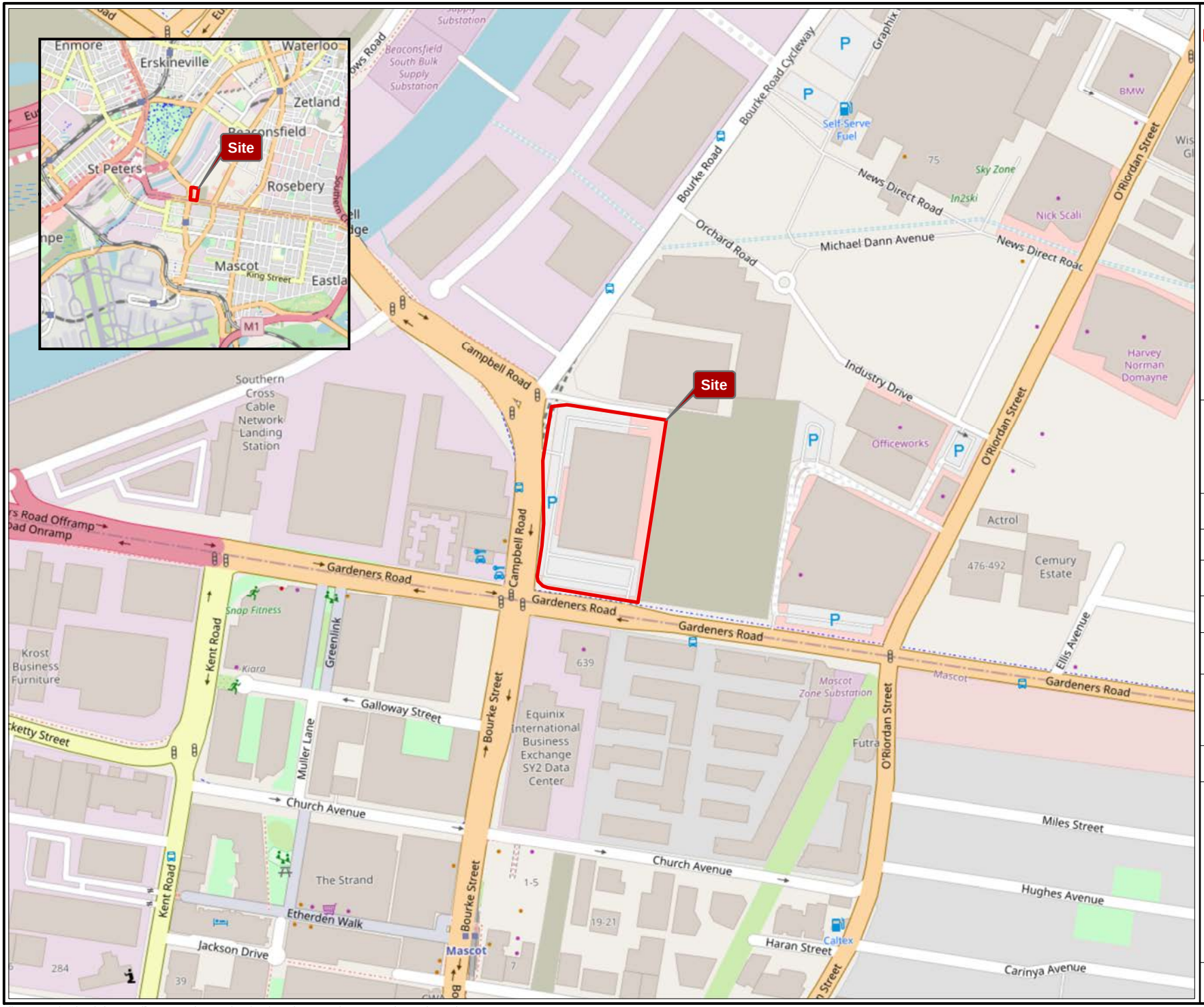
Sampling and chemical analysis of environmental media is based on appropriate guidance documents made and approved by the relevant regulatory authorities. Conclusions arising from the review and assessment of environmental data are based on the sampling and analysis considered appropriate based on the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

Limited sampling and laboratory analyses were undertaken as part of the investigations undertaken, as described herein. Ground 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 subsurface conditions may occur subsequent to the investigations described herein, through natural processes or through the intentional or accidental addition of contaminants. The conclusions and recommendations reached in this report are based on the information obtained at the time of the investigations.

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

Figures



Legend

Approximate Site Boundary

JBS&G

Job No: 61301	
Client: Charter Hall	
Version: R01 Rev A	Date 25/08/2021
Drawn By: JA	Checked By: JDM

Scale 1:5,000

0 50 100

metres

Coord. Sys. GDA 1994 MGA Zone 56

520-530 Gardeners Road, Alexandria, NSW, 2015

SITE LOCATION

FIGURE 1

File Name: N:\Projects\Charter Hall\61301 Gardeners Rd DSI\GIS\Maps\R01 Rev A\61301_01_SiteLocation.mxd

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



Legend

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

Historic Sample Location

- Monitoring Well (JBS&G 2020)
- Soil Bore (JBS&G 2020)
- Sub Slab Vapour (JBS&G 2020)

JBS&G

Job No: 61301

Client: Charter Hall

Version: R01 Rev A	Date 25/08/2021
Drawn By: JA	Checked By: JDM

Scale 1:1,250

0 10 20
metres

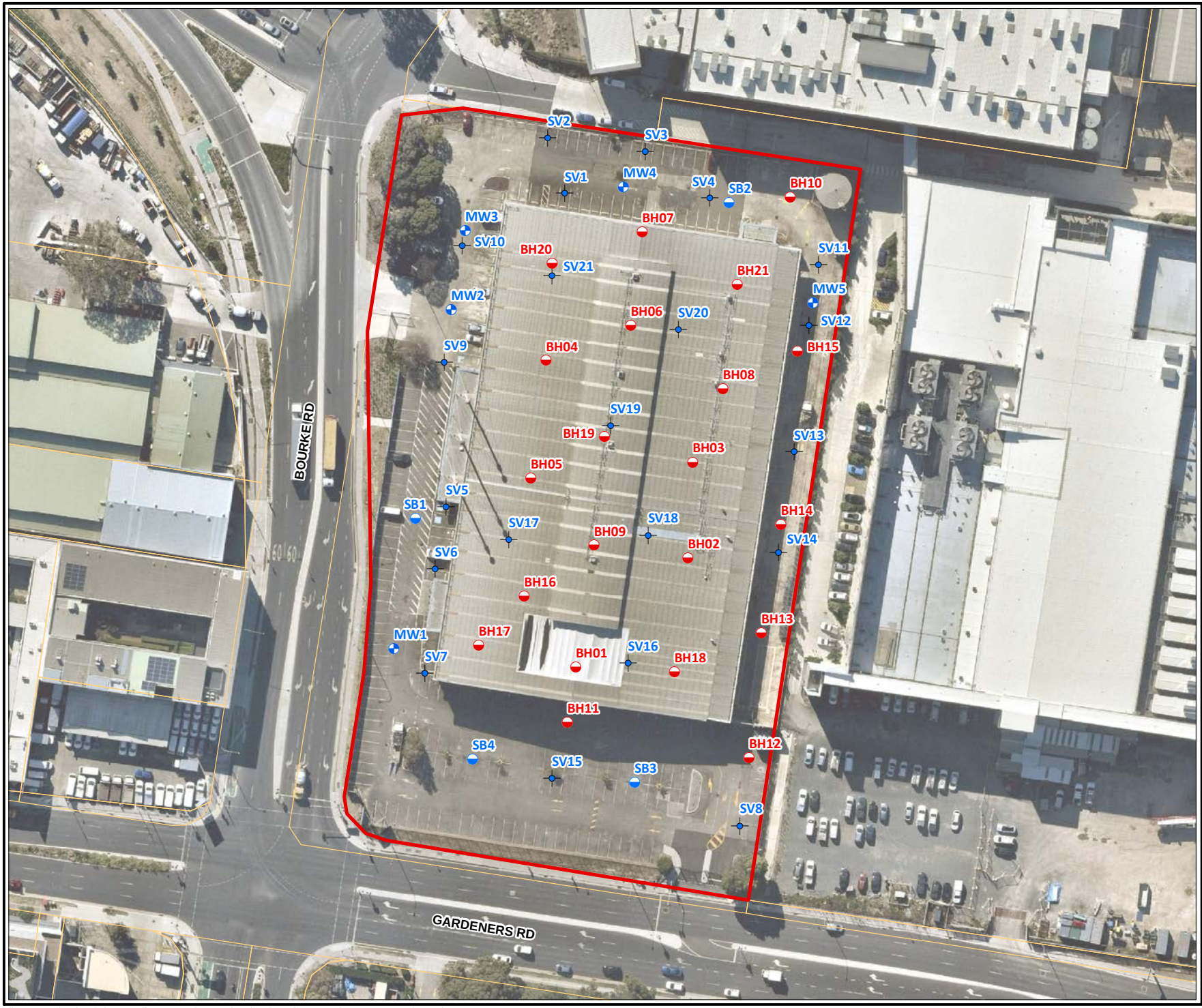
Coord. Sys. GDA 1994 MGA Zone 56

520-530 Gardeners Road, Alexandria, NSW, 2015

SITE LAYOUT AND HISTORIC SAMPLE LOCATIONS

FIGURE 2

File Name: N:\Projects\Charter Hall\61301 Gardeners Rd DSI\GIS\Maps\R01 Rev A\61301_02_SiteLayout.mxd
Reference: Nearmap - www.nearmap.com.au (Capture Date: 06/08/2021)



Legend

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

Historic Sample Location

- Monitoring Well (JBS&G 2020)
- Soil Bore (JBS&G 2020)
- Sub Slab Vapour (JBS&G 2020)

Sample Location

- Borehole (JBS&G 2021)

JBS&G

Job No: 61301	
Client: Charter Hall	
Version: R01 Rev A	Date 25/08/2021
Drawn By: JA	Checked By: JDM
Scale 1:1,250	

0 10 20
metres

Coord. Sys. GDA 1994 MGA Zone 56

520-530 Gardeners Road, Alexandria, NSW, 2015

SAMPLE LOCATIONS

FIGURE 3

File Name: N:\Projects\Charter Hall\61301 Gardeners Rd DSI\GIS\Maps\R01 Rev A\61301_03_Samples.mxd
Reference: Nearmap - www.nearmap.com.au (Capture Date: 06/08/2021)

Appendix A Summary Tables

Table A - Results of Soil Analysis
Project Number: 61301
Project Name: Gardeners Rd 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	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	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	0.1	0.5
ASSMAC (1998) Action Criteria (Coarse >1000 tonnes disturbed)																																
ASSMAC (1998) Action Criteria (Coarse 1-1000 tonnes disturbed)																																
ASSMAC (1998) Action Criteria (Fine >1000 tonnes disturbed)																																
ASSMAC (1998) Action Criteria (Fine 1-1000 tonnes disturbed)																																
NEPM 2013 Site Specific EIL - Comm/Ind					160		660	290	1800		470	800																			370	
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil					3000	900	3600	240000	1500	730	6000	400000																				
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay 0-1m																							310	NL	4	NL	NL			NL	NL	NL
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand 0-1m																							260	NL	3	NL	NL			230	NL	NL
NEPM 2013 Table 1B(1-5) Generic EIL - Comm/Ind					160		310	85	1800		55	110																			370	370
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil																				1700	3300		215	170	75	135	165			180		
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil																				2500	6600		215	170	95	135	185			95		
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Coarse Soil																		700	1000	3500	10000											
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil																		800	1000	5000	10000											
NEPM 2013 Table 7 Comm/Ind D Soil HSL for Asbestos in Soil																																
Field_ID	**Location_Code**	**Sample_Depth_Range**	**Sampled_Date_Time**	**Matrix_Description**																												
BH01 0.2-0.3	BH01	0.2-0.3	5/08/2021	Fill,clay	27	<0.4	13	13	17	<0.1	6.2	44	<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
BH01 0.2-1	BH01	0.2-1	5/08/2021	Fill,clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH02 0.2-1	BH02	0.2-1	5/08/2021	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH02 0.9-1	BH02	0.9-1	5/08/2021	Fill, clayey sand	15	<0.4	17	17	33	<0.1	6.8	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
QA20210805-01	BH02	0.9-1	5/08/2021	BH02 0.9-1	8	<0.4	12	16	20	<0.1	8	59	<25	<50	<100	<100	<50	<25	<50	<100	<100	<50	<25	<50	<0.2	<0.5	<1	<1	<2	<3	<0.1	-
QC 2021005-01	BH02	0.9-1	5/08/2021	BH02 0.9-1	9.6	<0.4	12	14	24	<0.1	6.3	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
BH03 0.4-0.5	BH03	0.4-0.5	5/08/2021	Fill, sandy clay	14	<0.4	14	6.5	29	<0.1	<5	27	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
BH03 0-1	BH03	0-1	5/08/2021	Fill, sandy clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH04 0.2-0.3	BH04	0.2-0.3	5/08/2021	Fill, sandy clay	7	<0.4	13	17	22	<0.1	12	66	<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
BH04 0.2-1	BH04	0.2-1	5/08/2021	Fill, sandy clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH05 0.9-1	BH05	0.9-1	5/08/2021	Fill, sandy clay	7.9	<0.4	16	9.9	21	<0.1	<5	32	<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
BH06 0.2-0.3	BH06	0.2-0.3	5/08/2021	Fill, clay	4	<0.4	6.3	8.9	11	<0.1	<5	20	<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
QA20210805-02	BH06	0.2-0.3	5/08/2021	BH06 0.2-0.3	6	<0.4	10	33	17	<0.1	8	47	<25	<50	<100	<100	<50	<25	<50	<100	<100	<50	<25	<50	<0.2	<0.5	<1	<1	<2	<3	<0.1	-
QC 2021005-02	BH06	0.2-0.3	5/08/2021	BH06 0.2-0.3	6.1	<0.4	10	20	19	<0.1	8.6	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
BH07 0.2-0.3	BH07	0.2-0.3	5/08/2021	Fill, gravelly sandy clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH07 0.2-1	BH07	0.2-1	5/08/2021	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH07 0.4-0.5	BH07	0.4-0.5	5/08/2021	Fill, sandy clay	8.2	<0.4	13	14	28	<0.1	8.5	79	<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
BH08 0.2-0.3	BH08	0.2-0.3	5/08/2021	Fill, sandy clay	8.8	<0.4	13	21	57	<0.1	9.4	100	<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
BH08 0.2-1	BH08	0.2-1	5/08/2021	Fill, sandy clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH09 0.2-1	BH09	0.2-1	5/08/2021	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH09 0.4-0.5	BH09	0.4-0.5	5/08/2021	Fill, sandy clay	5.8	<0.4	9	13	21	<0.1	<5	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
BH10 0.2-1	BH10	0.2-1	6/08/2021	Fill, sandy, gravelly clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH10 0.9-1	BH10	0.9-1	6/08/2021	Fill, sandy, gravelly clay	2.1	<0.4	12	41	460	<0.1	5.3	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
BH10 1-2	BH10	1-2	6/08/2021	Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH11 0.2-0.9	BH11	0.2-0.9	6/08/2021	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH11 1-2	BH11	1-2	6/08/2021	Sand	<2	<0.4	<5	<5	<5	<0.1	<5	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH11.9-1.0	BH11	0.9-1	6/08/2021	Fill, sandy gravel	2.4	<0.4	35	69	78	<0.1	20	46	<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
BH12 0.2-0.5	BH12	0.2-0.5	6/08/2021	Fill, sandy clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH12 0.4-0.5	BH12	0.4-0.5	6/08/2021	Fill, sandy clay	2.3	<0.4	17	46	13	<0.1	6.1	38	<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
BH12 1-2	BH12	1-2	6/08/2021	Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH12 3-4	BH12	3-4	6/08/2021	Sand	3.3	<0.4	8.5	<5	6	<0.1	<5	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH12 5-6	BH12	5-6	6/08/2021	Sand	<2	<0.4	<5	<5	<5	<0.1	<5	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH13 0.2-1	BH13	0.2-1	6/08/2021	Fill, clayey sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH13 0.9-1	BH13	0.9-1	6/08/2021	Fill, concrete	2.9	<0.4	7.9	<5	<5	<0.1	<5	5.6	<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
BH13 1-2	BH13	1-2	6/08/2021	Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14 0.2-1	BH14	0.2-1	6/08/2021	Fill, sandy clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14 1-2	BH14	1-2	6/08/2021	Sand	5.1	<0.4	<5	10	10	<0.1	<5	11	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
BH15 0.2-1	BH15	0.2-1	6/08/2021	Fill, sandy, gravelly clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH15 0.4-0.5	BH15	0.4-0.5	6/08/2021	Fill, sandy, gravelly clay	2.8	<0.4	13	13	37	0.2	6.3	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
BH16 0.2-1	BH16	0.2-1	6/08/2021	Fill, sandy clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH16 0.9-1	BH16	0.9-1	6/08/2021	Fill, concrete	2.8	<0.4	12	31	<5	<0.1	5.4	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
BH16 1-2	BH16	1-2	6/08/2021	Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH17 0.2-0.3	BH17	0.2-0.3	6/08/2021	Fill, sandy clay	8	<0.4	12	13	17	<0.1	5.1	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
BH17 0.2-1	BH17	0.2-1	6/08/2021	Fill, sandy clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH17 1-2	BH17	1-2	6/08/2021	Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH17 3-4	BH17	3-4	6/08/2021	Sand	2.2	<0.4	<5	<5	<5	<0.1	<5	<5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH18 0.2-1	BH18	0.2-1	6/08/2021	Fill, sandy clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH18 0.4-0.5	BH18	0.4-0.5	6/08/2021	Fill, sandy clay	8	<0.4	13	20	22	<0.1	6.8	49	<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
BH18 1-2	BH18	1-2	6/08/2021	Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH18 2.5-3	BH18	2.5-3	6/08/2021	Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH19 0.2-1	BH19	0.2-1	6/08/2021	Fill, sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH19 0.4-0.5	BH19	0.4-0.5	6/08/2021	Fill, sand	6.1	<0.4	9.9	8.5	15	<0.1	11	49	<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
BH19 1-1.5	BH19	1-1.5	6/08/2021	Fill, clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH19 3.2-4	BH19	3.2-4	6/08/2021	Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH20 0.2-1	BH20	0.2-1	6/08/2021	Fill, sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH20 0.4-0.5	BH20	0.4-0.5	6/08/2021	Fill, sand	6.8	<0.4	12	7.4	16	<0.1	6.6	40	<20	22	80	<50	102	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5

Table A - Results of Soil Analysis
Project Number: 61301
Project Name: Gardeners Rd 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	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	0.1	0.5
ASSMAC (1998) Action Criteria (Coarse >1000 tonnes disturbed)																												
ASSMAC (1998) Action Criteria (Coarse 1-1000 tonnes disturbed)																												
ASSMAC (1998) Action Criteria (Fine >1000 tonnes disturbed)																												
ASSMAC (1998) Action Criteria (Fine 1-1000 tonnes disturbed)																												
NEPM 2013 Site Specific EIL - Comm/Ind	160		660	290	1800		470	800																			370	
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil	3000	900	3600	240000	1500	730	6000	400000																				
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay 0-1m																			310	NL	4	NL	NL			NL	NL	NL
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand 0-1m																			260	NL	3	NL	NL			230	NL	NL
NEPM 2013 Table 1B(1-5) Generic EIL - Comm/Ind	160		310	85	1800		55	110																			370	370
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil																1700	3300		215	170	75	135	165			180		
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil																2500	6600		215	170	95	135	185			95		
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Coarse Soil														700	1000	3500	10000											
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil														800	1000	5000	10000											
NEPM 2013 Table 7 Comm/Ind D Soil HSL for Asbestos in Soil																												

Field_ID	Location_Code	Sample_Depth_Range	Sampled_Date_Time	Matrix_Description																										
BH21 0.2-1	BH21	0.2-1	6/08/2021	Fill, clayey sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH21 1-2	BH21	1-2	6/08/2021	Fill, sand	16	1.2	32	1900	770	0.2	42	800	<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
JBS&G 2020																														
MW1_0.2	MW1	0.2	24/01/2020	Fill, silty, clayey sand	5.3	<0.4	15	22	29	0.2	12	110	<20	<20	99	170	269	<20	<50	220	160	380	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
QA01	MW1	0.2	24/01/2020	MW1_0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC01	MW1	0.2	24/01/2020	MW1_0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW1_1.0	MW1	1	24/01/2020	Fill, silty, clayey sand	44	0.8	91	100	380	<0.1	130	480	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW1_4.0	MW1	4	24/01/2020	Clayey, silty sand	12	<0.4	200	45	25	<0.1	66	34	<20	<20	<50	54	54	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
MW2_0.5	MW2	0.5	24/01/2020	Fill, clayey sand	5.5	<0.4	7	6	18	<0.1	<5	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
QA03	MW2	0.5	24/01/2020	MW2_0.5	9.4	<0.4	11	21	33	<0.1	9.9	63	<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
QC03	MW2	0.5	24/01/2020	MW2_0.5	7	<0.4	10	23	30	0.1	11	84	<25	<50	<100	<100	-	<25	<50	<100	<100	<50	<25	<50	<0.2	<0.5	<1	<1	<2	<3	<0.1	-
MW2_2.0	MW2	2	24/01/2020	Clayey, silty sand	<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
MW3_0.2	MW3	0.2	24/01/2020	Fill, sandy clay	7.2	<0.4	10	14	43	<0.1	12	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
MW3_3.0	MW3	3	24/01/2020	Sand	<2	<0.4	<5	7.1	<5	<0.1	6.7	8.5	<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
MW4_1.0	MW4	1	24/01/2020	Fill, clayey, silty sand	3.7	0.4	29	100	1500	0.1	33	300	<20	<20	250	470	720	<20	<50	630	230	860	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
MW5_0.2	MW5	0.2	24/01/2020	Fill, clayey, silty sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW5_0.5	MW5	0.5	24/01/2020	Fill, clayey, silty sand	4.5	<0.4	13	79	220	<0.1	10	91	<20	80	1600	1000	2680	<20	190	2200	360	2750	<20	190	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
SB1_0.2	SB1	0.2	24/01/2020	Fill, silty sand	3.6	<0.4	14	28	37	0.1	9.5	58	<20	<20	220	410	630	<20	<50	500	340	840	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
SB1_0.5	SB1	0.5	24/01/2020	Fill, silty sand	5.5	<0.4	20	52	69	<0.1	16	95	<20	40	380	380	800	<20	69	590	370	1029	<20	69	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
SB2_0.2	SB2	0.2	24/01/2020	Fill, clayey, silty sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SB2_0.5	SB2	0.5	24/01/2020	Fill, clayey, silty sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SB2_1.0	SB2	1	24/01/2020	Fill, silty, clayey sand	6	0.4	20	270	720	0.1	29	200	<20	46	610	420	1076	<20	100	850	240	1190	<20	100	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
SB3_0.2	SB3	0.2	24/01/2020	Fill, clayey, silty sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SB3_0.5	SB3	0.5	24/01/2020	Fill, silty, clayey sand	4	<0.4	11	19	230	<0.1	<5	340	<20	<20	130	150	280	<20	<50	220	120	340	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
SB4_0.2	SB4	0.2	24/01/2020	Fill, clayey, silty sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SB4_0.5	SB4	0.5	24/01/2020	Fill, clayey, silty sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SB4_1.0	SB4	1	24/01/2020	Fill, clayey, silty sand	14	<0.4	5.2	7.2	17	<0.1	<5	51	<20	<20	150	63	213	<20	<50	180	<100	180	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5

Table A - Results of Soil Analysis
Project Number: 61301
Project Name: Gardeners Rd 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(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 - 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
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	0.5	0.5	0.5	0.5
ASSMAC (1998) Action Criteria (Coarse >1000 tonnes disturbed)																					
ASSMAC (1998) Action Criteria (Coarse 1-1000 tonnes disturbed)																					
ASSMAC (1998) Action Criteria (Fine >1000 tonnes disturbed)																					
ASSMAC (1998) Action Criteria (Fine 1-1000 tonnes disturbed)																					
NEPM 2013 Site Specific EIL - Comm/Ind																					
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil						40	40	40													4000
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay 0-1m																		NL			
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand 0-1m																		NL			
NEPM 2013 Table 1B(1-5) Generic EIL - Comm/Ind																		370			
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil					67																
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil					67																
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Coarse 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																					

Field_ID	Location_Code	Sample_Depth_Range	Sampled_Date_Time	Matrix_Description																			
BH01 0.2-0.3	BH01	0.2-0.3	5/08/2021	Fill,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
BH01 0.2-1	BH01	0.2-1	5/08/2021	Fill,clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH02 0.2-1	BH02	0.2-1	5/08/2021	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH02 0.9-1	BH02	0.9-1	5/08/2021	Fill, clayey sand	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
QA20210805-01	BH02	0.9-1	5/08/2021	BH02 0.9-1	<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	<0.05
QC 2021005-01	BH02	0.9-1	5/08/2021	BH02 0.9-1	<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
BH03 0.4-0.5	BH03	0.4-0.5	5/08/2021	Fill, sandy 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
BH03 0-1	BH03	0-1	5/08/2021	Fill, sandy clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH04 0.2-0.3	BH04	0.2-0.3	5/08/2021	Fill, sandy 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
BH04 0.2-1	BH04	0.2-1	5/08/2021	Fill, sandy clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH05 0.9-1	BH05	0.9-1	5/08/2021	Fill, sandy 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
BH06 0.2-0.3	BH06	0.2-0.3	5/08/2021	Fill, 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
QA20210805-02	BH06	0.2-0.3	5/08/2021	BH06 0.2-0.3	<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
QC 2021005-02	BH06	0.2-0.3	5/08/2021	BH06 0.2-0.3	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH07 0.2-0.3	BH07	0.2-0.3	5/08/2021	Fill, gravelly sandy clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH07 0.2-1	BH07	0.2-1	5/08/2021	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH07 0.4-0.5	BH07	0.4-0.5	5/08/2021	Fill, sandy 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
BH08 0.2-0.3	BH08	0.2-0.3	5/08/2021	Fill, sandy 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
BH08 0.2-1	BH08	0.2-1	5/08/2021	Fill, sandy clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH09 0.2-1	BH09	0.2-1	5/08/2021	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH09 0.4-0.5	BH09	0.4-0.5	5/08/2021	Fill, sandy 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
BH10 0.2-1	BH10	0.2-1	6/08/2021	Fill, sandy, gravelly clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH10 0.9-1	BH10	0.9-1	6/08/2021	Fill, sandy, gravelly 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
BH10 1-2	BH10	1-2	6/08/2021	Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH11 0.2-0.9	BH11	0.2-0.9	6/08/2021	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH11 1-2	BH11	1-2	6/08/2021	Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH11.9-1.0	BH11	0.9-1	6/08/2021	Fill, sandy gravel	2.6	0.9	11	32	40	56	54	51	24	-	18	36	35	<5	72	1.8	16	2.2	37	68	396.5
BH12 0.2-0.5	BH12	0.2-0.5	6/08/2021	Fill, sandy clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH12 0.4-0.5	BH12	0.4-0.5	6/08/2021	Fill, sandy 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
BH12 1-2	BH12	1-2	6/08/2021	Sand	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH12 3-4	BH12	3-4	6/08/2021	Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH12 5-6	BH12	5-6	6/08/2021	Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH13 0.2-1	BH13	0.2-1	6/08/2021	Fill, clayey sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH13 0.9-1	BH13	0.9-1	6/08/2021	Fill, concrete	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH13 1-2	BH13	1-2	6/08/2021	Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14 0.2-1	BH14	0.2-1	6/08/2021	Fill, sandy clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14 1-2	BH14	1-2	6/08/2021	Sand	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH15 0.2-1	BH15	0.2-1	6/08/2021	Fill, sandy, gravelly clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH15 0.4-0.5	BH15	0.4-0.5	6/08/2021	Fill, sandy, gravelly 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
BH16 0.2-1	BH16	0.2-1	6/08/2021	Fill, sandy clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH16 0.9-1	BH16	0.9-1	6/08/2021	Fill, concrete	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH16 1-2	BH16	1-2	6/08/2021	Sand	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH17 0.2-0.3	BH17	0.2-0.3	6/08/2021	Fill, sandy 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
BH17 0.2-1	BH17	0.2-1	6/08/2021	Fill, sandy clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH17 1-2	BH17	1-2	6/08/2021	Sand	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH17 3-4	BH17	3-4	6/08/2021	Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH18 0.2-1	BH18	0.2-1	6/08/2021	Fill, sandy clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH18 0.4-0.5	BH18	0.4-0.5	6/08/2021	Fill, sandy 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
BH18 1-2	BH18	1-2	6/08/2021	Sand	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH18 2.5-3	BH18	2.5-3	6/08/2021	Sand	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH19 0.2-1	BH19	0.2-1	6/08/2021	Fill, sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH19 0.4-0.5	BH19	0.4-0.5	6/08/2021	Fill, sand	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH19 1-1.5	BH19	1-1.5	6/08/2021	Fill, clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH19 3.2-4	BH19	3.2-4	6/08/2021	Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH20 0.2-1	BH20	0.2-1	6/08/2021	Fill, sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH20 0.4-0.5	BH20	0.4-0.5	6/08/2021	Fill, sand	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<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 - Results of Soil Analysis
Project Number: 61301
Project Name: Gardeners Rd 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(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 - 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
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	0.5	0.5	0.5	0.5
ASSMAC (1998) Action Criteria (Coarse >1000 tonnes disturbed)																										
ASSMAC (1998) Action Criteria (Coarse 1-1000 tonnes disturbed)																										
ASSMAC (1998) Action Criteria (Fine >1000 tonnes disturbed)																										
ASSMAC (1998) Action Criteria (Fine 1-1000 tonnes disturbed)																										
NEPM 2013 Site Specific EIL - Comm/Ind																										
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil											40	40	40													4000
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay 0-1m																							NL			
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand 0-1m																							NL			
NEPM 2013 Table 1B(1-5) Generic EIL - Comm/Ind																							370			
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil										67																
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil										67																
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Coarse 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																										
Field_ID	**Location_Code**	**Sample_Depth_Range**	**Sampled_Date_Time**	**Matrix_Description**																						
BH21 0.2-1	BH21	0.2-1	6/08/2021	Fill, clayey sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH21 1-2	BH21	1-2	6/08/2021	Fill, sand	<0.5	<0.5	<0.5	1.2	1.5	2.5	2.3	2	1	-	1	1.8	1.3	<0.5	1.7	<0.5	0.8	<0.5	0.6	2.2	13.1
JBS&G 2020																										
MW1_0.2	MW1	0.2	24/01/2020	Fill, silty, clayey sand	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
QA01	MW1	0.2	24/01/2020	MW1_0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC01	MW1	0.2	24/01/2020	MW1_0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW1_1.0	MW1	1	24/01/2020	Fill, silty, clayey sand	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW1_4.0	MW1	4	24/01/2020	Clayey, silty sand	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW2_0.5	MW2	0.5	24/01/2020	Fill, clayey sand	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
QA03	MW2	0.5	24/01/2020	MW2_0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<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	MW2	0.5	24/01/2020	MW2_0.5	<0.1	<0.1	<0.1	<0.1	<0.05	<0.5	<0.5	<0.5	-	<0.2	<0.1	-	0.2	<0.1	<0.1	<0.1	<0.1	-	0.1	0.1	0.4
MW2_2.0	MW2	2	24/01/2020	Clayey, silty sand	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW3_0.2	MW3	0.2	24/01/2020	Fill, sandy 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
MW3_3.0	MW3	3	24/01/2020	Sand	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW4_1.0	MW4	1	24/01/2020	Fill, clayey, silty sand	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW5_0.2	MW5	0.2	24/01/2020	Fill, clayey, silty sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW5_0.5	MW5	0.5	24/01/2020	Fill, clayey, silty sand	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.7	<0.5	0.7
SB1_0.2	SB1	0.2	24/01/2020	Fill, silty sand	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SB1_0.5	SB1	0.5	24/01/2020	Fill, silty sand	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SB2_0.2	SB2	0.2	24/01/2020	Fill, clayey, silty sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SB2_0.5	SB2	0.5	24/01/2020	Fill, clayey, silty sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SB2_1.0	SB2	1	24/01/2020	Fill, silty, clayey sand	<0.5	<0.5	<0.5	2.6	3	4.5	4.2	4	2.1	-	0.9	3.1	2.4	<0.5	5	<0.5	1.8	<0.5	2.1	5.5	28.5
SB3_0.2	SB3	0.2	24/01/2020	Fill, clayey, silty sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SB3_0.5	SB3	0.5	24/01/2020	Fill, silty, clayey sand	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SB4_0.2	SB4	0.2	24/01/2020	Fill, clayey, silty sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SB4_0.5	SB4	0.5	24/01/2020	Fill, clayey, silty sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SB4_1.0	SB4	1	24/01/2020	Fill, clayey, silty sand	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<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 - Results of Soil Analysis
Project Number: 61301
Project Name: Gardeners Rd DSI

	Organochlorine Pesticides																								
	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
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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	0.1
ASSMAC (1998) Action Criteria (Coarse >1000 tonnes disturbed)																								
ASSMAC (1998) Action Criteria (Coarse 1-1000 tonnes disturbed)																								
ASSMAC (1998) Action Criteria (Fine >1000 tonnes disturbed)																								
ASSMAC (1998) Action Criteria (Fine 1-1000 tonnes disturbed)																								
NEPM 2013 Site Specific EIL - Comm/Ind												640												
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil								45	530					3600				100			50		2500	160
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay 0-1m																								
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand 0-1m																								
NEPM 2013 Table 1B(1-5) Generic EIL - Comm/Ind												640												
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil																								
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil																								
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Coarse 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																								

Field_ID	Location_Code	Sample_Depth_Range	Sampled_Date_Time	Matrix_Description																						
BH01 0.2-0.3	BH01	0.2-0.3	5/08/2021	Fill,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	<0.05	<0.1
BH01 0.2-1	BH01	0.2-1	5/08/2021	Fill,clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH02 0.2-1	BH02	0.2-1	5/08/2021	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH02 0.9-1	BH02	0.9-1	5/08/2021	Fill, clayey sand	<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	<0.05	<0.1
QA20210805-01	BH02	0.9-1	5/08/2021	BH02 0.9-1	<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	-
QC 2021005-01	BH02	0.9-1	5/08/2021	BH02 0.9-1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.15	0.15	<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	<0.1
BH03 0.4-0.5	BH03	0.4-0.5	5/08/2021	Fill, sandy clay	<0.05	<0.05	<0.05	<0.05	<0.05	0.09	0.09	0.18	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1
BH03 0-1	BH03	0-1	5/08/2021	Fill, sandy clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH04 0.2-0.3	BH04	0.2-0.3	5/08/2021	Fill, sandy clay	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.16	0.16	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1
BH04 0.2-1	BH04	0.2-1	5/08/2021	Fill, sandy clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH05 0.9-1	BH05	0.9-1	5/08/2021	Fill, sandy 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	<0.05	<0.05	<0.1
BH06 0.2-0.3	BH06	0.2-0.3	5/08/2021	Fill, 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	<0.05	<0.05	<0.1
QA20210805-02	BH06	0.2-0.3	5/08/2021	BH06 0.2-0.3	<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	-
QC 2021005-02	BH06	0.2-0.3	5/08/2021	BH06 0.2-0.3	<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	<0.05	<0.1
BH07 0.2-0.3	BH07	0.2-0.3	5/08/2021	Fill, gravelly sandy clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH07 0.2-1	BH07	0.2-1	5/08/2021	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH07 0.4-0.5	BH07	0.4-0.5	5/08/2021	Fill, sandy 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	<0.05	<0.05	<0.1
BH08 0.2-0.3	BH08	0.2-0.3	5/08/2021	Fill, sandy clay	<0.05	<0.05	<0.05	<0.05	<0.05	0.34	2.4	2.74	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1
BH08 0.2-1	BH08	0.2-1	5/08/2021	Fill, sandy clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH09 0.2-1	BH09	0.2-1	5/08/2021	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH09 0.4-0.5	BH09	0.4-0.5	5/08/2021	Fill, sandy 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	<0.05	<0.05	<0.1
BH10 0.2-1	BH10	0.2-1	6/08/2021	Fill, sandy, gravelly clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH10 0.9-1	BH10	0.9-1	6/08/2021	Fill, sandy, gravelly 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	<0.05	<0.05	<0.1
BH10 1-2	BH10	1-2	6/08/2021	Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH11 0.2-0.9	BH11	0.2-0.9	6/08/2021	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH11 1-2	BH11	1-2	6/08/2021	Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH11.9-1.0	BH11	0.9-1	6/08/2021	Fill, sandy gravel	<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	<0.5	<10
BH12 0.2-0.5	BH12	0.2-0.5	6/08/2021	Fill, sandy clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH12 0.4-0.5	BH12	0.4-0.5	6/08/2021	Fill, sandy clay	<0.05	<0.05	<0.05	<0.05	<0.05	0.06	0.15	0.21	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1
BH12 1-2	BH12	1-2	6/08/2021	Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH12 3-4	BH12	3-4	6/08/2021	Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH12 5-6	BH12	5-6	6/08/2021	Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH13 0.2-1	BH13	0.2-1	6/08/2021	Fill, clayey sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH13 0.9-1	BH13	0.9-1	6/08/2021	Fill, concrete	<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	<0.05	<0.1
BH13 1-2	BH13	1-2	6/08/2021	Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14 0.2-1	BH14	0.2-1	6/08/2021	Fill, sandy clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14 1-2	BH14	1-2	6/08/2021	Sand	<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	<0.05	<0.1
BH15 0.2-1	BH15	0.2-1	6/08/2021	Fill, sandy, gravelly clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH15 0.4-0.5	BH15	0.4-0.5	6/08/2021	Fill, sandy, gravelly 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	<0.05	<0.05	<0.1
BH16 0.2-1	BH16	0.2-1	6/08/2021	Fill, sandy clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH16 0.9-1	BH16	0.9-1	6/08/2021	Fill, concrete	<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	<0.05	<0.1
BH16 1-2	BH16	1-2	6/08/2021	Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH17 0.2-0.3	BH17	0.2-0.3	6/08/2021	Fill, sandy 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	<0.05	<0.05	<0.1
BH17 0.2-1	BH17	0.2-1	6/08/2021	Fill, sandy clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH17 1-2	BH17	1-2	6/08/2021	Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH17 3-4	BH17	3-4	6/08/2021	Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH18 0.2-1	BH18	0.2-1	6/08/2021	Fill, sandy clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH18 0.4-0.5	BH18	0.4-0.5	6/08/2021	Fill, sandy 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	<0.05	<0.05	<0.1
BH18 1-2	BH18	1-2	6/08/2021	Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH18 2.5-3	BH18	2.5-3	6/08/2021	Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH19 0.2-1	BH19	0.2-1	6/08/2021	Fill, sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH19 0.4-0.5	BH19	0.4-0.5	6/08/2021	Fill, sand	<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	<0.05	<0.1
BH19 1-1.5	BH19	1-1.5	6/08/2021	Fill, clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH19 3.2-4	BH19	3.2-4	6/08/2021	Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH20 0.2-1	BH20	0.2-1	6/08/2021	Fill, sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH20 0.4-0.5	BH20	0.4-0.5	6/08/2021	Fill, sand	<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	<0.05	<0.1

Table A - Results of Soil Analysis
Project Number: 61301
Project Name: Gardeners Rd DSI

					Organochlorine Pesticides																							
					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
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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	0.1
ASSMAC (1998) Action Criteria (Coarse >1000 tonnes disturbed)																												
ASSMAC (1998) Action Criteria (Coarse 1-1000 tonnes disturbed)																												
ASSMAC (1998) Action Criteria (Fine >1000 tonnes disturbed)																												
ASSMAC (1998) Action Criteria (Fine 1-1000 tonnes disturbed)																												
NEPM 2013 Site Specific EIL - Comm/Ind																640												
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil												45	530					3600				100			50		2500	160
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay 0-1m																												
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand 0-1m																												
NEPM 2013 Table 1B(1-5) Generic EIL - Comm/Ind																640												
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil																												
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil																												
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Coarse 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																												
Field_ID	**Location_Code**	**Sample_Depth_Range**	**Sampled_Date_Time**	**Matrix_Description**																								
BH21 0.2-1	BH21	0.2-1	6/08/2021	Fill, clayey sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH21 1-2	BH21	1-2	6/08/2021	Fill, sand	<0.05	<0.05	<0.05	<0.05	<0.05	0.06	<0.2	<0.2	<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	<0.1
JBS&G 2020																												
MW1_0.2	MW1	0.2	24/01/2020	Fill, silty, clayey sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA01	MW1	0.2	24/01/2020	MW1_0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC01	MW1	0.2	24/01/2020	MW1_0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW1_1.0	MW1	1	24/01/2020	Fill, silty, clayey sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW1_4.0	MW1	4	24/01/2020	Clayey, silty sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW2_0.5	MW2	0.5	24/01/2020	Fill, clayey sand	<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	<0.5	<0.05	<0.05	<0.05	<0.2	<1
QA03	MW2	0.5	24/01/2020	MW2_0.5	<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	<1	<0.05	<0.05	<0.05	<0.2	<1
QC03	MW2	0.5	24/01/2020	MW2_0.5	<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	-
MW2_2.0	MW2	2	24/01/2020	Clayey, silty sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW3_0.2	MW3	0.2	24/01/2020	Fill, sandy clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW3_3.0	MW3	3	24/01/2020	Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW4_1.0	MW4	1	24/01/2020	Fill, clayey, silty sand	<0.05	<0.05	<0.05	<0.05	<0.05	28	54	82	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.05	<0.05	<0.05	<0.2	<1
MW5_0.2	MW5	0.2	24/01/2020	Fill, clayey, silty sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW5_0.5	MW5	0.5	24/01/2020	Fill, clayey, silty sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SB1_0.2	SB1	0.2	24/01/2020	Fill, silty sand	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.13	0.13	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<1	<0.05	<0.05	<0.05	<0.2	<1
SB1_0.5	SB1	0.5	24/01/2020	Fill, silty sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SB2_0.2	SB2	0.2	24/01/2020	Fill, clayey, silty sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SB2_0.5	SB2	0.5	24/01/2020	Fill, clayey, silty sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SB2_1.0	SB2	1	24/01/2020	Fill, silty, clayey sand	<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	<1	<0.05	<0.05	<0.05	<0.2	<1
SB3_0.2	SB3	0.2	24/01/2020	Fill, clayey, silty sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SB3_0.5	SB3	0.5	24/01/2020	Fill, silty, clayey sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SB4_0.2	SB4	0.2	24/01/2020	Fill, clayey, silty sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SB4_0.5	SB4	0.5	24/01/2020	Fill, clayey, silty sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SB4_1.0	SB4	1	24/01/2020	Fill, clayey, silty sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table A - Results of Soil Analysis
Project Number: 61301
Project Name: Gardeners Rd DSI

					Organophosphorus Pesticides																																					
					Azinophos methyl	Bolstar (Sulprofos)	Chlorfenvinphos	Chlorpyrifos	Chlorpyrifos-methyl	Coumaphos	Demeton-O	Demeton-S	Diazinon	Dichlorvos	Dimethoate	Disulfoton	EPN	Ethion	Ethoprop	Fenitrothion	Fensulfothion	Fenthion	Malathion	Merphos	Methyl parathion	Mevinphos (Phosdrin)	Monocrotophos	Naled (Dibrom)	Omethoate	Phorate	Pirimiphos-methyl	Pyrazophos	Ronnel	Terbufos	Tetrachlorvinphos	Tokuthion	Trichloronate	Parathion
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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					0.2	0.2	0.2	0.2	0.2	2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	2	0.2	2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
ASSMAC (1998) Action Criteria (Coarse >1000 tonnes disturbed)																																										
ASSMAC (1998) Action Criteria (Coarse 1-1000 tonnes disturbed)																																										
ASSMAC (1998) Action Criteria (Fine >1000 tonnes disturbed)																																										
ASSMAC (1998) Action Criteria (Fine 1-1000 tonnes disturbed)																																										
NEPM 2013 Site Specific EIL - Comm/Ind																																										
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil								2000																																		
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay 0-1m																																										
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand 0-1m																																										
NEPM 2013 Table 1B(1-5) Generic EIL - Comm/Ind																																										
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil																																										
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil																																										
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Coarse 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																																										
Field_ID	**Location_Code**	**Sample_Depth_Range**	**Sampled_Date_Time**	**Matrix_Description**																																							
BH01 0.2-0.3	BH01	0.2-0.3	5/08/2021	Fill,clay	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
BH01 0.2-1	BH01	0.2-1	5/08/2021	Fill,clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH02 0.2-1	BH02	0.2-1	5/08/2021	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH02 0.9-1	BH02	0.9-1	5/08/2021	Fill, clayey sand	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
QA20210805-01	BH02	0.9-1	5/08/2021	BH02 0.9-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC 2021005-01	BH02	0.9-1	5/08/2021	BH02 0.9-1	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
BH03 0.4-0.5	BH03	0.4-0.5	5/08/2021	Fill, sandy clay	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
BH03 0-1	BH03	0-1	5/08/2021	Fill, sandy clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH04 0.2-0.3	BH04	0.2-0.3	5/08/2021	Fill, sandy clay	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
BH04 0.2-1	BH04	0.2-1	5/08/2021	Fill, sandy clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH05 0.9-1	BH05	0.9-1	5/08/2021	Fill, sandy clay	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
BH06 0.2-0.3	BH06	0.2-0.3	5/08/2021	Fill, clay	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
QA20210805-02	BH06	0.2-0.3	5/08/2021	BH06 0.2-0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC 2021005-02	BH06	0.2-0.3	5/08/2021	BH06 0.2-0.3	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
BH07 0.2-0.3	BH07	0.2-0.3	5/08/2021	Fill, gravelly sandy clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH07 0.2-1	BH07	0.2-1	5/08/2021	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH07 0.4-0.5	BH07	0.4-0.5	5/08/2021	Fill, sandy clay	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
BH08 0.2-0.3	BH08	0.2-0.3	5/08/2021	Fill, sandy clay	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
BH08 0.2-1	BH08	0.2-1	5/08/2021	Fill, sandy clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH09 0.2-1	BH09	0.2-1	5/08/2021	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH09 0.4-0.5	BH09	0.4-0.5	5/08/2021	Fill, sandy clay	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
BH10 0.2-1	BH10	0.2-1	6/08/2021	Fill, sandy, gravelly clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH10 0.9-1	BH10	0.9-1	6/08/2021	Fill, sandy, gravelly clay	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
BH10 1-2	BH10	1-2	6/08/2021	Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH11 0.2-0.9	BH11	0.2-0.9	6/08/2021	Fill	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH11 1-2	BH11	1-2	6/08/2021	Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH11.9-1.0	BH11	0.9-1	6/08/2021	Fill, sandy gravel	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BH12 0.2-0.5	BH12	0.2-0.5	6/08/2021	Fill, sandy clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH12 0.4-0.5	BH12	0.4-0.5	6/08/2021	Fill, sandy clay	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
BH12 1-2	BH12	1-2	6/08/2021	Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH12 3-4	BH12	3-4	6/08/2021	Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH12 5-6	BH12	5-6	6/08/2021	Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH13 0.2-1	BH13	0.2-1	6/08/2021	Fill, clayey sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH13 0.9-1	BH13	0.9-1	6/08/2021	Fill, concrete	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
BH13 1-2	BH13	1-2	6/08/2021	Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14 0.2-1	BH14	0.2-1	6/08/2021	Fill, sandy clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH14 1-2	BH14	1-2	6/08/2021	Sand	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
BH15 0.2-1	BH15	0.2-1	6/08/2021	Fill, sandy, gravelly clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH15 0.4-0.5	BH15	0.4-0.5	6/08/2021	Fill, sandy, gravelly clay	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
BH16 0.2-1	BH16	0.2-1	6/08/2021	Fill, sandy clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH16 0.9-1	BH16	0.9-1	6/08/2021	Fill, concrete	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
BH16 1-2	BH16	1-2	6/08/2021	Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH17 0.2-0.3	BH17	0.2-0.3	6/08/2021	Fill, sandy clay	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
BH17 0.2-1	BH17	0.2-1	6/08/2021	Fill, sandy clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH17 1-2	BH17	1-2	6/08/2021	Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH17 3-4	BH17	3-4	6/08/2021	Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH18 0.2-1	BH18	0.2-1	6/08/2021	Fill, sandy clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH18 0.4-0.5	BH18	0.4-0.5	6/08/2021	Fill, sandy clay	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
BH18 1-2	BH18	1-2	6/08/2021	Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH18 2.5-3	BH18	2.5-3	6/08/2021	Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH19 0.2-1	BH19	0.2-1	6/08/2021	Fill, sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH19 0.4-0.5	BH19	0.4-0.5	6/08/2021	Fill, sand	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
BH19 1-1.5	BH19	1-1.5	6/08/2021	Fill, clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH19 3.2-4	BH19	3.2-4	6/08/2021	Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH20 0.2-1	BH20	0.2-1	6/08/2021	Fill, sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH20 0.4-0.5	BH20	0.4-0.5	6/08/2021	Fill, sand	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

Table A - Results of Soil Analysis
Project Number: 61301
Project Name: Gardeners Rd DSI

	Organophosphorus Pesticides																																		
	Azinophos methyl	Bolstar (Sulprofos)	Chlorfenvinphos	Chlorpyrifos	Chlorpyrifos-methyl	Coumaphos	Demeton-O	Demeton-S	Diazinon	Dichlorvos	Dimethoate	Disulfoton	EPN	Ethion	Ethoprop	Fenitrothion	Fensulfothion	Fenthion	Malathion	Merphos	Methyl parathion	Mevinphos (Phosdrin)	Monocrotophos	Naled (Dibrom)	Omethoate	Phorate	Pirimiphos-methyl	Pyrazophos	Ronnel	Terbufos	Tetrachlorvinphos	Tokuthion	Trichloronate	Parathion
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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	0.2	0.2	0.2	0.2	0.2	2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	2	0.2	2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
ASSMAC (1998) Action Criteria (Coarse >1000 tonnes disturbed)																																			
ASSMAC (1998) Action Criteria (Coarse 1-1000 tonnes disturbed)																																			
ASSMAC (1998) Action Criteria (Fine >1000 tonnes disturbed)																																			
ASSMAC (1998) Action Criteria (Fine 1-1000 tonnes disturbed)																																			
NEPM 2013 Site Specific EIL - Comm/Ind																																			
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil				2000																															
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay 0-1m																																			
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand 0-1m																																			
NEPM 2013 Table 1B(1-5) Generic EIL - Comm/Ind																																			
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil																																			
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil																																			
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Coarse 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																																			

Field_ID	Location_Code	Sample_Depth_Range	Sampled_Date_Time	Matrix_Description																																	
BH21 0.2-1	BH21	0.2-1	6/08/2021	Fill, clayey sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BH21 1-2	BH21	1-2	6/08/2021	Fill, sand	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<2	<0.2	<2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
JBS&G 2020																																					
MW1_0.2	MW1	0.2	24/01/2020	Fill, silty, clayey sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA01	MW1	0.2	24/01/2020	MW1_0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC01	MW1	0.2	24/01/2020	MW1_0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW1_1.0	MW1	1	24/01/2020	Fill, silty, clayey sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW1_4.0	MW1	4	24/01/2020	Clayey, silty sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW2_0.5	MW2	0.5	24/01/2020	Fill, clayey sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA03	MW2	0.5	24/01/2020	MW2_0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC03	MW2	0.5	24/01/2020	MW2_0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW2_2.0	MW2	2	24/01/2020	Clayey, silty sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW3_0.2	MW3	0.2	24/01/2020	Fill, sandy clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW3_3.0	MW3	3	24/01/2020	Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW4_1.0	MW4	1	24/01/2020	Fill, clayey, silty sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW5_0.2	MW5	0.2	24/01/2020	Fill, clayey, silty sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW5_0.5	MW5	0.5	24/01/2020	Fill, clayey, silty sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SB1_0.2	SB1	0.2	24/01/2020	Fill, silty sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SB1_0.5	SB1	0.5	24/01/2020	Fill, silty sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SB2_0.2	SB2	0.2	24/01/2020	Fill, clayey, silty sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SB2_0.5	SB2	0.5	24/01/2020	Fill, clayey, silty sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SB2_1.0	SB2	1	24/01/2020	Fill, silty, clayey sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SB3_0.2	SB3	0.2	24/01/2020	Fill, clayey, silty sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SB3_0.5	SB3	0.5	24/01/2020	Fill, silty, clayey sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SB4_0.2	SB4	0.2	24/01/2020	Fill, clayey, silty sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SB4_0.5	SB4	0.5	24/01/2020	Fill, clayey, silty sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SB4_1.0	SB4	1	24/01/2020	Fill, clayey, silty sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table A - Results of Soil Analysis
Project Number: 61301
Project Name: Gardeners Rd DSI

	Polychlorinated Biphenyls									Acid Sulfate Soils												Acid Sulfate Soils - Other																A VIC - IWRG6		SPOCAS			
	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	PCBs (Sum of total)	Hexachlorobenzene	Acid Neutralising Capacity - Acidity units	KCl Extractable Sulfur	Liming Rate	Net Acidity (acidity units)	Net Acidity (sulfur units)	Peroxide Oxidisable Sulfur	pH (KCl)	Sulfur in Peroxide	Ttitratable Actual Acidity	Ttitratable Peroxide Acidity	Ttitratable Sulfidic Acidity	pH (Ox)	Acid Neutralising Capacity equivalent 5% pyri	Acid Reacted Calcium	Acid Reacted Magnesium	Acidity - Acid Reacted Calcium	Acidity - Acid Reacted Magnesium	Acidity - Peroxide Oxidisable Sulfur	ANC Fineness Factor	Calcium in Peroxide	KCl Extractable Calcium	KCl Extractable Magnesium	Magnesium in Peroxide	Sulfidic - Acid Reacted Magnesium	Sulfidic - Ttitratable Actual Acidity	Sulfidic - Ttitratable Peroxide Acidity	Organochlorine Pesticides EPAVIc	Other Organochlorine Pesticides EPAVIc	Acid Neutralising Capacity (%CACO3)	HCl Extractable Sulfur Correction Factor	Sulfidic - Acid Reacted Calcium	Sulfidic - Ttratable Sulfidic Acidity
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mol H+/t	%	kg CaCO3/t	mol H+/t	%S	%	pH Unit	%	mol H+/t	mole H+/t	mole H+/t	pH Unit	%S	%	% Mg	mol H+/t	mol H+/t	mol H+/t	FACTOR	%	%	%	%	%S	%S	%S	mg/kg	mg/kg	% CACO3	FACTOR	%S	%S
EQL	0.5	0.1	0.5	0.5	0.5	0.5	0.5	0.5	0.05	10	0.02	1	10	0.02	0.02	0.1	0.02	2	2	2	0.1	0.02	0.02	0.02	10	10	10		0.02	0.02	0.02	0.02	0.02	0.003	0.02	0.1	0.1	0.02	1	0.02	0.02
ASSMAC (1998) Action Criteria (Coarse >1000 tonnes disturbed)															0.03				18	18																					
ASSMAC (1998) Action Criteria (Coarse 1-1000 tonnes disturbed)															0.03				18	18																					
ASSMAC (1998) Action Criteria (Fine >1000 tonnes disturbed)															0.03				18	18																					
ASSMAC (1998) Action Criteria (Fine 1-1000 tonnes disturbed)															0.1				62	62																					
NEPM 2013 Site Specific EIL - Comm/Ind																																									
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil								7	80																																	
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay 0-1m																																									
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand 0-1m																																									
NEPM 2013 Table 1B(1-5) Generic EIL - Comm/Ind																																									
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil																																									
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil																																									
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Coarse 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																																									

| Field_ID | Location_Code | Sample_Depth_Range | Sampled_Date_Time | Matrix_Description | | | | | | | | | | | | | | | | | | |

Table A - Results of Soil Analysis
Project Number: 61301
Project Name: Gardeners Rd DSI

	Polychlorinated Biphenyls									Acid Sulfate Soils												Acid Sulfate Soils - Other																A VIC - IWRG6		SPOCAS			
	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	PCBs (Sum of total)	Hexachlorobenzene	Acid Neutralising Capacity - Acidity units	KCl Extractable Sulfur	Liming Rate	Net Acidity (acidity units)	Net Acidity (sulfur units)	Peroxide Oxidisable Sulfur	pH (KCl)	Sulfur in Peroxide	TItratable Actual Acidity	TItratable Peroxide Acidity	TItratable Sulfidic Acidity	pH (Ox)	Acid Neutralising Capacity equivalent 5% pyrit	Acid Reacted Calcium	Acid Reacted Magnesium	Acidity - Acid Reacted Calcium	Acidity - Acid Reacted Magnesium	Acidity - Peroxide Oxidisable Sulfur	ANC Fineness Factor	Calcium in Peroxide	KCl Extractable Calcium	KCl Extractable Magnesium	Magnesium in Peroxide	Sulfidic - Acid Reacted Magnesium	Sulfidic - TItratable Actual Acidity	Sulfidic - TItratable Peroxide Acidity	Organochlorine Pesticides EPAVic	Other Organochlorine Pesticides EPAVic	Acid Neutralising Capacity (%CACO3)	HCl Extractable Sulfur Correction Factor	Sulfidic - Acid Reacted Calcium	Sulfidic - TItratable Sulfidic Acidity
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mol H+/t	%	kg CaCO3/t	mol H+/t	%S	%	pH Unit	%	mol H+/t	mole H+/t	mole H+/t	pH Unit	%S	%	% Mg	mol H+/t	mol H+/t	mol H+/t	FACTOR	%	%	%	%	%S	%S	%S	mg/kg	mg/kg	% CACO3	FACTOR	%S	%S
EQL	0.5	0.1	0.5	0.5	0.5	0.5	0.5	0.5	0.05	10	0.02	1	10	0.02	0.02	0.1	0.02	2	2	2	0.1	0.02	0.02	0.02	10	10	10		0.02	0.02	0.02	0.02	0.02	0.003	0.02	0.1	0.1	0.02	1	0.02	0.02
ASSMAC (1998) Action Criteria (Coarse >1000 tonnes disturbed)															0.03				18	18																						
ASSMAC (1998) Action Criteria (Coarse 1-1000 tonnes disturbed)															0.03				18	18																						
ASSMAC (1998) Action Criteria (Fine >1000 tonnes disturbed)															0.03				18	18																						
ASSMAC (1998) Action Criteria (Fine 1-1000 tonnes disturbed)															0.1				62	62																						
NEPM 2013 Site Specific EIL - Comm/Ind																																										
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil								7	80																																		
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay 0-1m																																										
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand 0-1m																																										
NEPM 2013 Table 1B(1-5) Generic EIL - Comm/Ind																																										
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil																																										
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil																																										
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Coarse 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																																										

Field_ID	Location_Code	Sample_Depth_Range	Sampled_Date_Time	Matrix_Description																																									
BH21 0.2-1	BH21	0.2-1	6/08/2021	Fill, clayey sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.13	0.04	<0.02	21	<10	<10	1.5	0.15	0.11	<0.02	<0.02	<0.02	<0.003	<0.02	<0.2	<0.1	0.39	2	0.03	<0.02
BH21 1-2	BH21	1-2	6/08/2021	Fill, sand	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	78	<0.02	<1	<10	<0.02	<0.02	8.7	<0.02	<2	<2	<2	8.6																				
JBS&G 2020																																													
MW1_0.2	MW1	0.2	24/01/2020	Fill, silty, clayey sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA01	MW1	0.2	24/01/2020	MW1_0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC01	MW1	0.2	24/01/2020	MW1_0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW1_1.0	MW1	1	24/01/2020	Fill, silty, clayey sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW1_4.0	MW1	4	24/01/2020	Clayey, silty sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW2_0.5	MW2	0.5	24/01/2020	Fill, clayey sand	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	-	-	-	-
QA03	MW2	0.5	24/01/2020	MW2_0.5	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	<1	-	-	-	-
QC03	MW2	0.5	24/01/2020	MW2_0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW2_2.0	MW2	2	24/01/2020	Clayey, silty sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW3_0.2	MW3	0.2	24/01/2020	Fill, sandy clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW3_3.0	MW3	3	24/01/2020	Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW4_1.0	MW4	1	24/01/2020	Fill, clayey, silty sand	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	82	<0.5	-	-	-	-
MW5_0.2	MW5	0.2	24/01/2020	Fill, clayey, silty sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW5_0.5	MW5	0.5	24/01/2020	Fill, clayey, silty sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SB1_0.2	SB1	0.2	24/01/2020	Fill, silty sand	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	<1	-	-	-	-
SB1_0.5	SB1	0.5	24/01/2020	Fill, silty sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SB2_0.2	SB2	0.2	24/01/2020	Fill, clayey, silty sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SB2_0.5	SB2	0.5	24/01/2020	Fill, clayey, silty sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SB2_1.0	SB2	1	24/01/2020	Fill, silty, clayey sand	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	<1	-	-	-	-
SB3_0.2	SB3	0.2	24/01/2020	Fill, clayey, silty sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SB3_0.5	SB3	0.5	24/01/2020	Fill, silty, clayey sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SB4_0.2	SB4	0.2	24/01/2020	Fill, clayey, silty sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SB4_0.5	SB4	0.5	24/01/2020	Fill, clayey, silty sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SB4_1.0	SB4	1	24/01/2020	Fill, clayey, silty sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table A - Results of Soil Analysis
Project Number: 61301
Project Name: Gardeners Rd DSI

	Asbestos - Eurofins																	Asbestos - Envirolab				Moisture Content	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	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)	Analysed Material	Extraneous Material
	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																			0.1	0.01	0.001	0.1	1	0.1	0.1
ASSMAC (1998) Action Criteria (Coarse >1000 tonnes disturbed)																									
ASSMAC (1998) Action Criteria (Coarse 1-1000 tonnes disturbed)																									
ASSMAC (1998) Action Criteria (Fine >1000 tonnes disturbed)																									
ASSMAC (1998) Action Criteria (Fine 1-1000 tonnes disturbed)																									
NEPM 2013 Site Specific EIL - Comm/Ind																									
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																									
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand 0-1m																									
NEPM 2013 Table 1B(1-5) Generic EIL - Comm/Ind																									
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil																									
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil																									
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Coarse 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					0.001											0.05	0.001				

Field_ID	Location_Code	Sample_Depth_Range	Sampled_Date_Time	Matrix_Description																								
BH01 0.2-0.3	BH01	0.2-0.3	5/08/2021	Fill,clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-	-
BH01 0.2-1	BH01	0.2-1	5/08/2021	Fill,clay	606	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-
BH02 0.2-1	BH02	0.2-1	5/08/2021	Fill	749	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-
BH02 0.9-1	BH02	0.9-1	5/08/2021	Fill, clayey sand	645	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	-	-	-	-	-	8.6	-	-
QA20210805-01	BH02	0.9-1	5/08/2021	BH02 0.9-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	<0.1	<0.01	<0.001	26	-	-	-
QC 2021005-01	BH02	0.9-1	5/08/2021	BH02 0.9-1	666	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	-	-	-	-	-	6.2	-	-
BH03 0.4-0.5	BH03	0.4-0.5	5/08/2021	Fill, sandy clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19	-	-
BH03 0-1	BH03	0-1	5/08/2021	Fill, sandy clay	517	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-
BH04 0.2-0.3	BH04	0.2-0.3	5/08/2021	Fill, sandy clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.8	-	-
BH04 0.2-1	BH04	0.2-1	5/08/2021	Fill, sandy clay	751	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-
BH05 0.9-1	BH05	0.9-1	5/08/2021	Fill, sandy clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.1	-	-
BH06 0.2-0.3	BH06	0.2-0.3	5/08/2021	Fill, clay	836	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	-	-	-	-	-	6.1	-	-
QA20210805-02	BH06	0.2-0.3	5/08/2021	BH06 0.2-0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	<0.1	<0.01	<0.001	13	-	-	-
QC 2021005-02	BH06	0.2-0.3	5/08/2021	BH06 0.2-0.3	641	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	-	-	-	-	-	7.7	-	-
BH07 0.2-0.3	BH07	0.2-0.3	5/08/2021	Fill, gravelly sandy clay	673	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-
BH07 0.2-1	BH07	0.2-1	5/08/2021	Fill	476	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-
BH07 0.4-0.5	BH07	0.4-0.5	5/08/2021	Fill, sandy clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	-	-
BH08 0.2-0.3	BH08	0.2-0.3	5/08/2021	Fill, sandy clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.3	-	-
BH08 0.2-1	BH08	0.2-1	5/08/2021	Fill, sandy clay	605	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-
BH09 0.2-1	BH09	0.2-1	5/08/2021	Fill	583	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-
BH09 0.4-0.5	BH09	0.4-0.5	5/08/2021	Fill, sandy clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-	-
BH10 0.2-1	BH10	0.2-1	6/08/2021	Fill, sandy, gravelly clay	458	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	-	-	-	-	-	17	37	63
BH10 0.9-1	BH10	0.9-1	6/08/2021	Fill, sandy, gravelly clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.9	-	-
BH10 1-2	BH10	1-2	6/08/2021	Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	69	31
BH11 0.2-0.9	BH11	0.2-0.9	6/08/2021	Fill	687	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-
BH11 1-2	BH11	1-2	6/08/2021	Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.2	-	-
BH11.9-1.0	BH11	0.9-1	6/08/2021	Fill, sandy gravel	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.8	-	-
BH12 0.2-0.5	BH12	0.2-0.5	6/08/2021	Fill, sandy clay	251	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-
BH12 0.4-0.5	BH12	0.4-0.5	6/08/2021	Fill, sandy clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	-	-
BH12 1-2	BH12	1-2	6/08/2021	Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	-	-
BH12 3-4	BH12	3-4	6/08/2021	Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	68	100	<0.1
BH12 5-6	BH12	5-6	6/08/2021	Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.9	100	<0.1
BH13 0.2-1	BH13	0.2-1	6/08/2021	Fill, clayey sand	639	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	-	-	-	-	-	16	34	66
BH13 0.9-1	BH13	0.9-1	6/08/2021	Fill, concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.2	-	-
BH13 1-2	BH13	1-2	6/08/2021	Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24	97	2.6
BH14 0.2-1	BH14	0.2-1	6/08/2021	Fill, sandy clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	30	70
BH14 1-2	BH14	1-2	6/08/2021	Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	88	12
BH15 0.2-1	BH15	0.2-1	6/08/2021	Fill, sandy, gravelly clay	353	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	-	-	-	-	-	18	48	52
BH15 0.4-0.5	BH15	0.4-0.5	6/08/2021	Fill, sandy, gravelly clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.9	-	-
BH16 0.2-1	BH16	0.2-1	6/08/2021	Fill, sandy clay	264	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-
BH16 0.9-1	BH16	0.9-1	6/08/2021	Fill, concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.1	-	-
BH16 1-2	BH16	1-2	6/08/2021	Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.9	-	-
BH17 0.2-0.3	BH17	0.2-0.3	6/08/2021	Fill, sandy clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.7	-	-
BH17 0.2-1	BH17	0.2-1	6/08/2021	Fill, sandy clay	427	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	-	-	-	-	-	11	97	3
BH17 1-2	BH17	1-2	6/08/2021	Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	-	-
BH17 3-4	BH17	3-4	6/08/2021	Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	100	<0.1
BH18 0.2-1	BH18	0.2-1	6/08/2021	Fill, sandy clay	286	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-
BH18 0.4-0.5	BH18	0.4-0.5	6/08/2021	Fill, sandy clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-	-
BH18 1-2	BH18	1-2	6/08/2021	Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.8 - 11	99	1.2
BH18 2.5-3	BH18	2.5-3	6/08/2021	Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23	-	-
BH19 0.2-1	BH19	0.2-1	6/08/2021	Fill, sand	359	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-
BH19 0.4-0.5	BH19	0.4-0.5	6/08/2021	Fill, sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.4	-	-
BH19 1-1.5	BH19	1-1.5	6/08/2021	Fill, clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	81	19
BH19 3.2-4	BH19	3.2-4	6/08/2021	Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	42	100	<0.1
BH20 0.2-1	BH20	0.2-1	6/08/2021	Fill, sand	412	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	-	-	-	-	-	18	54	46
BH20 0.4-0.5	BH20	0.4-0.5	6/08/2021	Fill, sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.4	-	-

Table A - Results of Soil Analysis
Project Number: 61301
Project Name: Gardeners Rd DSI

	Asbestos - Eurofins																	Asbestos - Envirolab				Moisture Content	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	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)	Analysed Material	Extraneous Material
	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																			0.1	0.01	0.001	0.1	1	0.1	0.1
ASSMAC (1998) Action Criteria (Coarse >1000 tonnes disturbed)																									
ASSMAC (1998) Action Criteria (Coarse 1-1000 tonnes disturbed)																									
ASSMAC (1998) Action Criteria (Fine >1000 tonnes disturbed)																									
ASSMAC (1998) Action Criteria (Fine 1-1000 tonnes disturbed)																									
NEPM 2013 Site Specific EIL - Comm/Ind																									
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																									
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Sand 0-1m																									
NEPM 2013 Table 1B(1-5) Generic EIL - Comm/Ind																									
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Coarse Soil																									
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil																									
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Coarse 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					0.001											0.05	0.001				

Field_ID	Location_Code	Sample_Depth_Range	Sampled_Date_Time	Matrix_Description																								
BH21 0.2-1	BH21	0.2-1	6/08/2021	Fill, clayey sand	264	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-
BH21 1-2	BH21	1-2	6/08/2021	Fill, sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20	92	7.9
JBS&G 2020																												
MW1_0.2	MW1	0.2	24/01/2020	Fill, silty, clayey sand	681	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	-	-	-	-	-	7.8	-	-
QA01	MW1	0.2	24/01/2020	MW1_0.2	676	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-
QC01	MW1	0.2	24/01/2020	MW1_0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	<0.1	<0.01	<0.001	-	-	-	-
MW1_1.0	MW1	1	24/01/2020	Fill, silty, clayey sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	-	-
MW1_4.0	MW1	4	24/01/2020	Clayey, silty sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	-	-
MW2_0.5	MW2	0.5	24/01/2020	Fill, clayey sand	485	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	-	-	-	-	-	15	-	-
QA03	MW2	0.5	24/01/2020	MW2_0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-	-
QC03	MW2	0.5	24/01/2020	MW2_0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW2_2.0	MW2	2	24/01/2020	Clayey, silty sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-	-
MW3_0.2	MW3	0.2	24/01/2020	Fill, sandy clay	783	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	-	-	-	-	-	9.9	-	-
MW3_3.0	MW3	3	24/01/2020	Sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	-	-
MW4_1.0	MW4	1	24/01/2020	Fill, clayey, silty sand	393	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	-	-	-	-	-	9.4	-	-
MW5_0.2	MW5	0.2	24/01/2020	Fill, clayey, silty sand	813	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-
MW5_0.5	MW5	0.5	24/01/2020	Fill, clayey, silty sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.6	-	-
SB1_0.2	SB1	0.2	24/01/2020	Fill, silty sand	676	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	-	-	-	-	-	8.8	-	-
SB1_0.5	SB1	0.5	24/01/2020	Fill, silty sand	730	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	-	-	-	-	-	6.1	-	-
SB2_0.2	SB2	0.2	24/01/2020	Fill, clayey, silty sand	675	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-
SB2_0.5	SB2	0.5	24/01/2020	Fill, clayey, silty sand	446	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-
SB2_1.0	SB2	1	24/01/2020	Fill, silty, clayey sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	-	-
SB3_0.2	SB3	0.2	24/01/2020	Fill, clayey, silty sand	552	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-
SB3_0.5	SB3	0.5	24/01/2020	Fill, silty, clayey sand	565	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	-	-	-	-	-	11	-	-
SB4_0.2	SB4	0.2	24/01/2020	Fill, clayey, silty sand	627	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-
SB4_0.5	SB4	0.5	24/01/2020	Fill, clayey, silty sand	562	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-
SB4_1.0	SB4	1	24/01/2020	Fill, clayey, silty sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.7	-	-

Tbale B - Groundwater
Project Number: 58167
Project Name: Mascot DD

	Metals & Metalloids								TRHs (NEPC 2013)							BTEXN						
	Arsenic (Total) (Filtered)	Cadmium (Filtered)	Chromium (Total) (Filtered)	Copper (Filtered)	Lead (Filtered)	Mercury (Inorganic) (Filtered)	Nickel (Filtered)	Zinc (Filtered)	>C10-C16 Fraction	>C16-C34 Fraction	>C34-C40 Fraction	>C10-C40 Fraction (Total)	>C10-C16 less Naphthalene (F2)	C6-C10 Fraction	C6-C10 less BTEX (F1)	Benzene	Ethylbenzene	Toluene	Xylene (o)	Xylene (m & p)	Xylene (Total)	Naphthalene
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	0.001	0.0001	0.001	0.001	0.001	0.00005	0.001	0.001	0.05	0.1	0.1	0.1	0.05	0.01	0.01	0.001	0.001	0.001	0.001	0.002	0.003	0.00001
ANZG 2018 Water Quality Guidelines (Marine Water) 99% level of Protection (only applied where recommended to account for bioaccumulation)		0.0007		0.0003	0.0022	0.0001	0.007	0.007								0.7						0.07
ANZG 2018 Water Quality Guidelines (Marine Water) 95% level of Protection	0.013*(fresh)	0.0055		0.0013	0.0044	0.0004	0.07	0.015								0.5						0.05
NEPM 2013 Groundwater HSL D for Vapour Intrusion - Sand 2 to <4m													NL		6[#3]	5	NL	NL			NL	NL
NHMRC 2011 (as amended August 2018) - Health	0.01	0.002		2	0.01	0.001	0.02									0.001	0.3	0.8			0.6	

Sample ID	Sample Date	Lab Report/Primary	Sample Code																				
MW1	25/01/2020	698721	S20-Ja26115	0.038	<0.0002	0.001	<0.001	<0.001	0.0001	0.001	<0.005	<0.05	<0.1	<0.1	<0.1	<0.05	<0.02	<0.02	<0.001	<0.001	<0.001	<0.001	<0.002	<0.003	<0.00001
QA	25/01/2020	MW1	S20-Ja26120	0.038	<0.0002	0.001	<0.001	<0.001	<0.0001	0.001	<0.005	<0.05	<0.1	<0.1	<0.1	<0.05	<0.02	<0.02	<0.001	<0.001	<0.001	<0.001	<0.002	<0.003	<0.00001
QC	25/01/2020	MW1	235361-1	0.072	<0.0001	0.002	<0.001	<0.001	<0.00005	0.001	<0.001	<0.05	<0.1	<0.1	-	<0.05	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.002	-	<0.0002
MW2	25/01/2020	698721	S20-Ja26116	0.006	<0.0002	<0.001	<0.001	<0.001	<0.0001	0.004	0.008	<0.05	<0.1	<0.1	<0.1	<0.05	<0.02	<0.02	<0.001	<0.001	<0.001	<0.001	<0.002	<0.003	<0.00001
MW3	25/01/2020	698721	S20-Ja26117	0.011	<0.0002	0.001	<0.001	<0.001	<0.0001	0.028	<0.005	<0.05	<0.1	<0.1	<0.1	<0.05	<0.02	<0.02	<0.001	<0.001	<0.001	<0.001	<0.002	<0.003	<0.00001
MW4	25/01/2020	698721	S20-Ja26118	0.018	<0.0002	<0.001	<0.001	<0.001	<0.0001	0.013	<0.005	<0.05	<0.1	<0.1	<0.1	<0.05	<0.02	<0.02	<0.001	<0.001	<0.001	<0.001	<0.002	<0.003	<0.00001
MW5	25/01/2020	698721	S20-Ja26119	0.011	<0.0002	<0.001	<0.001	<0.001	<0.0001	0.004	<0.005	<0.05	<0.1	<0.1	<0.1	<0.05	<0.02	<0.02	<0.001	<0.001	<0.001	<0.001	<0.002	<0.003	<0.01 - 0.00004

Tbale B - Groundwater
Project Number: 58167
Project Name: Mascot DD

	Polycyclic Aromatic Hydrocarbons															
	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	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	Phenanthrene	PAHs (Total)	Pyrene
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001
ANZG 2018 Water Quality Guidelines (Marine Water) 99% level of Protection (only applied where recommended to account for bioaccumulation)					0.0001											
ANZG 2018 Water Quality Guidelines (Marine Water) 95% level of Protection					0.0002											
NEPM 2013 Groundwater HSL D for Vapour Intrusion - Sand 2 to <4m																
NHMRC 2011 (as amended August 2018) - Health					0.00001											

Sample ID	Sample Date	Lab Report/Primary	Sample Code														
MW1	25/01/2020	698721	S20-Ja26115	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
QA	25/01/2020	MW1	S20-Ja26120	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
QC	25/01/2020	MW1	235361-1	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	-	<0.0001	-	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	-	<0.0001
MW2	25/01/2020	698721	S20-Ja26116	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
MW3	25/01/2020	698721	S20-Ja26117	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
MW4	25/01/2020	698721	S20-Ja26118	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
MW5	25/01/2020	698721	S20-Ja26119	0.00004	<0.00001	0.00001	0.00003	0.00002	0.00001	<0.00001	0.00002	0.00002	<0.00001	0.00005	0.00002	<0.00001	0.00006	0.00037	0.00005

Tbale B - Groundwater
Project Number: 58167
Project Name: Mascot DD

	Chlorinated Alkanes																		Chlorinated Alkenes											Solvents
	1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,2,3-trichloropropane	1,2-dibromo-3-chloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	2,2-dichloropropane	Bromochloromethane	Carbon tetrachloride	Chloroethane	Chloromethane	Dichlorodifluoromethane	Dichloromethane	Trichlorofluoromethane	1,1-dichloroethene	1,1-dichloropropene	2-chlorotoluene	3-chloropropene	4-chlorotoluene	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Trichloroethene	Vinyl Chloride	2-Propanone (Acetone)
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L
EQL	0.001	0.001	0.001	0.001	0.001	0.001		0.001	0.001	0.001		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001			0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	1
ANZG 2018 Water Quality Guidelines (Marine Water) 99% level of Protection (only applied where recommended to account for bioaccumulation)				1.9																											
ANZG 2018 Water Quality Guidelines (Marine Water) 95% level of Protection				0.14																											
NEPM 2013 Groundwater HSL D for Vapour Intrusion - Sand 2 to <4m																															
NHMRC 2011 (as amended August 2018) - Health								0.003					0.003				0.004		0.03							0.05				0.0003	

Sample ID	Sample Date	Lab Report/Primary	Sample Code																												
MW1	25/01/2020	698721	S20-Ja26115	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<1
QA	25/01/2020	MW1	S20-Ja26120	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<1
QC	25/01/2020	MW1	235361-1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01	<0.01	<0.01	-	<0.01	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01	-
MW2	25/01/2020	698721	S20-Ja26116	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<1
MW3	25/01/2020	698721	S20-Ja26117	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	-	<0.001	<0.001	0.004	<0.001	<0.001	<0.001	<0.001	<0.001	<1
MW4	25/01/2020	698721	S20-Ja26118	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<1
MW5	25/01/2020	698721	S20-Ja26119	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<1

Tbale B - Groundwater
Project Number: 58167
Project Name: Mascot DD

	Monocyclic Aromatic Hydrocarbons										Miscellaneous Hydrocarbons							Chlorinated Benzenes						Trihalomethanes				Organic Sulfur Compounds
	1,2,4-trimethyl benzene	1,3,5-trimethyl benzene	4-isopropyl toluene	Bromobenzene	Isopropylbenzene	n-butyl benzene	n-propyl benzene	sec-butyl benzene	Styrene	Tert-butyl benzene	1,2-dibromoethane	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Bromomethane	Cyclohexane	Dibromomethane	Iodomethane	1,2,3-trichlorobenzene	1,2,4-trichlorobenzene	1,2-Dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Chlorobenzene	Bromodichloromethane	Chloroform	Dibromochloromethane	Tribromomethane	Carbon disulfide
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	0.001	0.001		0.001	0.001				0.001		0.001	0.001	0.001	0.001		0.001	0.001			0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
ANZG 2018 Water Quality Guidelines (Marine Water) 99% level of Protection (only applied where recommended to account for bioaccumulation)																		0.0001	0.02									
ANZG 2018 Water Quality Guidelines (Marine Water) 95% level of Protection																		0.0002	0.08									
NEPM 2013 Groundwater HSL D for Vapour Intrusion - Sand 2 to <4m																												
NHMRC 2011 (as amended August 2018) - Health									0.03		0.001			0.001						1.5		0.04	0.3					

Sample ID	Sample Date	Lab Report/Primary	Sample Code																										
MW1	25/01/2020	698721	S20-Ja26115	<0.001	<0.001	-	<0.001	<0.001	-	-	-	<0.001	-	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
QA	25/01/2020	MW1	S20-Ja26120	<0.001	<0.001	-	<0.001	<0.001	-	-	-	<0.001	-	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
QC	25/01/2020	MW1	235361-1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	-	<0.01	<0.001	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-
MW2	25/01/2020	698721	S20-Ja26116	<0.001	<0.001	-	<0.001	<0.001	-	-	-	<0.001	-	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW3	25/01/2020	698721	S20-Ja26117	<0.001	<0.001	-	<0.001	<0.001	-	-	-	<0.001	-	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW4	25/01/2020	698721	S20-Ja26118	<0.001	<0.001	-	<0.001	<0.001	-	-	-	<0.001	-	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW5	25/01/2020	698721	S20-Ja26119	<0.001	<0.001	-	<0.001	<0.001	-	-	-	<0.001	-	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

Table C - Soil Vapour
Project Number: 58167
Project Name: Mascot DD

	BTEXN					Monocyclic Aromatic Hydrocarbons								
	Benzene	Ethylbenzene	Toluene	Xylene (Total)	Naphthalene	1,2,4-trimethyl benzene	1,3,5-trimethyl benzene	4-isopropyl toluene	Isopropylbenzene	n-butyl benzene	n-propyl benzene	sec-butyl benzene	Styrene	Tert-butyl benzene
	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3
EQL	0.083333334	0.083333334	0.083333334	0.250000001	0.083333334	0.083333334	0.083333334	0.083333334	0.083333334	0.083333334	0.083333334	0.083333334	0.833333335	0.083333334
NEPM 2013 HIL Commercial/Industrial D Soil Vapour														
NEPM 2013 Soil Vapour HSL D - Sand 0 to <1m	4	1300	4800	840	3									

Sample ID	Sample Date/Primary	Sample Code	Lab Report														
SV02 (FRONT)	22/01/2020	S20-Ja26152	698723	<0.08333	<0.08333	<0.08333	<0.25	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.8333	<0.08333
SV04 (FRONT)	22/01/2020	S20-Ja26154	698723	<0.08333	<0.08333	<0.08333	<0.25	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.8333	<0.08333
SV07 (FRONT)	24/01/2020	S20-Ja26156	698723	<0.08333	<0.08333	<0.08333	<0.25	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.8333	<0.08333
SV08 (FRONT)	24/01/2020	S20-Ja26158	698723	<0.08333	<0.08333	<0.08333	<0.25	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.8333	<0.08333
SV10 (FRONT)	24/01/2020	S20-Ja26160	698723	<0.08333	<0.08333	<0.08333	<0.25	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.8333	<0.08333
SV11 (FRONT)	24/01/2020	S20-Ja26162	698723	<0.08333	<0.08333	<0.08333	<0.25	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.8333	<0.08333
SV12 (FRONT)	24/01/2020	S20-Ja26164	698723	<0.08333	<0.08333	<0.08333	<0.25	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.8333	<0.08333
SV13 (FRONT)	24/01/2020	S20-Ja26166	698723	<0.08333	<0.08333	<0.08333	<0.25	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.8333	<0.08333
QSV03 (FRONT)	24/01/2020	S20-Ja26174	698723	<0.08333	<0.08333	<0.08333	<0.25	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.8333	<0.08333
SV17 (FRONT)	24/01/2020	S20-Ja26168	698723	<0.08333	<0.08333	<0.08333	<0.25	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.8333	<0.08333
SV19 (FRONT)	24/01/2020	S20-Ja26170	698723	<0.08333	<0.08333	<0.08333	<0.25	<0.08333	0.1333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.8333	<0.08333
SV21 (FRONT)	24/01/2020	S20-Ja26172	698723	<0.08333	<0.08333	<0.08333	<0.25	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.8333	<0.08333

Table C - Soil Vapour
Project Number: 58167
Project Name: Mascot DD

				Chlorinated Alkanes													Chlorinated Alkenes									
				1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,2,3-trichloropropane	1,2-dibromo-3-chloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	2,2-dichloropropane	Bromochloromethane	Carbon tetrachloride	Trichlorofluoromethane	1,1-dichloroethene	1,1-dichloropropene	2-chlorotoluene	4-chlorotoluene	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Tetrachloroethene	trans-1,3-dichloropropene	Trichloroethene	Vinyl Chloride
				mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3
EQL				0.083333334	0.083333334	0.083333334	0.083333334	0.083333334	0.083333334	0.083333334	0.083333334	0.083333334	0.083333334	0.083333334	0.083333334	0.083333334	0.083333334	0.083333334	0.083333334	0.083333334	0.083333334	0.083333334	0.083333334	0.083333334	0.083333334	0.083333334	0.083333334
NEPM 2013 HIL Commercial/Industrial D Soil Vapour					230																	0.3		8		0.08	0.1
NEPM 2013 Soil Vapour HSL D - Sand 0 to <1m																											
Sample ID	**Sample Date/Primary**	**Sample Code**	**Lab Report**																								
SV02 (FRONT)	22/01/2020	S20-Ja26152	698723	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333
SV04 (FRONT)	22/01/2020	S20-Ja26154	698723	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333
SV07 (FRONT)	24/01/2020	S20-Ja26156	698723	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333
SV08 (FRONT)	24/01/2020	S20-Ja26158	698723	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333
SV10 (FRONT)	24/01/2020	S20-Ja26160	698723	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333
SV11 (FRONT)	24/01/2020	S20-Ja26162	698723	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	0.15	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333
SV12 (FRONT)	24/01/2020	S20-Ja26164	698723	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333
SV13 (FRONT)	24/01/2020	S20-Ja26166	698723	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333
QSV03 (FRONT)	24/01/2020	S20-Ja26174	698723	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333
SV17 (FRONT)	24/01/2020	S20-Ja26168	698723	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333
SV19 (FRONT)	24/01/2020	S20-Ja26170	698723	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333
SV21 (FRONT)	24/01/2020	S20-Ja26172	698723	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333

Table C - Soil Vapour
Project Number: 58167
Project Name: Mascot DD

	Miscellaneous Hydrocarbons		Chlorinated Benzenes						Trihalomethanes				Miscellaneous Industrial Chemicals	Organic Alcohols
	1,2-dibromoethane	Dibromomethane	1,2,3-trichlorobenzene	1,2,4-trichlorobenzene	1,2-Dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Chlorobenzene	Bromodichloromethane	Chloroform	Dibromochloromethane	Tribromomethane	Hexachlorobutadiene	Isopropyl alcohol
	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3
EQL	0.083333334	0.083333334	0.083333334	0.083333334	0.083333334	0.083333334	0.083333334	0.083333334	0.083333334	0.083333334	0.083333334	0.083333334	0.083333334	1.66666667
NEPM 2013 HIL Commercial/Industrial D Soil Vapour														
NEPM 2013 Soil Vapour HSL D - Sand 0 to <1m														
Sample ID	**Sample Date/Primary**	**Sample Code**	**Lab Report**											
SV02 (FRONT)	22/01/2020	S20-Ja26152	698723	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<1.667
SV04 (FRONT)	22/01/2020	S20-Ja26154	698723	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<1.667
SV07 (FRONT)	24/01/2020	S20-Ja26156	698723	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<1.667
SV08 (FRONT)	24/01/2020	S20-Ja26158	698723	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<1.667
SV10 (FRONT)	24/01/2020	S20-Ja26160	698723	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<1.667
SV11 (FRONT)	24/01/2020	S20-Ja26162	698723	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<1.667
SV12 (FRONT)	24/01/2020	S20-Ja26164	698723	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<1.667
SV13 (FRONT)	24/01/2020	S20-Ja26166	698723	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<1.667
QSV03 (FRONT)	24/01/2020	S20-Ja26174	698723	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<1.667
SV17 (FRONT)	24/01/2020	S20-Ja26168	698723	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<1.667
SV19 (FRONT)	24/01/2020	S20-Ja26170	698723	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<1.667
SV21 (FRONT)	24/01/2020	S20-Ja26172	698723	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<1.667

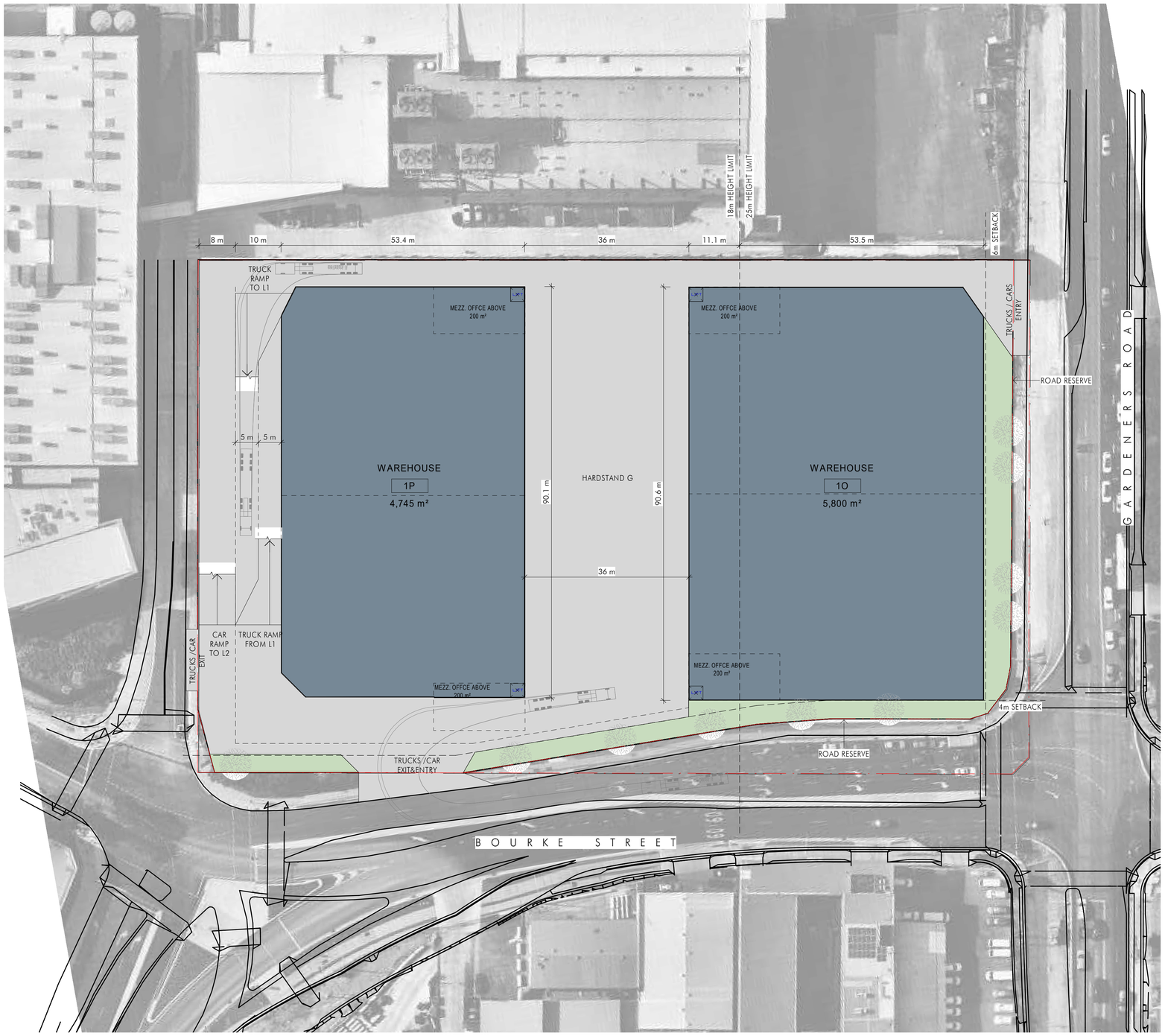
Appendix B Indicative Development Plans

Builder and/or subcontractors shall verify all project dimensions before commencing on-site work or off-site fabrication. Figured dimensions shall take precedence over scaled dimensions. This drawing is copyright and cannot be reproduced in whole or in part or by any medium without the written permission of Nettleton Tribe Partnership Pty Ltd.

Key Plan

0 10000 25000

Issue	Description	Date



1 Option 3 - Level G
1 : 500

Charter Hall

Client

Builder

Builders Logo

Project Name
Charter Hall - Alexandria

Project Address
520 Gardeners Rd. Alexandria, NSW 2015

Drawing Title
Option 3 - Ground Floor Plan

Author:	Checker:	Sheet Size:	Scale:
WC	DC	A1	1 : 500

Drawing Number: **11596_SK030**

Issue:

nettletontribe

nettleton tribe partnership pty ltd ABN 58 161 683 122

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e: brisbane@nettletontribe.com.au w: nettletontribe.com.au

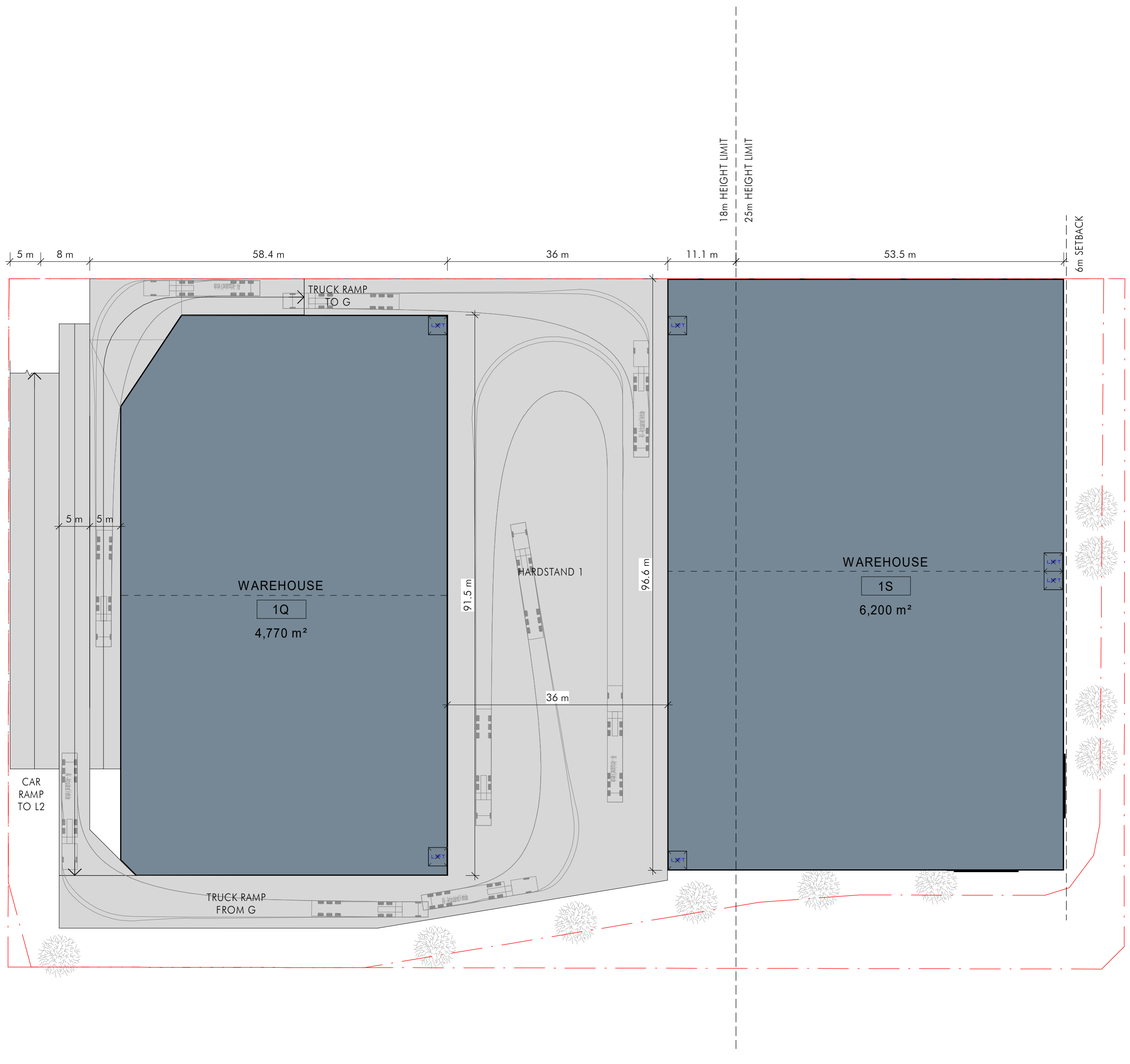
16/09/2021 3:48:42 PM C:\REVIT LOCAL_2020\11596-Charter Hall Masonit_Building 2\TENANCY option_ThomasLau.rvt#ACS.rvt

Builder and/or subcontractors shall verify all project dimensions before commencing on-site work or off-site fabrication. Figured dimensions shall take precedence over scaled dimensions. This drawing is copyright and cannot be reproduced in whole or in part or by any medium without the written permission of Nettleton Tribe Partnership Pty Ltd.

Key Plan

0 10000 25000

Issue	Description	Date



1 Option 3 - Level 1
1 : 500

Client

Builder

Builders Logo

Project Name
Charter Hall - Alexandria

Project Address
520 Gardeners Rd. Alexandria, NSW 2015

Drawing Title
Option 3 - Level 1 Plan

Author:	Checker:	Sheet Size:	Scale:
WC	DC	A1	1 : 500

Drawing Number: **11596_SK031**

Issue:

nettleton tribe partnership pty ltd ABN 58 161 683 122
Level 5, 344 Queen Street, Brisbane, QLD 4000
t +61 7 3239 2444
e: brisbane@nettletontribe.com.au w: nettletontribe.com.au

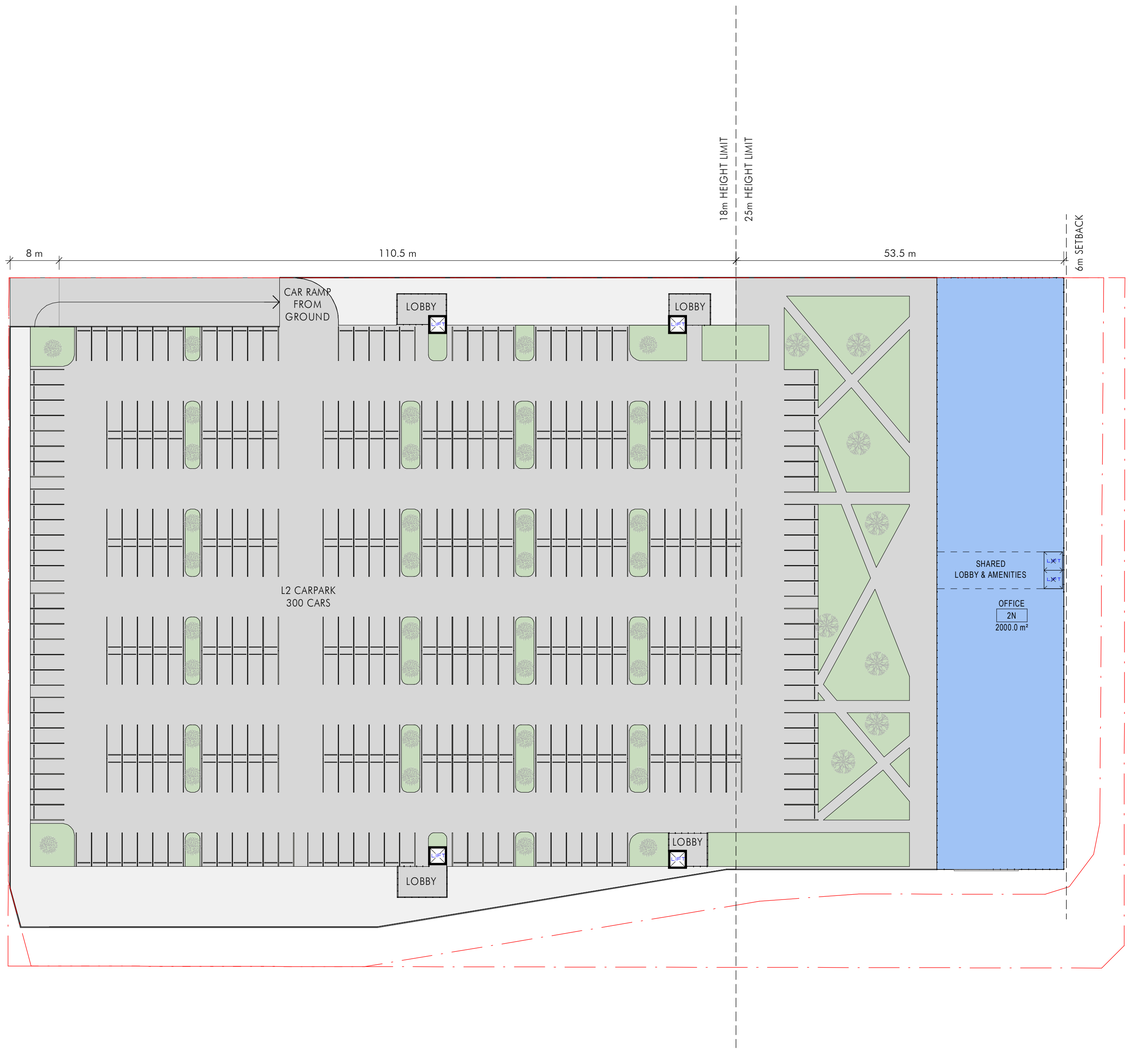
16/06/2021 3:46:43 PM C:\REVIT LOCAL 2020\11596-Charter Hall Mascot_Building ZTENANCY option_ThomasLau2ANK3.rvt

Builder and/or subcontractors shall verify all project dimensions before commencing on-site work or off-site fabrication. Figured dimensions shall take precedence over scaled dimensions. This drawing is copyright and cannot be reproduced in whole or in part or by any medium without the written permission of Nettleton Tribe Partnership Pty Ltd.

Key Plan

0 10000 25000

Issue	Description	Date



1 Option 3 - Level 2
1 : 500

Client

Builder

Builders Logo

Project Name
Charter Hall - Alexandria

Project Address
520 Gardeners Rd. Alexandria, NSW 2015

Drawing Title
Option 3 - Level 2 Plan

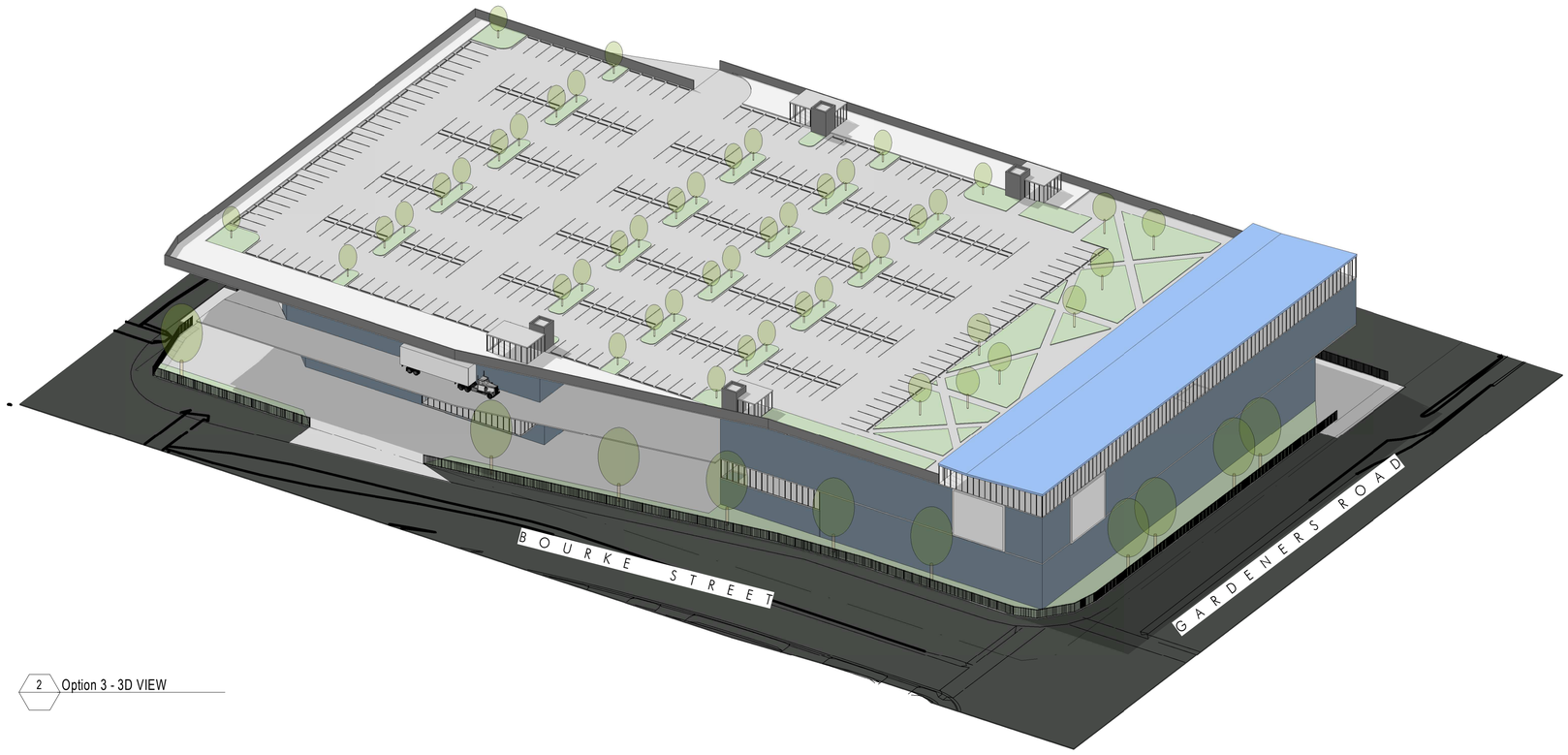
Author:	Checker:	Sheet Size:	Scale:
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Drawing Number: **11596_SK032**

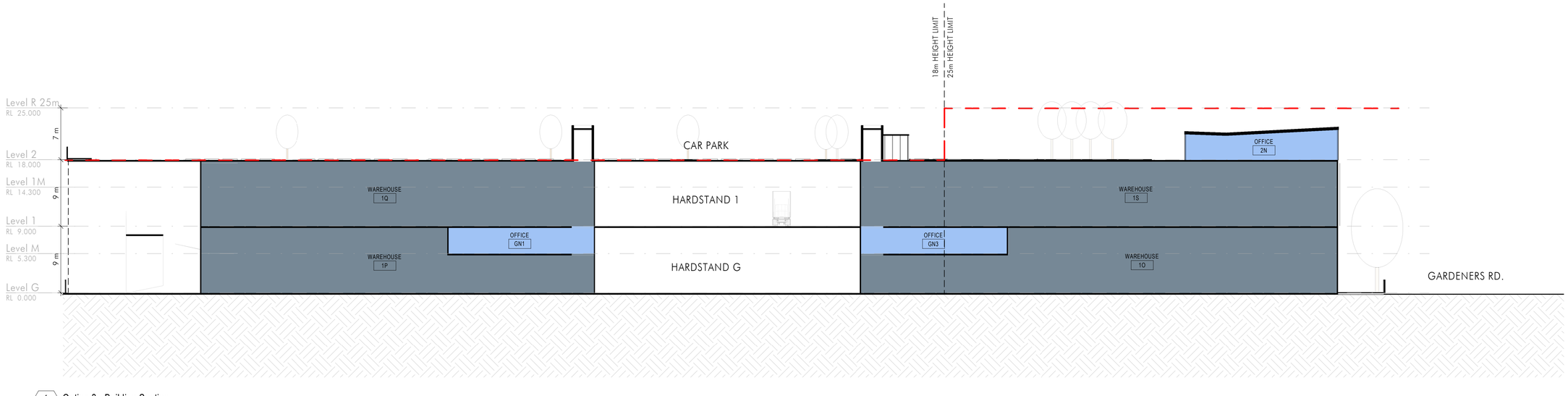
Issue:

nettleton tribe partnership pty ltd ABN 58 161 683 122
Level 5, 344 Queen Street, Brisbane, QLD 4000
t +61 7 3239 2444
e: brisbane@nettletontribe.com.au w: nettletontribe.com.au

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2 Option 3 - 3D VIEW



1 Option 3 - Building Section
1 : 300

Option 3 - Area Schedule

Level	Name	Number	Area
Level M	OFFICE	GN1	200 m²
Level M	OFFICE	GN2	200 m²
Level M	OFFICE	GN3	200 m²
Level M	OFFICE	GN4	200 m²
Level 2	OFFICE	2N	2,000 m²
OFFICE			2,800 m²
Level G	WAREHOUSE	1O	5,800 m²
Level G	WAREHOUSE	1P	4,745 m²
Level 1	WAREHOUSE	1Q	4,770 m²
Level 1	WAREHOUSE	1S	6,200 m²
WAREHOUSE			21,515 m²
Total GFA			24,314 m²

FSR ACHEIVED:	1.25
SITE AREA:	19,007 m²
FSR REQUIRED:	1.50
MAX GFA:	28,510 m²

Option 3 - Parking Schedule

Level	Item	Count
Level 2	Parking Space	375
Total Carspaces: 375		

Builder and/or subcontractors shall verify all project dimensions before commencing on-site work or off-site fabrication. Figured dimensions shall take precedence over scaled dimensions. This drawing is copyright and cannot be reproduced in whole or in part or by any medium without the written permission of Nettleton Tribe Partnership Pty Ltd.

Key Plan

0 6000 15000

Issue	Description	Date

Charter Hall

Client

Builder

Builders Logo

Project Name
Charter Hall - Alexandria

Project Address
520 Gardeners Rd. Alexandria, NSW 2015

Drawing Title
Option 3 - 3d and Section

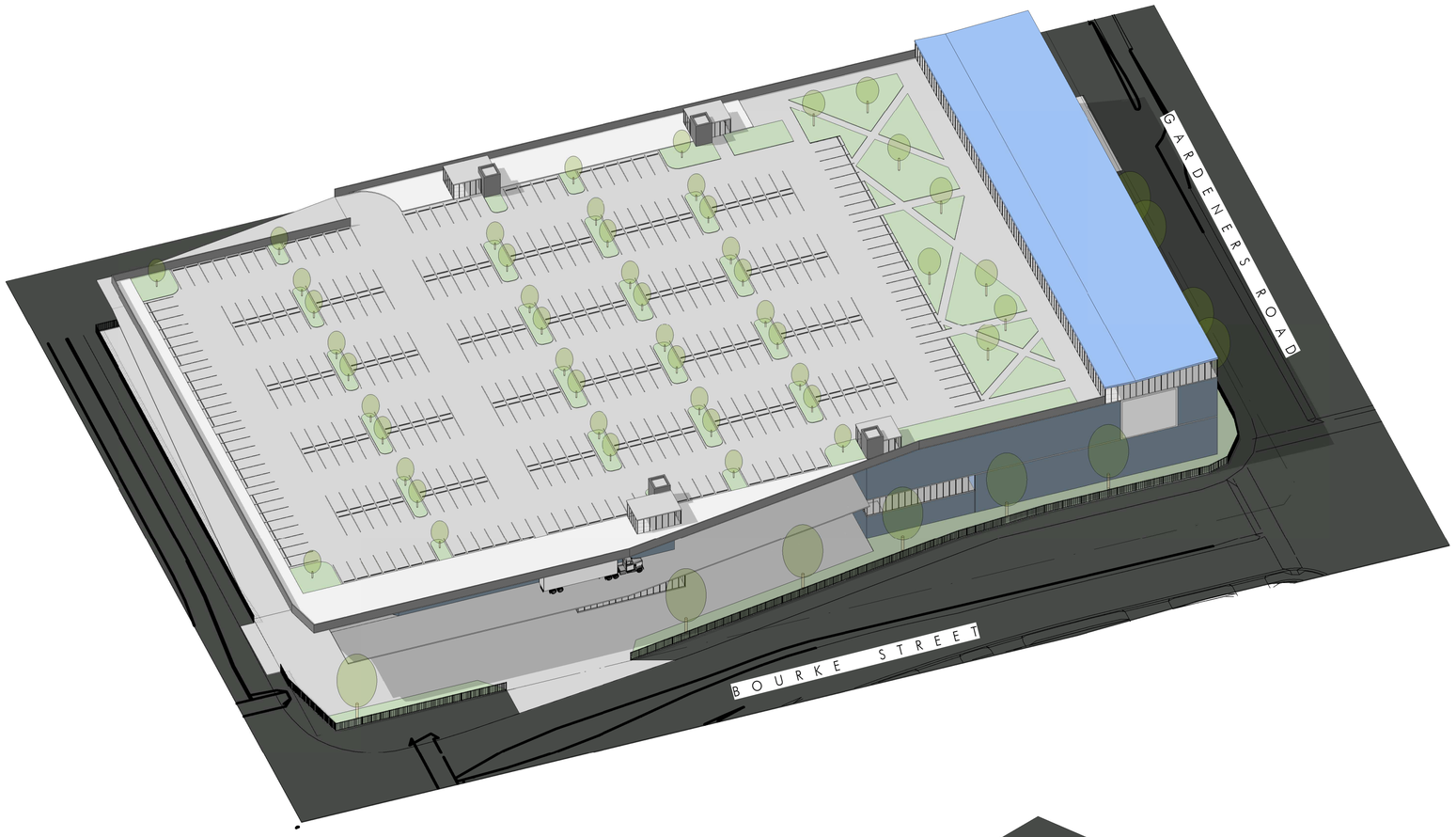
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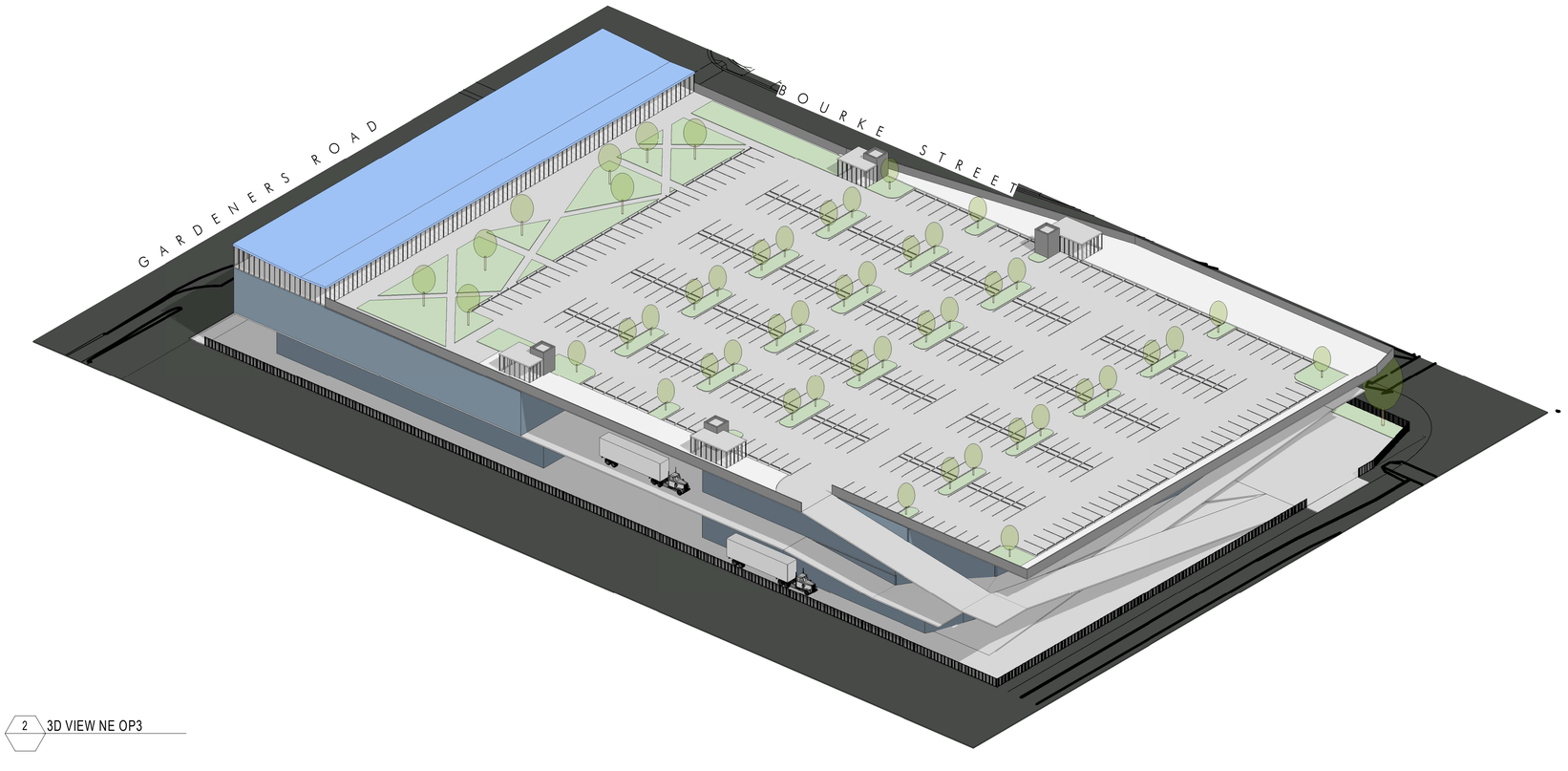
Issue:

nettleton tribe partnership pty ltd ABN 58 161 683 122
Level 5, 344 Queen Street, Brisbane, QLD 4000
t +61 7 3239 2444
e: brisbane@nettletontribe.com.au w: nettletontribe.com.au

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1 3D VIEW NW OP3



2 3D VIEW NE OP3

Builder and/or subcontractors shall verify all project dimensions before commencing on-site work or off-site fabrication. Figured dimensions shall take precedence over scaled dimensions. This drawing is copyright and cannot be reproduced in whole or in part or by any medium without the written permission of Nettleton Tribe Partnership Pty Ltd.

Key Plan

Issue	Description	Date

Charter Hall

Client

Builder

Builders Logo

Project Name
Charter Hall - Alexandria

Project Address
520 Gardeners Rd. Alexandria, NSW 2015

Drawing Title
Option 3 - 3D Views

Author:	Checker:	Sheet Size:	Scale:
WC	DC	A1	

Drawing Number: **11596_SK034** Issue:

nettleton tribe partnership pty ltd ABN 58 161 683 122
Level 5, 344 Queen Street, Brisbane, QLD 4000
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e: brisbane@nettletontribe.com.au w: nettletontribe.com.au

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Appendix C Photographic Log

PHOTOGRAPH 1 – ABOVEGROUND WATER STORAGE TANK



PHOTOGRAPH 2 – FIRE PUMP GENERATOR ROOM



PHOTOGRAPH 3 – AREA OF PREVIOUS HAZARDOUS CHEMICAL STORAGE



PHOTOGRAPH 4 – RAINWATER REUSE TANK



JBS&G

Job No: 58167

Client: Charter Hall

Version: R01 Rev A	Date: 29/01/2020
Drawn By: JD	Checked By: JD

Not to Scale

Coord. Sys n/a

Former Bunnings Warehouse

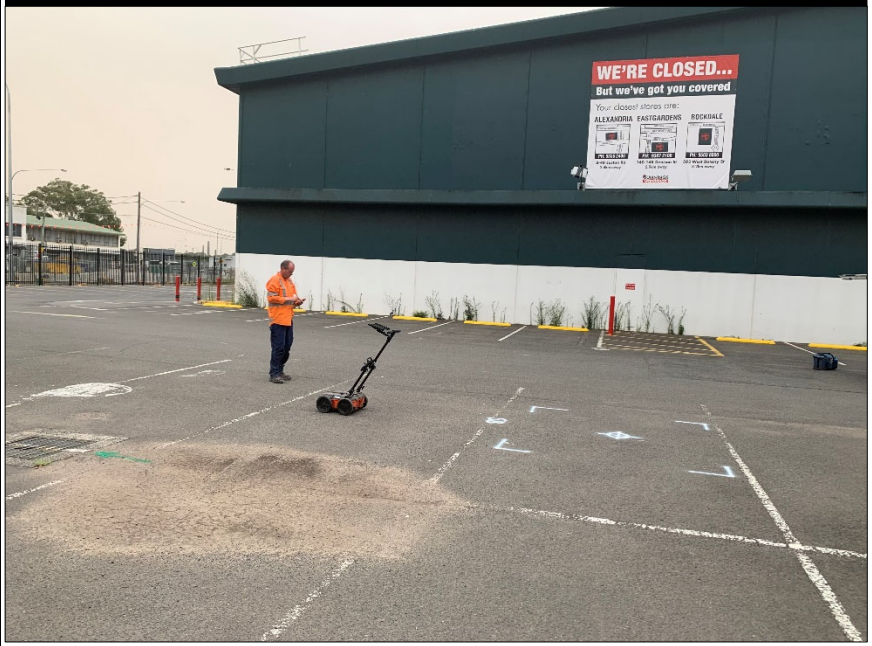
520-530 Gardeners Road, Alexandria NSW 2020

APPENDIX A

PHOTOGRAPH 5 – REPAIRED PATCHES OF CARPARK BITUMEN IN NORTHERN PORTION OF SITE



PHOTOGRAPH 6 – CONDITION OF CARPARK BITUMEN IN SOUTHERN PORTION OF SITE



PHOTOGRAPH 7 – CONCRETE STAINING IN WAREHOUSE



PHOTOGRAPH 8 – CONDITION OF CONCRETE ALONG EASTERN PORTION OF SITE



JBS&G

Job No: 58167

Client: Charter Hall

Version: R01 Rev A	Date: 29/01/2020
Drawn By: JD	Checked By: JD

Not to Scale

Coord. Sys n/a

Former Bunnings Warehouse

520-530 Gardeners Road, Alexandria NSW 2020

APPENDIX A

Appendix D Registered Groundwater Bore Information

Show search results for **520 Gar...**

Measurement

Kilometers

Measurement Result

0.48 Kilometers

Clear

Press **CTRL** to enable snapping

Degrees

GW100053
GW111320
GW111321
GW072643
GW108497
GW103504
GW101533
GW108104
GW013331
GW015954
GW024374
GW114857
GW100484
GW112651
GW112962
GW112405
GW112403
GW047525
GW027248

WaterNSW
Work Summary

GW111321

Licence: | **Licence Status:**

Authorised Purpose(s):
Intended Purpose(s): MONITORING BORE

Work Type: Bore
Work Status: Equipped
Construct.Method: Auger - Hollow
Owner Type: Private

Commenced Date:
Completion Date: 09/01/2007

Final Depth: 5.00 m
Drilled Depth: 5.00 m

Contractor Name: HLA ENVIROSCIENCES
Driller: Unkown Unknown
Assistant Driller:

Property:
GWMA:
GW Zone:

Standing Water Level (m): 2.635
Salinity Description:
Yield (L/s):

Site Details

Site Chosen By:

		County	Parish	Cadastre
Form A:		CUMBERLAND	ALEXANDRI	C//162050
Licensed:				

Region: 10 - Sydney South Coast
River Basin: - Unknown
Area/District:

CMA Map:
Grid Zone:
Scale:

Elevation: 0.00 m (A.H.D.)
Elevation Source: Unknown

Northing: 6245742.000
Easting: 332322.000

Latitude: 33°54'55.5"S
Longitude: 151°11'10.3"E

GS Map: -

MGA Zone: 56

Coordinate Source: Unknown

Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1		Hole	Hole	0.00	5.00	200			Auger - Hollow Flight
1		Annulus	Waterworn/Rounded	0.00	5.00	200			Graded
1	1	Casing	Pvc Class 18	0.00	2.00	50			
1	1	Opening	Screen	2.00	5.00	50		0	PVC Class 18

Drillers Log

From (m)	To (m)	Thickness (m)	Drillers Description	Geological Material	Comments
0.00	0.18	0.18	CONCRETE	Fill	
0.18	0.90	0.72	GRAVELLY CLAYEY SAND,DENSE,MOIST	Clayey Sand	

0.90	1.60	0.70	GRAVEL SILTY,DENSE,VERY MOIST	Gravel	
1.60	2.00	0.40	SAND,CLAYEY SAND,GREY,FINE GRAINED	Clayey Sand	
2.00	5.00	3.00	CLAY,SANDY,SOFT,L/PLASTICITY,SAND FINE GRAINED	Sandy Clay	

***** End of GW111321 *****

Warning To Clients: This raw data has been supplied to the WaterNSW by drillers, licensees and other sources. WaterNSW does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

Appendix E EPA Records

Home Contaminated land Record of notices

Search results

Your search for:Suburb: ALEXANDRIA

Matched 10 notices relating to 5 sites.

Search Again

Refine Search

Suburb	Address	Site Name	Notices related to this site
ALEXANDRIA	Off Huntley STREET	Alexandra Canal Sediments	2 current
ALEXANDRIA	10-24 Ralph STREET	Australia Post	1 current and 1 former
ALEXANDRIA	49-59 O'Riordan STREET	Former Cadbury Schweppes	1 former
ALEXANDRIA	10-20 Botany ROAD	Formerly Gas N Go Alexandria (fully redeveloped into residential apartment as of September 2016)	3 former
ALEXANDRIA	Sydney Park ROAD	Sydney Park	2 current

Page 1 of 1

29 January 2020

For business and industry

For local government

Contact us

131 555 (tel:131555)

info@epa.nsw.gov.au (mailto:info@epa.nsw.gov.au)

EPA Office Locations (https://www.epa.nsw.gov.au/about-us/contact-us/locations)

Accessibility (https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/help-index)
Disclaimer (https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/disclaimer)
Privacy (https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/privacy)
Copyright (https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/copyright)

(https://au.linkedin.co
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environment
-
protection
-
authority
-
epa

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Background

A strategy to systematically prioritise, assess and respond to notifications under Section 60 of the ***Contaminated Land Management Act 1997*** (CLM Act) has been developed by the EPA. This strategy acknowledges the EPA's obligations to make information available to the public under ***Government Information (Public Access) Act 2009***.

When a site is notified to the EPA, it may be accompanied by detailed site reports where the owner has been proactive in addressing the contamination and its source. However, often there is minimal information on the nature or extent of the contamination.

After receiving a report, the first step is to confirm that the report does not relate to a pollution incident. The Protection of the Environment Operations Act 1997 (POEO Act) deals with pollution incidents, waste stockpiling or dumping. The EPA also has an incident management process to manage significant incidents (https://www.epa.nsw.gov.au/reporting-and-incidents/incident-management).

In many cases, the information indicates the contamination is securely immobilised within the site, such as under a building or carpark, and is not currently causing any significant risks for the community or environment. Such sites may still need to be cleaned up, but this can be done in conjunction with any subsequent building or redevelopment of the land. These sites do not require intervention under the CLM Act, and are dealt with through the planning and development consent process. In these cases, the EPA informs the local council or other planning authority, so that the information can be recorded and considered at the appropriate time (https://www.epa.nsw.gov.au/your-environment/contaminated-land/managing-contaminated-land/role-of-planning-authorities).

Where indications are that the contamination could cause actual harm to the environment or an unacceptable offsite impact (i.e. the land is 'significantly contaminated'), the EPA would apply the regulatory provisions of the CLM Act to have the responsible polluter and/or landowner investigate and remediate the site. If the reported contamination could present an immediate or long-term threat to human health NSW Health will be consulted. SafeWork NSW and Water NSW can also be consulted if there appear to be occupational health and safety risks or an impact on groundwater quality.

As such, the sites notified to the EPA and presented in the list of contaminated sites notified to the EPA are at various stages of the assessment and remediation process. Understanding the nature of the underlying contamination, its implications and implementing a remediation program where required, can take a considerable period of time. The list provides an indication, in relation to each nominated site, as to the management status of that particular site. Further detailed information may be available from the EPA or the person who notified the site.

The following questions and answers may assist those interested in this issue.

Frequently asked questions

Why does my land appear on the list of notified sites?

Your land may appear on the list because:

• the site owner and/or the polluter has notified the EPA under section 60 of the CLM Act
• the EPA has been notified via other means and is satisfied that the site is or was contaminated.

If a site is on the list, it does not necessarily mean the contamination is significant enough to regulate under the CLM Act.

Does the list contain all contaminated sites in NSW?

No. The list only contains contaminated sites that EPA is aware of. If a site is not on the list, it does not necessarily mean the site is not contaminated.

The EPA relies on responsible parties and the public to notify contaminated sites.

How are notified contaminated sites managed by the EPA?

There are different ways the EPA can manage notified contaminated sites. Options include:

• regulation under the CLM Act, POEO Act, or both
• notifying the relevant planning authority for management under the planning and development process
• managing the site under the Protection of the Environment Operation (Underground Petroleum Storage Systems) Regulation 2014.

There are specific cases where contamination is managed under a tailored program operated by another agency (for example, the Resources & Geoscience's Legacy Mines Program).

What should I do if I am a potential buyer of a site that appears on the list?

You should seek advice from the seller to understand the contamination issue. You may need to seek independent contamination or legal advice.

The information provided in the list is indicative only and a starting point for your own assessment. Land contamination from past site uses is common, mainly in urban environments. If the site is properly remediated or managed, it may not affect the intended future use of the site.

Who can I contact if I need more information about a site?

You can contact the Environment Line at any time by calling 131 555 or by emailing info@environment.nsw.gov.au.

List of NSW Contaminated Sites Notified to the EPA

Disclaimer

The EPA has taken all reasonable care to ensure that the information in the list of contaminated sites notified to the EPA (the list) is complete and correct. The EPA does not, however, warrant or represent that the list is free from errors or omissions or that it is exhaustive.

The EPA may, without notice, change any or all of the information in the list at any time.

You should obtain independent advice before you make any decision based on the information in the list.

The list is made available on the understanding that the EPA, its servants and agents, to the extent permitted by law, accept no responsibility for any damage, cost, loss or expense incurred by you as a result of:

1. any information in the list; or
2. any error, omission or misrepresentation in the list; or
3. any malfunction or failure to function of the list;
4. without limiting (2) or (3) above, any delay, failure or error in recording, displaying or updating information.

Site Status	Explanation
Under assessment	The contamination is being assessed by the EPA to determine whether regulation is required. The EPA may require further information to complete the assessment. For example, the completion of management actions regulated under the planning process or *Protection of the Environment Operations Act 1997*.
Under Preliminary Investigation Order	The EPA has issued a Preliminary Investigation Order under s10 of the *Contaminated Land Management Act 1997*, to obtain additional information needed to complete the assessment.
Regulation under CLM Act not required	The EPA has completed an assessment of the contamination and decided that regulation under the *Contaminated Land Management Act 1997* is not required.
Regulation being finalised	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation under the *Contaminated Land Management Act 1997*. A regulatory approach is being finalised.
Contamination currently regulated under CLM Act	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation under the Contaminated Land Management Act 1997 (CLM Act). Management of the contamination is regulated by the EPA under the CLM Act. Regulatory notices are available on the EPA's Contaminated Land Public Record.
Contamination currently regulated under POEO Act	Contamination is currently regulated under the Protection of the Environment Operations Act 1997 (POEO Act). The EPA as the appropriate regulatory authority reasonably suspects that a pollution incident is occurring/ has occurred and that it requires regulation under the POEO Act. The EPA may use environment protection notices, such as clean up notices, to require clean up action to be taken. Such regulatory notices are available on the POEO public register.
Contamination being managed via the planning process (EP&A Act)	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation. The contamination of this site is managed by the consent authority under the *Environmental Planning and Assessment Act 1979* (EP&A Act) planning approval process, with EPA involvement as necessary to ensure significant contamination is adequately addressed. The consent authority is typically a local council or the Department of Planning and Environment.
Contamination formerly regulated under the CLM Act	The EPA has determined that the contamination is no longer significant enough to warrant regulation under the *Contaminated Land Management Act 1997* (CLM Act). The contamination was addressed under the CLM Act.
Contamination formerly regulated under the POEO Act	The EPA has determined that the contamination is no longer significant enough to warrant regulation. The contamination was addressed under the *Protection of the Environment Operations Act 1997* (POEO Act).
Contamination was addressed via the planning process (EP&A Act)	The EPA has determined that the contamination is no longer significant enough to warrant regulation. The contamination was addressed by the appropriate consent authority via the planning process under the *Environmental Planning and Assessment Act 1979* (EP&A Act).
Ongoing maintenance required to manage residual contamination (CLM Act)	The EPA has determined that ongoing maintenance, under the Contaminated Land Management Act 1997 (CLM Act), is required to manage the residual contamination. Regulatory notices under the CLM Act are available on the EPA's Contaminated Land Public Record.

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
ABBOTSFORD	Former Gasworks	83 Wymston PARADE	Gasworks	Contamination formerly regulated under the CLM Act	-33.85288351	151.1265979
ABBOTSFORD	Former Gasworks	82, 83, 84 Wymston Pde, & 37, 39, 43, 45 St Albans STREET	Gasworks	Contamination formerly regulated under the CLM Act	-33.85288316	151.1267729
ABBOTSFORD	Former Gasworks	85 Wymston PARADE	Gasworks	Regulation under CLM Act not required	-33.85265214	151.1266277
ABBOTSFORD	Former Gasworks	80-81 Wymston Pde and 35 and 41 St Albans STREET	Gasworks	Regulation under CLM Act not required	-33.85306653	151.1268142
ABBOTSFORD	Former Gasworks	43 St Albans STREET	Gasworks	Contamination formerly regulated under the CLM Act	-33.85270604	151.126976
ABERDEEN	Former Transport Depot	87-89 St Andrew STREET	Other Industry	Regulation under CLM Act not required	-32.17160931	150.8972859
ALBION PARK	Caltex Albion Park Service Station	1 Calderwood ROAD	Service Station	Regulation under CLM Act not required	-34.57131362	150.7647971
ALBION PARK RAIL	Caltex Service Station	174 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.56134097	150.7953663
ALBION PARK RAIL	Caltex Service Station	31 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.55162786	150.7880626
ALBION PARK RAIL	Former Timber Storage Area	36 Rivulet CRESCENT	Other Industry	Regulation under CLM Act not required	-34.54872597	150.7899351
ALBURY	Mobil Depot, Railway Place Albury	1 Railway PLACE	Other Petroleum	Regulation under CLM Act not required	-36.08526805	146.9236999
ALBURY	Woolworths Petrol	515 Young STREET	Service Station	Regulation under CLM Act not required	-36.08073723	146.92351
ALBURY	Former Caltex Service Station	842 David STREET	Service Station	Regulation under CLM Act not required	-36.06398743	146.9252143
ALBURY	SRA Land, 514 to 526 Young Street	514 to 526 Young STREET	Other Petroleum	Regulation under CLM Act not required	-36.08084123	146.9241682
ALBURY	Former Gasworks and surrounding commercial land.	441 Kiewa STREET	Gasworks	Contamination currently regulated under CLM Act	-36.08357983	146.9137004
ALBURY	Coles Express Albury	465 Guinea STREET	Service Station	Regulation under CLM Act not required	-36.07513665	146.9213077
ALBURY	Former Thales Australia site, Albury	161 Fallon STREET	Other Industry	Contamination formerly regulated under the CLM Act	-36.064966	146.9434831
ALBURY	Xpress Service Station	616-624 Young STREET	Service Station	Contamination formerly regulated under the CLM Act	-36.07555262	146.9256466
ALBURY	Albury Plaza	Cnr Smollett Street and Townsend STREET	Other Industry	Regulation under CLM Act not required	-36.08112933	146.9135719
ALBURY	Mobil Albury Aviation Fuel Depot	Hangar 8 (Albury Airport), Ogden PLACE	Other Petroleum	Regulation under CLM Act not required	-36.07178139	146.9530165
ALBURY	SRA Land	448 and 452 Young STREET	Unclassified	Regulation under CLM Act not required	-36.08438605	146.9235454
ALBURY	Caltex Service Station	Dean Street, Corner Creek STREET	Service Station	Regulation under CLM Act not required	-36.07978937	146.9110825
ALEXANDRIA	Former Mobil Service Station	20 O'Riordan STREET	Service Station	Regulation under CLM Act not required	-33.9075539	151.2014811
ALEXANDRIA	Caltex Alexandria Service Station	133 Wyndham St, cnr McEvoy STREET	Service Station	Regulation under CLM Act not required	-33.90220927	151.2000425
ALEXANDRIA	Former Cadbury Schweppes	49-59 O'Riordan STREET	Other Industry	Contamination formerly regulated under the CLM Act	-33.91406619	151.195067
ALEXANDRIA	Formerly Gas N Go Alexandria (fully redeveloped into residential apartment as of September 2016)	10-20 Botany ROAD	Service Station	Regulation under CLM Act not required	-33.89536227	151.1987818
ALEXANDRIA	Mascot Developments	494-504 Gardeners ROAD	Other Industry	Regulation under CLM Act not required	-33.9198218	151.191282
ALEXANDRIA	Alexandria GoGas	562 Botany ROAD	Service Station	Regulation under CLM Act not required	-33.91577222	151.2000753
ALEXANDRIA	Australian Refined Alloys	202-212 Euston ROAD	Metal Industry	Regulation under CLM Act not required	-33.91505136	151.185872
ALEXANDRIA	Alexandra Canal Sediments	Off Huntley STREET	Unclassified	Contamination currently regulated under CLM Act	-33.92204213	151.1770009
ALEXANDRIA	Australia Post	10-24 Ralph STREET	Other Industry	Contamination was addressed via the planning process (EP&A Act)	-33.91583041	151.197997
ALEXANDRIA	Perry Park	1B Maddox STREET	Landfill	Regulation under CLM Act not required	-33.90809949	151.1962945
ALEXANDRIA	Alexandria Gardens	146-156 Wyndham Street & 146-156 Botany ROAD	Unclassified	Regulation under CLM Act not required	-33.89956961	151.1997377
ALEXANDRIA	Sydney Park	Sydney Park, Alexandria ROAD	Landfill	Contamination currently regulated under CLM Act	-33.91163421	151.1840827
ALEXANDRIA	Former Industrial Site (now Value Suites)	16 O'Riordan STREET	Other Industry	Regulation under CLM Act not required	-33.9069796	151.201902
ALEXANDRIA	The Gentry Alexandria - 31 to 41 William St.	31-41 William STREET	Unclassified	Regulation under CLM Act not required	-33.91288033	151.1980106
ALSTONVILLE	Caltex Service Station Alstonville	73 Main STREET	Service Station	Regulation under CLM Act not required	-28.84115994	153.4388699

Appendix F Heritage Records

Search Results

No results found.

Enter at least one search criterion.

Search Hints

Search Reset form

Place name

Street name
gardeners road

Town or suburb
alexandria

State
New South Wales

Country

Advanced search options

List
All Lists
Different lists will provide different status and class options

Local Government Area

Place ID number

Legal status
--All--

Class
--All--

Keyword Search

Description Statement of Significance Place history

Latitude/Longitude

N

Latitude 1

Longitude 1 S Longitude 2

W E Latitude 2 E **E**

S

S

Wholly within region
Wholly or partially within region

Longitude coordinates should be entered as ddd.mmss
Latitude coordinates should be entered as dd.mmss

Map Ref No

1:100,000 eg 2357
1:250,000 eg SF-50-01

Search Hints

- Not all fields need to be filled in. The fewer you fill in the more results you will get.
- If you cannot find a place, check spelling and try alternative names. Reduce the number of words that you include and use fewer fields.
- The Local Government field used on its own will provide a comprehensive list of places in an area.

Report Produced: Wed Jan 29 08:07:18 2020

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NSW GOVERNMENT

NSW Department of Planning, Industry and Environment

Home > Topics > Heritage places and items > Search for heritage

Search for NSW heritage

Your search did not return any matching results. Please refine your search and try again.

Here you can search the State Heritage Inventory. The State Heritage Inventory is a database of heritage items in New South Wales which includes:

- declared Aboriginal Places
- items listed on the State Heritage Register
- listed Interim Heritage Orders
- items on State Agency Heritage Registers, and,
- items listed of local heritage significance on a local council's Local Environmental Plan.

NSW's maritime heritage, that is not a site listed on the State Heritage Register, is held in a separate database. You can search for shipwrecks, submerged aircraft and other maritime heritage sites in the **Maritime Heritage Database.**

For more information about Aboriginal Places and other sites of significance refer to **Aboriginal Heritage Information Management System.**

We work to keep the State Heritage Inventory up to date. We rely on State agencies and local councils to provide updated information when applicable. It's recommended that you check with the relevant State agency or local council for the most up-to-date information.

Basic search criteria

Item name/database ID:

Street name: gardeners road

Suburb/town: alexandria

Local Government Area: Sydney

Local Aboriginal Land Council (LALC): Please Choose...
(For Aboriginal Place and State Heritage Register only)

Heritage listings: Please Choose...

SHR number:

Additional search criteria

NOTE: For items listed by local councils, there may not be information in the additional search criteria fields.

Owner organisation*:

Designer/builder:

Year of construction: from

to:

Item type: Please Choose...

Item group: Please Choose...

Item category: Please Choose...

Australian historic theme: Please Choose...

NSW historic theme: Please Choose...

Significance, description, historical notes:

Information complete: ☐

Search

Reset

***View owner organisation names for section 170 heritage and conservation registers**

Search Aboriginal Places & State Heritage Register

The map below shows declared Aboriginal Places and items listed on the State Heritage Register. It does not include listed Interim Heritage Orders, items on State Agency Heritage Registers or Local Environmental Plans.

The location of Aboriginal Places and State Heritage Register items are marked on the map as a single approximation point for general identification and research purposes only.

Location information for some Aboriginal Places (e.g. burial grounds and sacred sites) has been generalised because of their cultural sensitivity. Location information for restricted Aboriginal Places is not shown at all. If a proposed activity or development could potentially impact or harm (i.e. damage, deface or destroy) an Aboriginal Place, the people responsible for the proposed development must undertake a search for the exact boundaries of Aboriginal Places through **Aboriginal Heritage Information Management System.**

State Heritage Register spatial datasets and associated metadata into a Geographical Information System (GIS) software package is available through **Data NSW**.

Listing Type: ◉ All ○ Aboriginal Places ○ State Heritage Register

Local government area: Please Choose...

Item name/Database ID:

SHR number:

Location:

Local Aboriginal Land Council (LALC): Please Choose...

State theme: Please Choose...

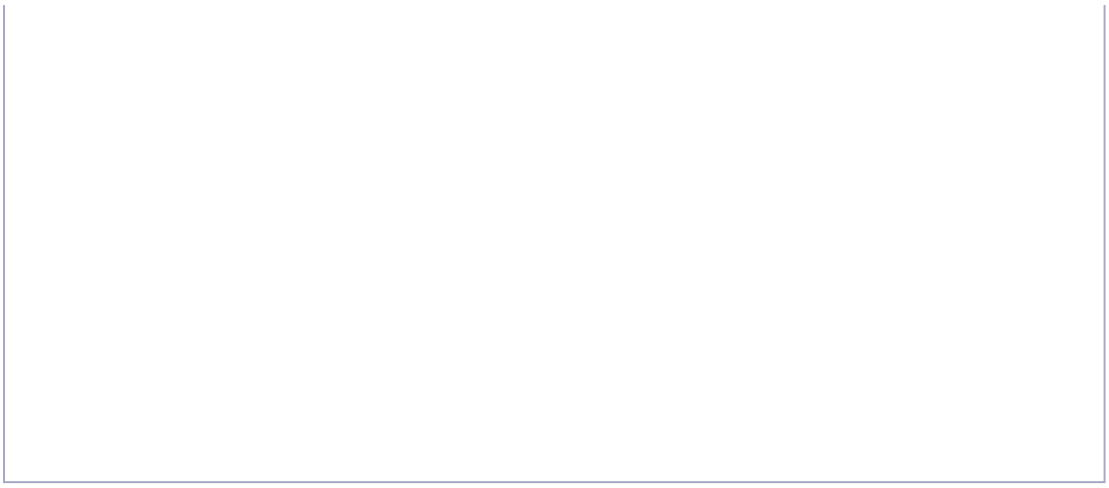
Item type: Please Choose...

Item Group: Please Choose...

Item category: Please Choose...

Search

Reset



Appendix G Aerial Photographs



Legend:

Approximate Site Boundary

JBS&G

Job No: 58167

Client: Charter Hall

Version: R01 Rev A	Date 30/01/2020
Drawn By: JZ	Checked By: CB

Scale 1:1,500

0 25 50

metres

Coord. Sys. GDA 1994 MGA Zone 56

520-530 Gardeners Rd, Alexandria NSW 2015

HISTORICAL SITE LAYOUT - 1943

FIGURE 3

File Name: \\JBSG-NSW-FS01\Company Data\Projects\Charter Hall\58167 Mascot DD\GIS\Maps\R01 Rev A\58167_Fig3_HisAerial_1943.mxd
Reference: Historical aerials



Legend:

Approximate Site Boundary

JBS&G

Job No: 58167

Client: Charter Hall

Version: R01 Rev A | Date 22/01/2020

Drawn By: JZ | Checked By: CB

Scale 1:1,500

0 25 50

metres

Coord. Sys. GDA 1994 MGA Zone 56

520-530 Gardeners Rd, Alexandria NSW 2015

HISTORICAL SITE LAYOUT - 1950

FIGURE 4

File Name: N:\Projects\Charter Hall\58167 Mascot DD\GIS\Maps\R01 Rev A\58167_Fig4_HisAerial_1950.mxd
Reference: Historical aerials



Legend:

Approximate Site Boundary

JBS&G

Job No: 58167	
Client: Charter Hall	
Version: R01 Rev A	Date 30/01/2020
Drawn By: JZ	Checked By: CB
Scale 1:1,500	

0 25 50

metres

Coord. Sys. GDA 1994 MGA Zone 56

520-530 Gardeners Rd, Alexandria NSW 2015

HISTORICAL SITE LAYOUT - 1961

FIGURE 5

File Name: \\JBSG-NSW-FS01\Company Data\Projects\Charter Hall\58167 Mascot DD\GIS\Maps\R01 Rev A\58167_Fig5_HisAerial_1961.mxd
Reference: Historical aerials



Legend:

Approximate Site Boundary

JBS&G

Job No: 58167	
Client: Charter Hall	
Version: R01 Rev A	Date 30/01/2020
Drawn By: JZ	Checked By: CB
Scale 1:1,500	

0 25 50

metres

Coord. Sys. GDA 1994 MGA Zone 56

520-530 Gardeners Rd, Alexandria NSW 2015

HISTORICAL SITE LAYOUT - 1978

FIGURE 6

File Name: \\JBSG-NSW-FS01\Company Data\Projects\Charter Hall\58167 Mascot DD\GIS\Maps\R01 Rev A\58167_Fig6_HisAerial_1978.mxd
Reference: Historical aerials



Legend:

Approximate Site Boundary

JBS&G

Job No: 58167	
Client: Charter Hall	
Version: R01 Rev A	Date 30/01/2020
Drawn By: JZ	Checked By: CB
Scale 1:1,500	

0 25 50

metres

Coord. Sys. GDA 1994 MGA Zone 56

520-530 Gardeners Rd, Alexandria NSW 2015

HISTORICAL SITE LAYOUT - 1986

FIGURE 7

File Name: \\JBSG-NSW-FS01\Company Data\Projects\Charter Hall\58167 Mascot DD\GIS\Maps\R01 Rev A\58167_Fig7_HisAerial_1986.mxd
Reference: Historical aerials



Legend:

Approximate Site Boundary

JBS&G

Job No: 58167	
Client: Charter Hall	
Version: R01 Rev A	Date 30/01/2020
Drawn By: JZ	Checked By: CB
Scale 1:1,500	

0 25 50

metres

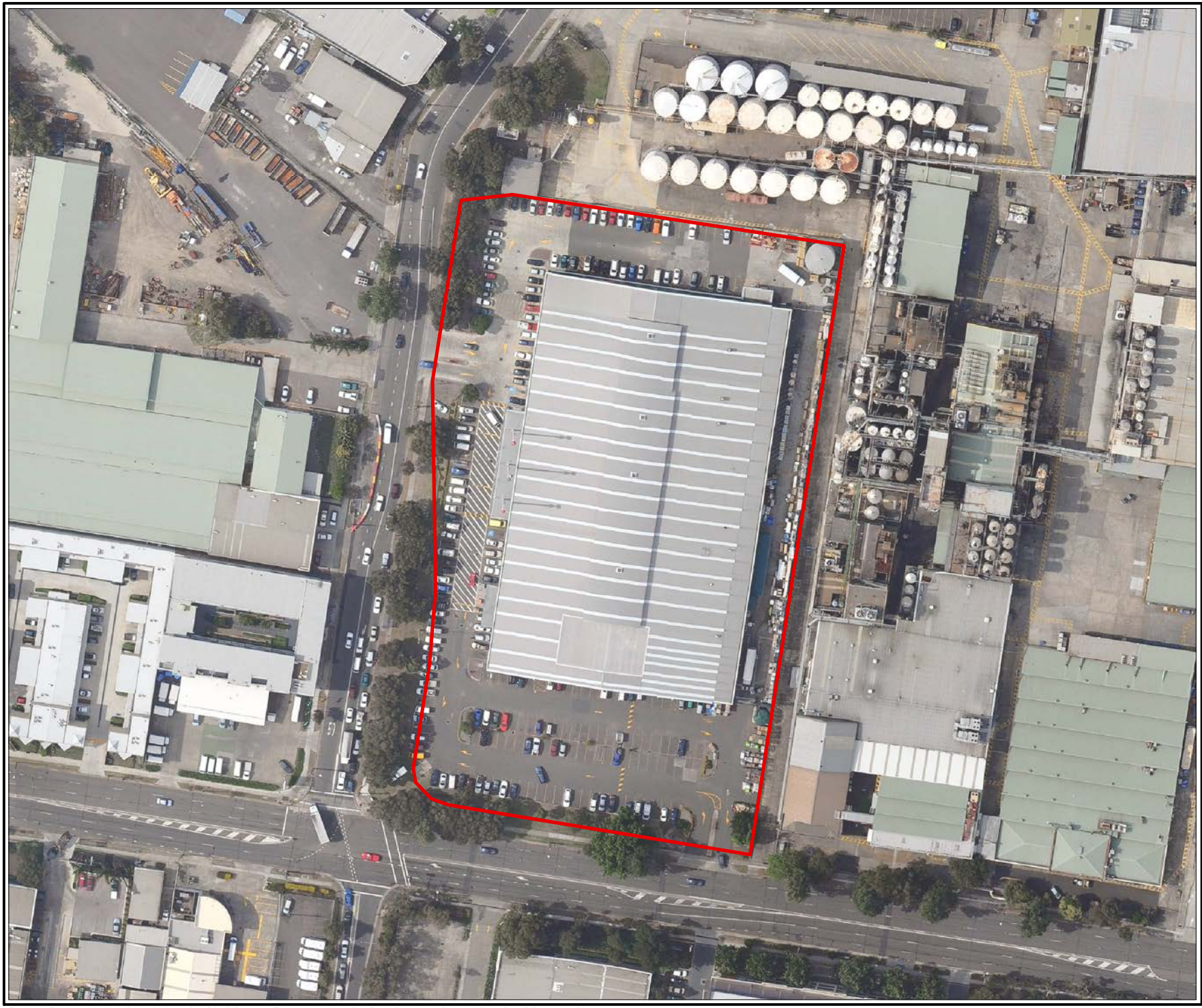
Coord. Sys. GDA 1994 MGA Zone 56

520-530 Gardeners Rd, Alexandria NSW 2015

HISTORICAL SITE LAYOUT - 1998

FIGURE 8

File Name: \\JBSG-NSW-FS01\Company Data\Projects\Charter Hall\58167 Mascot DD\GIS\Maps\R01 Rev A\58167_Fig8_HisAerial_1998.mxd
Reference: Historical aerials



Legend:

Approximate Site Boundary

JBS&G

Job No: 58167	
Client: Charter Hall	
Version: R01 Rev A	Date 30/01/2020
Drawn By: JZ	Checked By: CB
Scale 1:1,500	

0 25 50

metres

Coord. Sys. GDA 1994 MGA Zone 56

520-530 Gardeners Rd, Alexandria NSW 2015

HISTORICAL SITE LAYOUT - 2009

FIGURE 9

File Name: \\JBSG-NSW-FS01\Company Data\Projects\Charter Hall\58167 Mascot DD\GIS\Maps\R01 Rev A\58167_Fig9_HisAerial_2009.mxd
Reference: www.nearmap.com - Imagery: 14/11/2009



Legend:

Approximate Site Boundary

JBS&G

Job No: 58167	
Client: Charter Hall	
Version: R01 Rev A	Date 30/01/2020
Drawn By: JZ	Checked By: CB
Scale 1:1,500	

0 25 50

metres

Coord. Sys. GDA 1994 MGA Zone 56

520-530 Gardeners Rd, Alexandria NSW 2015

HISTORICAL SITE LAYOUT - 2019

FIGURE 10

File Name: \\JBSG-NSW-FS01\Company Data\Projects\Charter Hall\58167 Mascot DD\GIS\Maps\R01 Rev A\58167_Fig10_HisAerial_2019.mxd
Reference: www.nearmap.com - Imagery: 22/10/2019

Appendix H Section 10.7 Planning Certificates

City of Sydney
Town Hall House
456 Kent Street
Sydney NSW 2000

Telephone +61 2 9265 9333
Fax +61 2 9265 9222
council@cityofsydney.nsw.gov.au

GPO Box 1591 Sydney NSW 2001
cityofsydney.nsw.gov.au

JBS & G AUSTRALIA PTY LTD
Suite 1
Level 1 50 Margaret St
SYDNEY NSW 2000

PLANNING CERTIFICATE

Under Section 10.7 of the Environmental Planning and Assessment Act, 1979

Applicant:	JBS & G AUSTRALIA PTY LTD
Your reference:	ALEXANDRIA DD
Address of property:	520-530 Gardeners Road , ALEXANDRIA NSW 2015
Owner:	SOUTH SYDNEY CENTRAL PTY LIMITED and ROADS AND MARITIME SERVICES
Description of land:	Lot 302 DP 1231238
Certificate No.:	2020300321
Certificate Date:	21/01/20
Receipt No:	0148810
Fee:	$80.00
Paid:	21/01/20

Title information and description of land are provided from data supplied by the Valuer General and shown where available.

Issuing Officer
per **Monica Barone**
Chief Executive Officer

CERTIFICATE ENQUIRIES:
Ph: 9265 9333
Fax: 9265 9415

Sydney2030/Green/Global/Connected

PLANNING CERTIFICATE UNDER SECTION 10.7 (2) OF THE ENVIRONMENTAL PLANNING AND ASSESSMENT ACT, 1979

MATTERS AFFECTING THE LAND AS PRESCRIBED BY SCHEDULE 4 - ENVIRONMENTAL PLANNING & ASSESSMENT REGULATION, 2000, CLAUSES (1) - (2).

DEVELOPMENT CONTROLS

The following information must be read in conjunction with and subject to all other provisions of the environmental planning instruments specified in this certificate.

ZONING

Zone IN1 General Industrial (Sydney Local Environmental Plan 2012)

1 Objectives of zone
• To provide a wide range of industrial and warehouse land uses.
• To encourage employment opportunities.
• To minimise any adverse effect of industry on other land uses.
• To support and protect industrial land for industrial uses.
• To ensure uses support the viability of nearby centres.

2 Permitted without consent
Nil

3 Permitted with consent
Agricultural produce industries; Boat building and repair facilities; Depots; Food and drink premises; Freight transport facilities; Garden centres; General industries; Hardware and building supplies; Horticulture; Industrial training facilities; Kiosks; Light industries; Neighbourhood shops; Places of public worship; Roads; Roadside stalls; Timber yards; Warehouse or distribution centres; Any other development not specified in item 2 or 4

4 Prohibited
Agriculture; Air transport facilities; Airstrips; Amusement centres; Animal boarding or training establishments; Boat launching ramps; Boat sheds; Camping grounds; Car parks; Caravan parks; Cemeteries; Centre-based child care facilities; Charter and tourism boating facilities; Commercial premises; Community facilities; Correctional centres; Eco-tourist facilities; Educational establishments; Entertainment facilities; Exhibition homes; Exhibition villages; Extractive industries; Farm buildings; Forestry; Function centres; Health services facilities; Heavy industries; Helipads; Highway service centres; Home-based child care; Home businesses; Home occupations; Home occupations (sex services); Information and education facilities; Jetties; Marinas; Mooring pens; Moorings; Passenger Transport facilities; Places of public worship; Recreation facilities (indoor); Recreation facilities (major); Recreation facilities (outdoor); Registered clubs; Residential accommodation; Respite day care centres; Restricted premises; Rural industries; Self-storage units; Sex services premises; Tourist and visitor accommodation; Veterinary hospitals; Water recreation structures; Wholesale supplies

Zone SP2 Infrastructure (Sydney Local Environmental Plan 2012)

1 Objectives of zone
• To provide for infrastructure and related uses.
• To prevent development that is not compatible with or that may detract from the provision of infrastructure.

2 Permitted without consent
Nil

3 Permitted with consent

Horticulture; Roads; Water storage facilities; Water treatment facilities; The purpose shown on the Land Zoning Map, including any development that is ordinarily incidental or ancillary to development for that purpose.

4 Prohibited
Any development not specified in item 2 or 3

PROPOSED ZONING

This property is not affected by a draft zone.

LOCAL PLANNING CONTROLS

Sydney Local Environmental Plan 2012 (as amended) – Published 14 December 2012 NSW Legislation Website.

Sydney Development Control Plan 2012 (as amended) - (commenced 14.12.2012)

HERITAGE

State Heritage Register (Amendment To Heritage Act, 1977 Gazetted 2/4/99)
This property may be identified as being of state heritage significance, and entered on the State Heritage Register.

To confirm whether the site is listed under the Heritage Act 1977 a Section 167 Certificate should be obtained from the NSW Heritage Office by contacting the NSW Heritage office on (02) 9873 8500 for an application from or by downloading the application form from www.heritage.nsw.gov.au

STATE PLANNING INSTRUMENTS

Full copies of State Environmental Planning Policies are available online at www.planning.nsw.gov.au.

State Environmental Planning Policy No. 19 – Bushland in Urban Areas
This is a policy to protect and preserve bushland within certain urban areas, as part of the natural heritage or for recreational, educational and scientific purposes. This policy is designed to protect bushland in public open space zones and reservations, and to ensure that bush preservation is given a high priority when local environmental plans for urban development are prepared.

State Environmental Planning Policy No. 33 – Hazardous and Offensive Development
This policy aims to amend the definitions of hazardous and offensive industries; to render ineffective any environmental planning instruments not defining hazardous or offensive as per this policy; to control development of hazardous and offensive industries.

State Environmental Planning Policy No. 55 – Remediation of Land
This policy provides planning controls for the remediation of contaminated land. The policy states that land must not be developed if it is unsuitable for a proposed use because it is contaminated. If the land is unsuitable, remediation must take place before the land is developed. The policy makes remediation permissible across the State, defines when consent is required, requires all remediation to comply with standards, ensures land is investigated if contamination is suspected, and requires councils to be notified of all remediation proposals. To assist councils and developers, the Department, in conjunction with the Environment Protection Authority, has prepared Managing Land Contamination: Planning Guidelines.

State Environmental Planning Policy No. 64 – Advertising and Signage
This policy aims to ensure that signage (including advertising):
Is compatible with the desired amenity and visual character of an area, and

- Provides effective communications in suitable locations, and
- Is of a high quality design and finish.

To this end the policy regulates signage (but not content) under Part 4 of the Act and provides limited time consents for the display of certain advertisements. The policy does not apply to signage that is exempt development under an environmental planning instrument. It does apply to all signage that can be displayed with or without consent and is visible from any public place or reserve, except as provided by the policy.

This policy should be read in conjunction with the Sydney Local Environmental Plan 2005, the City of Sydney Signage and Advertising Structures Development Control Plan 2005 and State Environmental Planning Policy No. 60 where these apply.

State Environmental Planning Policy No. 65 – Design Quality of Residential Apartment Development
This policy aims to improve the design quality of flats of three or more storeys with four or more self contained dwellings. The policy sets out a series of design principles for local councils to consider when assessing development proposals for residential flat development. The policy also creates a role for an independent design review panel and requires the involvement of a qualified designer in the design and approval process.

State Environmental Planning Policy No.70 – Affordable Housing (Revised Schemes) (Gazetted 31.05.02)
The policy identifies that there is a need for affordable housing in the City of Sydney, describes the kinds of households for which affordable housing may be provided and makes a requirement with respect to the imposition of conditions relating to the provision of affordable housing (provided other requirements under the Act are met).

State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004
This Policy does not apply to land described in Schedule 1 (Environmentally sensitive land), or land that is zoned for industrial purposes, or land to which an interim heritage order made under the *Heritage Act 1997* by the Minister administering that Act applies, or land to which a listing on the State Heritage Register kept under the *Heritage Act 1997* applies.

The Policy aims to encourage the provision of housing (including residential care facilities) that will increase the supply and diversity of residences that meet the needs of seniors or people with a disability, and make efficient use of existing infrastructure and services, and be of good design.

State Environmental Planning Policy (Building Sustainability Index: BASIX) 2004
Aims to ensure consistency in the implementation of the BASIX scheme throughout the State. This Policy achieves its aim by overriding provisions of other environmental planning instruments and development control plans that would otherwise add to, subtract from or modify any obligations arising under the BASIX scheme.

State Environmental Planning Policy (State Significant Precincts) 2005
This Policy aims to identify development of economic, social or environmental significance to the State or regions of the State so as to provide a consistent and comprehensive assessment and decision making process for that development.
NB: This SEPP also contains exempt & complying provisions

State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007
This Policy aims to provide for the proper management and development of mineral, petroleum and extractive material resources for the social and economic welfare of the State.

State Environmental Planning Policy (Miscellaneous Consent Provisions) 2007
This Policy aims to ensure that suitable provision is made for ensuring the safety of persons using temporary structures or places of public entertainment.

State Environmental Planning Policy (Infrastructure) 2007
This Policy aims to facilitate the effective delivery of infrastructure across the state.
NB: This SEPP also contains exempt & complying provisions

State Environmental Planning Policy (Exempt and Complying Development Codes) 2008
This Policy Streamlines assessment processes for development that complies with specified development standards. The policy provides exempt and complying development codes that have State-wide application, identifying, in the General Exempt Development Code, types of development that are of minimal environmental impact that may be carried out without the need for development consent; and, in the General Housing Code, types of complying

development that may be carried out in accordance with a complying development certificate as defined in the Environmental Planning and Assessment Act 1979.

State Environmental Planning Policy (Affordable Rental Housing) 2009
Establishes a consistent planning regime for the provision of affordable rental housing. The policy provides incentives for new affordable rental housing, facilitates the retention of existing affordable rentals, and expands the role of not-for-profit providers. It also aims to support local centres by providing housing for workers close to places of work, and facilitate development of housing for the homeless and other disadvantaged people. NOTE: Does not apply to land at Green Square or at Ultimo Pyrmont, or on southern employment land.

State Environmental Planning Policy (Urban Renewal) 2010
The aims of this Policy are as follows:
(a) to establish the process for assessing and identifying sites as urban renewal precincts,
(b) to facilitate the orderly and economic development and redevelopment of sites in and around urban renewal precincts,
(c) to facilitate delivery of the objectives of any applicable government State, regional or metropolitan strategies connected with the renewal of urban areas that are accessible by public transport.

State Environmental Planning Policy (State and Regional Development) 2011
The aims of this Policy are as follows:
(a) to identify development that is State significant development,
(b) to identify development that is State significant infrastructure and critical State significant infrastructure,
(c) to confer functions on joint regional planning panels to determine development applications.

State Environmental Planning Policy (Vegetation in Non-Rural Areas) 2017
The aims of this Policy are:
(a) to protect the biodiversity values of trees and other vegetation in non-rural areas of the State, and
(b) to preserve the amenity of non-rural areas of the State through the preservation of trees and other vegetation.

State Environmental Planning Policy (Educational Establishments and Child Care Facilities) 2017
The aim of this Policy is to facilitate the effective delivery of educational establishments and early education and care facilities across the state.

State Environmental Planning Policy (Coastal Management) 2018
The aim of this Policy is to promote an integrated and co-ordinated approach to land use planning in the coastal zone in a manner consistent with the objects of the Coastal Management Act 2016, including the management objectives for each coastal management area, by:
(a) managing development in the coastal zone and protecting the environmental assets of the coast, and
(b) establishing a framework for land use planning to guide decision-making in the coastal zone, and
(c) mapping the 4 coastal management areas that comprise the NSW coastal zone for the purpose of the definitions in the Coastal Management Act 2016.

Sydney Regional Environmental Plan (Sydney Harbour Catchment) 2005
This plan applies to land within the Sydney Harbour Catchment, as shown edged heavy black on the Sydney Harbour Catchment Map, being part of the Sydney Region declared by order published in Gazette No 38 of 7 April 1989 at page 1841.

This plan has the following aims with respect to the Sydney Harbour Catchment:

to ensure that the catchment, foreshores, waterways and islands of Sydney Harbour are recognised, protected and maintained: as outstanding natural asset, and as a public asset of national and heritage significance, for existing and future generations; to ensure a healthy, sustainable environment on land and water; to achieve a high quality urban environment; to ensure a prosperous working waterfront and an effective transport corridor, to encourage a culturally rich and vibrant place for people; to ensure accessibility to and along Sydney Harbour and its foreshores; to ensure the protection, maintenance and rehabilitation of watercourses, wetlands, riparian lands, remnant vegetation and ecological connectivity, to provide a consolidated, simplified and updated legislative framework for future planning.

OTHER MATTERS AFFECTING THE LAND AS PRESCRIBED BY SCHEDULE 4 - E. P. & A. REGULATION, 2000. CLAUSES (2A) - (10)

(2A) Zoning and land use under *State Environmental Planning Policy (Sydney Region Growth Centres) 2006*

This SEPP does not apply to the land.

(3) Complying Development

(1) The extent to which the land is land on which complying development may be carried out under each of the codes for complying development because of the provisions of clauses 1.17A (1) (c) to (e), (2), (3) and (4),1.18(1)(c3) and 1.19 of *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008*.

(2) The extent to which complying development may not be carried out on that land because of the provisions of clauses 1.17A (1) (c) to (e), (2), (3) and (4),1.18(1)(c3) and 1.19 of that Policy and the reasons why it may not be carried out under those clauses.

(3) If the council does not have sufficient information to ascertain the extent to which complying development may or may not be carried out on the land, a statement that a restriction applies to the land, but it may not apply to all of the land, and that council does not have sufficient information to ascertain the extent to which complying development may or may not be carried out on the land.

Note: All Exempt and Complying Development Codes: Council does not have sufficient information to ascertain the extent of a land based exclusion on a property. Despite any statement preventing the carrying out of complying development in the Codes listed below, complying development may still be carried out providing the development is not on the land affected by the exclusion and meets the requirements and standards of *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008*.

General Housing Code & Commercial and Industrial (New Buildings and Additions) Code

Complying development **may not** be carried out on the land under the General Housing Code & the Commercial and Industrial (New Buildings and Additions) Code if because of the provisions of clause 1.17A, 1.18(1)(c3) & 1.19 (Land-based requirements for exempt and complying development) any of the following statements are **YES**

▪ Clause 1.19(5)d. Land that is significantly contaminated land within the meaning of the Contaminated Land Management Act 1997. (Applies only to the Commercial and Industrial (New Buildings and Additions) Code.	NO
▪ Clause 1.17A(d). Has been identified as a property that comprises, or on which there is, an item that is listed on the State Heritage Register under the *Heritage Act 1977* or that is subject to an interim heritage order under the *Heritage Act 1977*.	NO
▪ Clause 1.17A(d) & 1.18(1)(c3). Has been identified as a property that comprises, or on which there is, a heritage item or draft heritage item.	**NO**
▪ Clause 1.17A(c). Has been identified as being within a wilderness area (identified under the *Wilderness Act 1987*.	**NO**
▪ Clause 1.17A(e) & 1.19(1)e or 1.19(5)f. Has been identified as land that is within an environmentally sensitive area or by an environmental planning instrument as being within a buffer area, a river front area, an ecologically sensitive area, environmentally sensitive land or a protected area	**NO**
▪ Clause 1.19(1)a.or 1.19(5)a Has been identified as being within a heritage conservation area or a draft heritage conservation area.	**NO**
▪ Clause 1.19(1)b or 1.19(5)b. Has been identified as being land that is reserved for a public purpose in an environmental planning instrument.	**NO**
▪ Clause 1.19(1)c or 1.19(5)c. Has been identified as being on an Acid Sulfate Soils Map as being Class 1 or Class 2.	**NO**
▪ Clause 1.19(1)d or 1.19(5)e. Has been identified as land that is subject to a biobanking agreement under part 7A of the threatened Species Conservation Act 1995 or a property vegetation plan under the Native Vegetation Act 2003.	**NO**
▪ Clause 1.19(1)f or 1.19(5)g. Has been identified by an environmental planning instrument, a development control plan or a policy adopted by the Council as being or affected by a coastline hazard, a coastal hazard or a coastal erosion hazard.	**NO**
▪ Clause 1.19(1)g or 1.19(5)h. Has been identified as being land in a foreshore area.	**NO**
▪ Clause 1.19(1)h. Has been identified as land that is in the 25 ANEF contour or a higher ANEF contour. (Applies only to the General Housing Code)	**NO**
▪ Clause 1.19(1)j or 1.19(5)i. Has been identified as unsewered land within a drinking water catchment.	**NO**
▪ Clause 1.19(1)i. Has been identified as land that is declared to be a special area under the Sydney Water Catchment Management Act 1998.	**NO**

Housing Alterations Code
Complying development under the Housing Alterations Code **may** be carried out on the land.

Commercial and Industrial Alterations Code
Complying development under the Commercial and Industrial Alterations Code **may** be carried out on the land.

Subdivisions Code

Complying development under the Subdivisions Code **may** be carried out on the land.

Rural Housing Code
The Rural Housing Code does not apply to this Local Government Area.

General Development Code
Complying development under the General Development Code **may** be carried out on the land.

Demolition Code
Complying development under the Demolition Code **may** be carried out on the land.

Low Rise Medium Density Housing Code
This Code does not apply to this Local Government Area.

(4B) Annual charges under Local Government Act 1993 for coastal protection services that relate to existing coastal protection works

In relation to a coastal council : The owner (or any previous owner) of the land has not consented in writing to the land being subject to annual charges under section 496B of the Local Government Act 1993 for coastal protection services that relate to existing coastal protection works (within the meaning of section 553B of that Act).

Note. "Existing coastal protection works" are works to reduce the impact of coastal hazards on land (such as seawalls, revetments, groynes and beach nourishment) that existed before the commencement of section 553B of the Local Government Act 1993.

(5) Mine Subsidence District

This land has not been proclaimed to be a mine subsidence district within the meaning of section 15 of the mine subsidence compensation act, 1961.

(6) Road Widening and/or Road Realignment affected by (a) Division 2 of Part 3 of the Roads act 1993 or (c) any resolution of council or other authority.

This land **is not** affected by road widening and/or road realignment under section 25 of the Roads Act, 1993 and/or resolution of Council or any other authority.

(6) Road Widening and/or Road Realignment Affected by (b) any environmental planning instrument.

This land **is** affected by road widening or a road realignment under a planning instrument.

(7) Council and other public authorities policies on hazard risk restrictions:

(a) The land **is not** affected by a policy adopted by the Council that that restricts the development of the land because of the likelihood of land slip, bushfire, flooding, tidal inundation, subsidence, acid sulphate soils or any other risk; and

(b) The land **is not** affected by a policy adopted by any other public authority and notified to the council for the express purpose of its adoption by that authority being referred to on planning certificate issued by Council, that restricts the development of the land because of the likelihood of land slip, bushfire, flooding, tidal inundation, subsidence, acid sulphate soils or any other risk.

(7A) Flood related development controls information.

The development on this land or part of this land is subject to flood related development controls refer to Clause 7.15 of Sydney Local Environment Plan 2012 and Section 3.7 of Sydney Development Control Plan 2012.

(8) Land reserved for acquisition

An environmental planning instrument or a proposed environmental planning instrument applying to this land provides for the acquisition or part acquisition of the land by a public authority, as referred to in section 3.15 of the Act. Contact Council's Strategic Planning Section for more information.

(9) Contribution plans

The following Contributions Plans apply to properties within the City of Sydney local government area. Contributions plans marked **YES** may apply to this property:

▪ Central Sydney Development Contributions Plan 2013 – in operation 9th July 2013	**NO**
▪ City of Sydney Development Contributions Plan 2015 – in operation 1st July 2016	**YES**
▪ Redfern Waterloo Authority Contributions Plan 2006 – in operation 16th May 2007 ▪ Redfern Waterloo Authority Affordable Housing Contributions Plan – in operation 16th May 2007	**NO**

(9A) Biodiversity certified land

The land has not been certified as biodiversity certified land.

(10) Biodiversity Conservation Act 2016

Not Applicable.

(10A) Native vegetation clearing set asides

Not Applicable.

(11) Bush fire prone land

The land has not been identified as Bush fire prone land.

(12) Property vegetation plans

Not Applicable.

(13) Orders under Trees (Disputes Between Neighbours) Act 2006

Council has not been notified of an order which as been made under the *Trees (Disputes Between Neighbours) Act 2006* to carry out work in relation to a tree on the land.

(14) Directions under Part 3A

Not Applicable.

(15) Site compatibility certificates and conditions for seniors housing

(a) The land to which the certificate relates is not subject to a current site compatibility certificate (seniors housing), of which Council is aware, in respect of proposed development on the land.

(b) The land to which the certificate relates is not subject to any condition of consent to a development application granted after 11 October 2007 required by State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004.

(16) Site compatibility certificates for infrastructure, schools or TAFE establishments

The land to which the certificate relates is not subject to a valid site compatibility certificate (infrastructure), of which Council is aware, in respect of proposed development on the land.

(17) Site compatibility certificates and conditions for affordable rental housing

(a) The land to which the certificate relates is not subject to a current site compatibility certificate (affordable rental housing), of which Council is aware, in respect of proposed development on the land.

(b) The land to which the certificate relates is not subject to any terms of a kind referred to in clause 17(1) or 37(1) of State Environmental Planning Policy (Affordable Rental Housing) 2009 that have been imposed as a condition of consent to a development application in respect of the land.

(18) Paper subdivision information

Not Applicable.

(19) Site verification certificates

The land to which the certificate relates is not subject to a valid site verification certificate of which Council is aware.

(20) Loose-fill asbestos insulation

Not Applicable

(21) Affected building notices and building product rectification orders

(1)The land to which the certificate relates is not subject to any affected building notice of which Council is aware.

(2) (a) The land to which the certificate relates is not subject to any building product rectification order of which Council is aware and has not been fully complied with.

(b) The land to which the certificate relates is not subject to any notice of intention to make a building product rectification order of which Council is aware and is outstanding.

(3) In this clause:
affected building notice has the same meaning as in Part 4 of the Building Products (Safety) Act 2017.
building product rectification order has the same meaning as in the Building Products (Safety) Act 2017.

Note. The following matters are prescribed by section 59 (2) of the *Contaminated Land Management Act 1997* as additional matters to be specified in a planning certificate:

(a) The land to which the certificate relates **is not** declared to be **significantly contaminated land** within the meaning of that act as at the date when the certificate is issued.

(b) The land to which the certificate relates **is not** subject to a **management order** within the meaning of that act as at the date when the certificate is issued.

(c) The land to which the certificate relates **is not** the subject of an **approved voluntary management proposal** within the meaning of that act at the date the certificate is issued.

(d) The land to which the certificate relates **is not** the subject of an **ongoing maintenance order** within the meaning of that act as at the date when the certificate is issued.

(e) As at the date when the certificate is issued, Council **has not** identified that a **site audit statement** within the meaning of that act has been received in respect of the land the subject of the certificate.

PLANNING CERTIFICATE SECTION 10.7 (2) INFORMATION:
Information provided in accordance with planning certificate section 10.7 (2) has been taken from council's records and advice from other authorities but council disclaims all liability for any omission or inaccuracy in the information. Specific inquiry should be made where doubt exists.

PLANNING CERTIFICATE UNDER SECTION 10.7 (5) OF THE ENVIRONMENTAL PLANNING AND ASSESSMENT ACT, 1979

PLANNING CERTIFICATE SECTION 10.7 (5) ADVICE is current as at 12:00 noon two working days prior to the date of issue of this certificate. The following matters have been considered & details provided where information exists: easements in favour of council; parking permit scheme; heritage floor space restrictions; low-rental residential building; foreshore building line; tree preservation order.

Contaminated Land Potential:
Council records do not have sufficient information about the uses (including previous uses) of the land which is the subject of this section 10.7 certificate to confirm that the land has not been used for a purpose which would be likely to have contaminated the land. Parties should make their own enquiries as to whether the land may be contaminated.

Hazard Risk Restriction:
Some City of Sydney Local Environmental Plans incorporate Acid Sulfate soil maps. Development on the land identified in those maps should have regard to the acid sulfate soil clause within the relevant Local Environmental Plan.

Construction Noise and View Loss Advice:
Intending purchasers are advised that the subject property may be affected by construction noise and loss or diminution of views as a result of surrounding development.

Outstanding Notice & Order information
In relation to this property, there **is not** an outstanding Order or Notice of Intention to issue an Order relating to Fire Safety (being an Order or Notice of Intention to issue an Order under Part 2 of Schedule 5 of the Environmental Planning and Assessment Act, 1979). Further information about the Order or Notice of Intention to issue an Order may be obtained by applying for a certificate under clause 41 of Schedule 5 of the Environmental Planning and Assessment Act and Section 735A of the Local Government Act.

In relation to this property, there **is not** an outstanding Order or Notice of Intention to issue an Order (being an Order or Notice of Intention to issue an Order of a type other than relating to fire safety). Further information about the Order or Notice of Intention to issue an Order may be obtained by applying for a certificate under clause 41 of Schedule 5 of the Environmental Planning and Assessment Act and Section 735A of the Local Government Act.

Neighbourhood Parking Policy
The City of Sydney co-ordinates a Resident Permit Parking Scheme and a Visitor Permit Parking scheme. This property may be restricted from participating in either scheme. Eligibility may change after the date of this certificate, as parking supply and other traffic demands change. For more information contact Council's call centre on 9265 9333.

ADVICE FROM OTHER BODIES

Advice provided in accordance with planning certificate section 10.7 (5) is supplied in good faith. Council accepts no liability for the validity of the advice given. (see section 10.7 (6) of the Environmental Planning and Assessment Act, 1979).

Planning certificate section 10.7 (2), local planning controls are available are available online at www.cityofsydney.nsw.gov.au

General Enquiries:
Telephone: 02 9265 9333

Town Hall House
Level 2
Town Hall House
456 Kent Street
Sydney
8am – 6pm Monday - Friday

State planning controls are available online at www.legislation.nsw.gov.au

Where planning certificate section 10.7 (5) matters are supplied, complete details are available by writing to:
Chief Executive Officer
City of Sydney
G.P.O. Box 1591
Sydney NSW 2000

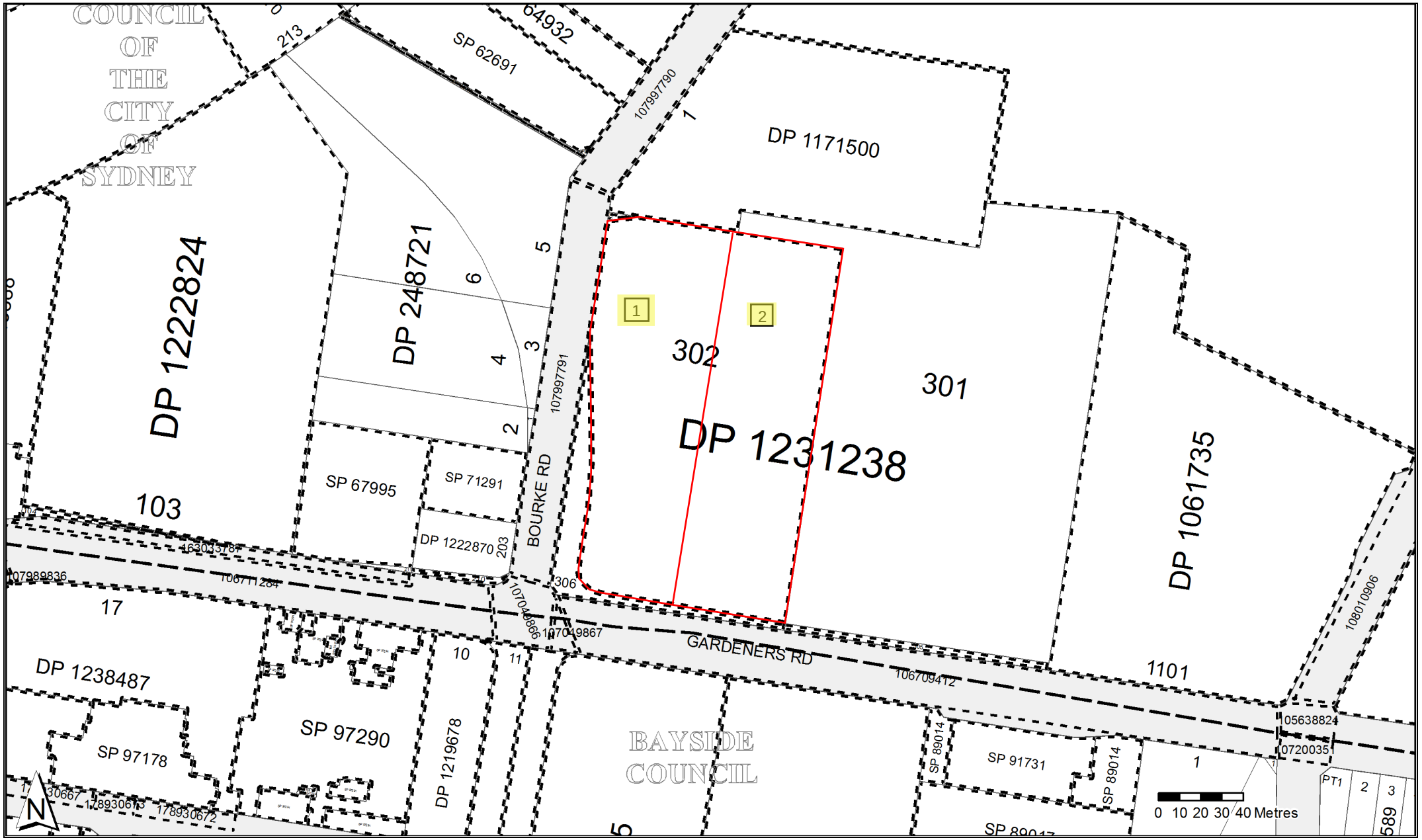
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Appendix I Title Records

Cadastral Records Enquiry Report : Lot 302 DP 1231238

Ref : nascot bunnings

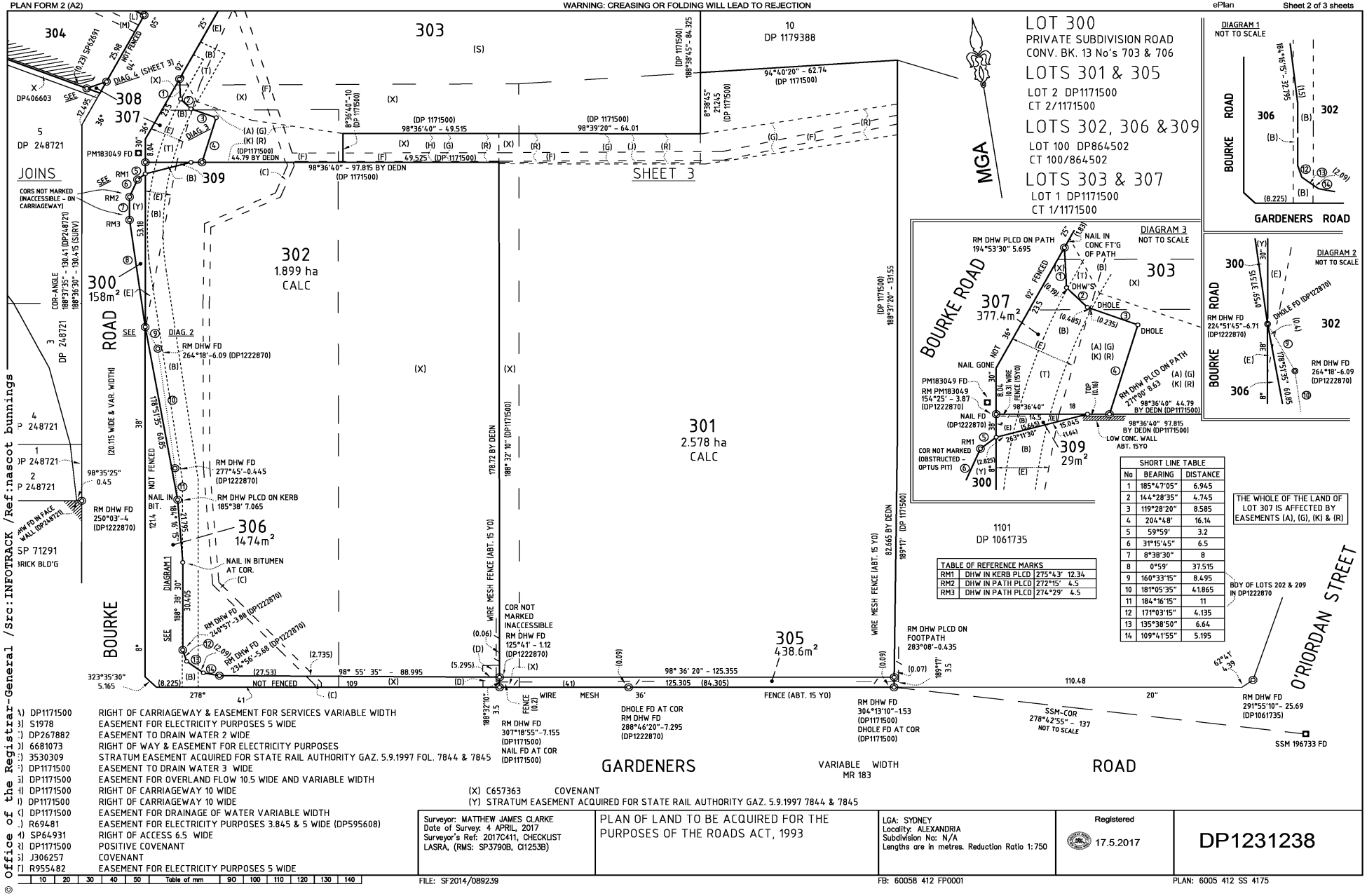
Locality : ALEXANDRIA
Parish : ALEXANDRIA
LGA : SYDNEY
County : CUMBERLAND



Report Generated 3:46:20 PM, 17 January, 2020
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This information is provided as a searching aid only.Whilst every endeavour is made to ensure that current map, plan and titling information is accurately reflected, the Registrar General cannot guarantee the information provided. For ALL ACTIVITY PRIOR TO SEPTEMBER 2002 you must refer to the RGs Charting and Reference Maps

Req:R497363 /Doc:DP 1231238 P /Rev:19-May-2017 /NSW LRS /Pgs:ALL /Prt:17-Jan-2020 15:46 /Seq:2 of 5
© Office of the Registrar-General /Src:INFOTRACK /Ref:nascot bunnings



A) DP1171500 RIGHT OF CARRIAGEWAY & EASEMENT FOR SERVICES VARIABLE WIDTH
B) S1978 EASEMENT FOR ELECTRICITY PURPOSES 5 WIDE
C) DP267882 EASEMENT TO DRAIN WATER 2 WIDE
D) 6681073 RIGHT OF WAY & EASEMENT FOR ELECTRICITY PURPOSES
E) 3530309 STRATUM EASEMENT ACQUIRED FOR STATE RAIL AUTHORITY GAZ. 5.9.1997 FOL. 7844 & 7845
F) DP1171500 EASEMENT TO DRAIN WATER 3 WIDE
G) DP1171500 EASEMENT FOR OVERLAND FLOW 10.5 WIDE AND VARIABLE WIDTH
H) DP1171500 RIGHT OF CARRIAGEWAY 10 WIDE
I) DP1171500 RIGHT OF CARRIAGEWAY 10 WIDE
J) DP1171500 EASEMENT FOR DRAINAGE OF WATER VARIABLE WIDTH
K) R69481 EASEMENT FOR ELECTRICITY PURPOSES 3.845 & 5 WIDE (DP595608)
L) SP64931 RIGHT OF ACCESS 6.5 WIDE
M) DP1171500 POSITIVE COVENANT
N) J306257 COVENANT
O) R955482 EASEMENT FOR ELECTRICITY PURPOSES 5 WIDE

(X) C657363 COVENANT
(Y) STRATUM EASEMENT ACQUIRED FOR STATE RAIL AUTHORITY GAZ. 5.9.1997 7844 & 7845

Surveyor: MATTHEW JAMES CLARKE
Date of Survey: 4 APRIL, 2017
Surveyor's Ref: 2017C411, CHECKLIST
LASRA, (RMS: SP3790B, C11253B)

PLAN OF LAND TO BE ACQUIRED FOR THE PURPOSES OF THE ROADS ACT, 1993

LGA: SYDNEY
Locality: ALEXANDRIA
Subdivision No: N/A
Lengths are in metres. Reduction Ratio 1:750

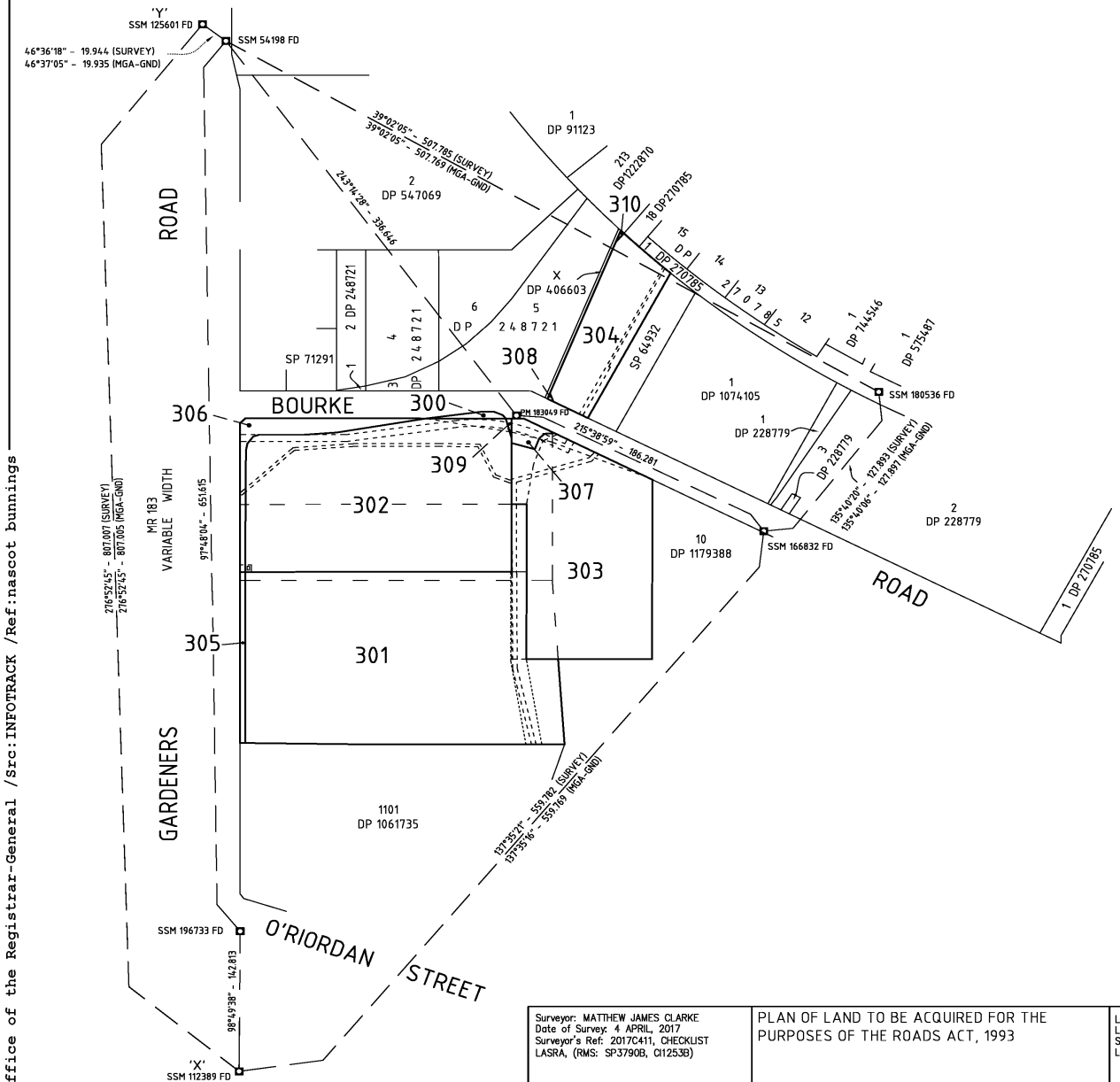
Registered 17.5.2017

DP1231238

FILE: SF2014/089239 FB: 60058 412 FP0001 PLAN: 6005 412 SS 4175

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Req:R497363 /Doc:DP 1231238 P /Rev:19-May-2017 /NSW LRS /Pgs:ALL /Prt:17-Jan-2020 15:46 /Seq:1 of 5
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SURVEYING & SPATIAL INFORMATION REGULATION 2012
CLAUSE 35(1)(B) & CLAUSE 61(2)
MGA COORDINATES (ZONE 56)

MARK	EASTING	NORTHING	CLASS	ORD	METHOD	ORIGIN
SSM 54198	332 216.987	6245 250.381	B	2	SCIMS	SCIMS
SSM 112389	333 003.648	6245 140.034	B	2	SCIMS	SCIMS
SSM 125601	332 202.499	6245 236.689	B	2	SCIMS	SCIMS
SSM 166832	332 626.128	6245 553.294	C	3	SCIMS	SCIMS
SSM 180536	332 536.757	6245 644.775	C	3	SCIMS	SCIMS
SSM 196733	332 863.	6245 162.	U	U	SCIMS	SCIMS
PM 183049	332 518.	6245 401.	U	U	SCIMS	SCIMS

SOURCE: LAND AND PROPERTY INFORMATION (SCIMS) - 7/4/2017
COMBINED SEA LEVEL & SCALE FACTOR 0.999942

SEE SHEETS 2 & 3 FOR DETAIL

10 20 30 40 50 Table of mm 90 100 110 120 130 140

Surveyor: MATTHEW JAMES CLARKE
Date of Survey: 4 APRIL, 2017
Surveyor's Ref: 2017C411, CHECKLIST
LASRA, (RMS: SP3790B, C11253B)

PLAN OF LAND TO BE ACQUIRED FOR THE PURPOSES OF THE ROADS ACT, 1993

LGA: SYDNEY
Locality: ALEXANDRIA
Subdivision No: N/A
Lengths are in metres. Reduction Ratio 1:2000

Registered
17.5.2017

DP1231238

FILE: SF2014/089239 FB: 60058 412 FP0001 PLAN: 6005 412 SS 4175

PLAN FORM 2 (A2) | WARNING: CREASING OR FOLDING WILL LEAD TO REJECTION | ePlan | Sheet 3 of 3 sheets

Req:R497363 /Doc:DP 1231238 P /Rev:19-May-2017 /NSW LRS /Pgs:ALL /Prt:17-Jan-2020 15:46 /Seq:3 of 5
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(A) DP1171500	RIGHT OF CARRIAGEWAY & EASEMENT FOR SERVICES VARIABLE WIDTH
(B) S1978	EASEMENT FOR ELECTRICITY PURPOSES 5 WIDE
(C) DP267882	EASEMENT TO DRAIN WATER 2 WIDE
(E) 3530309	STRATUM EASEMENT ACQUIRED FOR STATE RAIL AUTHORITY GAZ. 5.9.1997 FOL. 7844
(F) DP1171500	EASEMENT TO DRAIN WATER 3 WIDE
(G) DP1171500	EASEMENT FOR OVERLAND FLOW 10.5 WIDE AND VARIABLE WIDTH
(H) DP1171500	RIGHT OF CARRIAGEWAY 10 WIDE
(J) DP1171500	RIGHT OF CARRIAGEWAY 10 WIDE
(K) DP1171500	EASEMENT FOR DRAINAGE OF WATER VARIABLE WIDTH
(L) R69481	EASEMENT FOR ELECTRICITY PURPOSES 3.845 & 5 WIDE (DP595608)
(M) SP64931	RIGHT OF ACCESS 6.5 WIDE
(R) DP1171500	POSITIVE COVENANT
(S) J306257	COVENANT
(T) R955482	EASEMENT FOR ELECTRICITY PURPOSES 5 WIDE
(X) C657363	COVENANT

CURVED LINES				
No	BEARING	DISTANCE	ARC	RADIUS
15	(52°41' 50")	(14.07)	(14.07)	717.805
16	51°33'20"	42.720	42.725	717.805

LOTS 303 & 307
LOT 1 IN DP1171500
CT 1/1171500

LOTS 304, 308 & 310
SP62691 (LOT C IN DP347291)
CT CP/SP62691

THE WHOLE OF THE LAND OF LOT 307 IS AFFECTED BY EASEMENTS (A) (G) (K) & (R)

DIAGRAM 5
NOT TO SCALE

DIAGRAM 4
SCALE 1:200

Surveyor: MATTHEW JAMES CLARKE
Date of Survey: 4 APRIL, 2017
Surveyor's Ref: 2017C411, CHECKLIST
LASRA, (RMS: SP3790B, C11253B)

PLAN OF LAND TO BE ACQUIRED FOR THE PURPOSES OF THE ROADS ACT, 1993

LGA: SYDNEY
Locality: ALEXANDRIA
Subdivision No: N/A
Lengths are in metres. Reduction Ratio 1:750

Registered 17.5.2017

DP1231238

FILE: SF2014/089239 | FB: 60058 412 FP0001 | PLAN: 6005 412 SS 4175

Req:R497363 /Doc:DP 1231238 P /Rev:19-May-2017 /NSW LRS /Pgs:ALL /Prt:17-Jan-2020 15:46 /Seq:4 of 5
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PLAN FORM 6 (2012) **WARNING: Creasing or folding will lead to rejection** ePlan

DEPOSITED PLAN ADMINISTRATION SHEET

Office Use Only

Registered: 17.5.2017

Title System: TORRENS & OLD SYSTEM

Purpose: ROADS ACT,1993

Office Use Only

DP1231238

PLAN OF LAND TO BE ACQUIRED FOR THE PURPOSES OF THE ROADS ACT, 1993.

LGA: SYDNEY

Locality: ALEXANDRIA

Parish: ALEXANDRIA

County: CUMBERLAND

Crown Lands NSW/Western Lands Office Approval

I, ... (Authorised Officer) in approving this plan certify that all necessary approvals in regard to the allocation of the land shown herein have been given.

Signature: .....

Date: .....

File Number: .....

Office: .....

Subdivision Certificate

I, ...

*Authorised Person/*General Manager/*Accredited Certifier, certify that the provisions of s.109J of the *Environmental Planning and Assessment Act 1979* have been satisfied in relation to the proposed subdivision, new road or reserve set out herein.

Signature: .....

Accreditation number: .....

Consent Authority: .....

Date of endorsement: .....

Subdivision Certificate number: .....

File number: .....

*Strike through if inapplicable.

Survey Certificate

I, MATTHEW JAMES CLARKE .....

of LYNTON SURVEYS PTY LTD .....

a surveyor registered under the *Surveying and Spatial Information Act 2002*, certify that:

*(a) The land shown in the plan was surveyed in ~~accordance with the~~ *Surveying and Spatial Information Regulation 2012*, is accurate ~~and the survey~~ was completed on .....

*(b) The part of the land shown in the plan (*being Lots 300, 304 to 310 inclusive and connections .....

.....)

was surveyed in accordance with the *Surveying and Spatial Information Regulation 2012*, is accurate and the survey was completed on, 4 APRIL, 2017 the part not surveyed was compiled in accordance with that Regulation.

*(c) ~~The land shown in this plan was~~ compiled in accordance with the *Surveying and Spatial Information Regulation 2012*.

Signature: ..... Dated: 25/4/2017

Surveyor ID: 8247.....

Datum Line: X- Y .....

Type: *Urban/*~~Rural~~

The terrain is *Level-Undulating /*~~Steep-Mountainous~~

*Strike through if inapplicable.

^Specify the land actually surveyed or specify any land shown in the plan that is not the subject of the survey.

Statements of intention to dedicate public roads, public reserves and drainage reserves.

LOTS 305 TO 310 INCLUSIVE ARE REQUIRED FOR ROAD AND AFTER CONSTRUCTION WILL BE DEDICATED AS PUBLIC ROAD UNDER SECTION 10 OF THE ROADS ACT, 1993.

LOT 300 IS ROAD IN USE WHICH WILL BECOME UNNECESSARY WHEN IT WILL BE ACQUIRED BY THE ROADS AND MARITIME SERVICES AND TRANSFERRED TO THE OWNERS OF THE ADJOINING LAND.

LOTS 301, 302, 304, 305, 306, 308, 309 & 310 SUPERSEDE LOTS 201, 202, 205, 208, 209 & 212, IN DP1222870.

Plans used in the preparation of survey/~~compilation.~~

SP 62691
DP 248721
DP 270785
DP 338072
DP 347291
DP 406603
DP 856809
DP 864502
DP 1171500
DP 1222870

If space is insufficient continue on PLAN FORM 6A

Signatures, Seals and Section 88B Statements should appear on PLAN FORM 6A

Surveyor's Reference: *2017C411 , CHECKLIST, LASRA, (RMS:SP3790B, CI1253B)*

FILE : SF2014/089239 FIELD BOOK: 6005 412 FP 0001 PLAN: 6005 412 SS 4175

Req:R497363 /Doc:DP 1231238 P /Rev:19-May-2017 /NSW LRS /Pgs:ALL /Prt:17-Jan-2020 15:46 /Seq:5 of 5
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PLAN FORM 6A (2012) WARNING: Creasing or folding will lead to rejection ePlan

DEPOSITED PLAN ADMINISTRATION SHEET

Office Use Only

Registered: 17.5.2017

Office Use Only

DP1231238

PLAN OF LAND TO BE ACQUIRED FOR THE PURPOSES OF THE ROADS ACT, 1993.

Subdivision Certificate number: .....

Date of Endorsement: .....

This sheet is for the provision of the following information as required:

- A schedule of lots and addresses - See 60(c) *SSI Regulation 2012*
- Statements of intention to create and release affecting interests in accordance with section 88B *Conveyancing Act 1919*
- Signatures and seals- see 195D *Conveyancing Act 1919*
- Any information which cannot fit in the appropriate panel of sheet 1 of the administration sheets.

Schedule of lots and addresses

Lot	Street number	Street name	Street type	Locality
300	N/A	N/A	N/A	Alexandria
301	506-518	Gardeners	Road	Alexandria
302	520-530	Gardeners	Road	Alexandria
303	506-518	Gardeners	Road	Alexandria
304	79	Bourke	Road	Alexandria

APPROVED

.....

A PRINCIPAL SURVEYOR
ROADS AND MARITIME SERVICES

If space is insufficient use additional annexure sheet

Surveyor's Reference: *2017C411 , CHECKLIST, LASRA, (RMS:SP3790B, CI1253B)*

FILE : SF2014/089239 FIELD BOOK: 6005 412 FP 0001 PLAN: 6005 412 SS 4175

Historical Title

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE
17/1/2020 3:48PM

FOLIO: 1/153878

First Title(s): SEE PRIOR TITLE(S)
Prior Title(s): VOL 6086 FOL 214

Recorded	Number	Type of Instrument	C.T. Issue
5/11/1988		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
8/8/1989		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
7/5/1991	Z576858	TRANSFER	
7/5/1991	Z576859	LEASE	EDITION 1
2/1/1992	E122183	LEASE	EDITION 2
11/10/1993	I705876	CHANGE OF NAME	EDITION 3
15/11/1993	I796120	SURRENDER OF LEASE	EDITION 4
28/4/1994	U189075	LEASE	EDITION 5
28/2/1995	O42087	LEASE	EDITION 6
26/11/1996	2643310	SURRENDER OF LEASE	
3/12/1996	DP864502	DEPOSITED PLAN	FOLIO CANCELLED
3/9/1997		AMENDMENT: LOCAL GOVT AREA	
14/3/2004	AA472866	DEPARTMENTAL DEALING	

*** END OF SEARCH ***

nascot bunnings PRINTED ON 17/1/2020

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Received: 17/01/2020 15:48:29

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RP 13 STAMP DUTY

B

Z 576858 P

OFFICE OF STATE REVENUE (N.S.W. TREASURY) 1990/91 P19 NO STAMP DUTY IS PAYABLE ON THIS INSTRUMENT

TRANSFER

REAL PROPERTY ACT, 1900

T A 1 of 2 $ 47 R 1/2

Torrens Title Reference	If Part Only, Delete Whole and Give Details	Location
DESCRIPTION OF LAND Note (a)	WHOLE	
Ø Volume 14025 Folio 162 Ø Now being 2/153878 # Volume 6086 Folio 214 # Now being 1/153878		Ph. Alexandria Co. Cumberland

TRANSFEROR Note (b)

GOODMAN FIELDER MILLS LIMITED (formerly Allied Mills Industries Pty Limited)

ESTATE Note (c)

(the abovenamed TRANSFEROR) hereby acknowledges receipt of the consideration of $ 8,700,000.00 and transfers an estate in fee simple in the land above described to the TRANSFEREE

TRANSFEREE Note (d)

GOODMAN FIELDER INDUSTRIES LIMITED
a Company incorporated in Queensland and having its registered Office at 43 Curzon Street, Tennyson

OFFICE USE ONLY S

TENANCY Note (e)

as joint tenants/tenants in common

PRIOR ENCUMBRANCES Note (f)

subject to the following PRIOR ENCUMBRANCES 1. T 783810 2. ..... 3. .....

D

DATE 12 December 1990

We hereby certify this dealing to be correct for the purposes of the Real Property Act, 1900.

EXECUTION Note (g)

~~Signed in my presence by the transferor who is personally known to me~~
THE COMMON SEAL of GOODMAN FIELDER MILLS LIMITED was hereunto affixed by authority of the Board of Directors in the presence of:
~~Signature of Witness~~
~~Name of Witness (BLOCK LETTERS)~~
~~Address and occupation of Witness~~

Secretary

GOODMAN FIELDER MILLS LIMITED Common Seal

Director ~~Signature of Transferor~~

Note (g)

~~Signed in my presence by the transferee who is personally known to me~~
THE COMMON SEAL of GOODMAN FIELDER INDUSTRIES LIMITED was hereunto affixed by authority of the Board of Directors in the presence of:
~~Signature of Witness~~
~~Name of Witness (BLOCK LETTERS)~~
~~Address and occupation of Witness~~
182

Secretary

Common GOODMAN FIELDER INDUSTRIES LIMITED Seal

Director ~~Signature of Transferee~~

TO BE COMPLETED BY LODGING PARTY Notes (h) and (i)

LODGED BY BLAKE DAWSON WALDRON 238 N
Ref:
Delivery Box Number

LOCATION OF DOCUMENTS

CT	OTHER	
	Cert. of Inc.	Herewith copy attached
		In L.T.O. with
		Produced by

OFFICE USE ONLY

Checked	Passed	REGISTERED - - -19
Signed	Extra Fee	7 MAY 1991

Secondary Directions			
Delivery Directions			

Evidence re change of name Applied for

Req:R497396 /Doc:CT 14025-162 CT /Rev:13-Jan-2011 /NSW LRS /Pgs:ALL /Prt:17-Jan-2020 15:49 /Seq:1 of 2
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CERTIFICATE OF TITLE

NEW SOUTH WALES

[redacted] PROPERTY ACT, 1900

Vol. 14025 Fol. 162

EDITION ISSUED

26 2 1980

Appln. No. 32863

Prior Title Vol. 4956 Fol. 207

14025 Fol. 162

(Page 1) Vol.

I certify that the person described in the First Schedule is the registered proprietor of the undermentioned estate in the land within described subject nevertheless to such exceptions encumbrances and interests as are shown in the Second Schedule.

CANCELLED

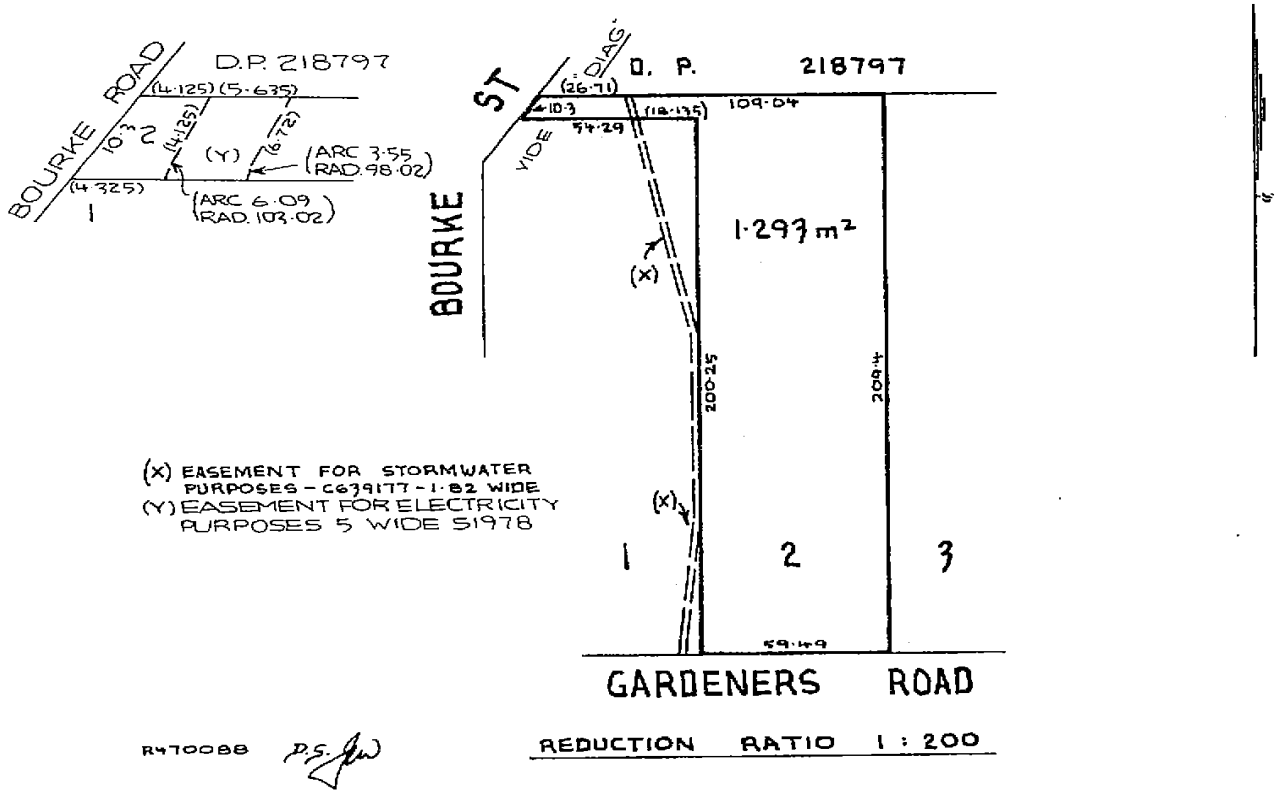
Registrar General.

SEE AUTO FOLIO

PLAN SHOWING LOCATION OF LAND

LENGTHS ARE IN METRES

DIAGRAM
NOT TO SCALE



(X) EASEMENT FOR STORMWATER PURPOSES - C639177 - 1.82 WIDE
(Y) EASEMENT FOR ELECTRICITY PURPOSES 5 WIDE S1978

R470088 P.S.

REDUCTION RATIO 1 : 200

ESTATE AND LAND REFERRED TO

Estate in Fee Simple in Lot 2 in Deposited Plan 153878 in the Municipality of South Sydney Parish of Alexandria and County of Cumberland being part of 566.6 hectares granted to William Hutchinson on 27-5-1823.

FIRST SCHEDULE

ALLIED MILLS INDUSTRIES PTY. LIMITED.

SECOND SCHEDULE

1. Reservations and conditions, if any, contained in the Crown Grant above referred to.
2. C639177P Easement for stormwater purposes affecting the land shown so burdened in the plan hereon.
3. C657363P Covenant.

PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO THIS CERTIFICATE OR ANY NOTIFICATION HEREON

WARNING: THIS DOCUMENT MUST NOT BE REMOVED FROM THE REGISTRAR GENERAL'S OFFICE.

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED

RG 2/62

CT 18 7 8

R974426 LSE 7 ECL

S197870G

C.T. 2.9.8

T785810 Lse P

Vol. 14025 Fol. 162

FIRST SCHEDULE (continued)

REGISTERED PROPRIETOR	INSTRUMENT NATURE	INSTRUMENT NUMBER	REGISTERED	Signature of Registrar General
CANCELLED				
SEE AUTO FOLIO				

SECOND SCHEDULE (continued)

INSTRUMENT NATURE	INSTRUMENT NUMBER	PARTICULARS	REGISTERED	Signature of Registrar General	CANCELLATION	
~~Lease~~	~~R974426~~	~~of sub-station premises No 441 together with a right of way over another part of the land above described, to The Sydney County Council. Expires 1-5-1983.~~	~~29-9-1950.~~		Expired	2-12-1983
Transfer	S197870	Easement for electricity purposes affecting the land shown so burdened in the plan hereon.	29-9-1950.			
T785810P		Lease to The Sydney County Council of Sub-Station premises No.441 as shown in plan with R974426 together with a right of way over another part of the land within described. Expires 1-5-2003. 2-12-1983	Registered			

(Page 2 of 2 pages)

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED

Req:R497396 /Doc:CT 14025-162 CT /Rev:13-Jan-2011 /NSW LRS /Pgs:ALL /Prt:17-Jan-2020 15:49 /Seq:2 of 2
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Historical Title

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE
17/1/2020 3:47PM

FOLIO: 100/864502

First Title(s): OLD SYSTEM
Prior Title(s): 1-2/153878

Recorded	Number	Type of Instrument	C.T. Issue
4/12/1996	DP864502	DEPOSITED PLAN	FOLIO CREATED EDITION 1
11/12/1996	2682244	TRANSFER OF LEASE	
11/12/1996	2682245	TRANSFER	
11/12/1996	2682246	MORTGAGE	EDITION 2
20/12/1996	2709359	REQUEST	EDITION 3
24/12/1996	2720146	CAVEAT	
13/1/1997	2757204	MORTGAGE	
13/1/1997	2757205	POSTPONEMENT OF MORTGAGE	
13/1/1997	2757206	VARIATION OF MORTGAGE	EDITION 4
21/1/1997	2777357	DEPARTMENTAL DEALING	EDITION 5
18/7/1997	DP267882	DEPOSITED PLAN	EDITION 6
4/11/1997	3530309	DEPARTMENTAL DEALING	
6/11/1997	3534982	LEASE	EDITION 7
13/11/1998	5394982	DEPARTMENTAL DEALING	
31/8/2000	6681072	SURRENDER OF LEASE	
31/8/2000	6681073	LEASE	EDITION 8
13/12/2000	DP1015638	DEPOSITED PLAN	
14/3/2004	AA472866	DEPARTMENTAL DEALING	
12/9/2012	AH233775	DISCHARGE OF MORTGAGE	
12/9/2012	AH233776	DISCHARGE OF MORTGAGE	
12/9/2012	AH233777	MORTGAGE	EDITION 9
28/6/2014	AI702528	APPLICATION FOR REPLACEMENT CERTIFICATE OF TITLE	EDITION 10
25/7/2014	AI761079	LEASE	EDITION 11

END OF PAGE 1 - CONTINUED OVER

SEARCH DATE
17/1/2020 3:47PM

FOLIO: 100/864502 PAGE 2

Recorded	Number	Type of Instrument	C.T. Issue
19/3/2015	AJ327884	DEPARTMENTAL DEALING	
23/3/2015	AJ71566	CHANGE OF NAME	
8/5/2015	AJ464566	DISCHARGE OF MORTGAGE	
8/5/2015	AJ464567	SURRENDER OF LEASE	
8/5/2015	AJ464568	LEASE	
8/5/2015	AJ464569	MORTGAGE	EDITION 12
11/8/2015	AJ537019	DEPARTMENTAL DEALING	
11/8/2015	AJ720610	DEPARTMENTAL DEALING	EDITION 13
15/8/2016	DP1222870	DEPOSITED PLAN	
2/9/2016	AK668913	REQUEST	
28/2/2017	AK971351	LEASE	
28/2/2017	AK971352	SUB-LEASE	
28/2/2017	AK971502	MORTGAGE OF LEASE	
28/2/2017	AK971571	CHANGE OF NAME	
28/2/2017	AM136502	DEPARTMENTAL DEALING	
17/5/2017	DP1231238	DEPOSITED PLAN	
20/6/2017	AM483384	REQUEST	
20/7/2017	AM580829	DEPARTMENTAL DEALING	
21/7/2017	AM574272	REQUEST	FOLIO CANCELLED

*** END OF SEARCH ***

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Req:R497385 /Doc:DL 2682245 /Rev:27-Jan-2010 /NSW LRS /Pgs:ALL /Prt:17-Jan-2020 15:47 /Seq:1 of 1
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97-01T

TRANSFER

Real Property Act, 1900

2682245 H

Office

25/11/1996 $2.00 994002259 14
63052 1/153878 (2) TFR
GF FINANCE LTD-SOUTH SYDNEY CENTR 057622
$5300000.00 $0.00 566

(A) **LAND TRANSFERRED**

Show no more than 20 References to Title.
If appropriate, specify the share transferred.

1/153878
2/153878 } now being 100/864502

(B) **LODGED BY**

L.T.O. Box	Name, Address or DX and Telephone
646W.	NORTON SMITH & CO REFERENCE (max. 15 characters): 962447 KAF

(C) **TRANSFEROR** GF FINANCE LIMITED
ACN 009 979 471

(D) acknowledges receipt of the consideration of $5,300,000.00
and as regards the land specified above transfers to the Transferee an estate in fee simple

(E) subject to the following **ENCUMBRANCES** 1. T785810 2. U189075 3.

(F) **TRANSFEREE**

T TS (s713 LGA) TW (Sheriff)	SOUTH SYDNEY CENTRAL PTY LIMITED ACN 072 087 024

(G) **TENANCY:**

(H) We certify this dealing correct for the purposes of the Real Property Act, 1900. **DATED** 9 December 1996

Signed in my presence by the Transferor who is personally known to me.

THE COMMON SEAL OF GF FINANCE LIMITED WAS HEREUNTO AFFIXED BY THE AUTHORITY OF THE BOARD OF DIRECTORS IN THE PRESENCE OF:

GF FINANCE LIMITED A.C.N. 009 979 471 Common Seal

Signature of Witness

R.G. SHAPLAND
Name of Witness (BLOCK LETTERS)

10 Doolette St Concord 2137
Address of Witness

SECRETARY / DIRECTOR
Signature of Transferor

JOHN E HARTIGAN IAN M GILMOUR

Signed in my presence by the Transferee who is personally known to me.

Signature of Witness

Name of Witness (BLOCK LETTERS)

Address of Witness

Signature of Transferee's solicitor

INSTRUCTIONS FOR FILLING OUT THIS FORM ARE AVAILABLE FROM THE LAND TITLES OFFICE

CHECKED BY (office use only)

Ausdoc Commercial and Law Stationers 1991

B + B c K

Historical Title

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE
17/1/2020 3:48PM

FOLIO: 2/153878

First Title(s): SEE PRIOR TITLE(S)
Prior Title(s): VOL 14025 FOL 162

Recorded	Number	Type of Instrument	C.T. Issue
21/8/1988		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
20/2/1989		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
7/5/1991	Z576858	TRANSFER	
7/5/1991	Z576859	LEASE	EDITION 1
2/1/1992	E122183	LEASE	EDITION 2
21/10/1993	I735308	CHANGE OF NAME	EDITION 3
15/11/1993	I796120	SURRENDER OF LEASE	EDITION 4
28/4/1994	U189075	LEASE	EDITION 5
28/2/1995	O42087	LEASE	EDITION 6
26/11/1996	2643310	SURRENDER OF LEASE	
3/12/1996	DP864502	DEPOSITED PLAN	FOLIO CANCELLED
3/9/1997		AMENDMENT: LOCAL GOVT AREA	
14/3/2004	AA472866	DEPARTMENTAL DEALING	

*** END OF SEARCH ***

nascot bunnings PRINTED ON 17/1/2020

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Historical Title

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE
17/1/2020 3:47PM

FOLIO: 302/1231238

First Title(s): OLD SYSTEM
Prior Title(s): 100/864502

Recorded	Number	Type of Instrument	C.T. Issue
17/5/2017	DP1231238	DEPOSITED PLAN	LOT RECORDED FOLIO NOT CREATED
21/7/2017	AM574272	REQUEST	FOLIO CREATED CT NOT ISSUED

*** END OF SEARCH ***

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LAND REGISTRY SERVICES Title Search

NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: 302/1231238

SEARCH DATE	TIME	EDITION NO	DATE
17/1/2020	3:46 PM	-	-

CERTIFICATE OF TITLE HAS NOT ISSUED

LAND

LOT 302 IN DEPOSITED PLAN 1231238
AT ALEXANDRIA
LOCAL GOVERNMENT AREA SYDNEY
PARISH OF ALEXANDRIA COUNTY OF CUMBERLAND
TITLE DIAGRAM DP1231238

FIRST SCHEDULE

SOUTH SYDNEY CENTRAL PTY LIMITED

SECOND SCHEDULE (8 NOTIFICATIONS)

---

1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)

* 2 C657363 COVENANT AFFECTING THE PART SHOWN SO BURDENED IN THE TITLE DIAGRAM.

* 3 S1978 EASEMENT FOR ELECTRICITY PURPOSES 5 WIDE AFFECTING THE PART SHOWN SO BURDENED IN THE TITLE DIAGRAM

* 4 DP267882 EASEMENT TO DRAIN WATER 2 WIDE AFFECTING THE PART SHOWN SO BURDENED IN THE TITLE DIAGRAM

* 5 DP267882 POSITIVE COVENANT

* 6 6681073 LEASE TO AUSGRID (SEE AJ71566) OF SUBSTATION NO 2999 TOGETHER WITH RIGHT OF WAY & EASEMENT FOR ELECTRICITY PURPOSES OVER ANOTHER PART OF THE LAND ABOVE DESCRIBED SHOWN IN PLAN WITH 6681073. EXPIRES: 31/8/2047.

* AK971351 LEASE OF LEASE 6681073 TO BLUE ASSET PARTNER PTY LTD, ERIC ALPHA ASSET CORPORATION 1 PTY LTD, ERIC ALPHA ASSET CORPORATION 2 PTY LTD, ERIC ALPHA ASSET CORPORATION 3 PTY LTD & ERIC ALPHA ASSET CORPORATION 4 PTY LTD EXPIRES: SEE DEALING. CLAUSE 2.3 (b) (ii).

* AK971352 LEASE OF LEASE AK971351 TO BLUE OP PARTNER PTY LTD, ERIC ALPHA OPERATOR CORPORATION 1 PTY LTD, ERIC ALPHA OPERATOR CORPORATION 2 PTY LTD, ERIC ALPHA OPERATOR CORPORATION 3 PTY LTD & ERIC ALPHA OPERATOR CORPORATION 4 PTY LTD EXPIRES: SEE DEALING. CLAUSE 12.1

* AK971502 MORTGAGE OF LEASE AK971351 TO ANZ FIDUCIARY

END OF PAGE 1 - CONTINUED OVER

SECOND SCHEDULE (8 NOTIFICATIONS) (CONTINUED)

SERVICES PTY LTD

* AK971571 CHANGE OF NAME AFFECTING LEASE 6681073 LESSEE NOW ALPHA DISTRIBUTION MINISTERIAL HOLDING CORPORATION

* 7 AJ464568 MORTGAGE TO WESTPAC BANKING CORPORATION

* 8 AJ464569 LEASE TO BUNNINGS GROUP LIMITED EXPIRES: 28/2/2025. OPTION OF RENEWAL: 5 YEARS WITH ONE FURTHER OPTION OF 5 YEARS.

NOTATIONS

CERTIFICATE OF TITLE NOT ISSUED. LODGED DEALINGS MUST BE ACCOMPANIED BY PRIOR CERTIFICATE OF TITLE 100/864502 (EDITION 13)

UNREGISTERED DEALINGS: DD AM585645.

*** END OF SEARCH ***

* Any entries preceded by an asterisk do not appear on the current edition of the Certificate of Title. Warning: the information appearing under notations has not been formally recorded in the Register. InfoTrack an approved NSW Information Broker hereby certifies that the information contained in this document has been provided electronically by the Registrar General in accordance with Section 96B(2) of the Real Property Act 1900.

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Appendix J Borehole Logs

SB1

Project Number: 58167
Client: Charter Hall
Project Name: Mascot DD
Site Address: 520-530 Gardeners Rd. Mascot

Date: 24/01/2020
Logged By: JDC
Contractor: Terratest
Total Hole Depth (mbgs): 3
Bore Diameter (mm): 50

Eastings (GDA 94):
Northings (GDA 94):
Zone/Area/Permit#:
Reference Level:
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Solid Flight Auger				Fill	Fill- Asphalt		
		0.10		Fill	Silty sand, brown/grey, heterogeneous, very fine, loose	SB1 0.2-0.3 PID = 1.8 ppm	No Odours, Staining or Asbestos
	0.5					SB1 0.5-0.6 PID = 2.3 ppm	No Odours, Staining or Asbestos
	1.0	1.00		SM-SC	Silty clayey sand, brown/grey, homogeneous, increasing moisture with depth	SB1 1.0-1.1 PID = 1.9 ppm	No Odours, Staining or Asbestos
	1.5						
	2.0					SB1 2.0-2.1 PID = 3.8 ppm	No Odours, Staining or Asbestos
	2.5						
	3.0	3.00			Borehole SB1 terminated at 3m	SB1 3.0-3.1 PID = 4.2 ppm	No Odours, Staining or Asbestos

SB2

Project Number: 58167
Client: Charter Hall
Project Name: Mascot DD
Site Address: 520-530 Gardeners Rd. Mascot

Date: 24/01/2020
Logged By: JDC
Contractor: Terratest
Total Hole Depth (mbgs): 3
Bore Diameter (mm): 50

Eastings (GDA 94):
Northings (GDA 94):
Zone/Area/Permit#:
Reference Level:
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Solid Flight Auger				Fill	Fill- Asphalt		
		0.10		Fill	Fill- Reworked clayey silty sand, grey/light brown, very loose, very fine, heterogeneous, dry, with inclusions of brick, concrete, roadbase and sandstone gravels	SB2 0.2-0.3 PID = 5.8 ppm	No Odours, Staining or Asbestos
	0.5					SB2 0.5-0.6 PID = 4.2 ppm	No Odours, Staining or Asbestos
		0.80		Fill	Fill- Old concrete slab		
	1.0						
		1.00		Fill	Fill- Reworked silty clayey sand, dark brown, with inclusions of concrete and sandstone	SB2 1.0-1.1 PID = 1.8 ppm	No Odours, Staining or Asbestos
	1.5						
		1.80		SC-SM	Clayey silty sand, dark brown, homogeneous, very fine, firm		
	2.0					SB2 2.0-2.1 PID = 2.9 ppm	No Odours, Staining or Asbestos
	2.5						
	3.0						
		3.00			Borehole SB2 terminated at 3m	SB2 3.0-3.1 PID = 3.2 ppm	No Odours, Staining or Asbestos

SB3

Project Number: 58167
Client: Charter Hall
Project Name: Mascot DD
Site Address: 520-530 Gardeners Rd. Mascot

Date: 24/01/2020
Logged By: JDC
Contractor: Terratest
Total Hole Depth (mbgs): 3
Bore Diameter (mm): 50

Eastings (GDA 94):
Northings (GDA 94):
Zone/Area/Permit#:
Reference Level:
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Solid Flight Auger				Fill	Fill- Roadbase		
		0.10		Fill	Fill- Reworked clayey silty sand, yellow, with inclusions of pebbles, bitumen and sandstone fragments	SB3 0.2-0.3 PID = 5.3 ppm	No Odours, Staining or Asbestos
		0.30		Fill	Fill- Reworked silty clayey sand, black/grey/white, heterogeneous, with inclusions of gravel and sandstone		
	0.5					SB3 0.5-0.6 PID = 5.4 ppm	No Odours, Staining or Asbestos
	1.0	1.00		SC-SM	Clayey silty sand, light brown, homogeneous, very fine, firm	SB3 1.0-1.1 PID = 6.2 ppm	No Odours, Staining or Asbestos
	1.5						
	2.0					SB3 2.0-2.1 PID = 5 ppm	No Odours, Staining or Asbestos
	2.5						
	3.0						
		3.00			Borehole SB3 terminated at 3m	SB3 3.0-3.1 PID = 4 ppm	No Odours, Staining or Asbestos

SB4

Project Number: 58167
Client: Charter Hall
Project Name: Mascot DD
Site Address: 520-530 Gardeners Rd. Mascot

Date: 24/01/2020
Logged By: JDC
Contractor: Terratest
Total Hole Depth (mbgs): 3
Bore Diameter (mm): 50

Eastings (GDA 94):
Northings (GDA 94):
Zone/Area/Permit#:
Reference Level:
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Solid Flight Auger				Fill	Fill- Asphalt		
		0.10		Fill	Fill- Reworked clayey silty sand, brown/white, heterogeneous, dry, very loose, very fine, with inclusions of gravels, brick, concrete	SB4 0.2-0.3 PID = 1.8 ppm	No Odours, Staining or Asbestos
	0.5					SB4 0.5-0.6 PID = 2 ppm	No Odours, Staining or Asbestos
	1.0					SB4 1.0-1.1 PID = 1.6 ppm	No Odours, Staining or Asbestos
	1.5						
		1.70		SM-SC	Silty clayey sand, light brown, homogeneous, very fine, damp, firm	SB4 1.8-1.9 PID = 1.7 ppm	No Odours, Staining or Asbestos
	2.0						
	2.5						
	3.0						
		3.00			Borehole SB4 terminated at 3m	SB4 3.0-3.1 PID = 2 ppm	No Odours, Staining or Asbestos

MW1

Project Number: 58167
Client: Charter Hall
Project Name: Mascot DD
Site Address: 520-530 Gardeners Rd. Mascot

Date: 24/01/2020
Logged By: JDC
Contractor: Terratest
Total Hole Depth (mbgs): 5
Bore Diameter (mm): 50

Eastings (GDA 94):
Northings (GDA 94):
Zone/Area/Permit#:
Reference Level:
Elevation (m):

Water Level Initial (mbgs): 3
Surface Finish: Gatic
Casing / Screen Type: Class 18 PVC - 50mm
Casing Bottom Depth (mbgs): 2
Screen Bottom Depth (mbgs): 5

Method	Depth (mbgs)	Contact (mbgs)	Lithological Class	Lithological Description	Samples / Tests / Remarks	Additional Observations
Solid Flight Auger			Fill	Fill- Asphalt		
		0.10	Fill	Fill- Reworked silty clayey sand, brown, heterogeneous, with inclusions of sandstone cobbles, brick, concrete and road bitumen	MW1 0.1-0.2 PID = 0 ppm	No Odours, Staining or Asbestos
	0.5					
		0.80	Fill	Fill- Reworked silty clayey sand, black, heterogeneous with inclusions of bitumen, brick, sandstone cobbles and gravels		
	1.0				MW1 1.0-1.1 PID = 1.2 ppm	No Odours, Staining or Asbestos
		1.20	SC-SM	Clayey silty sand, dark grey, homogeneous, very fine, firm, increasing moisture with depth		
	1.5					
	2.0				MW1 2.0-2.1 PID = 1.7 ppm	No Odours, Staining or Asbestos
	2.5					
	3.0				MW1 3.0-3.1 PID = 0.6 ppm	No Odours, Staining or Asbestos
	3.5					
	4.0				MW1 4.0-4.1 PID = 0.8 ppm	No Odours, Staining or Asbestos
	4.5					
	5.0					
		5.00		Borehole MW1 terminated at 5m	MW1 5.0-5.1 PID = 1.1 ppm	No Odours, Staining or Asbestos

WELL JBSG WELL - 2017.GPJ GINT STD AUSTRALIA.GDT 29/1/20

MW2

Project Number: 58167
Client: Charter Hall
Project Name: Mascot DD
Site Address: 520-530 Gardeners Rd. Mascot

Date: 24/01/2020
Logged By: JDC
Contractor: Terratest
Total Hole Depth (mbgs): 5
Bore Diameter (mm): 50

Eastings (GDA 94):
Northings (GDA 94):
Zone/Area/Permit#:
Reference Level:
Elevation (m):

Water Level Initial (mbgs): 3
Surface Finish: Gatic
Casing / Screen Type: Class 18 PVC - 50mm
Casing Bottom Depth (mbgs): 2
Screen Bottom Depth (mbgs): 5

Method	Water (mbgs)	Well Details	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Solid Flight Auger						Fill	Fill- Concrete		
				0.18		Fill	Fill- Reworked clayey sand, brown, heterogeneous, with inclusions of roadbase, concrete and sandstone gravels	MW2 0.2-0.3 PID = 0 ppm	No Odours, Staining or Asbestos
			0.5					MW2 0.5-0.6 PID = 1.6 ppm	No Odours, Staining or Asbestos
			1.0					MW2 1.0-1.1 PID = 2 ppm	No Odours, Staining or Asbestos
			1.5	1.50		SC-SM	Clayey silty sand, grey, very fine, firm, increasing moisture with depth		
			2.0					MW2 2.0-2.1 PID = 1.6 ppm	No Odours, Staining or Asbestos
	▼		2.5						
			3.0					MW2 3.0-3.1 PID = 3.5 ppm	No Odours, Staining or Asbestos
			3.5						
			4.0					MW2 4.0-4.1 PID = 0.3 ppm	No Odours, Staining or Asbestos
			4.5						
			5.0						
				5.00			Borehole MW2 terminated at 5m	MW2 5.0-5.1 PID = 1.8 ppm	No Odours, Staining or Asbestos

MW3

Project Number: 58167
Client: Charter Hall
Project Name: Mascot DD
Site Address: 520-530 Gardeners Rd. Mascot

Date: 24/01/2020
Logged By: JDC
Contractor: Terratest
Total Hole Depth (mbgs): 5
Bore Diameter (mm): 50

Eastings (GDA 94):
Northings (GDA 94):
Zone/Area/Permit#:
Reference Level:
Elevation (m):

Water Level Initial (mbgs): 4
Surface Finish: Gatic
Casing / Screen Type: Class 18 PVC - 50mm
Casing Bottom Depth (mbgs): 2
Screen Bottom Depth (mbgs): 5

Method	Depth (mbgs)	Contact (mbgs)	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Solid Flight Auger			Fill	Fill- Asphalt		
		0.10	Fill	Fill- Roadbase, brown, with inclusions of sandstone cobbles, brick, gravel		
		0.20	Fill	Fill- Reworked sandy clay, black/brown, inclusions of brick, bitumen and sandstone	MW3 0.2-0.3 PID = 13.1 ppm	No Odours, Staining or Asbestos
	0.5	0.50	SW	Sand, grey, firm, very fine, increasing moisture with depth	MW3 0.5-0.6 PID = 13.8 ppm	No Odours, Staining or Asbestos
	1.0				MW3 1.0-1.1 PID = 10.7 ppm	No Odours, Staining or Asbestos
	1.5					
	2.0				MW3 2.0-2.1 PID = 12.4 ppm	No Odours, Staining or Asbestos
	2.5					
	3.0				MW3 3.0-3.1 PID = 10.2 ppm	No Odours, Staining or Asbestos
	3.5					
	4.0					
	4.5					
	5.0	5.00		Borehole MW3 terminated at 5m		

WELL_JBSG WELL - 2017.GPJ GINT STD AUSTRALIA.GDT 29/1/20

MW4

Project Number: 58167
Client: Charter Hall
Project Name: Mascot DD
Site Address: 520-530 Gardeners Rd. Mascot

Date: 24/01/2020
Logged By: JDC
Contractor: Terratest
Total Hole Depth (mbgs): 5
Bore Diameter (mm): 50

Eastings (GDA 94):
Northings (GDA 94):
Zone/Area/Permit#:
Reference Level:
Elevation (m):

Water Level Initial (mbgs): 0
Surface Finish: Gatic
Casing / Screen Type: Class 18 PVC - 50mm
Casing Bottom Depth (mbgs): 2
Screen Bottom Depth (mbgs): 5

Method	Water (mbgs)	Well Details	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Solid Flight Auger	▼					Fill	Fill- Asphalt		
				0.10		Fill	Fill- silty clayey sand, brown, heterogeneous, dry, with inclusions of broken up bitumen, roadbase, sandstone cobbles and gravels	MW4 0.4-0.5 PID = 0.5 ppm	No Odours, Staining or Asbestos
			0.5						
				0.70		Fill	Fill- Old concrete slab		
				0.90		Fill	Fill- Clayey silty sand, black, fine, firm, heterogeneous, with inclusions of road gravel	MW4 1.0-1.1 PID = 0.6 ppm	No Odours, Staining or Asbestos
			1.0						
			1.5	1.50		SC-SM	Clayey silty sand, black, homogeneous, firm, fine		
			2.0					MW4 2.0-2.1 PID = 1 ppm	No Odours, Staining or Asbestos
			2.5						
			3.0					MW4 3.0-3.1 PID = 0.3 ppm	No Odours, Staining or Asbestos
			3.5						
			4.0					MW4 4.0-4.1 PID = 0.5 ppm	No Odours, Staining or Asbestos
			4.5						
			5.0						
				5.00			Borehole MW4 terminated at 5m	MW4 5.0-5.1 PID = 0.8 ppm	No Odours, Staining or Asbestos

MW5

Project Number: 58167
Client: Charter Hall
Project Name: Mascot DD
Site Address: 520-530 Gardeners Rd. Mascot

Date: 24/01/2020
Logged By: JDC
Contractor: Terratest
Total Hole Depth (mbgs): 5
Bore Diameter (mm): 50

Eastings (GDA 94):
Northings (GDA 94):
Zone/Area/Permit#:
Reference Level:
Elevation (m):

Water Level Initial (mbgs): 3
Surface Finish: Gatic
Casing / Screen Type: Class 18 PVC - 50mm
Casing Bottom Depth (mbgs): 1.5
Screen Bottom Depth (mbgs): 5

Method	Depth (mbgs)	Contact (mbgs)	Lithological Class	Lithological Description	Samples / Tests / Remarks	Additional Observations
Solid Flight Auger	0		Fill	Fill- Concrete slab		
		0.20	Fill	Fill- Reworked clayey silty sand, heterogeneous, with inclusions of slag, concrete, brick	MW5 0.2-0.3 PID = 1.8 ppm	No Odours, Staining or Asbestos
	0.5				MW5 0.5-0.6 PID = 2.3 ppm	No Odours, Staining or Asbestos
	1.0	1.00	SM-SC	Silty clayey sand, brown/grey, homogeneous, increasing moisture with depth	MW5 1.0-1.1 PID = 5.2 ppm	No Odours, Staining or Asbestos
	1.5					
	2.0				MW5 2.0-2.1 PID = 1 ppm	No Odours, Staining or Asbestos
	2.5					
	3.0				MW5 3.0-3.1 PID = 2 ppm	No Odours, Staining or Asbestos
	3.5					
	4.0				MW5 4.0-4.1 PID = 0.9 ppm	No Odours, Staining or Asbestos
	4.5					
	5.0	5.00		Borehole MW5 terminated at 5m	MW5 5.0-5.1 PID = 1.3 ppm	No Odours, Staining or Asbestos

Appendix K Field Calibration Records

Field Equipment Calibration and Decontamination

PROJECT NAME: Gardeners RD	**PROJECT NO:** 61301
FIELDWORK DATES: 5/6 - 8 - 21	**SAMPLERS:** ML
TYPE OF INVESTIGATION:	**PROJECT MANAGER:** CB

CALIBRATION SUMMARY

EQUIPMENT: PID
CALIBRATION STANDARD: 100ppm Isobutanol

DATE	TIME	READING (ppm)	COMMENTS
5/8/21	8:40	0	Bump
		100.3	test
		100.0	
6/8/21	7:00	0	"
		100	"
		100	

DECONTAMINATION SUMMARY

EQUIPMENT: PID

1	Was the equipment decontaminated appropriately prior to sampling at each location?	(Y)	N	NA
2	Was excess soil removed by scraping, brushing or wiping with disposable towels?	Y	N	NA
3	Was the equipment contaminated with grease, tar or similar material?	Y	N	NA
	If so, was the equipment steam cleaned or rinsed with pesticide-grade acetone:hexane?	Y	N	NA
4	Was phosphate-free detergent used to wash the equipment?	Y	N	NA
5	Was the equipment rinsed with clean water?	Y	N	NA
6	Was the equipment then rinsed with deionised water?	Y	N	NA
7	Were all sample containers cleaned and acid or solvent washed prior to sample collection?	Y	N	NA

WERE ANY ADDITIONAL DECONTAMINATION MEASURES REQUIRED? PROVIDE DETAILS

New pair of Nitrile gloves at each location

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Multi Parameter Water Meter

airmet

Air-Met Scientific Pty Ltd
1300 137 067

Instrument YSI Quatro Pro Plus
Serial No. 11E101629

Item	Test	Pass	Comments
Battery	Charge Condition	✓	
	Fuses	✓	
	Capacity	✓	
Switch/keypad	Operation	✓	
Display	Intensity	✓	
	Operation (segments)	✓	
Grill Filter	Condition	✓	
	Seal	✓	
PCB	Condition	✓	
Connectors	Condition	✓	
Sensor	1. pH	✓	
	2. mV	✓	
	3. EC	✓	
	4. D.O	✓	
	5. Temp	✓	
Alarms	Beeper		
	Settings		
Software	Version		
Data logger	Operation		
Download	Operation		
Other tests:			

Certificate of Calibration

This is to certify that the above instrument has been calibrated to the following specifications:

Sensor	Serial no	Standard Solutions	Certified	Solution Bottle Number	Instrument Reading
1. pH 10.00		pH 10.00		330738	pH 9.55
2. pH 7.00		pH 7.00		330737	pH 6.88
3. pH 4.00		pH 4.00		330734	pH 4.18
4. mV		227.4mV		337308/338782	227.6mV
5. EC		2.76mS		333787	2.74mS
6. Temp		23°C		MultiTherm	23.3°C
7. DO		0.00ppm		329994	0.02ppm

Calibrated by: Sarah Lian

Calibration date: 23/01/2020

Next calibration due: 22/02/2020

Field Reporting Cover Sheet

PROJECT NAME: Mascot	**PROJECT NO:** 58167
FIELD WORK DATES: 25/01/20	**PROJECT MANAGER:** CB
FIELD STAFF: MN	
WEATHER: sunny	
PROPOSED WORKS: GME	

SUMMARY OF FIELD WORK:	Groundwater sample MW1 - - - MW5 Peripump PID wells
IMPORTANT OUTCOMES TO NOTE:	QA/QC @ MW1 wells all were smelly (~~smelly~~ swampy/sulfur)

SAMPLING SUMMARY	
DATE SAMPLES SENT: 28/01/20	COC COMPLETED AND SENT? ☑ YES ☐ NO
PRIMARY LAB: Eurofins	SECONDARY LAB: Envirolab

POST FIELD WORK CHECKLIST	
☑ COC	☑ Site map updated and attached
☑ Field data sheets attached *e.g. bore logs, well monitoring forms, sampling forms*	☑ Calibration and decontamination sheets attached ☑ Photos downloaded to project file
☑ Field notes attached	☐ Field Audit Checklist completed
☑ Electronic bore logs completed and checked	☐ Equipment cleaned and returned as required

OUTSTANDING ACTIONS:

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Field Equipment Calibration and Decontamination

PROJECT NAME: Mascot	**PROJECT NO:** 5
FIELDWORK DATES: 25/01/20	**SAMPLERS:** MN
TYPE OF INVESTIGATION: GME	**PROJECT MANAGER:** CB

CALIBRATION SUMMARY

EQUIPMENT: - Water quality meter Sheet attached - PID
CALIBRATION STANDARD: 100 ppm isobutylene

DATE	TIME	READING (ppm)	COMMENTS
24/01/20	7:00	0	Zero Calibration
↓	7:01	100.4	100 ppm isobutylene
	7:02	100.1	bump test
25/01/20	7:00	0	Zero Calibration
	7:01	100.3	100 ppm isobutylene
	7:02	100.1	bump test

DECONTAMINATION SUMMARY

EQUIPMENT: Interface probe

1	Was the equipment decontaminated appropriately prior to sampling at each location?	(Y)	N	NA
2	Was excess soil removed by scraping, brushing or wiping with disposable towels?	(Y)	N	NA
3	Was the equipment contaminated with grease, tar or similar material?	Y	(N)	NA
	If so, was the equipment steam cleaned or rinsed with pesticide-grade acetone:hexane?	Y	N	NA
4	Was phosphate-free detergent used to wash the equipment?	(Y)	N	NA
5	Was the equipment rinsed with clean water?	(Y)	N	NA
6	Was the equipment then rinsed with deionised water?	(Y)	N	NA
7	Were all sample containers cleaned and acid or solvent washed prior to sample collection?	Y	N	(NA)

WERE ANY ADDITIONAL DECONTAMINATION MEASURES REQUIRED? PROVIDE DETAILS

new pair of nitrile gloves & tubing used for every well

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Groundwater Sampling Form

PROJECT NAME:	Gardners Rd, ~~Alkem~~ Mallot	**PROJECT NO:**	
SAMPLING DATES:	25/1/20	**SAMPLERS:**	MN
TYPE OF INVESTIGATION:	GME	**PROJECT MANAGER:**	CB
WELL ID:	MW1	**WEATHER:**	Overcast

Casing Diameter (mm):	50	**Depth to NAPL (mBTOC):**	
Well Completion:	Flush Mount / Monument	**Depth to SWL (mBTOC):**	2.525
Well Cap Type:	Locking Cap / PVC / Other	**NAPL Thickness (m):**	
Well Condition:	Good / Compromised	**Depth to EoH (mbtoc):**	5.02
Calculated Well Volume (L):	4.99	**Water Column Depth (m):**	2.495
Sampling Method:		**NAPL Visually Verified?**	
Purge Volume	4 Casings Vol. (L)	PID	10.3
Low Flow	Pump Submersion depth (mBTOC)		

TIME	VOLUME PURGED L	DSSOLVED OXYGEN ☐ % ☑ mgL/ppm	TEMP °C	pH pH units	EC µS/cm	ORP mV	Comments Inc SWL for low flow (mBTOC)
7:00		0.65	23.7	7.90	505	-98.6	
7:03		0.35	23.3	7.82	503	-105.6	
7:06		0.36	23.2	7.81	498.5	-108.7	
7:10		0.37	23.2	7.80	496.2	-112.3	
7:12		0.37	23.2	7.80	494.8	-114.7	
							2.53
		A QA/QC					
Acceptable Variations*		+/-10%	+/- 0.2 °C	+/-0.05 pH	+/-3%	+/-10mV	Results Acceptable: YES / NO

LOW FLOW: Typical flow rate = 0.2- 0.4 L/min - Max. drawdown = 0.1 m - Well stable when 3 consecutive readings (either 3min apart or 1L apart)

PURGE: Min. sampling volume is 4 casing volumes or dry twice - 1 casing volume (50mm wells) = 2 L/m - 1 casing volume (100mm wells) = 8 L/m

Clarity:	slight turbid	**Sheen:**	YES / (NO)
Colour:	sulfur / swampy brownish	**Odour:**	(YES) / NO

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Primary sample ID:	~~QA~~ MW1	**No.**	**Container / Preservative**
Duplicate sample:	YES / NO ID: QA		Vials, large Amber, heavy metals
Triplicate sample:	YES / NO ID: QC		↓
Rinsate sample:	YES / NO ID:		
Sample on ice:	YES / NO		
Field Filter Method:	0.45µm filter / not filtered		
Water Quality Metre:	~~MS~~ ~~YSI~~ 11E	101629	
Gauging Equipment:			
Pump Type:	Peri		
NOTES:			

*Calculated Well Volume (L) = Water Column Depth (m) * Conversion Factor (from table)*

Casing Diameter	**25mm**	**50mm**	**100mm**	**150mm**	**300mm**
Conversion Factor	**0.98**	**1.96**	**7.85**	**49.1**	**196.3**

*Volume of water in well (L) = ∏ * radius of gravel pack (m)2 * height of water column (m)*

**SA EPA Guidelines (June 2007) as referenced in NEPM*

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Groundwater Sampling Form

PROJECT NAME:	Maycot	**PROJECT NO:**	
SAMPLING DATES:	25/1/20	**SAMPLERS:**	MN
TYPE OF INVESTIGATION:		**PROJECT MANAGER:**	CP
WELL ID:	MW2	**WEATHER:**	

Casing Diameter (mm):	50	**Depth to NAPL (mBTOC):**	
Well Completion:	Flush Mount / Monument	**Depth to SWL (mBTOC):**	2.663
Well Cap Type:	Locking Cap / PVC / Other	**NAPL Thickness (m):**	
Well Condition:	Good / Compromised	**Depth to EoH (mbtoc):**	3.80
Calculated Well Volume (L):	2.23	**Water Column Depth (m):**	1.137
Sampling Method:		**NAPL Visually Verified?**	
Purge Volume	4 Casings Vol. (L)	PID 9.7	
Low Flow	Pump Submersion depth (mBTOC)		

TIME	VOLUME PURGED L	DSSOLVED OXYGEN ☐ % ☐ mgL/ppm	TEMP °C	pH pH units	EC _S/cm	ORP mV	Comments Inc SWL for low flow (mBTOC)
7:30		0.87	24.6	8.02	644	+55.7	dark brown
7:33		0.54	24.4	7.91	633	+47.7	lighter, brown ↓
7:36		0.50	24.6	7.83	625	-14.7	
7:40		0.49	24.6	7.82	621	-14.4	
7:42		0.48	24.6	7.81	620	-16.9	
							2.73
Acceptable Variations*		+/-10%	+/- 0.2 °C	+/-0.05 pH	+/-3%	+/-10mV	Results Acceptable: YES / NO

LOW FLOW: Typical flow rate = 0.2- 0.4 L/min - Max. drawdown = 0.1 m - Well stable when 3 consecutive readings (either 3min apart or 1L apart)

PURGE: Min. sampling volume is 4 casing volumes or dry twice - 1 casing volume (50mm wells) = 2 L/m - 1 casing volume (100mm wells) = 8 L/m

Clarity:	not clear	**Sheen:**	YES / NO
Colour:	brown	**Odour:**	YES / NO sulfurish swampy

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Primary sample ID:		**No.**	**Container / Preservative**
Duplicate sample:	YES / NO ID:		
Triplicate sample:	YES / NO ID:		
Rinsate sample:	YES / NO ID:		
Sample on ice:	YES / NO		
Field Filter Method:	0.45µm filter / not filtered		
Water Quality Metre:			
Gauging Equipment:			
Pump Type:			
NOTES:			

*Calculated Well Volume (L) = Water Column Depth (m) * Conversion Factor (from table)*

Casing Diameter	**25mm**	**50mm**	**100mm**	**150mm**	**300mm**
Conversion Factor	**0.98**	**1.96**	**7.85**	**49.1**	**196.3**

*Volume of water in well (L) = ∏ * radius of gravel pack (m)2 * height of water column (m)*

**SA EPA Guidelines (June 2007) as referenced in NEPM*

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Groundwater Sampling Form

PROJECT NAME:	Marcot	**PROJECT NO:**	
SAMPLING DATES:	25/11/20	**SAMPLERS:**	MV
TYPE OF INVESTIGATION:		**PROJECT MANAGER:**	[illegible]
WELL ID:	MW3	**WEATHER:**	

Casing Diameter (mm):		**Depth to NAPL (mBTOC):**	
Well Completion:	Flush Mount / Monument	**Depth to SWL (mBTOC):**	2.76
Well Cap Type:	Locking Cap / PVC / Other	**NAPL Thickness (m):**	
Well Condition:	Good / Compromised	**Depth to EoH (mbtoc):**	
Calculated Well Volume (L):	4.516	**Water Column Depth (m):**	~~7.08~~ 5.064 2.304
Sampling Method:		**NAPL Visually Verified?**	
Purge Volume	4 Casings Vol. (L)	PID 14.5	
Low Flow	Pump Submersion depth (mBTOC)		

TIME	VOLUME PURGED L	DSSOLVED OXYGEN ☐ % ☑ mgL/ppm	TEMP °C	pH pH units	EC _S/cm	ORP mV	Comments Inc SWL for low flow (mBTOC)
9:15		0.33	23.4	8.15	828	-172.7	
9:19		0.26	23.5	8.14	830	-185.7	
9:21		0.21	23.4	8.14	825	-187.3	
9:25		0.20	23.3	8.12	820	-189.1	
9:29		0.19	23.3	8.12	820	-190.3	
							2.76
Acceptable Variations*		+/-10%	+/- 0.2 °C	+/-0.05 pH	+/-3%	+/-10mV	Results Acceptable: YES / NO

LOW FLOW: Typical flow rate = 0.2- 0.4 L/min - Max. drawdown = 0.1 m - Well stable when 3 consecutive readings (either 3min apart or 1L apart)

PURGE: Min. sampling volume is 4 casing volumes or dry twice - 1 casing volume (50mm wells) = 2 L/m - 1 casing volume (100mm wells) = 8 L/m

Clarity:	Not clear	**Sheen:**	YES / NO
Colour:	brown	**Odour:**	YES / NO fumey / sulfur

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Primary sample ID:		No.	Container / Preservative
Duplicate sample:	YES / NO ID:		
Triplicate sample:	YES / NO ID:		
Rinsate sample:	YES / NO ID:		
Sample on ice:	YES / NO		
Field Filter Method:	0.45µm filter / not filtered		
Water Quality Metre:			
Gauging Equipment:			
Pump Type:			
NOTES:			

*Calculated Well Volume (L) = Water Column Depth (m) * Conversion Factor (from table)*

Casing Diameter	25mm	50mm	100mm	150mm	300mm
Conversion Factor	0.98	1.96	7.85	49.1	196.3

*Volume of water in well (L) = ∏ * radius of gravel pack (m)2 * height of water column (m)*

**SA EPA Guidelines (June 2007) as referenced in NEPM*

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Groundwater Sampling Form

PROJECT NAME:	Mascot	**PROJECT NO:**	58167
SAMPLING DATES:	25/1/20	**SAMPLERS:**	MV
TYPE OF INVESTIGATION:	GME	**PROJECT MANAGER:**	CB
WELL ID:	MW4	**WEATHER:**	sunny

Casing Diameter (mm):	50	**Depth to NAPL (mBTOC):**	
Well Completion:	Flush Mount / Monument	**Depth to SWL (mBTOC):**	2.43
Well Cap Type:	Locking Cap / PVC / Other	**NAPL Thickness (m):**	
Well Condition:	Good / Compromised	**Depth to EoH (mbtoc):**	4.84
Calculated Well Volume (L):	4.72	**Water Column Depth (m):**	2.41
Sampling Method:		**NAPL Visually Verified?**	
Purge Volume	4 Casings Vol. (L)	DTD	9.8
Low Flow	Pump Submersion depth (mBTOC)		

TIME	VOLUME PURGED L	DSSOLVED OXYGEN ☐ % ☑ mgL/ppm	TEMP °C	pH pH units	EC µS/cm	ORP mV	Comments Inc SWL for low flow (mBTOC)
10:10		0.33	26.2	7.45	728	-203.3	
10:13		0.11	26.2	7.52	750	-212.2	
10:16		0.12	26.1	7.50	745	-216.8	
10:20		0.12	26.1	7.48	742	-219.3	
10:23		0.13	26.0	7.49	739	-221.6	
Acceptable Variations*		+/-10%	+/- 0.2 °C	+/-0.05 pH	+/-3%	+/-10mV	Results Acceptable: YES / NO

LOW FLOW: Typical flow rate = 0.2- 0.4 L/min - Max. drawdown = 0.1 m - Well stable when 3 consecutive readings (either 3min apart or 1L apart)

PURGE: Min. sampling volume is 4 casing volumes or dry twice - 1 casing volume (50mm wells) = 2 L/m - 1 casing volume (100mm wells) = 8 L/m

Clarity:	not clear	**Sheen:**	YES / (NO)
Colour:	brown	**Odour:**	(YES) / NO swampy sulfur

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Primary sample ID:	MW 4	No.	Container / Preservative
Duplicate sample:	YES / NO ID:		vials. Amber(large), metals
Triplicate sample:	YES / NO ID:		
Rinsate sample:	YES / NO ID:		
Sample on ice:	YES / NO		
Field Filter Method:	0.45µm filter / not filtered		
Water Quality Metre:			
Gauging Equipment:			
Pump Type:	Peri		
NOTES:			

*Calculated Well Volume (L) = Water Column Depth (m) * Conversion Factor (from table)*

Casing Diameter	25mm	50mm	100mm	150mm	300mm
Conversion Factor	0.98	1.96	7.85	49.1	196.3

*Volume of water in well (L) = ∏ * radius of gravel pack (m)2 * height of water column (m)*

**SA EPA Guidelines (June 2007) as referenced in NEPM*

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Groundwater Sampling Form

PROJECT NAME:	Mascot	**PROJECT NO:**	58167
SAMPLING DATES:	25/1/20	**SAMPLERS:**	MN
TYPE OF INVESTIGATION:	GME	**PROJECT MANAGER:**	CB
WELL ID:	MW5	**WEATHER:**	Sunny

Casing Diameter (mm):	50	**Depth to NAPL (mBTOC):**	
Well Completion:	Flush Mount / Monument	**Depth to SWL (mBTOC):**	2.595
Well Cap Type:	Locking Cap / PVC / Other	**NAPL Thickness (m):**	2.055
Well Condition:	Good / Compromised	**Depth to EoH (mbtoc):**	4.65
Calculated Well Volume (L):	4.0278	**Water Column Depth (m):**	
Sampling Method:		**NAPL Visually Verified?**	
Purge Volume	4 Casings Vol. (L)	PID	11.0
Low Flow	Pump Submersion depth (mBTOC)		

TIME	VOLUME PURGED L	DSSOLVED OXYGEN ☐ % ☐ mgL/ppm	TEMP °C	pH pH units	EC µS/cm	ORP mV	Comments Inc SWL for low flow (mBTOC)
10:45		10.36	24.0	7.20	655	-178.3	
10:48		0.19	23.9	7.39	658	-199.2	
10:52		0.18	23.9	7.38	659	-199.8	
10:55		0.19	23.9	7.38	657	-200.6	
11:00		0.19	23.9	7.39	657	-200.9	
Acceptable Variations*		+/-10%	+/- 0.2 °C	+/-0.05 pH	+/-3%	+/-10mV	Results Acceptable: YES / NO

LOW FLOW: Typical flow rate = 0.2- 0.4 L/min - Max. drawdown = 0.1 m - Well stable when 3 consecutive readings (either 3min apart or 1L apart)

PURGE: Min. sampling volume is 4 casing volumes or dry twice - 1 casing volume (50mm wells) = 2 L/m - 1 casing volume (100mm wells) = 8 L/m

Clarity:	not	**Sheen:**	YES / NO
Colour:	brown	**Odour:**	YES / NO

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Primary sample ID:	MW5	No.	Container / Preservative
Duplicate sample:	YES / NO ID:		
Triplicate sample:	YES / NO ID:		
Rinsate sample:	YES / NO ID:		
Sample on ice:	YES / NO		
Field Filter Method:	0.45µm filter / not filtered		
Water Quality Metre:			
Gauging Equipment:			
Pump Type:			
NOTES:			

*Calculated Well Volume (L) = Water Column Depth (m) * Conversion Factor (from table)*

Casing Diameter	25mm	50mm	100mm	150mm	300mm
Conversion Factor	0.98	1.96	7.85	49.1	196.3

*Volume of water in well (L) = ∏ * radius of gravel pack (m)2 * height of water column (m)*

**SA EPA Guidelines (June 2007) as referenced in NEPM*

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Vapour Purging Form

JBS&G

Project Number:	Date: 22.1.20	Sampler/s:
Site Address:	Sample Method:	Weather:

Field Measurements

Borehole ID	Time	Oxygen	Carbon Dioxide	PID	Methane	LEL		
SV1	11:00:00	17.6	2.4	2.3	0.0	0.0		pump on: 12:23 12:353
	11:00:30	↓	↓	↓	↓	↓		
	11:01:00							
	11:01:30							
SV2	12 25 00	21.2	0	3.2	0.0	0.0		on 1230 off 1300
	25 30	↓	↓	↓	↓	↓		
	26 00							
	26 30							
SV3	12 [illegible] 00	22.1	[illegible] 0	0.0	0.0	0.0	12 3000	on 1240
	[illegible] 30	20.6	[illegible] 0	0.0	0.0	0.0	30 30	off 1310
	[illegible]	↓	↓	↓	↓	↓	3100	
	[illegible]						3130	
SV4	12 40 00	7.3	0	0.1	0.0	0.0		on 1246
	40 30	↓	↓	↓	↓	↓		off 1316
	41 00							
	41 30							

Vapour Purging Form

JBS&G

Project Number:	Date: 24.1.20	Sampler/s:
Site Address:	Sample Method:	Weather:

Field Measurements

Borehole ID	Time	Oxygen	Carbon Dioxide	PID	Methane	LEL	
SV05	8:50:00	21.1	-0.2	0.0	0.0	0.0	Asphalt.
	8:50:30	↓	↓	↓	↓	↓	
	8:51:00						
	8:51:30						
SV06	~~9~~:9:0~~0~~00	21.3	-0.2	3.4	0.0	0.0	~~QSV01~~
	9:01:30						~~QSV01~~A
	9:02:00						Asphalt
	9:02:30						
SV07	9 40 00	21.2	-0.2	8.4	0.0	0.0	
	40 30	↓	↓	↓	↓	↓	
	41 00						
	41 30						
SV08	9 50 00	3.3	-0.2	2.9	0.0	0.0	Asphalt
	50 30	↓	↓	↓	↓	↓	
	51 00						
	51 30						
SV09	10 55 00	1.9	-0.2	0.0	0.0	0.0	Concrete
	55 30	~~2.0~~	~~-0.1~~	↓	~~0.0~~	0.0	~~QSV01~~
	56 00	↓	↓		↓	↓	~~QSV01A~~
	56 30						
		1.0	0.8				
SV10	11 02 00	~~2.0~~	~~0.6~~	3.0	0.1	0.0	Concrete
	02 30	↓	↓	↓	↓	↓	QSV01
	03 00						QSV01A
	03 30						
		12.8					
SV11	11 ~~38~~:00	~~12.0~~	-0.2	~~3~~4.1	0.0	0.0	Concrete.
	~~38~~ 30	↓	↓	↓	↓	↓	QSV02
	39~~1~~ 00						QSV02A
	39~~1~~ 30						

Pump St: ~~9:00~~ 8:54
end: 924

Start: 9:0~~5~~
Stop: 935

Start: 945
Stop: 10~~0~~5

Start 952
Stop 1005

Start ~~11:00~~ ~~11:10~~ 11:15
Stop

Start 1115
Stop 1145

Start 114~~0~~5

pumps on 30 min timer.

Vapour Purging Form

JBS&G

Project Number:	Date: 24.1.20	Sampler/s:
Site Address:	Sample Method:	Weather:

Field Measurements

Borehole ID	Time	Oxygen	Carbon Dioxide	PID	Methane (CH4)	LEL		
SV14	12 15 00	0.5	-0.2	3.2	0.0	0.0	concrete	start: 1220
	15 30	↓	↓	↓	↓	↓		stop: 1240
	16 00							
	16 30							
						290		
* SV13	13 30 00	0.8	3.4	0.5	7.5	0.0?	unable to read.	
	30 30	↓	↓	↓	↓	↓	concrete	start 1335
	31 00						QSV3	stop 1405
	31 30						QSV3A	
*								
SV12	13 40 00	0.1	-0.1	9.6	4.0	91.5	concrete	start 1345
	40 30	↓	↓	↓	↓	↓		stop 1415
	41 00							
	41 30							
SV15	14 30:00	13.0	6.7	0.3	0.0	0.0	Asphalt	start 1435
	30 30	↓	↓	↓	↓	↓		stop 1505
	31 00							
	31 30							
SV16	15:10 00	11.4	0.8	0.6	0.0	0.0	inside unit	start 1513
	10 30	↓	↓	↓	↓	↓		stop 1543
	11 00							
	11 30							
SV17	15 15 00	12.3	7.8	8.3	0.0	0.0	inside unit	start 1517
	15 30	↓	↓	↓	↓	↓		stop 1547
	16 00							
	16 30							
SV18	15 20 00	15.4	4.3	5.4	0.0	0.0	inside unit	start 1523
	20 30	↓	↓	↓	↓	↓		stop 1553
	21 00							
	21 30							

Vapour Purging Form

JBS&G

Project Number:	Date: 24.1.20	Sampler/s: RG
Site Address: 260 Gardeners Rd	Sample Method: sub slab pins	Weather: Overcast

Field Measurements

Borehole ID	Time	Oxygen	Carbon Dioxide	PID	Methane	LEL	
SV19	1530 00	11.2	7.3	3.6	0.0	0.0	inside unit
	30 30	↓	↓	↓	↓	↓	surface stable
	31 00						
	31 30						
SV20	153500	2.7	8.6	1.3	0.0	0.0	inside unit
	35 30	↓	↓	↓	↓	↓	
	36 00						
	36 30						
SV21	15:45 00	16.5	4.5	3.7	0.0	0.0	inside unit
	45 30	↓	↓	↓	↓	↓	
	46 00						
	46 30						

Start 1533
Stop 1603

Start 1540
Stop 1610

Start 15 48
Stop 1618

Appendix L Laboratory Reports and Chain of Custody Documentation

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: **Matthew Linz**

Report **815820-S-V2**
Project name GARDNERS RD
Project ID 61301
Received Date Aug 09, 2021

Client Sample ID			**BH01 0.2-0.3**	**BH02 0.9-1**	**BH03 0.4-0.5**	**BH04 0.2-0.3**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**S21-Au16452**	**S21-Au16454**	**S21-Au16456**	**S21-Au16458**
Date Sampled			**Aug 05, 2021**	**Aug 05, 2021**	**Aug 05, 2021**	**Aug 05, 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	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	90	100	78	94
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

Client Sample ID			BH01 0.2-0.3	BH02 0.9-1	BH03 0.4-0.5	BH04 0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Au16452	S21-Au16454	S21-Au16456	S21-Au16458
Date Sampled			Aug 05, 2021	Aug 05, 2021	Aug 05, 2021	Aug 05, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	87	102	90	91
p-Terphenyl-d14 (surr.)	1	%	81	94	85	88
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	0.09	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	0.09	0.16
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	0.18	0.16
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	0.18	0.16
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	130	INT	150	146
Tetrachloro-m-xylene (surr.)	1	%	86	100	89	91
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Bolstar	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Chlorfenvinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Chlorpyrifos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Coumaphos	2	mg/kg	< 2	< 2	< 2	< 2
Demeton-S	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Demeton-O	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Diazinon	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Dichlorvos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Dimethoate	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2

Client Sample ID			BH01 0.2-0.3	BH02 0.9-1	BH03 0.4-0.5	BH04 0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Au16452	S21-Au16454	S21-Au16456	S21-Au16458
Date Sampled			Aug 05, 2021	Aug 05, 2021	Aug 05, 2021	Aug 05, 2021
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Disulfoton	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
EPN	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Ethion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Ethoprop	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Ethyl parathion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Fenitrothion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Fensulfothion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Fenthion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Malathion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Merphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Methyl parathion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Mevinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Monocrotophos	2	mg/kg	< 2	< 2	< 2	< 2
Naled	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Omethoate	2	mg/kg	< 2	< 2	< 2	< 2
Phorate	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Pirimiphos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Pyrazophos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Ronnel	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Terbufos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Tetrachlorvinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Tokuthion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Trichloronate	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Triphenylphosphate (surr.)	1	%	110	136	116	121
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1232	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aroclor-1242	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aroclor-1248	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aroclor-1254	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aroclor-1260	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PCB*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibutylchlorendate (surr.)	1	%	130	INT	150	146
Tetrachloro-m-xylene (surr.)	1	%	86	100	89	91
Heavy Metals						
Arsenic	2	mg/kg	27	15	14	7.0
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	13	17	14	13
Copper	5	mg/kg	13	17	6.5	17
Lead	5	mg/kg	17	33	29	22
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	6.2	6.8	< 5	12
Zinc	5	mg/kg	44	64	27	66
% Moisture	1	%	11	8.6	19	6.8

Client Sample ID			BH05 0.9-1	BH06 0.2-0.3	BH07 0.4-0.5	BH08 0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Au16460	S21-Au16462	S21-Au16464	S21-Au16466
Date Sampled			Aug 05, 2021	Aug 05, 2021	Aug 05, 2021	Aug 05, 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	< 20	< 20	< 100
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 250
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 250
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 250
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 250
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 250
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 500
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 500
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 500
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	60	94	111	111
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	%	90	92	95	95
p-Terphenyl-d14 (surr.)	1	%	85	88	92	87
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05

Client Sample ID			BH05 0.9-1	BH06 0.2-0.3	BH07 0.4-0.5	BH08 0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Au16460	S21-Au16462	S21-Au16464	S21-Au16466
Date Sampled			Aug 05, 2021	Aug 05, 2021	Aug 05, 2021	Aug 05, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	0.34
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	2.4
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	2.74
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	2.74
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	144	149	INT	127
Tetrachloro-m-xylene (surr.)	1	%	89	91	96	97
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Bolstar	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Chlorfenvinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Chlorpyrifos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Coumaphos	2	mg/kg	< 2	< 2	< 2	< 2
Demeton-S	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Demeton-O	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Diazinon	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Dichlorvos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Dimethoate	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Disulfoton	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
EPN	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Ethion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Ethoprop	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Ethyl parathion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Fenitrothion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Fensulfothion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Fenthion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Malathion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Merphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Methyl parathion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Mevinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Monocrotophos	2	mg/kg	< 2	< 2	< 2	< 2
Naled	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2

Client Sample ID			BH05 0.9-1	BH06 0.2-0.3	BH07 0.4-0.5	BH08 0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Au16460	S21-Au16462	S21-Au16464	S21-Au16466
Date Sampled			Aug 05, 2021	Aug 05, 2021	Aug 05, 2021	Aug 05, 2021
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Omethoate	2	mg/kg	< 2	< 2	< 2	< 2
Phorate	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Pirimiphos-methyl	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Pyrazophos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Ronnel	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Terbufos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Tetrachlorvinphos	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Tokuthion	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Trichloronate	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
Triphenylphosphate (surr.)	1	%	117	123	131	104
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1232	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aroclor-1242	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aroclor-1248	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aroclor-1254	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aroclor-1260	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PCB*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibutylchlorendate (surr.)	1	%	144	149	INT	127
Tetrachloro-m-xylene (surr.)	1	%	89	91	96	97
Heavy Metals						
Arsenic	2	mg/kg	7.9	4.0	8.2	8.8
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	16	6.3	13	13
Copper	5	mg/kg	9.9	8.9	14	21
Lead	5	mg/kg	21	11	28	57
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	< 5	8.5	9.4
Zinc	5	mg/kg	32	20	79	100
% Moisture	1	%	1.1	6.1	9.0	8.3

Client Sample ID			BH09 0.4-0.5	BH12 0.4-0.5	BH12 3-4	BH12 5-6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Au16468	S21-Au16470	S21-Au16471	S21-Au16472
Date Sampled			Aug 05, 2021	Aug 06, 2021	Aug 06, 2021	Aug 06, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	-	-
TRH C10-C14	20	mg/kg	< 20	< 100	-	-
TRH C15-C28	50	mg/kg	< 50	< 250	-	-
TRH C29-C36	50	mg/kg	< 50	< 250	-	-
TRH C10-C36 (Total)	50	mg/kg	< 50	< 250	-	-
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	< 250	-	-

Client Sample ID			BH09 0.4-0.5	BH12 0.4-0.5	BH12 3-4	BH12 5-6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Au16468	S21-Au16470	S21-Au16471	S21-Au16472
Date Sampled			Aug 05, 2021	Aug 06, 2021	Aug 06, 2021	Aug 06, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 250	-	-
TRH >C16-C34	100	mg/kg	< 100	< 500	-	-
TRH >C34-C40	100	mg/kg	< 100	< 500	-	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 500	-	-
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	94	-	-
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	%	105	95	-	-
p-Terphenyl-d14 (surr.)	1	%	105	84	-	-
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	0.06	-	-
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	0.15	-	-
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	-	-

Client Sample ID			BH09 0.4-0.5	BH12 0.4-0.5	BH12 3-4	BH12 5-6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Au16468	S21-Au16470	S21-Au16471	S21-Au16472
Date Sampled			Aug 05, 2021	Aug 06, 2021	Aug 06, 2021	Aug 06, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
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	0.21	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	0.21	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	127	86	-	-
Tetrachloro-m-xylene (surr.)	1	%	101	88	-	-
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.2	< 0.2	-	-
Bolstar	0.2	mg/kg	< 0.2	< 0.2	-	-
Chlorfenvinphos	0.2	mg/kg	< 0.2	< 0.2	-	-
Chlorpyrifos	0.2	mg/kg	< 0.2	< 0.2	-	-
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	< 0.2	-	-
Coumaphos	2	mg/kg	< 2	< 2	-	-
Demeton-S	0.2	mg/kg	< 0.2	< 0.2	-	-
Demeton-O	0.2	mg/kg	< 0.2	< 0.2	-	-
Diazinon	0.2	mg/kg	< 0.2	< 0.2	-	-
Dichlorvos	0.2	mg/kg	< 0.2	< 0.2	-	-
Dimethoate	0.2	mg/kg	< 0.2	< 0.2	-	-
Disulfoton	0.2	mg/kg	< 0.2	< 0.2	-	-
EPN	0.2	mg/kg	< 0.2	< 0.2	-	-
Ethion	0.2	mg/kg	< 0.2	< 0.2	-	-
Ethoprop	0.2	mg/kg	< 0.2	< 0.2	-	-
Ethyl parathion	0.2	mg/kg	< 0.2	< 0.2	-	-
Fenitrothion	0.2	mg/kg	< 0.2	< 0.2	-	-
Fensulfothion	0.2	mg/kg	< 0.2	< 0.2	-	-
Fenthion	0.2	mg/kg	< 0.2	< 0.2	-	-
Malathion	0.2	mg/kg	< 0.2	< 0.2	-	-
Merphos	0.2	mg/kg	< 0.2	< 0.2	-	-
Methyl parathion	0.2	mg/kg	< 0.2	< 0.2	-	-
Mevinphos	0.2	mg/kg	< 0.2	< 0.2	-	-
Monocrotophos	2	mg/kg	< 2	< 2	-	-
Naled	0.2	mg/kg	< 0.2	< 0.2	-	-
Omethoate	2	mg/kg	< 2	< 2	-	-
Phorate	0.2	mg/kg	< 0.2	< 0.2	-	-
Pirimiphos-methyl	0.2	mg/kg	< 0.2	< 0.2	-	-
Pyrazophos	0.2	mg/kg	< 0.2	< 0.2	-	-
Ronnel	0.2	mg/kg	< 0.2	< 0.2	-	-
Terbufos	0.2	mg/kg	< 0.2	< 0.2	-	-
Tetrachlorvinphos	0.2	mg/kg	< 0.2	< 0.2	-	-
Tokuthion	0.2	mg/kg	< 0.2	< 0.2	-	-
Trichloronate	0.2	mg/kg	< 0.2	< 0.2	-	-
Triphenylphosphate (surr.)	1	%	125	77	-	-

Client Sample ID			BH09 0.4-0.5	BH12 0.4-0.5	BH12 3-4	BH12 5-6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Au16468	S21-Au16470	S21-Au16471	S21-Au16472
Date Sampled			Aug 05, 2021	Aug 06, 2021	Aug 06, 2021	Aug 06, 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	%	127	86	-	-
Tetrachloro-m-xylene (surr.)	1	%	101	88	-	-
Heavy Metals						
Arsenic	2	mg/kg	5.8	2.3	3.3	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	9.0	17	8.5	< 5
Copper	5	mg/kg	13	46	< 5	< 5
Lead	5	mg/kg	21	13	6.0	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	6.1	< 5	< 5
Zinc	5	mg/kg	33	38	< 5	< 5
% Moisture	1	%	11	12	68	6.9
SPOCAS Suite						
pH-KCL	0.1	pH Units	-	-	4.9	5.7
pH-OX	0.1	pH Units	-	-	3.4	4.2
Acid trail - Titratable Actual Acidity	2	mol H+/t	-	-	170	3.0
Acid trail - Titratable Peroxide Acidity	2	mol H+/t	-	-	1600	5.0
Acid trail - Titratable Sulfidic Acidity	2	mol H+/t	-	-	1500	< 2
sulfidic - TAA equiv. S% pyrite	0.003	% pyrite S	-	-	0.28	0.010
sulfidic - TPA equiv. S% pyrite	0.02	% pyrite S	-	-	2.6	< 0.02
sulfidic - TSA equiv. S% pyrite	0.02	% pyrite S	-	-	2.3	< 0.02
Sulfur - KCl Extractable	0.02	% S	-	-	< 0.02	< 0.02
Sulfur - Peroxide	0.02	% S	-	-	0.52	< 0.02
Sulfur - Peroxide Oxidisable Sulfur	0.02	% S	-	-	0.52	< 0.02
acidity - Peroxide Oxidisable Sulfur	10	mol H+/t	-	-	320	< 10
HCl Extractable Sulfur Correction Factor	1	factor	-	-	2.0	2.0
HCl Extractable Sulfur	0.02	% S	-	-	N/A	N/A
Net Acid soluble sulfur	0.02	% S	-	-	N/A	N/A
Net Acid soluble sulfur - acidity units	10	mol H+/t	-	-	N/A	N/A
Net Acid soluble sulfur - equivalent S% pyrite[S02]	0.02	% S	-	-	N/A	N/A
Calcium - KCl Extractable	0.02	% Ca	-	-	0.23	< 0.02
Calcium - Peroxide	0.02	% Ca	-	-	0.22	< 0.02
Acid Reacted Calcium	0.02	% Ca	-	-	< 0.02	< 0.02
acidity - Acid Reacted Calcium	10	mol H+/t	-	-	< 10	< 10
sulfidic - Acid Reacted Ca equiv. S% pyrite	0.02	% S	-	-	< 0.02	< 0.02
Magnesium - KCl Extractable	0.02	% Mg	-	-	0.02	< 0.02
Magnesium - Peroxide	0.02	% Mg	-	-	0.02	< 0.02
Acid Reacted Magnesium	0.02	% Mg	-	-	< 0.02	< 0.02
acidity - Acid Reacted Magnesium	10	mol H+/t	-	-	< 10	< 10
sulfidic - Acid Reacted Mg equiv. S% pyrite	0.02	% S	-	-	< 0.02	< 0.02

Client Sample ID			BH09 0.4-0.5	BH12 0.4-0.5	BH12 3-4	BH12 5-6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Au16468	S21-Au16470	S21-Au16471	S21-Au16472
Date Sampled			Aug 05, 2021	Aug 06, 2021	Aug 06, 2021	Aug 06, 2021
Test/Reference	LOR	Unit				
SPOCAS Suite						
Acid Neutralising Capacity (ANCE)	0.02	% CaCO3	-	-	N/A	N/A
Acid Neutralising Capacity - Acidity units (a-ANCE)	10	mol H+/t	-	-	n/a	n/a
Acid Neutralising Capacity - equivalent S% pyrite(s-ANCE)	0.02	% S	-	-	N/A	N/A
ANC Fineness Factor		factor	-	-	1.5	1.5
SPOCAS - Net Acidity (Sulfur Units)	0.02	% S	-	-	0.80	< 0.02
SPOCAS - Net Acidity (Acidity Units)	10	mol H+/t	-	-	500	< 10
SPOCAS - Liming rate	1	kg CaCO3/t	-	-	37	< 1
Extraneous Material						
<2mm Fraction	0.005	g	-	-	46	270
>2mm Fraction	0.005	g	-	-	< 0.005	< 0.005
Analysed Material	0.1	%	-	-	100	100
Extraneous Material	0.1	%	-	-	< 0.1	< 0.1

Client Sample ID			BH13 0.2-1	BH13 0.9-1	BH13 1-2	BH14 0.2-1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Au16473	S21-Au16474	S21-Au16475	S21-Au16476
Date Sampled			Aug 06, 2021	Aug 06, 2021	Aug 06, 2021	Aug 06, 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	%	-	92	-	-
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	-	-

Client Sample ID			BH13 0.2-1	BH13 0.9-1	BH13 1-2	BH14 0.2-1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Au16473	S21-Au16474	S21-Au16475	S21-Au16476
Date Sampled			Aug 06, 2021	Aug 06, 2021	Aug 06, 2021	Aug 06, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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	%	-	94	-	-
p-Terphenyl-d14 (surr.)	1	%	-	91	-	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	-
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	-
a-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	%	-	107	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	91	-	-
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	-	< 0.2	-	-
Bolstar	0.2	mg/kg	-	< 0.2	-	-
Chlorfenvinphos	0.2	mg/kg	-	< 0.2	-	-
Chlorpyrifos	0.2	mg/kg	-	< 0.2	-	-

Client Sample ID			BH13 0.2-1	BH13 0.9-1	BH13 1-2	BH14 0.2-1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Au16473	S21-Au16474	S21-Au16475	S21-Au16476
Date Sampled			Aug 06, 2021	Aug 06, 2021	Aug 06, 2021	Aug 06, 2021
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Chlorpyrifos-methyl	0.2	mg/kg	-	< 0.2	-	-
Coumaphos	2	mg/kg	-	< 2	-	-
Demeton-S	0.2	mg/kg	-	< 0.2	-	-
Demeton-O	0.2	mg/kg	-	< 0.2	-	-
Diazinon	0.2	mg/kg	-	< 0.2	-	-
Dichlorvos	0.2	mg/kg	-	< 0.2	-	-
Dimethoate	0.2	mg/kg	-	< 0.2	-	-
Disulfoton	0.2	mg/kg	-	< 0.2	-	-
EPN	0.2	mg/kg	-	< 0.2	-	-
Ethion	0.2	mg/kg	-	< 0.2	-	-
Ethoprop	0.2	mg/kg	-	< 0.2	-	-
Ethyl parathion	0.2	mg/kg	-	< 0.2	-	-
Fenitrothion	0.2	mg/kg	-	< 0.2	-	-
Fensulfothion	0.2	mg/kg	-	< 0.2	-	-
Fenthion	0.2	mg/kg	-	< 0.2	-	-
Malathion	0.2	mg/kg	-	< 0.2	-	-
Merphos	0.2	mg/kg	-	< 0.2	-	-
Methyl parathion	0.2	mg/kg	-	< 0.2	-	-
Mevinphos	0.2	mg/kg	-	< 0.2	-	-
Monocrotophos	2	mg/kg	-	< 2	-	-
Naled	0.2	mg/kg	-	< 0.2	-	-
Omethoate	2	mg/kg	-	< 2	-	-
Phorate	0.2	mg/kg	-	< 0.2	-	-
Pirimiphos-methyl	0.2	mg/kg	-	< 0.2	-	-
Pyrazophos	0.2	mg/kg	-	< 0.2	-	-
Ronnel	0.2	mg/kg	-	< 0.2	-	-
Terbufos	0.2	mg/kg	-	< 0.2	-	-
Tetrachlorvinphos	0.2	mg/kg	-	< 0.2	-	-
Tokuthion	0.2	mg/kg	-	< 0.2	-	-
Trichloronate	0.2	mg/kg	-	< 0.2	-	-
Triphenylphosphate (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	%	-	107	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	91	-	-
Heavy Metals						
Arsenic	2	mg/kg	-	2.9	-	-
Cadmium	0.4	mg/kg	-	< 0.4	-	-
Chromium	5	mg/kg	-	7.9	-	-
Copper	5	mg/kg	-	< 5	-	-
Lead	5	mg/kg	-	< 5	-	-
Mercury	0.1	mg/kg	-	< 0.1	-	-

Client Sample ID			BH13 0.2-1	BH13 0.9-1	BH13 1-2	BH14 0.2-1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Au16473	S21-Au16474	S21-Au16475	S21-Au16476
Date Sampled			Aug 06, 2021	Aug 06, 2021	Aug 06, 2021	Aug 06, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Nickel	5	mg/kg	-	< 5	-	-
Zinc	5	mg/kg	-	5.6	-	-
% Moisture	1	%	16	4.2	24	18
SPOCAS Suite						
pH-KCL	0.1	pH Units	11	-	6.7	11
pH-OX	0.1	pH Units	9.5	-	7.2	10
Acid trail - Titratable Actual Acidity	2	mol H+/t	< 2	-	< 2	< 2
Acid trail - Titratable Peroxide Acidity	2	mol H+/t	< 2	-	< 2	< 2
Acid trail - Titratable Sulfidic Acidity	2	mol H+/t	< 2	-	< 2	< 2
sulfidic - TAA equiv. S% pyrite	0.003	% pyrite S	< 0.003	-	< 0.003	< 0.003
sulfidic - TPA equiv. S% pyrite	0.02	% pyrite S	< 0.02	-	< 0.02	< 0.02
sulfidic - TSA equiv. S% pyrite	0.02	% pyrite S	< 0.02	-	< 0.02	< 0.02
Sulfur - KCl Extractable	0.02	% S	0.05	-	< 0.02	0.07
Sulfur - Peroxide	0.02	% S	0.10	-	0.02	0.11
Sulfur - Peroxide Oxidisable Sulfur	0.02	% S	0.06	-	0.03	0.04
acidity - Peroxide Oxidisable Sulfur	10	mol H+/t	36	-	15	23
HCl Extractable Sulfur Correction Factor	1	factor	2.0	-	2.0	2.0
HCl Extractable Sulfur	0.02	% S	N/A	-	N/A	N/A
Net Acid soluble sulfur	0.02	% S	N/A	-	N/A	N/A
Net Acid soluble sulfur - acidity units	10	mol H+/t	N/A	-	N/A	N/A
Net Acid soluble sulfur - equivalent S% pyrite[S02]	0.02	% S	N/A	-	N/A	N/A
Calcium - KCl Extractable	0.02	% Ca	0.49	-	0.12	0.64
Calcium - Peroxide	0.02	% Ca	4.3	-	0.14	4.8
Acid Reacted Calcium	0.02	% Ca	3.8	-	< 0.02	4.2
acidity - Acid Reacted Calcium	10	mol H+/t	1900	-	< 10	2100
sulfidic - Acid Reacted Ca equiv. S% pyrite	0.02	% S	3.1	-	< 0.02	3.3
Magnesium - KCl Extractable	0.02	% Mg	< 0.02	-	< 0.02	< 0.02
Magnesium - Peroxide	0.02	% Mg	0.06	-	< 0.02	0.06
Acid Reacted Magnesium	0.02	% Mg	0.06	-	< 0.02	0.06
acidity - Acid Reacted Magnesium	10	mol H+/t	47	-	< 10	52
sulfidic - Acid Reacted Mg equiv. S% pyrite	0.02	% S	0.08	-	< 0.02	0.08
Acid Neutralising Capacity (ANCE)	0.02	% CaCO3	11	-	0.34	12
Acid Neutralising Capacity - Acidity units (a-ANCE)	10	mol H+/t	2200	-	67	2300
Acid Neutralising Capacity - equivalent S% pyrite(s-ANCE)	0.02	% S	3.5	-	0.11	3.7
ANC Fineness Factor		factor	1.5	-	1.5	1.5
SPOCAS - Net Acidity (Sulfur Units)	0.02	% S	< 0.02	-	< 0.02	< 0.02
SPOCAS - Net Acidity (Acidity Units)	10	mol H+/t	< 10	-	< 10	< 10
SPOCAS - Liming rate	1	kg CaCO3/t	< 1	-	< 1	< 1
Extraneous Material						
<2mm Fraction	0.005	g	38	-	79	69
>2mm Fraction	0.005	g	74	-	2.1	160
Analysed Material	0.1	%	34	-	97	30
Extraneous Material	0.1	%	66	-	2.6	70

Client Sample ID			BH14 1-2	BH16 0.9-1	BH17 0.2-1	BH17 0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Au16477	S21-Au16479	S21-Au16480	S21-Au16481
Date Sampled			Aug 06, 2021	Aug 06, 2021	Aug 06, 2021	Aug 06, 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	%	74	106	-	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	%	87	112	-	83
p-Terphenyl-d14 (surr.)	1	%	88	144	-	99
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

Client Sample ID			BH14 1-2	BH16 0.9-1	BH17 0.2-1	BH17 0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Au16477	S21-Au16479	S21-Au16480	S21-Au16481
Date Sampled			Aug 06, 2021	Aug 06, 2021	Aug 06, 2021	Aug 06, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
a-HCH	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
d-HCH	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-HCH (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	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
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	< 0.1	< 0.1	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Dibutylchlorendate (surr.)	1	%	106	112	-	66
Tetrachloro-m-xylene (surr.)	1	%	86	138	-	95
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Bolstar	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Chlorfenvinphos	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Chlorpyrifos	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Coumaphos	2	mg/kg	< 2	< 2	-	< 2
Demeton-S	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Demeton-O	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Diazinon	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Dichlorvos	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Dimethoate	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Disulfoton	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
EPN	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Ethion	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Ethoprop	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Ethyl parathion	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Fenitrothion	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Fensulfothion	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Fenthion	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Malathion	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Merphos	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Methyl parathion	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Mevinphos	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Monocrotophos	2	mg/kg	< 2	< 2	-	< 2
Naled	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2

Client Sample ID			BH14 1-2	BH16 0.9-1	BH17 0.2-1	BH17 0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Au16477	S21-Au16479	S21-Au16480	S21-Au16481
Date Sampled			Aug 06, 2021	Aug 06, 2021	Aug 06, 2021	Aug 06, 2021
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Omethoate	2	mg/kg	< 2	< 2	-	< 2
Phorate	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Pirimiphos-methyl	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Pyrazophos	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Ronnel	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Terbufos	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Tetrachlorvinphos	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Tokuthion	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Trichloronate	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Triphenylphosphate (surr.)	1	%	104	INT	-	114
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	%	106	112	-	66
Tetrachloro-m-xylene (surr.)	1	%	86	138	-	95
Heavy Metals						
Arsenic	2	mg/kg	5.1	2.8	-	8.0
Cadmium	0.4	mg/kg	< 0.4	< 0.4	-	< 0.4
Chromium	5	mg/kg	< 5	12	-	12
Copper	5	mg/kg	10	31	-	13
Lead	5	mg/kg	10	< 5	-	17
Mercury	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Nickel	5	mg/kg	< 5	5.4	-	5.1
Zinc	5	mg/kg	11	23	-	38
% Moisture	1	%	17	4.1	11	8.7
SPOCAS Suite						
pH-KCL	0.1	pH Units	8.0	-	5.5	-
pH-OX	0.1	pH Units	6.8	-	5.4	-
Acid trail - Titratable Actual Acidity	2	mol H+/t	< 2	-	6.0	-
Acid trail - Titratable Peroxide Acidity	2	mol H+/t	< 2	-	2.0	-
Acid trail - Titratable Sulfidic Acidity	2	mol H+/t	< 2	-	< 2	-
sulfidic - TAA equiv. S% pyrite	0.003	% pyrite S	< 0.003	-	0.010	-
sulfidic - TPA equiv. S% pyrite	0.02	% pyrite S	< 0.02	-	< 0.02	-
sulfidic - TSA equiv. S% pyrite	0.02	% pyrite S	< 0.02	-	< 0.02	-
Sulfur - KCl Extractable	0.02	% S	< 0.02	-	< 0.02	-
Sulfur - Peroxide	0.02	% S	0.16	-	< 0.02	-
Sulfur - Peroxide Oxidisable Sulfur	0.02	% S	0.16	-	< 0.02	-
acidity - Peroxide Oxidisable Sulfur	10	mol H+/t	97	-	< 10	-
HCl Extractable Sulfur Correction Factor	1	factor	2.0	-	2.0	-
HCl Extractable Sulfur	0.02	% S	N/A	-	N/A	-
Net Acid soluble sulfur	0.02	% S	N/A	-	N/A	-
Net Acid soluble sulfur - acidity units	10	mol H+/t	N/A	-	N/A	-

Client Sample ID			BH14 1-2	BH16 0.9-1	BH17 0.2-1	BH17 0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Au16477	S21-Au16479	S21-Au16480	S21-Au16481
Date Sampled			Aug 06, 2021	Aug 06, 2021	Aug 06, 2021	Aug 06, 2021
Test/Reference	LOR	Unit				
SPOCAS Suite						
Net Acid soluble sulfur - equivalent S% pyrite[S02]	0.02	% S	N/A	-	N/A	-
Calcium - KCl Extractable	0.02	% Ca	0.22	-	0.06	-
Calcium - Peroxide	0.02	% Ca	0.33	-	0.07	-
Acid Reacted Calcium	0.02	% Ca	0.11	-	< 0.02	-
acidity - Acid Reacted Calcium	10	mol H+/t	53	-	< 10	-
sulfidic - Acid Reacted Ca equiv. S% pyrite	0.02	% S	0.09	-	< 0.02	-
Magnesium - KCl Extractable	0.02	% Mg	< 0.02	-	< 0.02	-
Magnesium - Peroxide	0.02	% Mg	0.02	-	< 0.02	-
Acid Reacted Magnesium	0.02	% Mg	0.02	-	< 0.02	-
acidity - Acid Reacted Magnesium	10	mol H+/t	17	-	< 10	-
sulfidic - Acid Reacted Mg equiv. S% pyrite	0.02	% S	0.03	-	< 0.02	-
Acid Neutralising Capacity (ANCE)	0.02	% CaCO3	0.36	-	N/A	-
Acid Neutralising Capacity - Acidity units (a-ANCE)	10	mol H+/t	72	-	n/a	-
Acid Neutralising Capacity - equivalent S% pyrite(s-ANCE)	0.02	% S	0.12	-	N/A	-
ANC Fineness Factor		factor	1.5	-	1.5	-
SPOCAS - Net Acidity (Sulfur Units)	0.02	% S	< 0.02	-	< 0.02	-
SPOCAS - Net Acidity (Acidity Units)	10	mol H+/t	< 10	-	< 10	-
SPOCAS - Liming rate	1	kg CaCO3/t	< 1	-	< 1	-
Extraneous Material						
<2mm Fraction	0.005	g	140	-	160	-
>2mm Fraction	0.005	g	18	-	4.9	-
Analysed Material	0.1	%	88	-	97	-
Extraneous Material	0.1	%	12	-	3.0	-

Client Sample ID			BH17 3-4	BH18 0.4-0.5	BH18 1-2	BH19 0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Au16482	S21-Au16484	S21-Au16485	S21-Au16487
Date Sampled			Aug 06, 2021	Aug 06, 2021	Aug 06, 2021	Aug 06, 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			BH17 3-4	BH18 0.4-0.5	BH18 1-2	BH19 0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Au16482	S21-Au16484	S21-Au16485	S21-Au16487
Date Sampled			Aug 06, 2021	Aug 06, 2021	Aug 06, 2021	Aug 06, 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	%	-	86	-	88
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	%	-	89	-	94
p-Terphenyl-d14 (surr.)	1	%	-	97	-	101
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

Client Sample ID			BH17 3-4	BH18 0.4-0.5	BH18 1-2	BH19 0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Au16482	S21-Au16484	S21-Au16485	S21-Au16487
Date Sampled			Aug 06, 2021	Aug 06, 2021	Aug 06, 2021	Aug 06, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
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	%	-	52	-	61
Tetrachloro-m-xylene (surr.)	1	%	-	95	-	98
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	-	< 0.2	-	< 0.2
Bolstar	0.2	mg/kg	-	< 0.2	-	< 0.2
Chlorfenvinphos	0.2	mg/kg	-	< 0.2	-	< 0.2
Chlorpyrifos	0.2	mg/kg	-	< 0.2	-	< 0.2
Chlorpyrifos-methyl	0.2	mg/kg	-	< 0.2	-	< 0.2
Coumaphos	2	mg/kg	-	< 2	-	< 2
Demeton-S	0.2	mg/kg	-	< 0.2	-	< 0.2
Demeton-O	0.2	mg/kg	-	< 0.2	-	< 0.2
Diazinon	0.2	mg/kg	-	< 0.2	-	< 0.2
Dichlorvos	0.2	mg/kg	-	< 0.2	-	< 0.2
Dimethoate	0.2	mg/kg	-	< 0.2	-	< 0.2
Disulfoton	0.2	mg/kg	-	< 0.2	-	< 0.2
EPN	0.2	mg/kg	-	< 0.2	-	< 0.2
Ethion	0.2	mg/kg	-	< 0.2	-	< 0.2
Ethoprop	0.2	mg/kg	-	< 0.2	-	< 0.2
Ethyl parathion	0.2	mg/kg	-	< 0.2	-	< 0.2
Fenitrothion	0.2	mg/kg	-	< 0.2	-	< 0.2
Fensulfothion	0.2	mg/kg	-	< 0.2	-	< 0.2
Fenthion	0.2	mg/kg	-	< 0.2	-	< 0.2
Malathion	0.2	mg/kg	-	< 0.2	-	< 0.2
Merphos	0.2	mg/kg	-	< 0.2	-	< 0.2
Methyl parathion	0.2	mg/kg	-	< 0.2	-	< 0.2
Mevinphos	0.2	mg/kg	-	< 0.2	-	< 0.2
Monocrotophos	2	mg/kg	-	< 2	-	< 2
Naled	0.2	mg/kg	-	< 0.2	-	< 0.2
Omethoate	2	mg/kg	-	< 2	-	< 2
Phorate	0.2	mg/kg	-	< 0.2	-	< 0.2
Pirimiphos-methyl	0.2	mg/kg	-	< 0.2	-	< 0.2
Pyrazophos	0.2	mg/kg	-	< 0.2	-	< 0.2
Ronnel	0.2	mg/kg	-	< 0.2	-	< 0.2
Terbufos	0.2	mg/kg	-	< 0.2	-	< 0.2
Tetrachlorvinphos	0.2	mg/kg	-	< 0.2	-	< 0.2
Tokuthion	0.2	mg/kg	-	< 0.2	-	< 0.2
Trichloronate	0.2	mg/kg	-	< 0.2	-	< 0.2
Triphenylphosphate (surr.)	1	%	-	105	-	113

Client Sample ID			BH17 3-4	BH18 0.4-0.5	BH18 1-2	BH19 0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Au16482	S21-Au16484	S21-Au16485	S21-Au16487
Date Sampled			Aug 06, 2021	Aug 06, 2021	Aug 06, 2021	Aug 06, 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	%	-	52	-	61
Tetrachloro-m-xylene (surr.)	1	%	-	95	-	98
Heavy Metals						
Arsenic	2	mg/kg	2.2	8.0	-	6.1
Cadmium	0.4	mg/kg	< 0.4	< 0.4	-	< 0.4
Chromium	5	mg/kg	< 5	13	-	9.9
Copper	5	mg/kg	< 5	20	-	8.5
Lead	5	mg/kg	< 5	22	-	15
Mercury	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Nickel	5	mg/kg	< 5	6.8	-	11
Zinc	5	mg/kg	< 5	49	-	49
% Moisture	1	%	18	11	6.8	7.4
SPOCAS Suite						
pH-KCL	0.1	pH Units	5.8	-	6.0	-
pH-OX	0.1	pH Units	3.4	-	7.2	-
Acid trail - Titratable Actual Acidity	2	mol H+/t	3.0	-	3.0	-
Acid trail - Titratable Peroxide Acidity	2	mol H+/t	82	-	< 2	-
Acid trail - Titratable Sulfidic Acidity	2	mol H+/t	79	-	< 2	-
sulfidic - TAA equiv. S% pyrite	0.003	% pyrite S	< 0.003	-	< 0.003	-
sulfidic - TPA equiv. S% pyrite	0.02	% pyrite S	0.13	-	< 0.02	-
sulfidic - TSA equiv. S% pyrite	0.02	% pyrite S	0.13	-	< 0.02	-
Sulfur - KCl Extractable	0.02	% S	< 0.02	-	< 0.02	-
Sulfur - Peroxide	0.02	% S	0.13	-	< 0.02	-
Sulfur - Peroxide Oxidisable Sulfur	0.02	% S	0.13	-	< 0.02	-
acidity - Peroxide Oxidisable Sulfur	10	mol H+/t	81	-	< 10	-
HCl Extractable Sulfur Correction Factor	1	factor	2.0	-	2.0	-
HCl Extractable Sulfur	0.02	% S	N/A	-	N/A	-
Net Acid soluble sulfur	0.02	% S	N/A	-	N/A	-
Net Acid soluble sulfur - acidity units	10	mol H+/t	N/A	-	N/A	-
Net Acid soluble sulfur - equivalent S% pyrite[S02]	0.02	% S	N/A	-	N/A	-
Calcium - KCl Extractable	0.02	% Ca	0.03	-	0.07	-
Calcium - Peroxide	0.02	% Ca	0.03	-	0.08	-
Acid Reacted Calcium	0.02	% Ca	< 0.02	-	< 0.02	-
acidity - Acid Reacted Calcium	10	mol H+/t	< 10	-	< 10	-
sulfidic - Acid Reacted Ca equiv. S% pyrite	0.02	% S	< 0.02	-	< 0.02	-
Magnesium - KCl Extractable	0.02	% Mg	< 0.02	-	< 0.02	-
Magnesium - Peroxide	0.02	% Mg	< 0.02	-	< 0.02	-
Acid Reacted Magnesium	0.02	% Mg	< 0.02	-	< 0.02	-
acidity - Acid Reacted Magnesium	10	mol H+/t	< 10	-	< 10	-
sulfidic - Acid Reacted Mg equiv. S% pyrite	0.02	% S	< 0.02	-	< 0.02	-

Client Sample ID			BH17 3-4	BH18 0.4-0.5	BH18 1-2	BH19 0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Au16482	S21-Au16484	S21-Au16485	S21-Au16487
Date Sampled			Aug 06, 2021	Aug 06, 2021	Aug 06, 2021	Aug 06, 2021
Test/Reference	LOR	Unit				
SPOCAS Suite						
Acid Neutralising Capacity (ANCE)	0.02	% CaCO3	N/A	-	0.22	-
Acid Neutralising Capacity - Acidity units (a-ANCE)	10	mol H+/t	n/a	-	43	-
Acid Neutralising Capacity - equivalent S% pyrite(s-ANCE)	0.02	% S	N/A	-	0.07	-
ANC Fineness Factor		factor	1.5	-	1.5	-
SPOCAS - Net Acidity (Sulfur Units)	0.02	% S	0.13	-	< 0.02	-
SPOCAS - Net Acidity (Acidity Units)	10	mol H+/t	83	-	< 10	-
SPOCAS - Liming rate	1	kg CaCO3/t	6.0	-	< 1	-
Extraneous Material						
<2mm Fraction	0.005	g	320	-	170	-
>2mm Fraction	0.005	g	< 0.005	-	2.1	-
Analysed Material	0.1	%	100	-	99	-
Extraneous Material	0.1	%	< 0.1	-	1.2	-

Client Sample ID			BH19 1-1.5	BH19 3.2-4	BH20 0.2-1	BH20 0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Au16488	S21-Au16489	S21-Au16490	S21-Au16491
Date Sampled			Aug 06, 2021	Aug 06, 2021	Aug 06, 2021	Aug 06, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	-	-	< 20
TRH C10-C14	20	mg/kg	-	-	-	22
TRH C15-C28	50	mg/kg	-	-	-	80
TRH C29-C36	50	mg/kg	-	-	-	< 50
TRH C10-C36 (Total)	50	mg/kg	-	-	-	102
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	%	-	-	-	86
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

Client Sample ID			BH19 1-1.5	BH19 3.2-4	BH20 0.2-1	BH20 0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Au16488	S21-Au16489	S21-Au16490	S21-Au16491
Date Sampled			Aug 06, 2021	Aug 06, 2021	Aug 06, 2021	Aug 06, 2021
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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	%	-	-	-	93
p-Terphenyl-d14 (surr.)	1	%	-	-	-	97
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	%	-	-	-	67
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	96
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	-	-	-	< 0.2
Bolstar	0.2	mg/kg	-	-	-	< 0.2
Chlorfenvinphos	0.2	mg/kg	-	-	-	< 0.2
Chlorpyrifos	0.2	mg/kg	-	-	-	< 0.2

Client Sample ID			BH19 1-1.5	BH19 3.2-4	BH20 0.2-1	BH20 0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Au16488	S21-Au16489	S21-Au16490	S21-Au16491
Date Sampled			Aug 06, 2021	Aug 06, 2021	Aug 06, 2021	Aug 06, 2021
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Chlorpyrifos-methyl	0.2	mg/kg	-	-	-	< 0.2
Coumaphos	2	mg/kg	-	-	-	< 2
Demeton-S	0.2	mg/kg	-	-	-	< 0.2
Demeton-O	0.2	mg/kg	-	-	-	< 0.2
Diazinon	0.2	mg/kg	-	-	-	< 0.2
Dichlorvos	0.2	mg/kg	-	-	-	< 0.2
Dimethoate	0.2	mg/kg	-	-	-	< 0.2
Disulfoton	0.2	mg/kg	-	-	-	< 0.2
EPN	0.2	mg/kg	-	-	-	< 0.2
Ethion	0.2	mg/kg	-	-	-	< 0.2
Ethoprop	0.2	mg/kg	-	-	-	< 0.2
Ethyl parathion	0.2	mg/kg	-	-	-	< 0.2
Fenitrothion	0.2	mg/kg	-	-	-	< 0.2
Fensulfothion	0.2	mg/kg	-	-	-	< 0.2
Fenthion	0.2	mg/kg	-	-	-	< 0.2
Malathion	0.2	mg/kg	-	-	-	< 0.2
Merphos	0.2	mg/kg	-	-	-	< 0.2
Methyl parathion	0.2	mg/kg	-	-	-	< 0.2
Mevinphos	0.2	mg/kg	-	-	-	< 0.2
Monocrotophos	2	mg/kg	-	-	-	< 2
Naled	0.2	mg/kg	-	-	-	< 0.2
Omethoate	2	mg/kg	-	-	-	< 2
Phorate	0.2	mg/kg	-	-	-	< 0.2
Pirimiphos-methyl	0.2	mg/kg	-	-	-	< 0.2
Pyrazophos	0.2	mg/kg	-	-	-	< 0.2
Ronnel	0.2	mg/kg	-	-	-	< 0.2
Terbufos	0.2	mg/kg	-	-	-	< 0.2
Tetrachlorvinphos	0.2	mg/kg	-	-	-	< 0.2
Tokuthion	0.2	mg/kg	-	-	-	< 0.2
Trichloronate	0.2	mg/kg	-	-	-	< 0.2
Triphenylphosphate (surr.)	1	%	-	-	-	116
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	%	-	-	-	96
Heavy Metals						
Arsenic	2	mg/kg	-	-	-	6.8
Cadmium	0.4	mg/kg	-	-	-	< 0.4
Chromium	5	mg/kg	-	-	-	12
Copper	5	mg/kg	-	-	-	7.4
Lead	5	mg/kg	-	-	-	16
Mercury	0.1	mg/kg	-	-	-	< 0.1

Client Sample ID			BH19 1-1.5	BH19 3.2-4	BH20 0.2-1	BH20 0.4-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Au16488	S21-Au16489	S21-Au16490	S21-Au16491
Date Sampled			Aug 06, 2021	Aug 06, 2021	Aug 06, 2021	Aug 06, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Nickel	5	mg/kg	-	-	-	6.6
Zinc	5	mg/kg	-	-	-	40
% Moisture	1	%	14	42	18	9.4
SPOCAS Suite						
pH-KCL	0.1	pH Units	7.7	5.1	7.4	-
pH-OX	0.1	pH Units	7.3	3.7	8.0	-
Acid trail - Titratable Actual Acidity	2	mol H+/t	< 2	38	< 2	-
Acid trail - Titratable Peroxide Acidity	2	mol H+/t	< 2	210	< 2	-
Acid trail - Titratable Sulfidic Acidity	2	mol H+/t	< 2	170	< 2	-
sulfidic - TAA equiv. S% pyrite	0.003	% pyrite S	< 0.003	0.060	< 0.003	-
sulfidic - TPA equiv. S% pyrite	0.02	% pyrite S	< 0.02	0.33	< 0.02	-
sulfidic - TSA equiv. S% pyrite	0.02	% pyrite S	< 0.02	0.27	< 0.02	-
Sulfur - KCl Extractable	0.02	% S	< 0.02	< 0.02	< 0.02	-
Sulfur - Peroxide	0.02	% S	0.03	0.09	< 0.02	-
Sulfur - Peroxide Oxidisable Sulfur	0.02	% S	0.03	0.10	< 0.02	-
acidity - Peroxide Oxidisable Sulfur	10	mol H+/t	21	59	< 10	-
HCl Extractable Sulfur Correction Factor	1	factor	2.0	2.0	2.0	-
HCl Extractable Sulfur	0.02	% S	N/A	N/A	N/A	-
Net Acid soluble sulfur	0.02	% S	N/A	N/A	N/A	-
Net Acid soluble sulfur - acidity units	10	mol H+/t	N/A	N/A	N/A	-
Net Acid soluble sulfur - equivalent S% pyrite[S02]	0.02	% S	N/A	N/A	N/A	-
Calcium - KCl Extractable	0.02	% Ca	0.19	< 0.02	0.05	-
Calcium - Peroxide	0.02	% Ca	0.25	< 0.02	0.07	-
Acid Reacted Calcium	0.02	% Ca	0.06	< 0.02	0.02	-
acidity - Acid Reacted Calcium	10	mol H+/t	28	< 10	12	-
sulfidic - Acid Reacted Ca equiv. S% pyrite	0.02	% S	0.05	< 0.02	< 0.02	-
Magnesium - KCl Extractable	0.02	% Mg	0.02	< 0.02	0.03	-
Magnesium - Peroxide	0.02	% Mg	0.03	< 0.02	0.06	-
Acid Reacted Magnesium	0.02	% Mg	< 0.02	< 0.02	0.03	-
acidity - Acid Reacted Magnesium	10	mol H+/t	< 10	< 10	24	-
sulfidic - Acid Reacted Mg equiv. S% pyrite	0.02	% S	< 0.02	< 0.02	0.04	-
Acid Neutralising Capacity (ANCE)	0.02	% CaCO3	0.49	N/A	0.24	-
Acid Neutralising Capacity - Acidity units (a-ANCE)	10	mol H+/t	98	n/a	49	-
Acid Neutralising Capacity - equivalent S% pyrite(s-ANCE)	0.02	% S	0.16	N/A	0.08	-
ANC Fineness Factor		factor	1.5	1.5	1.5	-
SPOCAS - Net Acidity (Sulfur Units)	0.02	% S	< 0.02	0.16	< 0.02	-
SPOCAS - Net Acidity (Acidity Units)	10	mol H+/t	< 10	97	< 10	-
SPOCAS - Liming rate	1	kg CaCO3/t	< 1	7.0	< 1	-
Extraneous Material						
<2mm Fraction	0.005	g	120	130	130	-
>2mm Fraction	0.005	g	30	< 0.005	110	-
Analysed Material	0.1	%	81	100	54	-
Extraneous Material	0.1	%	19	< 0.1	46	-

Client Sample ID			BH15 0.2-1	BH15 0.4-0.5	QC 2021005-01	QC 2021005-02
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Au16492	S21-Au16493	S21-Au16494	S21-Au16495
Date Sampled			Aug 06, 2021	Aug 06, 2021	Aug 06, 2021	Aug 06, 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	%	-	98	81	105
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	%	-	100	94	90
p-Terphenyl-d14 (surr.)	1	%	-	90	99	97
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05

Client Sample ID			BH15 0.2-1	BH15 0.4-0.5	QC 2021005-01	QC 2021005-02
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Au16492	S21-Au16493	S21-Au16494	S21-Au16495
Date Sampled			Aug 06, 2021	Aug 06, 2021	Aug 06, 2021	Aug 06, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
a-HCH	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	-	< 0.05	0.15	< 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-HCH (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	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	0.15	< 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	-	< 0.1	0.15	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	-	INT	72	79
Tetrachloro-m-xylene (surr.)	1	%	-	92	96	96
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
Bolstar	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
Chlorfenvinphos	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
Chlorpyrifos	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
Chlorpyrifos-methyl	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
Coumaphos	2	mg/kg	-	< 2	< 2	< 2
Demeton-S	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
Demeton-O	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
Diazinon	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
Dichlorvos	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
Dimethoate	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
Disulfoton	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
EPN	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
Ethion	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
Ethoprop	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
Ethyl parathion	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
Fenitrothion	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
Fensulfothion	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
Fenthion	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
Malathion	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
Merphos	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
Methyl parathion	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
Mevinphos	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
Monocrotophos	2	mg/kg	-	< 2	< 2	< 2
Naled	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2

Client Sample ID			BH15 0.2-1	BH15 0.4-0.5	QC 2021005-01	QC 2021005-02
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Au16492	S21-Au16493	S21-Au16494	S21-Au16495
Date Sampled			Aug 06, 2021	Aug 06, 2021	Aug 06, 2021	Aug 06, 2021
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Omethoate	2	mg/kg	-	< 2	< 2	< 2
Phorate	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
Pirimiphos-methyl	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
Pyrazophos	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
Ronnel	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
Terbufos	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
Tetrachlorvinphos	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
Tokuthion	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
Trichloronate	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
Triphenylphosphate (surr.)	1	%	-	52	118	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	%	-	INT	72	79
Tetrachloro-m-xylene (surr.)	1	%	-	92	96	96
Heavy Metals						
Arsenic	2	mg/kg	-	2.8	9.6	6.1
Cadmium	0.4	mg/kg	-	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	-	13	12	10
Copper	5	mg/kg	-	13	14	20
Lead	5	mg/kg	-	37	24	19
Mercury	0.1	mg/kg	-	0.2	< 0.1	< 0.1
Nickel	5	mg/kg	-	6.3	6.3	8.6
Zinc	5	mg/kg	-	82	56	46
% Moisture	1	%	18	5.9	6.2	7.7
SPOCAS Suite						
pH-KCL	0.1	pH Units	11	-	-	-
pH-OX	0.1	pH Units	10	-	-	-
Acid trail - Titratable Actual Acidity	2	mol H+/t	< 2	-	-	-
Acid trail - Titratable Peroxide Acidity	2	mol H+/t	< 2	-	-	-
Acid trail - Titratable Sulfidic Acidity	2	mol H+/t	< 2	-	-	-
sulfidic - TAA equiv. S% pyrite	0.003	% pyrite S	< 0.003	-	-	-
sulfidic - TPA equiv. S% pyrite	0.02	% pyrite S	< 0.02	-	-	-
sulfidic - TSA equiv. S% pyrite	0.02	% pyrite S	< 0.02	-	-	-
Sulfur - KCl Extractable	0.02	% S	0.07	-	-	-
Sulfur - Peroxide	0.02	% S	0.10	-	-	-
Sulfur - Peroxide Oxidisable Sulfur	0.02	% S	0.03	-	-	-
acidity - Peroxide Oxidisable Sulfur	10	mol H+/t	21	-	-	-
HCl Extractable Sulfur Correction Factor	1	factor	2.0	-	-	-
HCl Extractable Sulfur	0.02	% S	N/A	-	-	-
Net Acid soluble sulfur	0.02	% S	N/A	-	-	-
Net Acid soluble sulfur - acidity units	10	mol H+/t	N/A	-	-	-

Client Sample ID			BH15 0.2-1	BH15 0.4-0.5	QC 2021005-01	QC 2021005-02
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Au16492	S21-Au16493	S21-Au16494	S21-Au16495
Date Sampled			Aug 06, 2021	Aug 06, 2021	Aug 06, 2021	Aug 06, 2021
Test/Reference	LOR	Unit				
SPOCAS Suite						
Net Acid soluble sulfur - equivalent S% pyrite[S02]	0.02	% S	N/A	-	-	-
Calcium - KCl Extractable	0.02	% Ca	0.60	-	-	-
Calcium - Peroxide	0.02	% Ca	4.7	-	-	-
Acid Reacted Calcium	0.02	% Ca	4.1	-	-	-
acidity - Acid Reacted Calcium	10	mol H+/t	2000	-	-	-
sulfidic - Acid Reacted Ca equiv. S% pyrite	0.02	% S	3.3	-	-	-
Magnesium - KCl Extractable	0.02	% Mg	< 0.02	-	-	-
Magnesium - Peroxide	0.02	% Mg	0.06	-	-	-
Acid Reacted Magnesium	0.02	% Mg	0.06	-	-	-
acidity - Acid Reacted Magnesium	10	mol H+/t	47	-	-	-
sulfidic - Acid Reacted Mg equiv. S% pyrite	0.02	% S	0.08	-	-	-
Acid Neutralising Capacity (ANCE)	0.02	% CaCO3	10	-	-	-
Acid Neutralising Capacity - Acidity units (a-ANCE)	10	mol H+/t	2000	-	-	-
Acid Neutralising Capacity - equivalent S% pyrite(s-ANCE)	0.02	% S	3.3	-	-	-
ANC Fineness Factor		factor	1.5	-	-	-
SPOCAS - Net Acidity (Sulfur Units)	0.02	% S	< 0.02	-	-	-
SPOCAS - Net Acidity (Acidity Units)	10	mol H+/t	< 10	-	-	-
SPOCAS - Liming rate	1	kg CaCO3/t	< 1	-	-	-
Extraneous Material						
<2mm Fraction	0.005	g	70	-	-	-
>2mm Fraction	0.005	g	77	-	-	-
Analysed Material	0.1	%	48	-	-	-
Extraneous Material	0.1	%	52	-	-	-

Client Sample ID			BH21 1-2	BH10 0.2-1	BH10 0.9-1	BH10 1-2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Au16499	S21-Au16500	S21-Au16501	S21-Au16502
Date Sampled			Aug 06, 2021	Aug 06, 2021	Aug 06, 2021	Aug 06, 2021
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
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	-
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	-

Client Sample ID			BH21 1-2	BH10 0.2-1	BH10 0.9-1	BH10 1-2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Au16499	S21-Au16500	S21-Au16501	S21-Au16502
Date Sampled			Aug 06, 2021	Aug 06, 2021	Aug 06, 2021	Aug 06, 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	%	88	-	98	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	2.0	-	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	2.3	-	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	2.5	-	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	1.2	-	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	1.5	-	< 0.5	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	1.0	-	< 0.5	-
Benzo(g.h.i)perylene	0.5	mg/kg	1.0	-	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	1.8	-	< 0.5	-
Chrysene	0.5	mg/kg	1.3	-	< 0.5	-
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	-
Fluoranthene	0.5	mg/kg	1.7	-	< 0.5	-
Fluorene	0.5	mg/kg	< 0.5	-	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	0.8	-	< 0.5	-
Naphthalene	0.5	mg/kg	< 0.5	-	< 0.5	-
Phenanthrene	0.5	mg/kg	0.6	-	< 0.5	-
Pyrene	0.5	mg/kg	2.2	-	< 0.5	-
Total PAH*	0.5	mg/kg	13.1	-	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	119	-	96	-
p-Terphenyl-d14 (surr.)	1	%	111	-	102	-
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	0.06	-	< 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	< 0.2	-	< 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	-

Client Sample ID			BH21 1-2	BH10 0.2-1	BH10 0.9-1	BH10 1-2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Au16499	S21-Au16500	S21-Au16501	S21-Au16502
Date Sampled			Aug 06, 2021	Aug 06, 2021	Aug 06, 2021	Aug 06, 2021
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
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	< 0.2	-	< 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	-	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	< 0.1	-
Dibutylchlorendate (surr.)	1	%	53	-	77	-
Tetrachloro-m-xylene (surr.)	1	%	115	-	99	-
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.2	-	< 0.2	-
Bolstar	0.2	mg/kg	< 0.2	-	< 0.2	-
Chlorfenvinphos	0.2	mg/kg	< 0.2	-	< 0.2	-
Chlorpyrifos	0.2	mg/kg	< 0.2	-	< 0.2	-
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	-	< 0.2	-
Coumaphos	2	mg/kg	< 2	-	< 2	-
Demeton-S	0.2	mg/kg	< 0.2	-	< 0.2	-
Demeton-O	0.2	mg/kg	< 0.2	-	< 0.2	-
Diazinon	0.2	mg/kg	< 0.2	-	< 0.2	-
Dichlorvos	0.2	mg/kg	< 0.2	-	< 0.2	-
Dimethoate	0.2	mg/kg	< 0.2	-	< 0.2	-
Disulfoton	0.2	mg/kg	< 0.2	-	< 0.2	-
EPN	0.2	mg/kg	< 0.2	-	< 0.2	-
Ethion	0.2	mg/kg	< 0.2	-	< 0.2	-
Ethoprop	0.2	mg/kg	< 0.2	-	< 0.2	-
Ethyl parathion	0.2	mg/kg	< 0.2	-	< 0.2	-
Fenitrothion	0.2	mg/kg	< 0.2	-	< 0.2	-
Fensulfothion	0.2	mg/kg	< 0.2	-	< 0.2	-
Fenthion	0.2	mg/kg	< 0.2	-	< 0.2	-
Malathion	0.2	mg/kg	< 0.2	-	< 0.2	-
Merphos	0.2	mg/kg	< 0.2	-	< 0.2	-
Methyl parathion	0.2	mg/kg	< 0.2	-	< 0.2	-
Mevinphos	0.2	mg/kg	< 0.2	-	< 0.2	-
Monocrotophos	2	mg/kg	< 2	-	< 2	-
Naled	0.2	mg/kg	< 0.2	-	< 0.2	-
Omethoate	2	mg/kg	< 2	-	< 2	-
Phorate	0.2	mg/kg	< 0.2	-	< 0.2	-
Pirimiphos-methyl	0.2	mg/kg	< 0.2	-	< 0.2	-
Pyrazophos	0.2	mg/kg	< 0.2	-	< 0.2	-
Ronnel	0.2	mg/kg	< 0.2	-	< 0.2	-
Terbufos	0.2	mg/kg	< 0.2	-	< 0.2	-
Tetrachlorvinphos	0.2	mg/kg	< 0.2	-	< 0.2	-
Tokuthion	0.2	mg/kg	< 0.2	-	< 0.2	-
Trichloronate	0.2	mg/kg	< 0.2	-	< 0.2	-
Triphenylphosphate (surr.)	1	%	88	-	115	-

Client Sample ID			BH21 1-2	BH10 0.2-1	BH10 0.9-1	BH10 1-2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Au16499	S21-Au16500	S21-Au16501	S21-Au16502
Date Sampled			Aug 06, 2021	Aug 06, 2021	Aug 06, 2021	Aug 06, 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	%	53	-	77	-
Tetrachloro-m-xylene (surr.)	1	%	115	-	99	-
Heavy Metals						
Arsenic	2	mg/kg	16	-	2.1	-
Cadmium	0.4	mg/kg	1.2	-	< 0.4	-
Chromium	5	mg/kg	32	-	12	-
Copper	5	mg/kg	1900	-	41	-
Lead	5	mg/kg	770	-	460	-
Mercury	0.1	mg/kg	0.2	-	< 0.1	-
Nickel	5	mg/kg	42	-	5.3	-
Zinc	5	mg/kg	800	-	140	-
% Moisture	1	%	20	17	5.9	12
SPOCAS Suite						
pH-KCL	0.1	pH Units	8.7	9.5	-	8.9
pH-OX	0.1	pH Units	8.6	9.2	-	8.4
Acid trail - Titratable Actual Acidity	2	mol H+/t	< 2	< 2	-	< 2
Acid trail - Titratable Peroxide Acidity	2	mol H+/t	< 2	< 2	-	< 2
Acid trail - Titratable Sulfidic Acidity	2	mol H+/t	< 2	< 2	-	< 2
sulfidic - TAA equiv. S% pyrite	0.003	% pyrite S	< 0.003	< 0.003	-	< 0.003
sulfidic - TPA equiv. S% pyrite	0.02	% pyrite S	< 0.02	< 0.02	-	< 0.02
sulfidic - TSA equiv. S% pyrite	0.02	% pyrite S	< 0.02	< 0.02	-	< 0.02
Sulfur - KCl Extractable	0.02	% S	< 0.02	< 0.02	-	< 0.02
Sulfur - Peroxide	0.02	% S	< 0.02	< 0.02	-	0.05
Sulfur - Peroxide Oxidisable Sulfur	0.02	% S	< 0.02	< 0.02	-	0.05
acidity - Peroxide Oxidisable Sulfur	10	mol H+/t	< 10	< 10	-	33
HCl Extractable Sulfur Correction Factor	1	factor	2.0	2.0	-	2.0
HCl Extractable Sulfur	0.02	% S	N/A	N/A	-	N/A
Net Acid soluble sulfur	0.02	% S	N/A	N/A	-	N/A
Net Acid soluble sulfur - acidity units	10	mol H+/t	N/A	N/A	-	N/A
Net Acid soluble sulfur - equivalent S% pyrite[S02]	0.02	% S	N/A	N/A	-	N/A
Calcium - KCl Extractable	0.02	% Ca	0.11	0.24	-	0.24
Calcium - Peroxide	0.02	% Ca	0.15	1.1	-	1.6
Acid Reacted Calcium	0.02	% Ca	0.04	0.90	-	1.3
acidity - Acid Reacted Calcium	10	mol H+/t	21	450	-	660
sulfidic - Acid Reacted Ca equiv. S% pyrite	0.02	% S	0.03	0.72	-	1.1
Magnesium - KCl Extractable	0.02	% Mg	< 0.02	< 0.02	-	< 0.02
Magnesium - Peroxide	0.02	% Mg	< 0.02	0.05	-	0.03
Acid Reacted Magnesium	0.02	% Mg	< 0.02	0.05	-	0.03
acidity - Acid Reacted Magnesium	10	mol H+/t	< 10	40	-	22
sulfidic - Acid Reacted Mg equiv. S% pyrite	0.02	% S	< 0.02	0.06	-	0.04

Client Sample ID			BH21 1-2	BH10 0.2-1	BH10 0.9-1	BH10 1-2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S21-Au16499	S21-Au16500	S21-Au16501	S21-Au16502
Date Sampled			Aug 06, 2021	Aug 06, 2021	Aug 06, 2021	Aug 06, 2021
Test/Reference	LOR	Unit				
SPOCAS Suite						
Acid Neutralising Capacity (ANCE)	0.02	% CaCO3	0.39	2.7	-	3.8
Acid Neutralising Capacity - Acidity units (a-ANCE)	10	mol H+/t	78	550	-	750
Acid Neutralising Capacity - equivalent S% pyrite(s-ANCE)	0.02	% S	0.13	0.88	-	1.2
ANC Fineness Factor		factor	1.5	1.5	-	1.5
SPOCAS - Net Acidity (Sulfur Units)	0.02	% S	< 0.02	< 0.02	-	< 0.02
SPOCAS - Net Acidity (Acidity Units)	10	mol H+/t	< 10	< 10	-	< 10
SPOCAS - Liming rate	1	kg CaCO3/t	< 1	< 1	-	< 1
Extraneous Material						
<2mm Fraction	0.005	g	170	61	-	110
>2mm Fraction	0.005	g	14	100	-	47
Analysed Material	0.1	%	92	37	-	69
Extraneous Material	0.1	%	7.9	63	-	31

Client Sample ID			[G01]BH11.9-1.0	BH11 1-2
Sample Matrix			Soil	Soil
Eurofins Sample No.			S21-Au16504	S21-Au16505
Date Sampled			Aug 06, 2021	Aug 06, 2021
Test/Reference	LOR	Unit		
Total Recoverable Hydrocarbons				
TRH C6-C9	20	mg/kg	< 20	-
TRH C10-C14	20	mg/kg	< 1000	-
TRH C15-C28	50	mg/kg	< 2500	-
TRH C29-C36	50	mg/kg	< 2500	-
TRH C10-C36 (Total)	50	mg/kg	< 2500	-
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	< 2500	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 2500	-
TRH >C16-C34	100	mg/kg	< 5000	-
TRH >C34-C40	100	mg/kg	< 5000	-
TRH >C10-C40 (total)*	100	mg/kg	< 5000	-
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	%	82	-
Polycyclic Aromatic Hydrocarbons				
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	51	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	54	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	56	-
Acenaphthene	0.5	mg/kg	2.6	-
Acenaphthylene	0.5	mg/kg	0.9	-
Anthracene	0.5	mg/kg	11	-

Client Sample ID			[G01]BH11.9-1.0	BH11 1-2
Sample Matrix			Soil	Soil
Eurofins Sample No.			S21-Au16504	S21-Au16505
Date Sampled			Aug 06, 2021	Aug 06, 2021
Test/Reference	LOR	Unit		
Polycyclic Aromatic Hydrocarbons				
Benz(a)anthracene	0.5	mg/kg	32	-
Benzo(a)pyrene	0.5	mg/kg	40	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	24	-
Benzo(g.h.i)perylene	0.5	mg/kg	18	-
Benzo(k)fluoranthene	0.5	mg/kg	36	-
Chrysene	0.5	mg/kg	35	-
Dibenz(a.h)anthracene	0.5	mg/kg	< 5	-
Fluoranthene	0.5	mg/kg	72	-
Fluorene	0.5	mg/kg	1.8	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	16	-
Naphthalene	0.5	mg/kg	2.2	-
Phenanthrene	0.5	mg/kg	37	-
Pyrene	0.5	mg/kg	68	-
Total PAH*	0.5	mg/kg	396.5	-
2-Fluorobiphenyl (surr.)	1	%	140	-
p-Terphenyl-d14 (surr.)	1	%	127	-
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	-
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	%	82	-
Tetrachloro-m-xylene (surr.)	1	%	140	-
Organophosphorus Pesticides				
Azinphos-methyl	0.2	mg/kg	< 0.5	-
Bolstar	0.2	mg/kg	< 0.5	-
Chlorfenvinphos	0.2	mg/kg	< 0.5	-
Chlorpyrifos	0.2	mg/kg	< 0.5	-

Client Sample ID			[G01]BH11.9-1.0	BH11 1-2
Sample Matrix			Soil	Soil
Eurofins Sample No.			S21-Au16504	S21-Au16505
Date Sampled			Aug 06, 2021	Aug 06, 2021
Test/Reference	LOR	Unit		
Organophosphorus Pesticides				
Chlorpyrifos-methyl	0.2	mg/kg	< 0.5	-
Coumaphos	2	mg/kg	< 5	-
Demeton-S	0.2	mg/kg	< 0.5	-
Demeton-O	0.2	mg/kg	< 0.5	-
Diazinon	0.2	mg/kg	< 0.5	-
Dichlorvos	0.2	mg/kg	< 0.5	-
Dimethoate	0.2	mg/kg	< 0.5	-
Disulfoton	0.2	mg/kg	< 0.5	-
EPN	0.2	mg/kg	< 0.5	-
Ethion	0.2	mg/kg	< 0.5	-
Ethoprop	0.2	mg/kg	< 0.5	-
Ethyl parathion	0.2	mg/kg	< 0.5	-
Fenitrothion	0.2	mg/kg	< 0.5	-
Fensulfothion	0.2	mg/kg	< 0.5	-
Fenthion	0.2	mg/kg	< 0.5	-
Malathion	0.2	mg/kg	< 0.5	-
Merphos	0.2	mg/kg	< 0.5	-
Methyl parathion	0.2	mg/kg	< 0.5	-
Mevinphos	0.2	mg/kg	< 0.5	-
Monocrotophos	2	mg/kg	< 5	-
Naled	0.2	mg/kg	< 0.5	-
Omethoate	2	mg/kg	< 5	-
Phorate	0.2	mg/kg	< 0.5	-
Pirimiphos-methyl	0.2	mg/kg	< 0.5	-
Pyrazophos	0.2	mg/kg	< 0.5	-
Ronnel	0.2	mg/kg	< 0.5	-
Terbufos	0.2	mg/kg	< 0.5	-
Tetrachlorvinphos	0.2	mg/kg	< 0.5	-
Tokuthion	0.2	mg/kg	< 0.5	-
Trichloronate	0.2	mg/kg	< 0.5	-
Triphenylphosphate (surr.)	1	%	73	-
Polychlorinated Biphenyls				
Aroclor-1016	0.5	mg/kg	< 1	-
Aroclor-1221	0.1	mg/kg	< 1	-
Aroclor-1232	0.5	mg/kg	< 1	-
Aroclor-1242	0.5	mg/kg	< 1	-
Aroclor-1248	0.5	mg/kg	< 1	-
Aroclor-1254	0.5	mg/kg	< 1	-
Aroclor-1260	0.5	mg/kg	< 1	-
Total PCB*	0.5	mg/kg	< 1	-
Dibutylchlorendate (surr.)	1	%	82	-
Tetrachloro-m-xylene (surr.)	1	%	140	-
Heavy Metals				
Arsenic	2	mg/kg	2.4	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4
Chromium	5	mg/kg	35	< 5
Copper	5	mg/kg	69	< 5
Lead	5	mg/kg	78	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1

Client Sample ID			G01 BH11.9-1.0	BH11 1-2
Sample Matrix			**Soil**	**Soil**
Eurofins Sample No.			**S21-Au16504**	**S21-Au16505**
Date Sampled			**Aug 06, 2021**	**Aug 06, 2021**
Test/Reference	LOR	Unit		
Heavy Metals				
Nickel	5	mg/kg	20	< 5
Zinc	5	mg/kg	46	13
% Moisture	1	%	7.8	5.2

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	Aug 12, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Aug 12, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Aug 12, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Aug 12, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons	Sydney	Aug 12, 2021	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Organochlorine Pesticides	Sydney	Aug 12, 2021	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Organophosphorus Pesticides	Sydney	Aug 12, 2021	14 Days
- Method: LTM-ORG-2200 Organophosphorus Pesticides by GC-MS			
Metals M8	Sydney	Aug 12, 2021	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Polychlorinated Biphenyls	Sydney	Aug 25, 2021	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
% Moisture	Sydney	Aug 09, 2021	14 Days
- Method: LTM-GEN-7080 Moisture			
SPOCAS Suite			
SPOCAS Suite	Brisbane	Aug 13, 2021	6 Week
- Method: LTM-GEN-7050			
Extraneous Material	Brisbane	Aug 13, 2021	6 Week
- Method: LTM-GEN-7050/7070			

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Phone: 02 8245 0300
Fax:

Received: Aug 9, 2021 12:37 PM
Due: Aug 16, 2021
Priority: 5 Day
Contact Name: Matthew Linz

Eurofins Analytical Services Manager : Ursula Long

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Melbourne Laboratory - NATA Site # 1254															
Sydney Laboratory - NATA Site # 18217						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	BH01 0.2-1	Aug 05, 2021		Soil	S21-Au16451	X									
2	BH01 0.2-0.3	Aug 05, 2021		Soil	S21-Au16452								X	X	
3	BH02 0.2-1	Aug 05, 2021		Soil	S21-Au16453	X									
4	BH02 0.9-1	Aug 05, 2021		Soil	S21-Au16454	X							X	X	
5	BH03 0-1	Aug 05, 2021		Soil	S21-Au16455	X									
6	BH03 0.4-0.5	Aug 05, 2021		Soil	S21-Au16456								X	X	
7	BH04 0.2-1	Aug 05, 2021		Soil	S21-Au16457	X									
8	BH04 0.2-0.3	Aug 05, 2021		Soil	S21-Au16458								X	X	
9	BH05 0.2-1	Aug 05, 2021		Soil	S21-Au16459		X								

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Melbourne Laboratory - NATA Site # 1254															
Sydney Laboratory - NATA Site # 18217						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	BH05 0.9-1	Aug 05, 2021		Soil	S21-Au16460								X	X	
11	BH06 0.2-1	Aug 05, 2021		Soil	S21-Au16461		X								
12	BH06 0.2-0.3	Aug 05, 2021		Soil	S21-Au16462	X							X	X	
13	BH07 0.2-1	Aug 05, 2021		Soil	S21-Au16463	X									
14	BH07 0.4-0.5	Aug 05, 2021		Soil	S21-Au16464								X	X	
15	BH08 0.2-1	Aug 05, 2021		Soil	S21-Au16465	X									
16	BH08 0.2-0.3	Aug 05, 2021		Soil	S21-Au16466								X	X	
17	BH09 0.2-1	Aug 05, 2021		Soil	S21-Au16467	X									
18	BH09 0.4-0.5	Aug 05, 2021		Soil	S21-Au16468								X	X	
19	BH12 0.2-0.5	Aug 06, 2021		Soil	S21-Au16469	X									
20	BH12 0.4-0.5	Aug 06, 2021		Soil	S21-Au16470								X	X	

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Melbourne Laboratory - NATA Site # 1254															
Sydney Laboratory - NATA Site # 18217						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	BH12 3-4	Aug 06, 2021		Soil	S21-Au16471				X		X		X		
22	BH12 5-6	Aug 06, 2021		Soil	S21-Au16472				X		X		X		
23	BH13 0.2-1	Aug 06, 2021		Soil	S21-Au16473	X					X	X			
24	BH13 0.9-1	Aug 06, 2021		Soil	S21-Au16474								X	X	
25	BH13 1-2	Aug 06, 2021		Soil	S21-Au16475						X	X			
26	BH14 0.2-1	Aug 06, 2021		Soil	S21-Au16476						X	X			
27	BH14 1-2	Aug 06, 2021		Soil	S21-Au16477						X		X	X	
28	BH16 0.2-1	Aug 06, 2021		Soil	S21-Au16478	X									
29	BH16 0.9-1	Aug 06, 2021		Soil	S21-Au16479								X	X	
30	BH17 0.2-1	Aug 06, 2021		Soil	S21-Au16480	X					X	X			
31	BH17 0.2-0.3	Aug 06, 2021		Soil	S21-Au16481								X	X	

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Melbourne Laboratory - NATA Site # 1254															
Sydney Laboratory - NATA Site # 18217						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	BH17 3-4	Aug 06, 2021		Soil	S21-Au16482				X		X		X		
33	BH18 0.2-1	Aug 06, 2021		Soil	S21-Au16483	X									
34	BH18 0.4-0.5	Aug 06, 2021		Soil	S21-Au16484								X	X	
35	BH18 1-2	Aug 06, 2021		Soil	S21-Au16485						X	X			
36	BH19 0.2-1	Aug 06, 2021		Soil	S21-Au16486	X									
37	BH19 0.4-0.5	Aug 06, 2021		Soil	S21-Au16487								X	X	
38	BH19 1-1.5	Aug 06, 2021		Soil	S21-Au16488						X	X			
39	BH19 3.2-4	Aug 06, 2021		Soil	S21-Au16489						X	X			
40	BH20 0.2-1	Aug 06, 2021		Soil	S21-Au16490	X					X	X			
41	BH20 0.4-0.5	Aug 06, 2021		Soil	S21-Au16491								X	X	
42	BH15 0.2-1	Aug 06, 2021		Soil	S21-Au16492	X					X	X			

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Melbourne Laboratory - NATA Site # 1254															
Sydney Laboratory - NATA Site # 18217						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	BH15 0.4-0.5	Aug 06, 2021		Soil	S21-Au16493								X	X	
44	QC 2021005-01	Aug 06, 2021		Soil	S21-Au16494	X							X	X	
45	QC 2021005-02	Aug 06, 2021		Soil	S21-Au16495	X							X	X	
46	TRIP SPIKE	Aug 06, 2021		Water	S21-Au16496										X
47	TRIP BLANK	Aug 06, 2021		Water	S21-Au16497					X					
48	BH21 0.2-1	Aug 06, 2021		Soil	S21-Au16498	X									
49	BH21 1-2	Aug 06, 2021		Soil	S21-Au16499						X		X	X	
50	BH10 0.2-1	Aug 06, 2021		Soil	S21-Au16500	X					X	X			
51	BH10 0.9-1	Aug 06, 2021		Soil	S21-Au16501								X	X	

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Melbourne Laboratory - NATA Site # 1254															
Sydney Laboratory - NATA Site # 18217						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															
52	BH10 1-2	Aug 06, 2021		Soil	S21-Au16502						X	X			
53	BH11 0.2-0.9	Aug 06, 2021		Soil	S21-Au16503	X									
54	BH11.9-1.0	Aug 06, 2021		Soil	S21-Au16504								X	X	
55	BH11 1-2	Aug 06, 2021		Soil	S21-Au16505				X				X		
56	BH01 0.4-0.5	Aug 05, 2021		Soil	S21-Au16506			X							
57	BH01 0.9-1	Aug 05, 2021		Soil	S21-Au16507			X							
58	BH01 1-1.2	Aug 05, 2021		Soil	S21-Au16508			X							
59	BH02 0.2-0.3	Aug 05, 2021		Soil	S21-Au16509			X							
60	BH02 0.4-0.5	Aug 05, 2021		Soil	S21-Au16510			X							
61	BH02 1-1.2	Aug 05, 2021		Soil	S21-Au16511			X							
62	BH03 0.2-0.3	Aug 05, 2021		Soil	S21-Au16512			X							

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Melbourne Laboratory - NATA Site # 1254															
Sydney Laboratory - NATA Site # 18217						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															
63	BH03 0.8-0.9	Aug 05, 2021		Soil	S21-Au16513			X							
64	BH03 0.9-1	Aug 05, 2021		Soil	S21-Au16514			X							
65	BH04 0.4-0.5	Aug 05, 2021		Soil	S21-Au16515			X							
66	BH04 0.9-1	Aug 05, 2021		Soil	S21-Au16516			X							
67	BH05 0.2-0.3	Aug 05, 2021		Soil	S21-Au16517			X							
68	BH05 0.4-0.5	Aug 05, 2021		Soil	S21-Au16518			X							
69	BH06 0.4-0.5	Aug 05, 2021		Soil	S21-Au16519			X							
70	BH06 0.9-1	Aug 05, 2021		Soil	S21-Au16520			X							
71	BH07 0.2-0.3	Aug 05, 2021		Soil	S21-Au16521	X									
72	BH07 0.9-1	Aug 05, 2021		Soil	S21-Au16522			X							
73	BH08 0.4-0.5	Aug 05, 2021		Soil	S21-Au16523			X							

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Sydney Laboratory - NATA Site # 18217						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															
74	BH08 0.9-1	Aug 05, 2021		Soil	S21-Au16524			X							
75	BH09 0.2-0.3	Aug 05, 2021		Soil	S21-Au16525			X							
76	BH09 0.9-1	Aug 05, 2021		Soil	S21-Au16526			X							
77	BH12 0.2-0.3	Aug 06, 2021		Soil	S21-Au16527			X							
78	BH12 0.9-1	Aug 06, 2021		Soil	S21-Au16528			X							
79	BH12 1-2	Aug 06, 2021		Soil	S21-Au16529			X							
80	BH12 2-3	Aug 06, 2021		Soil	S21-Au16530			X							
81	BH12 4-5	Aug 06, 2021		Soil	S21-Au16531			X							
82	BH13 0.2-3	Aug 06, 2021		Soil	S21-Au16532			X							
83	BH13 0.4-0.5	Aug 06, 2021		Soil	S21-Au16533			X							
84	BH14 0.2-0.3	Aug 06, 2021		Soil	S21-Au16534			X							

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Sydney Laboratory - NATA Site # 18217						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															
85	BH14 0.4-0.5	Aug 06, 2021		Soil	S21-Au16535			X							
86	BH16 0.2-0.3	Aug 06, 2021		Soil	S21-Au16536			X							
87	BH16 0.4-0.5	Aug 06, 2021		Soil	S21-Au16537			X							
88	BH16 1-2	Aug 06, 2021		Soil	S21-Au16538			X							
89	BH17 0.4-0.5	Aug 06, 2021		Soil	S21-Au16539			X							
90	BH17 0.9-1	Aug 06, 2021		Soil	S21-Au16540			X							
91	BH17 1-2	Aug 06, 2021		Soil	S21-Au16541			X							
92	BH17 2-3	Aug 06, 2021		Soil	S21-Au16542			X							
93	BH17 4-5	Aug 06, 2021		Soil	S21-Au16543			X							
94	BH18 0.2-0.3	Aug 06, 2021		Soil	S21-Au16544			X							
95	BH18 0.9-1	Aug 06, 2021		Soil	S21-Au16545			X							

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Sydney Laboratory - NATA Site # 18217						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															
96	BH18 2.5-3	Aug 06, 2021		Soil	S21-Au16546			X							
97	BH18 3-4	Aug 06, 2021		Soil	S21-Au16547			X							
98	BH18 4-5	Aug 06, 2021		Soil	S21-Au16548			X							
99	BH19 0.2-0.3	Aug 06, 2021		Soil	S21-Au16549			X							
100	BH19 0.9-1	Aug 06, 2021		Soil	S21-Au16550			X							
101	BH19 2-3	Aug 06, 2021		Soil	S21-Au16551			X							
102	BH19 4-5	Aug 06, 2021		Soil	S21-Au16552			X							
103	BH20 0.2-0.3	Aug 06, 2021		Soil	S21-Au16553			X							
104	BH20 0.9-1	Aug 06, 2021		Soil	S21-Au16554			X							
105	BH20 1-2	Aug 06, 2021		Soil	S21-Au16555			X							
106	BH20 2-3	Aug 06, 2021		Soil	S21-Au16556			X							

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Melbourne Laboratory - NATA Site # 1254															
Sydney Laboratory - NATA Site # 18217						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															
107	BH20 3-4	Aug 06, 2021		Soil	S21-Au16557			X							
108	BH20 4-5	Aug 06, 2021		Soil	S21-Au16558			X							
109	BH15 0.2-0.3	Aug 06, 2021		Soil	S21-Au16559			X							
110	BH15 0.9-1	Aug 06, 2021		Soil	S21-Au16560			X							
111	BH15 1-2	Aug 06, 2021		Soil	S21-Au16561			X							
112	QC 2021005-03	Aug 06, 2021		Soil	S21-Au16562			X							
113	QC 2021005-04	Aug 06, 2021		Soil	S21-Au16563			X							
114	BH21 0.2-0.3	Aug 06, 2021		Soil	S21-Au16564			X							
115	BH21 0.4-0.5	Aug 06, 2021		Soil	S21-Au16565			X							

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Sydney Laboratory - NATA Site # 18217						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															
116	BH21 0.9-1	Aug 06, 2021		Soil	S21-Au16566			X							
117	BH21 2-3	Aug 06, 2021		Soil	S21-Au16567			X							
118	BH21 3.5-4	Aug 06, 2021		Soil	S21-Au16568			X							
119	BH21 4-5	Aug 06, 2021		Soil	S21-Au16569			X							
120	BH10 0.2-0.3	Aug 06, 2021		Soil	S21-Au16570			X							
121	BH10 0.4-0.5	Aug 06, 2021		Soil	S21-Au16571			X							
122	BH11 0.2-0.3	Aug 06, 2021		Soil	S21-Au17820			X							
123	BH11 0.4-0.5	Aug 06, 2021		Soil	S21-Au17821			X							
124	BH11 0.6-0.7	Aug 06, 2021		Soil	S21-Au17822			X							
Test Counts						23	2	68	4	1	16	38	38	23	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							
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							
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	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
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							
Organophosphorus Pesticides							
Azinphos-methyl	mg/kg	< 0.2			0.2	Pass	
Bolstar	mg/kg	< 0.2			0.2	Pass	
Chlorfenvinphos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos-methyl	mg/kg	< 0.2			0.2	Pass	
Coumaphos	mg/kg	< 2			2	Pass	
Demeton-S	mg/kg	< 0.2			0.2	Pass	
Demeton-O	mg/kg	< 0.2			0.2	Pass	
Diazinon	mg/kg	< 0.2			0.2	Pass	
Dichlorvos	mg/kg	< 0.2			0.2	Pass	
Dimethoate	mg/kg	< 0.2			0.2	Pass	
Disulfoton	mg/kg	< 0.2			0.2	Pass	
EPN	mg/kg	< 0.2			0.2	Pass	
Ethion	mg/kg	< 0.2			0.2	Pass	
Ethoprop	mg/kg	< 0.2			0.2	Pass	
Ethyl parathion	mg/kg	< 0.2			0.2	Pass	
Fenitrothion	mg/kg	< 0.2			0.2	Pass	
Fensulfothion	mg/kg	< 0.2			0.2	Pass	
Fenthion	mg/kg	< 0.2			0.2	Pass	
Malathion	mg/kg	< 0.2			0.2	Pass	
Merphos	mg/kg	< 0.2			0.2	Pass	
Methyl parathion	mg/kg	< 0.2			0.2	Pass	
Mevinphos	mg/kg	< 0.2			0.2	Pass	
Monocrotophos	mg/kg	< 2			2	Pass	
Naled	mg/kg	< 0.2			0.2	Pass	
Omethoate	mg/kg	< 2			2	Pass	
Phorate	mg/kg	< 0.2			0.2	Pass	
Pirimiphos-methyl	mg/kg	< 0.2			0.2	Pass	
Pyrazophos	mg/kg	< 0.2			0.2	Pass	
Ronnel	mg/kg	< 0.2			0.2	Pass	
Terbufos	mg/kg	< 0.2			0.2	Pass	
Tetrachlorvinphos	mg/kg	< 0.2			0.2	Pass	
Tokuthion	mg/kg	< 0.2			0.2	Pass	
Trichloronate	mg/kg	< 0.2			0.2	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	

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							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	75			70-130	Pass	
TRH C10-C14	%	99			70-130	Pass	
Naphthalene	%	87			70-130	Pass	
TRH C6-C10	%	72			70-130	Pass	
TRH >C10-C16	%	98			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	80			70-130	Pass	
Toluene	%	78			70-130	Pass	
Ethylbenzene	%	78			70-130	Pass	
m&p-Xylenes	%	80			70-130	Pass	
o-Xylene	%	79			70-130	Pass	
Xylenes - Total*	%	80			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	85			70-130	Pass	
Acenaphthylene	%	93			70-130	Pass	
Anthracene	%	89			70-130	Pass	
Benz(a)anthracene	%	83			70-130	Pass	
Benzo(a)pyrene	%	83			70-130	Pass	
Benzo(b&j)fluoranthene	%	72			70-130	Pass	
Benzo(g.h.i)perylene	%	80			70-130	Pass	
Benzo(k)fluoranthene	%	87			70-130	Pass	
Chrysene	%	85			70-130	Pass	
Dibenz(a.h)anthracene	%	84			70-130	Pass	
Fluoranthene	%	87			70-130	Pass	
Fluorene	%	90			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	86			70-130	Pass	
Naphthalene	%	86			70-130	Pass	
Phenanthrene	%	85			70-130	Pass	
Pyrene	%	89			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	95			70-130	Pass	
4.4'-DDD	%	96			70-130	Pass	
4.4'-DDE	%	93			70-130	Pass	
4.4'-DDT	%	101			70-130	Pass	
a-HCH	%	87			70-130	Pass	
Aldrin	%	93			70-130	Pass	
b-HCH	%	84			70-130	Pass	
d-HCH	%	84			70-130	Pass	
Dieldrin	%	91			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endosulfan I	%	88			70-130	Pass	
Endosulfan II	%	91			70-130	Pass	
Endosulfan sulphate	%	71			70-130	Pass	
Endrin	%	81			70-130	Pass	
Endrin aldehyde	%	70			70-130	Pass	
Endrin ketone	%	71			70-130	Pass	
g-HCH (Lindane)	%	87			70-130	Pass	
Heptachlor	%	113			70-130	Pass	
Heptachlor epoxide	%	101			70-130	Pass	
Hexachlorobenzene	%	93			70-130	Pass	
Methoxychlor	%	116			70-130	Pass	
LCS - % Recovery							
Organophosphorus Pesticides							
Diazinon	%	92			70-130	Pass	
Dimethoate	%	111			70-130	Pass	
Ethion	%	119			70-130	Pass	
Fenitrothion	%	122			70-130	Pass	
Mevinphos	%	75			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1016	%	72			70-130	Pass	
Aroclor-1260	%	78			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	99			80-120	Pass	
Cadmium	%	102			80-120	Pass	
Chromium	%	100			80-120	Pass	
Copper	%	101			80-120	Pass	
Lead	%	101			80-120	Pass	
Mercury	%	99			80-120	Pass	
Nickel	%	100			80-120	Pass	
Zinc	%	99			80-120	Pass	
LCS - % Recovery							
SPOCAS Suite							
pH-KCL	%	101			80-120	Pass	
Acid trail - Titratable Actual Acidity	%	106			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	S21-Au21315	NCP	%	88			70-130	Pass	
TRH >C10-C16	S21-Au21315	NCP	%	91			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S21-Au16173	NCP	%	88			70-130	Pass	
Acenaphthylene	S21-Au16173	NCP	%	93			70-130	Pass	
Anthracene	S21-Au16173	NCP	%	84			70-130	Pass	
Benz(a)anthracene	S21-Au16173	NCP	%	71			70-130	Pass	
Benzo(a)pyrene	S21-Au16173	NCP	%	92			70-130	Pass	
Benzo(b&j)fluoranthene	S21-Au16173	NCP	%	85			70-130	Pass	
Benzo(g.h.i)perylene	S21-Au16173	NCP	%	89			70-130	Pass	
Benzo(k)fluoranthene	S21-Au16173	NCP	%	109			70-130	Pass	
Chrysene	S21-Au16173	NCP	%	87			70-130	Pass	
Dibenz(a.h)anthracene	S21-Au16173	NCP	%	87			70-130	Pass	
Fluoranthene	S21-Au16173	NCP	%	90			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Fluorene	S21-Au16173	NCP	%	91			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S21-Au16173	NCP	%	96			70-130	Pass	
Naphthalene	S21-Au16173	NCP	%	99			70-130	Pass	
Phenanthrene	S21-Au16173	NCP	%	85			70-130	Pass	
Pyrene	S21-Au16173	NCP	%	89			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S21-Au16173	NCP	%	93			70-130	Pass	
4.4'-DDD	S21-Au16173	NCP	%	108			70-130	Pass	
4.4'-DDE	S21-Au16173	NCP	%	85			70-130	Pass	
4.4'-DDT	B21-Au19260	NCP	%	96			70-130	Pass	
a-HCH	S21-Au16173	NCP	%	87			70-130	Pass	
Aldrin	S21-Au16173	NCP	%	100			70-130	Pass	
b-HCH	S21-Au16173	NCP	%	71			70-130	Pass	
d-HCH	S21-Au16173	NCP	%	81			70-130	Pass	
Dieldrin	S21-Au16173	NCP	%	89			70-130	Pass	
Endosulfan I	S21-Au16173	NCP	%	70			70-130	Pass	
Endosulfan II	S21-Au16173	NCP	%	91			70-130	Pass	
Endosulfan sulphate	S21-Au13846	NCP	%	87			70-130	Pass	
Endrin	S21-Au13846	NCP	%	86			70-130	Pass	
Endrin aldehyde	B21-Au19260	NCP	%	78			70-130	Pass	
Endrin ketone	S21-Au16173	NCP	%	76			70-130	Pass	
g-HCH (Lindane)	S21-Au16173	NCP	%	89			70-130	Pass	
Heptachlor epoxide	S21-Au16173	NCP	%	101			70-130	Pass	
Hexachlorobenzene	S21-Au16173	NCP	%	92			70-130	Pass	
Spike - % Recovery									
Organophosphorus Pesticides				Result 1					
Diazinon	S21-Au16173	NCP	%	91			70-130	Pass	
Dimethoate	S21-Au13846	NCP	%	112			70-130	Pass	
Fenitrothion	S21-Au16173	NCP	%	102			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	S21-Au16464	CP	%	76			70-130	Pass	
Naphthalene	S21-Au16464	CP	%	79			70-130	Pass	
TRH C6-C10	S21-Au16464	CP	%	75			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S21-Au16464	CP	%	74			70-130	Pass	
Toluene	S21-Au16464	CP	%	73			70-130	Pass	
Ethylbenzene	S21-Au16464	CP	%	74			70-130	Pass	
m&p-Xylenes	S21-Au16464	CP	%	75			70-130	Pass	
o-Xylene	S21-Au16464	CP	%	73			70-130	Pass	
Xylenes - Total*	S21-Au16464	CP	%	74			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S21-Au16466	CP	%	87			75-125	Pass	
Cadmium	S21-Au16466	CP	%	88			75-125	Pass	
Chromium	S21-Au16466	CP	%	84			75-125	Pass	
Copper	S21-Au16466	CP	%	75			75-125	Pass	
Mercury	S21-Au16466	CP	%	87			75-125	Pass	
Nickel	S21-Au16466	CP	%	83			75-125	Pass	
Zinc	S21-Au16466	CP	%	85			75-125	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Heptachlor	S21-Au18403	NCP	%	71			70-130	Pass	
Methoxychlor	S21-Au18403	NCP	%	85			70-130	Pass	
Spike - % Recovery									
Organophosphorus Pesticides				Result 1					
Methyl parathion	S21-Au18403	NCP	%	103			70-130	Pass	
Mevinphos	S21-Au18403	NCP	%	112			70-130	Pass	
Spike - % Recovery									
Organophosphorus Pesticides				Result 1					
Ethion	S21-Au15133	NCP	%	115			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S21-Au16484	CP	%	107			75-125	Pass	
Cadmium	S21-Au16484	CP	%	110			75-125	Pass	
Chromium	S21-Au16484	CP	%	108			75-125	Pass	
Copper	S21-Au16484	CP	%	85			75-125	Pass	
Lead	S21-Au16484	CP	%	110			75-125	Pass	
Mercury	S21-Au16484	CP	%	114			75-125	Pass	
Nickel	S21-Au16484	CP	%	104			75-125	Pass	
Zinc	S21-Au16484	CP	%	80			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 C10-C14	S21-Au16452	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S21-Au16452	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S21-Au16452	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C10-C16	S21-Au16452	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S21-Au16452	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S21-Au16452	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S21-Au16452	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S21-Au16452	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S21-Au16452	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S21-Au16452	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S21-Au16452	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S21-Au16452	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S21-Au16452	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S21-Au16452	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S21-Au16452	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S21-Au16452	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S21-Au16452	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S21-Au16452	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S21-Au16452	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S21-Au16452	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S21-Au16452	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S21-Au16452	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S21-Au16452	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S21-Au16452	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S21-Au16452	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S21-Au16452	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	S21-Au16452	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S21-Au16452	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	

Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
b-HCH	S21-Au16452	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	S21-Au16452	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S21-Au16452	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S21-Au16452	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S21-Au16452	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S21-Au16452	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S21-Au16452	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S21-Au16452	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S21-Au16452	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-HCH (Lindane)	S21-Au16452	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S21-Au16452	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S21-Au16452	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S21-Au16452	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S21-Au16452	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Toxaphene	S21-Au16452	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Azinphos-methyl	S21-Au16452	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Bolstar	S21-Au16452	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorfenvinphos	S21-Au16452	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos	S21-Au16452	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos-methyl	S21-Au16452	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Coumaphos	S21-Au16452	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Demeton-S	S21-Au16452	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Demeton-O	S21-Au16452	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Diazinon	S21-Au16452	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dichlorvos	S21-Au16452	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dimethoate	S21-Au16452	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Disulfoton	S21-Au16452	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
EPN	S21-Au16452	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethion	S21-Au16452	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethoprop	S21-Au16452	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethyl parathion	S21-Au16452	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenitrothion	S21-Au16452	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fensulfothion	S21-Au16452	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenthion	S21-Au16452	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Malathion	S21-Au16452	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Merphos	S21-Au16452	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Methyl parathion	S21-Au16452	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Mevinphos	S21-Au16452	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Monocrotophos	S21-Au16452	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Naled	S21-Au16452	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Omethoate	S21-Au16452	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Phorate	S21-Au16452	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pirimiphos-methyl	S21-Au16452	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pyrazophos	S21-Au16452	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ronnel	S21-Au16452	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Terbufos	S21-Au16452	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tetrachlorvinphos	S21-Au16452	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tokuthion	S21-Au16452	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Trichloronate	S21-Au16452	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	

Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	S21-Au16452	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1221	S21-Au16452	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	S21-Au16452	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1242	S21-Au16452	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1248	S21-Au16452	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1254	S21-Au16452	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1260	S21-Au16452	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Total PCB*	S21-Au16452	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-Au16456	CP	%	19	17	13	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	S21-Au16462	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Naphthalene	S21-Au16462	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S21-Au16462	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S21-Au16462	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S21-Au16462	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S21-Au16462	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S21-Au16462	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S21-Au16462	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S21-Au16462	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-Au16464	CP	mg/kg	8.2	9.1	10	30%	Pass	
Cadmium	S21-Au16464	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S21-Au16464	CP	mg/kg	13	12	3.0	30%	Pass	
Copper	S21-Au16464	CP	mg/kg	14	13	6.0	30%	Pass	
Lead	S21-Au16464	CP	mg/kg	28	25	10	30%	Pass	
Mercury	S21-Au16464	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S21-Au16464	CP	mg/kg	8.5	11	24	30%	Pass	
Zinc	S21-Au16464	CP	mg/kg	79	87	9.0	30%	Pass	
Duplicate									
SPOCAS Suite				Result 1	Result 2	RPD			
pH-KCL	S21-Au16471	CP	pH Units	4.9	4.9	<1	30%	Pass	
pH-OX	S21-Au16471	CP	pH Units	3.4	3.4	2.0	30%	Pass	
Acid trail - Titratable Actual Acidity	S21-Au16471	CP	mol H+/t	170	200	13	30%	Pass	
Acid trail - Titratable Peroxide Acidity	S21-Au16471	CP	mol H+/t	1600	1900	16	30%	Pass	
Acid trail - Titratable Sulfidic Acidity	S21-Au16471	CP	mol H+/t	1500	1700	16	30%	Pass	
sulfidic - TAA equiv. S% pyrite	S21-Au16471	CP	% pyrite S	0.28	0.32	13	30%	Pass	
sulfidic - TPA equiv. S% pyrite	S21-Au16471	CP	% pyrite S	2.6	3.1	16	30%	Pass	
sulfidic - TSA equiv. S% pyrite	S21-Au16471	CP	% pyrite S	2.3	2.8	16	30%	Pass	
Sulfur - KCl Extractable	S21-Au16471	CP	% S	< 0.02	< 0.02	<1	30%	Pass	
Sulfur - Peroxide	S21-Au16471	CP	% S	0.52	0.59	13	30%	Pass	
Sulfur - Peroxide Oxidisable Sulfur	S21-Au16471	CP	% S	0.52	0.59	13	30%	Pass	
acidity - Peroxide Oxidisable Sulfur	S21-Au16471	CP	mol H+/t	320	370	13	30%	Pass	
HCl Extractable Sulfur	S21-Au16471	CP	% S	N/A	N/A	N/A	30%	Pass	
Net Acid soluble sulfur	S21-Au16471	CP	% S	N/A	N/A	N/A	30%	Pass	
Net Acid soluble sulfur - acidity units	S21-Au16471	CP	mol H+/t	N/A	N/A	N/A	30%	Pass	
Net Acid soluble sulfur - equivalent S% pyrite	S21-Au16471	CP	% S	N/A	N/A	N/A	30%	Pass	

Duplicate									
SPOCAS Suite				Result 1	Result 2	RPD			
Calcium - KCl Extractable	S21-Au16471	CP	% Ca	0.23	0.21	7.0	30%	Pass	
Calcium - Peroxide	S21-Au16471	CP	% Ca	0.22	0.23	5.0	30%	Pass	
Acid Reacted Calcium	S21-Au16471	CP	% Ca	< 0.02	< 0.02	<1	30%	Pass	
acidity - Acid Reacted Calcium	S21-Au16471	CP	mol H+/t	< 10	< 10	<1	30%	Pass	
sulfidic - Acid Reacted Ca equiv. S% pyrite	S21-Au16471	CP	% S	< 0.02	< 0.02	<1	30%	Pass	
Magnesium - KCl Extractable	S21-Au16471	CP	% Mg	0.02	0.02	7.0	30%	Pass	
Magnesium - Peroxide	S21-Au16471	CP	% Mg	0.02	0.03	7.0	30%	Pass	
Acid Reacted Magnesium	S21-Au16471	CP	% Mg	< 0.02	< 0.02	<1	30%	Pass	
acidity - Acid Reacted Magnesium	S21-Au16471	CP	mol H+/t	< 10	< 10	<1	30%	Pass	
sulfidic - Acid Reacted Mg equiv. S% pyrite	S21-Au16471	CP	% S	< 0.02	< 0.02	<1	30%	Pass	
Acid Neutralising Capacity (ANCE)	S21-Au16471	CP	% CaCO3	N/A	N/A	N/A	30%	Pass	
Acid Neutralising Capacity - Acidity units (a-ANCE)	S21-Au16471	CP	mol H+/t	n/a	n/a	N/A	30%	Pass	
ANC Fineness Factor	S21-Au16471	CP	factor	1.5	1.5	<1	30%	Pass	
SPOCAS - Net Acidity (Sulfur Units)	S21-Au16471	CP	% S	0.80	0.91	13	30%	Pass	
SPOCAS - Net Acidity (Acidity Units)	S21-Au16471	CP	mol H+/t	500	570	13	30%	Pass	
SPOCAS - Liming rate	S21-Au16471	CP	kg CaCO3/t	37	43	13	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S21-Au16474	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S21-Au16474	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S21-Au16474	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S21-Au16474	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S21-Au16474	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S21-Au16474	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S21-Au16474	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S21-Au16474	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S21-Au16474	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S21-Au16474	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S21-Au16474	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S21-Au16474	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S21-Au16474	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S21-Au16474	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S21-Au16474	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S21-Au16474	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S21-Au16474	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S21-Au16474	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S21-Au16474	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S21-Au16474	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	S21-Au16474	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S21-Au16474	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	S21-Au16474	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	S21-Au16474	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S21-Au16474	CP	mg/kg	< 0.05	0.15	170	30%	Fail	Q15
Endosulfan I	S21-Au16474	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S21-Au16474	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S21-Au16474	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S21-Au16474	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S21-Au16474	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S21-Au16474	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	

Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
g-HCH (Lindane)	S21-Au16474	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S21-Au16474	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S21-Au16474	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S21-Au16474	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S21-Au16474	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Toxaphene	S21-Au16474	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organophosphorus Pesticides				Result 1	Result 2	RPD			
Azinphos-methyl	S21-Au16474	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Bolstar	S21-Au16474	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorfenvinphos	S21-Au16474	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos	S21-Au16474	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Chlorpyrifos-methyl	S21-Au16474	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Coumaphos	S21-Au16474	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Demeton-S	S21-Au16474	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Demeton-O	S21-Au16474	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Diazinon	S21-Au16474	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dichlorvos	S21-Au16474	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Dimethoate	S21-Au16474	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Disulfoton	S21-Au16474	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
EPN	S21-Au16474	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethion	S21-Au16474	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethoprop	S21-Au16474	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ethyl parathion	S21-Au16474	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenitrothion	S21-Au16474	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fensulfothion	S21-Au16474	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Fenthion	S21-Au16474	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Malathion	S21-Au16474	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Merphos	S21-Au16474	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Methyl parathion	S21-Au16474	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Mevinphos	S21-Au16474	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Monocrotophos	S21-Au16474	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Naled	S21-Au16474	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Omethoate	S21-Au16474	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Phorate	S21-Au16474	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pirimiphos-methyl	S21-Au16474	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Pyrazophos	S21-Au16474	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Ronnel	S21-Au16474	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Terbufos	S21-Au16474	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tetrachlorvinphos	S21-Au16474	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Tokuthion	S21-Au16474	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Trichloronate	S21-Au16474	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-Au16474	CP	%	4.2	4.3	2.0	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-Au16482	CP	mg/kg	2.2	< 2	21	30%	Pass	
Cadmium	S21-Au16482	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S21-Au16482	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	S21-Au16482	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Lead	S21-Au16482	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Mercury	S21-Au16482	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S21-Au16482	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Zinc	S21-Au16482	CP	mg/kg	< 5	< 5	<1	30%	Pass	

Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	S21-Au16487	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S21-Au16487	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S21-Au16487	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S21-Au16487	CP	mg/kg	< 50	< 50	<1	30%	Pass	
Naphthalene	S21-Au16487	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S21-Au16487	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S21-Au16487	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S21-Au16487	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S21-Au16487	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S21-Au16487	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S21-Au16487	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S21-Au16487	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S21-Au16487	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S21-Au16487	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S21-Au16487	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
SPOCAS Suite				Result 1	Result 2	RPD			
pH-KCL	S21-Au16489	CP	pH Units	5.1	5.1	<1	30%	Pass	
pH-OX	S21-Au16489	CP	pH Units	3.7	3.8	2.0	30%	Pass	
Acid trail - Titratable Actual Acidity	S21-Au16489	CP	mol H+/t	38	39	3.0	30%	Pass	
Acid trail - Titratable Peroxide Acidity	S21-Au16489	CP	mol H+/t	210	180	13	30%	Pass	
Acid trail - Titratable Sulfidic Acidity	S21-Au16489	CP	mol H+/t	170	140	17	30%	Pass	
sulfidic - TAA equiv. S% pyrite	S21-Au16489	CP	% pyrite S	0.060	0.060	3.0	30%	Pass	
sulfidic - TPA equiv. S% pyrite	S21-Au16489	CP	% pyrite S	0.33	0.29	13	30%	Pass	
sulfidic - TSA equiv. S% pyrite	S21-Au16489	CP	% pyrite S	0.27	0.23	17	30%	Pass	
Sulfur - KCl Extractable	S21-Au16489	CP	% S	< 0.02	< 0.02	<1	30%	Pass	
Sulfur - Peroxide	S21-Au16489	CP	% S	0.09	0.08	12	30%	Pass	
Sulfur - Peroxide Oxidisable Sulfur	S21-Au16489	CP	% S	0.10	0.08	12	30%	Pass	
acidity - Peroxide Oxidisable Sulfur	S21-Au16489	CP	mol H+/t	59	52	12	30%	Pass	
HCl Extractable Sulfur	S21-Au16489	CP	% S	N/A	N/A	N/A	30%	Pass	
Net Acid soluble sulfur	S21-Au16489	CP	% S	N/A	N/A	N/A	30%	Pass	
Net Acid soluble sulfur - acidity units	S21-Au16489	CP	mol H+/t	N/A	N/A	N/A	30%	Pass	
Net Acid soluble sulfur - equivalent S% pyrite	S21-Au16489	CP	% S	N/A	N/A	N/A	30%	Pass	
Calcium - KCl Extractable	S21-Au16489	CP	% Ca	< 0.02	< 0.02	<1	30%	Pass	
Calcium - Peroxide	S21-Au16489	CP	% Ca	< 0.02	< 0.02	<1	30%	Pass	
Acid Reacted Calcium	S21-Au16489	CP	% Ca	< 0.02	< 0.02	<1	30%	Pass	
acidity - Acid Reacted Calcium	S21-Au16489	CP	mol H+/t	< 10	< 10	<1	30%	Pass	
sulfidic - Acid Reacted Ca equiv. S% pyrite	S21-Au16489	CP	% S	< 0.02	< 0.02	<1	30%	Pass	
Magnesium - KCl Extractable	S21-Au16489	CP	% Mg	< 0.02	< 0.02	<1	30%	Pass	
Magnesium - Peroxide	S21-Au16489	CP	% Mg	< 0.02	< 0.02	<1	30%	Pass	
Acid Reacted Magnesium	S21-Au16489	CP	% Mg	< 0.02	< 0.02	<1	30%	Pass	
acidity - Acid Reacted Magnesium	S21-Au16489	CP	mol H+/t	< 10	< 10	<1	30%	Pass	
sulfidic - Acid Reacted Mg equiv. S% pyrite	S21-Au16489	CP	% S	< 0.02	< 0.02	<1	30%	Pass	
Acid Neutralising Capacity (ANCE)	S21-Au16489	CP	% CaCO3	N/A	N/A	N/A	30%	Pass	
Acid Neutralising Capacity - Acidity units (a-ANCE)	S21-Au16489	CP	mol H+/t	n/a	n/a	N/A	30%	Pass	
ANC Fineness Factor	S21-Au16489	CP	factor	1.5	1.5	<1	30%	Pass	
SPOCAS - Net Acidity (Sulfur Units)	S21-Au16489	CP	% S	0.16	0.15	6.0	30%	Pass	

Duplicate									
SPOCAS Suite				Result 1	Result 2	RPD			
SPOCAS - Net Acidity (Acidity Units)	S21-Au16489	CP	mol H+/t	97	91	6.0	30%	Pass	
SPOCAS - Liming rate	S21-Au16489	CP	kg CaCO3/t	7.0	7.0	6.0	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-Au16495	CP	%	7.7	7.7	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C10-C14	S21-Au16499	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH C15-C28	S21-Au16499	CP	mg/kg	< 250	< 250	<1	30%	Pass	
TRH C29-C36	S21-Au16499	CP	mg/kg	< 250	< 250	<1	30%	Pass	
TRH >C10-C16	S21-Au16499	CP	mg/kg	< 250	< 250	<1	30%	Pass	
TRH >C16-C34	S21-Au16499	CP	mg/kg	< 500	< 500	<1	30%	Pass	
TRH >C34-C40	S21-Au16499	CP	mg/kg	< 500	< 500	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S21-Au16505	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Cadmium	S21-Au16505	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S21-Au16505	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	S21-Au16505	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Lead	S21-Au16505	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Mercury	S21-Au16505	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S21-Au16505	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Zinc	S21-Au16505	CP	mg/kg	13	15	13	30%	Pass	

Comments

This report has been revised (V2) to include PCB results where OCP/OPP has been reported.

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.
S02	Retained Acidity is Reported when the pHKCl is less than pH 4.5

Authorised by:

Ursula Long	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)
John Nguyen	Senior Analyst-Metal (NSW)
Myles Clark	Senior Analyst-SPOCAS (QLD)
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.

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

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Site Number 18217

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

Attention:	Matthew Linz
Report	815820-AID-V2
Project Name	GARDNERS RD
Project ID	61301
Received Date	Aug 09, 2021
Date Reported	Aug 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 GARDNERS RD
Project ID 61301
Date Sampled Aug 05, 2021 to Aug 06, 2021
Report 815820-AID-V2

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
BH01 0.2-1	21-Au16451	Aug 05, 2021	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.
BH02 0.2-1	21-Au16453	Aug 05, 2021	Approximate Sample 749g Sample consisted of: Brown coarse-grained soil, sandstone and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH02 0.9-1	21-Au16454	Aug 05, 2021	Approximate Sample 645g Sample consisted of: Brown fine-grained clayey soil, sandstone and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH03 0-1	21-Au16455	Aug 05, 2021	Approximate Sample 517g Sample consisted of: Brown coarse-grained soil, sandstone and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH04 0.2-1	21-Au16457	Aug 05, 2021	Approximate Sample 751g 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.
BH06 0.2-0.3	21-Au16462	Aug 05, 2021	Approximate Sample 836g Sample consisted of: Brown coarse-grained soil, glass, sandstone and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH07 0.2-1	21-Au16463	Aug 05, 2021	Approximate Sample 476g 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.
BH08 0.2-1	21-Au16465	Aug 05, 2021	Approximate Sample 605g Sample consisted of: Brown coarse-grained soil, glass, sandstone and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

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Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
BH09 0.2-1	21-Au16467	Aug 05, 2021	Approximate Sample 583g Sample consisted of: Brown coarse-grained soil, cement, sandstone and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH12 0.2-0.5	21-Au16469	Aug 06, 2021	Approximate Sample 251g Sample consisted of: Brown coarse-grained soil, bitumen, brick, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH13 0.2-1	21-Au16473	Aug 06, 2021	Approximate Sample 639g Sample consisted of: Brown coarse-grained soil, bitumen, brick, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH16 0.2-1	21-Au16478	Aug 06, 2021	Approximate Sample 264g 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.
BH17 0.2-1	21-Au16480	Aug 06, 2021	Approximate Sample 427g Sample consisted of: Brown coarse-grained soil, sandstone and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH18 0.2-1	21-Au16483	Aug 06, 2021	Approximate Sample 286g Sample consisted of: Brown fine-grained clayey soil, cement, sandstone and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH19 0.2-1	21-Au16486	Aug 06, 2021	Approximate Sample 359g Sample consisted of: Brown fine-grained clayey soil, coal, sandstone and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH20 0.2-1	21-Au16490	Aug 06, 2021	Approximate Sample 412g Sample consisted of: Brown coarse-grained soil, sandstone and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH15 0.2-1	21-Au16492	Aug 06, 2021	Approximate Sample 353g 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.
QC 2021005-01	21-Au16494	Aug 06, 2021	Approximate Sample 666g Sample consisted of: Brown coarse-grained soil, sandstone, debris and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
QC 2021005-02	21-Au16495	Aug 06, 2021	Approximate Sample 641g Sample consisted of: Brown coarse-grained soil, sandstone and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH21 0.2-1	21-Au16498	Aug 06, 2021	Approximate Sample 264g Sample consisted of: Brown fine-grained clayey soil, coal and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH10 0.2-1	21-Au16500	Aug 06, 2021	Approximate Sample 458g 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.

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Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
BH11 0.2-0.9	21-Au16503	Aug 06, 2021	Approximate Sample 687g Sample consisted of: Brown coarse-grained soil, coal, bitumen, brick, cement, debris, corroded metal and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
BH07 0.2-0.3	21-Au16521	Aug 05, 2021	Approximate Sample 673g Sample consisted of: Brown coarse-grained soil, coal, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

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	Aug 10, 2021	Indefinite

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

Project Name: GARDNERS RD
Project ID: 61301

Order No.:
Report #: 815820
Phone: 02 8245 0300
Fax:

Received: Aug 9, 2021 12:37 PM
Due: Aug 26, 2021
Priority: Overnight
Contact Name: Matthew Linz

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	CANCELLED	HOLD	Polychlorinated Biphenyls	Metals M8	BTEX	SPOCAS Suite	Moisture Set	Moisture Set	Eurofins Suite B10	BTEX
Melbourne Laboratory - NATA Site # 1254																
Sydney Laboratory - NATA Site # 18217						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	BH01 0.2-1	Aug 05, 2021		Soil	S21-Au16451	X										
2	BH01 0.2-0.3	Aug 05, 2021		Soil	S21-Au16452				X					X	X	
3	BH02 0.2-1	Aug 05, 2021		Soil	S21-Au16453	X										
4	BH02 0.9-1	Aug 05, 2021		Soil	S21-Au16454	X			X					X	X	
5	BH03 0-1	Aug 05, 2021		Soil	S21-Au16455	X										
6	BH03 0.4-0.5	Aug 05, 2021		Soil	S21-Au16456				X					X	X	
7	BH04 0.2-1	Aug 05, 2021		Soil	S21-Au16457	X										
8	BH04 0.2-0.3	Aug 05, 2021		Soil	S21-Au16458				X					X	X	
9	BH05 0.2-1	Aug 05, 2021		Soil	S21-Au16459		X									

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Melbourne Laboratory - NATA Site # 1254																
Sydney Laboratory - NATA Site # 18217						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	BH05 0.9-1	Aug 05, 2021		Soil	S21-Au16460				X					X	X	
11	BH06 0.2-1	Aug 05, 2021		Soil	S21-Au16461		X									
12	BH06 0.2-0.3	Aug 05, 2021		Soil	S21-Au16462	X			X					X	X	
13	BH07 0.2-1	Aug 05, 2021		Soil	S21-Au16463	X										
14	BH07 0.4-0.5	Aug 05, 2021		Soil	S21-Au16464				X					X	X	
15	BH08 0.2-1	Aug 05, 2021		Soil	S21-Au16465	X										
16	BH08 0.2-0.3	Aug 05, 2021		Soil	S21-Au16466				X					X	X	
17	BH09 0.2-1	Aug 05, 2021		Soil	S21-Au16467	X										
18	BH09 0.4-0.5	Aug 05, 2021		Soil	S21-Au16468				X					X	X	
19	BH12 0.2-0.5	Aug 06, 2021		Soil	S21-Au16469	X										
20	BH12 0.4-0.5	Aug 06, 2021		Soil	S21-Au16470				X					X	X	

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Melbourne Laboratory - NATA Site # 1254																
Sydney Laboratory - NATA Site # 18217						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	BH12 3-4	Aug 06, 2021		Soil	S21-Au16471					X		X		X		
22	BH12 5-6	Aug 06, 2021		Soil	S21-Au16472					X		X		X		
23	BH13 0.2-1	Aug 06, 2021		Soil	S21-Au16473	X						X	X			
24	BH13 0.9-1	Aug 06, 2021		Soil	S21-Au16474				X					X	X	
25	BH13 1-2	Aug 06, 2021		Soil	S21-Au16475							X	X			
26	BH14 0.2-1	Aug 06, 2021		Soil	S21-Au16476							X	X			
27	BH14 1-2	Aug 06, 2021		Soil	S21-Au16477				X			X		X	X	
28	BH16 0.2-1	Aug 06, 2021		Soil	S21-Au16478	X										
29	BH16 0.9-1	Aug 06, 2021		Soil	S21-Au16479				X					X	X	
30	BH17 0.2-1	Aug 06, 2021		Soil	S21-Au16480	X						X	X			
31	BH17 0.2-0.3	Aug 06, 2021		Soil	S21-Au16481				X					X	X	

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Melbourne Laboratory - NATA Site # 1254																
Sydney Laboratory - NATA Site # 18217						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	BH17 3-4	Aug 06, 2021		Soil	S21-Au16482					X		X		X		
33	BH18 0.2-1	Aug 06, 2021		Soil	S21-Au16483	X										
34	BH18 0.4-0.5	Aug 06, 2021		Soil	S21-Au16484				X					X	X	
35	BH18 1-2	Aug 06, 2021		Soil	S21-Au16485							X	X			
36	BH19 0.2-1	Aug 06, 2021		Soil	S21-Au16486	X										
37	BH19 0.4-0.5	Aug 06, 2021		Soil	S21-Au16487				X					X	X	
38	BH19 1-1.5	Aug 06, 2021		Soil	S21-Au16488							X	X			
39	BH19 3.2-4	Aug 06, 2021		Soil	S21-Au16489							X	X			
40	BH20 0.2-1	Aug 06, 2021		Soil	S21-Au16490	X						X	X			
41	BH20 0.4-0.5	Aug 06, 2021		Soil	S21-Au16491				X					X	X	
42	BH15 0.2-1	Aug 06, 2021		Soil	S21-Au16492	X						X	X			

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Report #: 815820
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Fax:

Received: Aug 9, 2021 12:37 PM
Due: Aug 26, 2021
Priority: Overnight
Contact Name: Matthew Linz

Eurofins Analytical Services Manager : Ursula Long

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Melbourne Laboratory - NATA Site # 1254																
Sydney Laboratory - NATA Site # 18217						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	BH15 0.4-0.5	Aug 06, 2021		Soil	S21-Au16493				X					X	X	
44	QC 2021005-01	Aug 06, 2021		Soil	S21-Au16494	X			X					X	X	
45	QC 2021005-02	Aug 06, 2021		Soil	S21-Au16495	X			X					X	X	
46	TRIP SPIKE	Aug 06, 2021		Water	S21-Au16496											X
47	TRIP BLANK	Aug 06, 2021		Water	S21-Au16497						X					
48	BH21 0.2-1	Aug 06, 2021		Soil	S21-Au16498	X										
49	BH21 1-2	Aug 06, 2021		Soil	S21-Au16499				X			X		X	X	
50	BH10 0.2-1	Aug 06, 2021		Soil	S21-Au16500	X						X	X			
51	BH10 0.9-1	Aug 06, 2021		Soil	S21-Au16501				X					X	X	

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Sydney Laboratory - NATA Site # 18217						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																
52	BH10 1-2	Aug 06, 2021		Soil	S21-Au16502							X	X			
53	BH11 0.2-0.9	Aug 06, 2021		Soil	S21-Au16503	X										
54	BH11.9-1.0	Aug 06, 2021		Soil	S21-Au16504				X					X	X	
55	BH11 1-2	Aug 06, 2021		Soil	S21-Au16505					X				X		
56	BH01 0.4-0.5	Aug 05, 2021		Soil	S21-Au16506			X								
57	BH01 0.9-1	Aug 05, 2021		Soil	S21-Au16507			X								
58	BH01 1-1.2	Aug 05, 2021		Soil	S21-Au16508			X								
59	BH02 0.2-0.3	Aug 05, 2021		Soil	S21-Au16509			X								
60	BH02 0.4-0.5	Aug 05, 2021		Soil	S21-Au16510			X								
61	BH02 1-1.2	Aug 05, 2021		Soil	S21-Au16511			X								
62	BH03 0.2-0.3	Aug 05, 2021		Soil	S21-Au16512			X								

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Melbourne Laboratory - NATA Site # 1254																
Sydney Laboratory - NATA Site # 18217						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																
63	BH03 0.8-0.9	Aug 05, 2021		Soil	S21-Au16513			X								
64	BH03 0.9-1	Aug 05, 2021		Soil	S21-Au16514			X								
65	BH04 0.4-0.5	Aug 05, 2021		Soil	S21-Au16515			X								
66	BH04 0.9-1	Aug 05, 2021		Soil	S21-Au16516			X								
67	BH05 0.2-0.3	Aug 05, 2021		Soil	S21-Au16517			X								
68	BH05 0.4-0.5	Aug 05, 2021		Soil	S21-Au16518			X								
69	BH06 0.4-0.5	Aug 05, 2021		Soil	S21-Au16519			X								
70	BH06 0.9-1	Aug 05, 2021		Soil	S21-Au16520			X								
71	BH07 0.2-0.3	Aug 05, 2021		Soil	S21-Au16521	X										
72	BH07 0.9-1	Aug 05, 2021		Soil	S21-Au16522			X								
73	BH08 0.4-0.5	Aug 05, 2021		Soil	S21-Au16523			X								

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Melbourne Laboratory - NATA Site # 1254																
Sydney Laboratory - NATA Site # 18217						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																
74	BH08 0.9-1	Aug 05, 2021		Soil	S21-Au16524			X								
75	BH09 0.2-0.3	Aug 05, 2021		Soil	S21-Au16525			X								
76	BH09 0.9-1	Aug 05, 2021		Soil	S21-Au16526			X								
77	BH12 0.2-0.3	Aug 06, 2021		Soil	S21-Au16527			X								
78	BH12 0.9-1	Aug 06, 2021		Soil	S21-Au16528			X								
79	BH12 1-2	Aug 06, 2021		Soil	S21-Au16529			X								
80	BH12 2-3	Aug 06, 2021		Soil	S21-Au16530			X								
81	BH12 4-5	Aug 06, 2021		Soil	S21-Au16531			X								
82	BH13 0.2-3	Aug 06, 2021		Soil	S21-Au16532			X								
83	BH13 0.4-0.5	Aug 06, 2021		Soil	S21-Au16533			X								
84	BH14 0.2-0.3	Aug 06, 2021		Soil	S21-Au16534			X								

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Melbourne Laboratory - NATA Site # 1254																
Sydney Laboratory - NATA Site # 18217						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																
85	BH14 0.4-0.5	Aug 06, 2021		Soil	S21-Au16535			X								
86	BH16 0.2-0.3	Aug 06, 2021		Soil	S21-Au16536			X								
87	BH16 0.4-0.5	Aug 06, 2021		Soil	S21-Au16537			X								
88	BH16 1-2	Aug 06, 2021		Soil	S21-Au16538			X								
89	BH17 0.4-0.5	Aug 06, 2021		Soil	S21-Au16539			X								
90	BH17 0.9-1	Aug 06, 2021		Soil	S21-Au16540			X								
91	BH17 1-2	Aug 06, 2021		Soil	S21-Au16541			X								
92	BH17 2-3	Aug 06, 2021		Soil	S21-Au16542			X								
93	BH17 4-5	Aug 06, 2021		Soil	S21-Au16543			X								
94	BH18 0.2-0.3	Aug 06, 2021		Soil	S21-Au16544			X								
95	BH18 0.9-1	Aug 06, 2021		Soil	S21-Au16545			X								

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Sydney Laboratory - NATA Site # 18217						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																
96	BH18 2.5-3	Aug 06, 2021		Soil	S21-Au16546			X								
97	BH18 3-4	Aug 06, 2021		Soil	S21-Au16547			X								
98	BH18 4-5	Aug 06, 2021		Soil	S21-Au16548			X								
99	BH19 0.2-0.3	Aug 06, 2021		Soil	S21-Au16549			X								
100	BH19 0.9-1	Aug 06, 2021		Soil	S21-Au16550			X								
101	BH19 2-3	Aug 06, 2021		Soil	S21-Au16551			X								
102	BH19 4-5	Aug 06, 2021		Soil	S21-Au16552			X								
103	BH20 0.2-0.3	Aug 06, 2021		Soil	S21-Au16553			X								
104	BH20 0.9-1	Aug 06, 2021		Soil	S21-Au16554			X								
105	BH20 1-2	Aug 06, 2021		Soil	S21-Au16555			X								
106	BH20 2-3	Aug 06, 2021		Soil	S21-Au16556			X								

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Sydney Laboratory - NATA Site # 18217						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																
107	BH20 3-4	Aug 06, 2021		Soil	S21-Au16557			X								
108	BH20 4-5	Aug 06, 2021		Soil	S21-Au16558			X								
109	BH15 0.2-0.3	Aug 06, 2021		Soil	S21-Au16559			X								
110	BH15 0.9-1	Aug 06, 2021		Soil	S21-Au16560			X								
111	BH15 1-2	Aug 06, 2021		Soil	S21-Au16561			X								
112	QC 2021005-03	Aug 06, 2021		Soil	S21-Au16562			X								
113	QC 2021005-04	Aug 06, 2021		Soil	S21-Au16563			X								
114	BH21 0.2-0.3	Aug 06, 2021		Soil	S21-Au16564			X								
115	BH21 0.4-0.5	Aug 06, 2021		Soil	S21-Au16565			X								

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Sydney Laboratory - NATA Site # 18217						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																
116	BH21 0.9-1	Aug 06, 2021		Soil	S21-Au16566			X								
117	BH21 2-3	Aug 06, 2021		Soil	S21-Au16567			X								
118	BH21 3.5-4	Aug 06, 2021		Soil	S21-Au16568			X								
119	BH21 4-5	Aug 06, 2021		Soil	S21-Au16569			X								
120	BH10 0.2-0.3	Aug 06, 2021		Soil	S21-Au16570			X								
121	BH10 0.4-0.5	Aug 06, 2021		Soil	S21-Au16571			X								
122	BH11 0.2-0.3	Aug 06, 2021		Soil	S21-Au17820			X								
123	BH11 0.4-0.5	Aug 06, 2021		Soil	S21-Au17821			X								
124	BH11 0.6-0.7	Aug 06, 2021		Soil	S21-Au17822			X								
Test Counts						23	2	68	23	4	1	16	38	38	23	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

This report has been revised (V2) to include PCB results where OCP/OPP has been reported.

Au16463, Au16469, Au16478, Au16480, Au16483, Au16486, Au16490, Au16492, Au16498, Au16500: 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.

Eurofins shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

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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: **Matthew Linz**

Report **815820-W-V2**
Project name GARDNERS RD
Project ID 61301
Received Date Aug 09, 2021

Client Sample ID			**TRIP SPIKE**	**TRIP BLANK**
Sample Matrix			**Water**	**Water**
Eurofins Sample No.			**S21-Au16496**	**S21-Au16497**
Date Sampled			**Aug 06, 2021**	**Aug 06, 2021**
Test/Reference	LOR	Unit		
BTEX				
Benzene	1	%	120	-
Ethylbenzene	1	%	110	-
m&p-Xylenes	1	%	110	-
o-Xylene	1	%	100	-
Toluene	1	%	110	-
Xylenes - Total	1	%	100	-
4-Bromofluorobenzene (surr.)	1	%	109	-
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	%	-	90

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	Aug 09, 2021	14 Days

- Method: LTM-ORG-2010 TRH C6-C40

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Project ID: 61301

Order No.:
Report #: 815820
Phone: 02 8245 0300
Fax:

Received: Aug 9, 2021 12:37 PM
Due: Aug 16, 2021
Priority: 5 Day
Contact Name: Matthew Linz

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	CANCELLED	HOLD	Metals M8	BTEX	SPOCAS Suite	Moisture Set	Moisture Set	Eurofins Suite B10	BTEX
Melbourne Laboratory - NATA Site # 1254															
Sydney Laboratory - NATA Site # 18217						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	BH01 0.2-1	Aug 05, 2021		Soil	S21-Au16451	X									
2	BH01 0.2-0.3	Aug 05, 2021		Soil	S21-Au16452								X	X	
3	BH02 0.2-1	Aug 05, 2021		Soil	S21-Au16453	X									
4	BH02 0.9-1	Aug 05, 2021		Soil	S21-Au16454	X							X	X	
5	BH03 0-1	Aug 05, 2021		Soil	S21-Au16455	X									
6	BH03 0.4-0.5	Aug 05, 2021		Soil	S21-Au16456								X	X	
7	BH04 0.2-1	Aug 05, 2021		Soil	S21-Au16457	X									
8	BH04 0.2-0.3	Aug 05, 2021		Soil	S21-Au16458								X	X	
9	BH05 0.2-1	Aug 05, 2021		Soil	S21-Au16459		X								

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Melbourne Laboratory - NATA Site # 1254															
Sydney Laboratory - NATA Site # 18217						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	BH05 0.9-1	Aug 05, 2021		Soil	S21-Au16460								X	X	
11	BH06 0.2-1	Aug 05, 2021		Soil	S21-Au16461		X								
12	BH06 0.2-0.3	Aug 05, 2021		Soil	S21-Au16462	X							X	X	
13	BH07 0.2-1	Aug 05, 2021		Soil	S21-Au16463	X									
14	BH07 0.4-0.5	Aug 05, 2021		Soil	S21-Au16464								X	X	
15	BH08 0.2-1	Aug 05, 2021		Soil	S21-Au16465	X									
16	BH08 0.2-0.3	Aug 05, 2021		Soil	S21-Au16466								X	X	
17	BH09 0.2-1	Aug 05, 2021		Soil	S21-Au16467	X									
18	BH09 0.4-0.5	Aug 05, 2021		Soil	S21-Au16468								X	X	
19	BH12 0.2-0.5	Aug 06, 2021		Soil	S21-Au16469	X									
20	BH12 0.4-0.5	Aug 06, 2021		Soil	S21-Au16470								X	X	

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Melbourne Laboratory - NATA Site # 1254															
Sydney Laboratory - NATA Site # 18217						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	BH12 3-4	Aug 06, 2021		Soil	S21-Au16471				X		X		X		
22	BH12 5-6	Aug 06, 2021		Soil	S21-Au16472				X		X		X		
23	BH13 0.2-1	Aug 06, 2021		Soil	S21-Au16473	X					X	X			
24	BH13 0.9-1	Aug 06, 2021		Soil	S21-Au16474								X	X	
25	BH13 1-2	Aug 06, 2021		Soil	S21-Au16475						X	X			
26	BH14 0.2-1	Aug 06, 2021		Soil	S21-Au16476						X	X			
27	BH14 1-2	Aug 06, 2021		Soil	S21-Au16477						X		X	X	
28	BH16 0.2-1	Aug 06, 2021		Soil	S21-Au16478	X									
29	BH16 0.9-1	Aug 06, 2021		Soil	S21-Au16479								X	X	
30	BH17 0.2-1	Aug 06, 2021		Soil	S21-Au16480	X					X	X			
31	BH17 0.2-0.3	Aug 06, 2021		Soil	S21-Au16481								X	X	

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Melbourne Laboratory - NATA Site # 1254															
Sydney Laboratory - NATA Site # 18217						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	BH17 3-4	Aug 06, 2021		Soil	S21-Au16482				X		X		X		
33	BH18 0.2-1	Aug 06, 2021		Soil	S21-Au16483	X									
34	BH18 0.4-0.5	Aug 06, 2021		Soil	S21-Au16484								X	X	
35	BH18 1-2	Aug 06, 2021		Soil	S21-Au16485						X	X			
36	BH19 0.2-1	Aug 06, 2021		Soil	S21-Au16486	X									
37	BH19 0.4-0.5	Aug 06, 2021		Soil	S21-Au16487								X	X	
38	BH19 1-1.5	Aug 06, 2021		Soil	S21-Au16488						X	X			
39	BH19 3.2-4	Aug 06, 2021		Soil	S21-Au16489						X	X			
40	BH20 0.2-1	Aug 06, 2021		Soil	S21-Au16490	X					X	X			
41	BH20 0.4-0.5	Aug 06, 2021		Soil	S21-Au16491								X	X	
42	BH15 0.2-1	Aug 06, 2021		Soil	S21-Au16492	X					X	X			

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Melbourne Laboratory - NATA Site # 1254															
Sydney Laboratory - NATA Site # 18217						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	BH15 0.4-0.5	Aug 06, 2021		Soil	S21-Au16493								X	X	
44	QC 2021005-01	Aug 06, 2021		Soil	S21-Au16494	X							X	X	
45	QC 2021005-02	Aug 06, 2021		Soil	S21-Au16495	X							X	X	
46	TRIP SPIKE	Aug 06, 2021		Water	S21-Au16496										X
47	TRIP BLANK	Aug 06, 2021		Water	S21-Au16497					X					
48	BH21 0.2-1	Aug 06, 2021		Soil	S21-Au16498	X									
49	BH21 1-2	Aug 06, 2021		Soil	S21-Au16499						X		X	X	
50	BH10 0.2-1	Aug 06, 2021		Soil	S21-Au16500	X					X	X			
51	BH10 0.9-1	Aug 06, 2021		Soil	S21-Au16501								X	X	

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Melbourne Laboratory - NATA Site # 1254															
Sydney Laboratory - NATA Site # 18217						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															
52	BH10 1-2	Aug 06, 2021		Soil	S21-Au16502						X	X			
53	BH11 0.2-0.9	Aug 06, 2021		Soil	S21-Au16503	X									
54	BH11.9-1.0	Aug 06, 2021		Soil	S21-Au16504								X	X	
55	BH11 1-2	Aug 06, 2021		Soil	S21-Au16505				X				X		
56	BH01 0.4-0.5	Aug 05, 2021		Soil	S21-Au16506			X							
57	BH01 0.9-1	Aug 05, 2021		Soil	S21-Au16507			X							
58	BH01 1-1.2	Aug 05, 2021		Soil	S21-Au16508			X							
59	BH02 0.2-0.3	Aug 05, 2021		Soil	S21-Au16509			X							
60	BH02 0.4-0.5	Aug 05, 2021		Soil	S21-Au16510			X							
61	BH02 1-1.2	Aug 05, 2021		Soil	S21-Au16511			X							
62	BH03 0.2-0.3	Aug 05, 2021		Soil	S21-Au16512			X							

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Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: GARDNERS RD
Project ID: 61301

Order No.:
Report #: 815820
Phone: 02 8245 0300
Fax:

Received: Aug 9, 2021 12:37 PM
Due: Aug 16, 2021
Priority: 5 Day
Contact Name: Matthew Linz

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	CANCELLED	HOLD	Metals M8	BTEX	SPOCAS Suite	Moisture Set	Moisture Set	Eurofins Suite B10	BTEX
Melbourne Laboratory - NATA Site # 1254															
Sydney Laboratory - NATA Site # 18217						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															
63	BH03 0.8-0.9	Aug 05, 2021		Soil	S21-Au16513			X							
64	BH03 0.9-1	Aug 05, 2021		Soil	S21-Au16514			X							
65	BH04 0.4-0.5	Aug 05, 2021		Soil	S21-Au16515			X							
66	BH04 0.9-1	Aug 05, 2021		Soil	S21-Au16516			X							
67	BH05 0.2-0.3	Aug 05, 2021		Soil	S21-Au16517			X							
68	BH05 0.4-0.5	Aug 05, 2021		Soil	S21-Au16518			X							
69	BH06 0.4-0.5	Aug 05, 2021		Soil	S21-Au16519			X							
70	BH06 0.9-1	Aug 05, 2021		Soil	S21-Au16520			X							
71	BH07 0.2-0.3	Aug 05, 2021		Soil	S21-Au16521	X									
72	BH07 0.9-1	Aug 05, 2021		Soil	S21-Au16522			X							
73	BH08 0.4-0.5	Aug 05, 2021		Soil	S21-Au16523			X							

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Melbourne Laboratory - NATA Site # 1254															
Sydney Laboratory - NATA Site # 18217						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															
74	BH08 0.9-1	Aug 05, 2021		Soil	S21-Au16524			X							
75	BH09 0.2-0.3	Aug 05, 2021		Soil	S21-Au16525			X							
76	BH09 0.9-1	Aug 05, 2021		Soil	S21-Au16526			X							
77	BH12 0.2-0.3	Aug 06, 2021		Soil	S21-Au16527			X							
78	BH12 0.9-1	Aug 06, 2021		Soil	S21-Au16528			X							
79	BH12 1-2	Aug 06, 2021		Soil	S21-Au16529			X							
80	BH12 2-3	Aug 06, 2021		Soil	S21-Au16530			X							
81	BH12 4-5	Aug 06, 2021		Soil	S21-Au16531			X							
82	BH13 0.2-3	Aug 06, 2021		Soil	S21-Au16532			X							
83	BH13 0.4-0.5	Aug 06, 2021		Soil	S21-Au16533			X							
84	BH14 0.2-0.3	Aug 06, 2021		Soil	S21-Au16534			X							

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Melbourne Laboratory - NATA Site # 1254															
Sydney Laboratory - NATA Site # 18217						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															
85	BH14 0.4-0.5	Aug 06, 2021		Soil	S21-Au16535			X							
86	BH16 0.2-0.3	Aug 06, 2021		Soil	S21-Au16536			X							
87	BH16 0.4-0.5	Aug 06, 2021		Soil	S21-Au16537			X							
88	BH16 1-2	Aug 06, 2021		Soil	S21-Au16538			X							
89	BH17 0.4-0.5	Aug 06, 2021		Soil	S21-Au16539			X							
90	BH17 0.9-1	Aug 06, 2021		Soil	S21-Au16540			X							
91	BH17 1-2	Aug 06, 2021		Soil	S21-Au16541			X							
92	BH17 2-3	Aug 06, 2021		Soil	S21-Au16542			X							
93	BH17 4-5	Aug 06, 2021		Soil	S21-Au16543			X							
94	BH18 0.2-0.3	Aug 06, 2021		Soil	S21-Au16544			X							
95	BH18 0.9-1	Aug 06, 2021		Soil	S21-Au16545			X							

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Sydney Laboratory - NATA Site # 18217						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															
96	BH18 2.5-3	Aug 06, 2021		Soil	S21-Au16546			X							
97	BH18 3-4	Aug 06, 2021		Soil	S21-Au16547			X							
98	BH18 4-5	Aug 06, 2021		Soil	S21-Au16548			X							
99	BH19 0.2-0.3	Aug 06, 2021		Soil	S21-Au16549			X							
100	BH19 0.9-1	Aug 06, 2021		Soil	S21-Au16550			X							
101	BH19 2-3	Aug 06, 2021		Soil	S21-Au16551			X							
102	BH19 4-5	Aug 06, 2021		Soil	S21-Au16552			X							
103	BH20 0.2-0.3	Aug 06, 2021		Soil	S21-Au16553			X							
104	BH20 0.9-1	Aug 06, 2021		Soil	S21-Au16554			X							
105	BH20 1-2	Aug 06, 2021		Soil	S21-Au16555			X							
106	BH20 2-3	Aug 06, 2021		Soil	S21-Au16556			X							

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Sydney Laboratory - NATA Site # 18217						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															
107	BH20 3-4	Aug 06, 2021		Soil	S21-Au16557			X							
108	BH20 4-5	Aug 06, 2021		Soil	S21-Au16558			X							
109	BH15 0.2-0.3	Aug 06, 2021		Soil	S21-Au16559			X							
110	BH15 0.9-1	Aug 06, 2021		Soil	S21-Au16560			X							
111	BH15 1-2	Aug 06, 2021		Soil	S21-Au16561			X							
112	QC 2021005-03	Aug 06, 2021		Soil	S21-Au16562			X							
113	QC 2021005-04	Aug 06, 2021		Soil	S21-Au16563			X							
114	BH21 0.2-0.3	Aug 06, 2021		Soil	S21-Au16564			X							
115	BH21 0.4-0.5	Aug 06, 2021		Soil	S21-Au16565			X							

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Melbourne Laboratory - NATA Site # 1254															
Sydney Laboratory - NATA Site # 18217						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															
116	BH21 0.9-1	Aug 06, 2021		Soil	S21-Au16566			X							
117	BH21 2-3	Aug 06, 2021		Soil	S21-Au16567			X							
118	BH21 3.5-4	Aug 06, 2021		Soil	S21-Au16568			X							
119	BH21 4-5	Aug 06, 2021		Soil	S21-Au16569			X							
120	BH10 0.2-0.3	Aug 06, 2021		Soil	S21-Au16570			X							
121	BH10 0.4-0.5	Aug 06, 2021		Soil	S21-Au16571			X							
122	BH11 0.2-0.3	Aug 06, 2021		Soil	S21-Au17820			X							
123	BH11 0.4-0.5	Aug 06, 2021		Soil	S21-Au17821			X							
124	BH11 0.6-0.7	Aug 06, 2021		Soil	S21-Au17822			X							
Test Counts						23	2	68	4	1	16	38	38	23	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							
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	%	108			70-130	Pass	
Toluene	%	102			70-130	Pass	
Ethylbenzene	%	103			70-130	Pass	
m&p-Xylenes	%	108			70-130	Pass	
o-Xylene	%	110			70-130	Pass	
Xylenes - Total*	%	109			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
BTEX				Result 1					
Benzene	S21-Au14522	NCP	%	115			70-130	Pass	
Toluene	S21-Au14522	NCP	%	109			70-130	Pass	
Ethylbenzene	S21-Au14522	NCP	%	110			70-130	Pass	
m&p-Xylenes	S21-Au14522	NCP	%	112			70-130	Pass	
o-Xylene	S21-Au14522	NCP	%	112			70-130	Pass	
Xylenes - Total*	S21-Au14522	NCP	%	112			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	S21-Au14468	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Toluene	S21-Au14468	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Ethylbenzene	S21-Au14468	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
m&p-Xylenes	S21-Au14468	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
o-Xylene	S21-Au14468	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Xylenes - Total*	S21-Au14468	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	

Comments

This report has been revised (V2) to include PCB results where OCP/OPP has been reported.

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
Roopesh Rangarajan	Senior Analyst-Volatile (NSW)

Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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Chain of Custody

JBS&G

PROJECT NO.: 61301
PROJECT NAME: Gardners RD
DATE NEEDED BY: 5 day TAT
LABORATORY BATCH NO.: 815820
SAMPLERS: ML
QC LEVEL: NEPM (2013)
PHONE: Sydney 02 8245 0900 | 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) Cbell@jbsg.com.au Mlinz@jbsg.com.au
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos	Heavy Metals	TRH/BTEX	OCP/PCBs	PAHs	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
BH01 0.2-1	Soil	5/8/21	—	B + Ice		/							
0.2-0.3				J			/	/	/				
0.4-0.5				J									
0.9-1				J									
1-1.2				J+B									
BH02 - 0.2-1				B		/							
0.2-0.3				J									
0.4-0.5				J+B									
0.9-1				J+B		/	/	/	/	/			
1.1-1.2				J									
BH03 - 0-1				B		/							
0.2-0.3				J									
0.4-0.5				J			/	/	/	/			
0.8-0.9				J									
0.9-1				J									
BH04 0.2-1				B		/							
0.4-0.5				J									
0.2-0.3				J			/	/	/	/			
0.9-1				J									

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 6-8-21 OF: JBS&G	CONSIGNMENT NOTE NO. courier TRANSPORT CO.	NAME: MR DATE: 9/8/21 OF: Eurofins 12:37PM	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP 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

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2 of 2

Chain of Custody

JBS&G

PROJECT NO.: 61301
PROJECT NAME: Gardiners Rd
DATE NEEDED BY: 5 day TAT
LABORATORY BATCH NO.: 815820
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) MLinz@jbsg.com.au; (3) Cbielby@jbsg.com.au MLinz@jbsg.com.au
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TPH/BTEX	OCP/PCBS	PAHs	Asbestos	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
BH05 0.2 - 1	Soil	5/8/21	-	B + Ice						/			
0.2 - 0.3				J									
0.4 - 0.5				J									
0.9 - 1				J		/	/	/	/				
BH06 0.2 - 1	Soil			B									
0.2 - 0.3				J/B		/	/	/	/	/			
0.4 - 0.5				J									
0.9 - 1				J									
BH07 0.2 - 1				B						/			
0.2 - 0.3				J/B									
0.4 - 0.5				J		/	/	/	/				
0.9 - 1				J									
BH08 0.2 - 1				B						/			
0.2 - 0.3				J		/	/	/	/				
0.4 - 0.5				J									
0.9 - 1				J									
BH09 0.2 - 1				B						/			
0.2 - 0.3				J									
0.4 - 0.5				J		/	/	/	/				
0.9 - 1				J									

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 6-8-21 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO. Courier	NAME: DATE: 9/8/21 OF: Eurofins 2:37PM	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP 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

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3 of 7

Chain of Custody

JBS&G

PROJECT NO.: 6130	LABORATORY BATCH NO.: 815820
PROJECT NAME: Gardiner Rd	SAMPLERS: ML
DATE NEEDED BY: 5 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) .....@jbsg.com.au; (3) .....@jbsg.com.au Mlinz@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos	Heavy Metals	TRH/BTEX	PAHs	OCP/PCBs	Speciated	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
BH12 - 0.2-0.3	Soil	6/8/21	-	J Ice										
0.7-0.5				JB		/								
0.4-0.5				J			/	/	/	/				
0.9-1				J+B										
1-2				J+Spocas										
2-3				J										
3-4				J+Spocas			/				/			
4-5				J+Spocas										
5-6				"			/				/			
BH13 - 0.2-0.3				J										
0.4-0.5				J										
0.7-1				B+Spocas		/					/			
0.9-1				J			/	/	/	/				
1-2				Spocas+Jar							/			
BH14 - 0.2-0.3				J										
0.4-0.5				J										
0.7-1				B+Spocas							/			
1-2				J+Spocas		/	/	/	/	/	/			
QC2														

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DEJ DATE: 6-8-21 OF: JBS&G	CONSIGNMENT NOTE NO. courier TRANSPORT CO.	NAME: MR DATE: 9/8/21 OF: Eurofins 12:37PM	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP 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

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4 of 7

Chain of Custody

JBS&G

PROJECT NO.: 61301
PROJECT NAME: Gardners Rd
DATE NEEDED BY: 5 day TAT
LABORATORY BATCH NO.: 815820
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 Mlinz@jbsg.com.au
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRH/BTEX	PAHs	OCP/PCBs	Asbestos	SPOCAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
BH16 0.2-1	SOIL	6/8/21		B+SPOCAS						/				
0.2-0.3				J										
0.4-0.5				J										
0.9-1				J		/	/	/	/					
1-2				J+SPOCAS										
BH17 0.2-1				B+SPOCAS						/	/			
0.2-0.3				J		/	/	/	/					
0.4-0.5				J										
0.9-1				J		X	X	X	X					
1-2				J+SPOCAS										
2-3				J+SPOCAS										
3-4				J+SPOCAS		/				/				
4-5				J+SPOCAS										
BH18 0.2-1				B+SPOCAS						/				
0.2-0.3				J										
0.4-0.5				J		/	/	/	/					
0.9-1				J										
1-2				J+SPOCAS						/				
2.5-3				J+SPOCAS										

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 6-8-21 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO. Courier	NAME: MR DATE: 9/8/21 OF: Eurofins 12:37pm	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP 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

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Chain of Custody

JBS&G

PROJECT NO.: 61301	LABORATORY BATCH NO.: 815820
PROJECT NAME: Gardners Rd	SAMPLERS: ML
DATE NEEDED BY: 5 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) .....@jbsg.com.au; (3) .....@jbsg.com.au Mlinz@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	Teh/BTEX	PAHs	OCP/PCB	Spocas	Asbestos	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
BH 18 3-4	SOIL	6-8-21		J+SPOCAS										
4-5				J+SPOCAS										
BH 19 0.2-1				B+SPOCAS							/			
0.2-0.3				J										
0.4-0.5				J		/	/	/	/					
0.9-1				J										
1-1.5				J+SPOCAS						/				
2-3				J+SPOCAS										
3.2-4				J+SPOCAS						/				
4-5				J+SPOCAS										
BH 20 0.2-1				B+SPOCAS						/	/			
0.2-0.3				J										
0.4-0.5				J		/	/	/	/					
0.9-1				J										
1-2				J+SPOCAS										
2-3				J+SPOCAS										
3-4				J+SPOCAS										
4-5				J+SPOCAS										

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 6-8-21	CONSIGNMENT NOTE NO.	NAME: MR DATE: 9/8/21	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO. courier	OF: Eurofins 12:37PM	COOLER TEMP 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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6 of 7

Chain of Custody

JBS&G

PROJECT NO.: 61301	LABORATORY BATCH NO.: 315820
PROJECT NAME: Gardners Rd	SAMPLERS: ML
DATE NEEDED BY: 5 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) .....@jbsg.com.au; (3) .....@jbsg.com.au Mlinz@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRH/BTEX	PAHs	OCP/PCBs	Asbestos	Speciation	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
BH 15 0.2-1	SOIL	6-8-21		B + SPOCAS + Ice						/	/			
0.2-0.3				J										
0.4-0.5				J		/	/	/	/					
0.9-1				J										
1-2				J + SPOCAS										
QC 20210505-01				J + B		/	/	/	/	/				
QC 20210505-02				J + B		/	/	/	/	/				
QC 20210805-03				J + B										
QC 20210806-04				J + SPOCAS										
Trip spike / Blank				VIALS + ICE							/			

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 6-8-21 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO. courier	NAME: MR DATE: 9/8/21 OF: Eurofins 12:37pm	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP 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

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7 of 7.

Chain of Custody

JBS&G

PROJECT NO.: G1301	LABORATORY BATCH NO.: 315820
PROJECT NAME: Cardinia Rd	SAMPLERS: ML
DATE NEEDED BY: 5 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) .....@jbsg.com.au; (3) .....@jbsg.com.au Mlinz@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	PAHs	TPH/BTEX	OCP/PCBs	Spocas	Asbestos	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
BH 21 – 0.2–1	SOIL			B+ SPOCAS							/			
0.2–0.3				J+ SPOCAS										
0.4–0.5				J										
0.9–1				J										
1–2				J + SPOCAS		/	/	/	/	/				
2–3				J + SPOCAS										
3.5–4				J + SPOCAS										
4–5				J + SPOCAS										
BH 10 – 0.2–0.3				J										
0.2–1				B+ Spocas		/				/	/			
0.4–0.5				J										
0.9–1				J		/	/	/	/					
1–2				J + Spocas.		.				/				
BH 11 0.2–0.9				B							/			
BH 11 0.9–1.0				J		/	/	/	/					
BH 11 1–2				J		/								

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 6-8-21	CONSIGNMENT NOTE NO. courier	NAME: MR 9/8/21	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: OF: Eurofins 12:37pm	COOLER TEMP 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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Re: Attention: Eurofins Sample Receipt Advice - Report 815820 : Site GARDNERS RD (61301)

Matthew Linz <mlinz@jbsg.com.au>

Tue 8/10/2021 3:56 PM

To: #AU04_Enviro_Sample_NSW <EnviroSampleNSW@eurofins.com>
Cc: Chris Bielby <CBielby@jbsg.com.au>

EXTERNAL EMAIL*

Hello

Yes please complete Asbestos samples for NEMP/WA not identification. no Asbestos bags were submitted for BH05 just the three jars ? if so, can I change the analysis to BH07 0.2-0.3

Regards,
Matthew

From: EnviroSampleNSW@eurofins.com <EnviroSampleNSW@eurofins.com>
Sent: Tuesday, August 10, 2021 3:31 PM
To: Matthew Linz <mlinz@jbsg.com.au>
Cc: Chris Bielby <CBielby@jbsg.com.au>
Subject: Attention: Eurofins Sample Receipt Advice - Report 815820 : Site GARDNERS RD (61301)

[EXTERNAL EMAIL]** Stop and think before opening attachments, clicking or responding.

Dear Valued Client,

Please confirm if Asbestos identification or NEPM/WA is required. Logged by default for Asbestos WA. No asbestos bags received for samples BH05 0.2-1, BH06 0.2-1 and BH14 1-2, Asbestos WA analysis cancelled. No SPOCAS bag received for sample BH21 0.2-0.3. Samples BH11 0.2-0.3, 0.4-0.5, 0.6-0.7 (1x jar each) and BH1 1-2 (1x asbestos bag) received extra and logged on hold. Sample QC 2021005-04 on both Eurofins and Envirolab COCs, forwarded all QA samples to Envirolab.

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 1114 - Eurofins Mould Testing Laboratory is now NATA accredited
EnviroNote 1115 - Eurofins SYDNEY Laboratory is now NATA accredited for PFAS

* WARNING - EXTERNAL: This email originated from outside of Eurofins. Do not click any links or open any attachments unless you trust the sender and know that the content is safe!

eurofins | Environment Testing

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

Australia

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Sydney
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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

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:	Matthew Linz
Project name:	GARDNERS RD
Project ID:	61301
Turnaround time:	5 Day
Date/Time received	Aug 9, 2021 12:37 PM
Eurofins reference	815820

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 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

No asbestos bags received for samples BH05 0.2-1, BH06 0.2-1 and BH14 1-2, Asbestos WA analysis cancelled. No SPOCAS bag received for sample BH21 0.2-0.3. Samples BH11 0.2-0.3, 0.4-0.5, 0.6-0.7 (1x jar each) and BH1 1-2 (1x asbestos bag) received extra and logged on hold. Sample QC 2021005-04 on both Eurofins and Envirolab COCs, forwarded all QA samples 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 Matthew Linz - mlinz@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: **John De Martin**

Report **819631-S**
Project name ADDITIONAL GARDNERS RD
Project ID 61301
Received Date Aug 25, 2021

Client Sample ID			**BH12 1-2**	**BH16 1-2**	**BH17 1-2**	**BH18 1-2**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**S21-Au47582**	**S21-Au47583**	**S21-Au47584**	**S21-Au47585**
Date Sampled			**Aug 06, 2021**	**Aug 06, 2021**	**Aug 06, 2021**	**Aug 06, 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	%	93	89	89	88
p-Terphenyl-d14 (surr.)	1	%	105	100	97	98
% Moisture	1	%	16	6.9	15	11

Client Sample ID			BH18 2.5-3
Sample Matrix			**Soil**
Eurofins Sample No.			**S21-Au47586**
Date Sampled			**Aug 06, 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	%	84
p-Terphenyl-d14 (surr.)	1	%	90
% Moisture	1	%	23

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	Aug 26, 2021	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
% Moisture	Sydney	Aug 25, 2021	14 Days
- Method: LTM-GEN-7080 Moisture			

eurofins | Environment Testing

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NATA # 1261 Site # 18217

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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: ADDITIONAL GARDNERS RD
Project ID: 61301

Order No.:
Report #: 819631
Phone: 02 8245 0300
Fax:

Received: Aug 25, 2021 5:45 PM
Due: Aug 27, 2021
Priority: 2 Day
Contact Name: John De Martin

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Polycyclic Aromatic Hydrocarbons	Moisture Set
Melbourne Laboratory - NATA Site # 1254							
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	BH12 1-2	Aug 06, 2021		Soil	S21-Au47582	X	X
2	BH16 1-2	Aug 06, 2021		Soil	S21-Au47583	X	X
3	BH17 1-2	Aug 06, 2021		Soil	S21-Au47584	X	X
4	BH18 1-2	Aug 06, 2021		Soil	S21-Au47585	X	X
5	BH18 2.5-3	Aug 06, 2021		Soil	S21-Au47586	X	X
Test Counts						5	5

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	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	73			70-130	Pass	
Acenaphthylene	%	85			70-130	Pass	
Anthracene	%	84			70-130	Pass	
Benz(a)anthracene	%	74			70-130	Pass	
Benzo(a)pyrene	%	87			70-130	Pass	
Benzo(b&j)fluoranthene	%	71			70-130	Pass	
Benzo(g.h.i)perylene	%	81			70-130	Pass	
Benzo(k)fluoranthene	%	72			70-130	Pass	
Chrysene	%	77			70-130	Pass	
Dibenz(a.h)anthracene	%	78			70-130	Pass	
Fluoranthene	%	75			70-130	Pass	
Fluorene	%	83			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	78			70-130	Pass	
Naphthalene	%	79			70-130	Pass	
Phenanthrene	%	88			70-130	Pass	
Pyrene	%	74			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-Au42827	NCP	%	95			70-130	Pass	
Acenaphthylene	S21-Au42827	NCP	%	91			70-130	Pass	
Anthracene	S21-Au42827	NCP	%	91			70-130	Pass	
Benz(a)anthracene	S21-Au42827	NCP	%	74			70-130	Pass	
Benzo(a)pyrene	S21-Au42827	NCP	%	79			70-130	Pass	
Benzo(b&j)fluoranthene	S21-Au42827	NCP	%	84			70-130	Pass	
Benzo(g.h.i)perylene	S21-Au42827	NCP	%	80			70-130	Pass	
Benzo(k)fluoranthene	S21-Au42827	NCP	%	84			70-130	Pass	
Chrysene	S21-Au42827	NCP	%	72			70-130	Pass	
Dibenz(a.h)anthracene	S21-Au42827	NCP	%	92			70-130	Pass	
Fluoranthene	S21-Au45371	NCP	%	85			70-130	Pass	
Fluorene	S21-Au42827	NCP	%	94			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Indeno(1.2.3-cd)pyrene	S21-Au42827	NCP	%	86			70-130	Pass	
Naphthalene	S21-Au42827	NCP	%	96			70-130	Pass	
Phenanthrene	S21-Au42827	NCP	%	78			70-130	Pass	
Pyrene	S21-Au45371	NCP	%	83			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S21-Au47582	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S21-Au47582	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S21-Au47582	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S21-Au47582	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S21-Au47582	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S21-Au47582	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S21-Au47582	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S21-Au47582	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S21-Au47582	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S21-Au47582	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S21-Au47582	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S21-Au47582	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S21-Au47582	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S21-Au47582	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S21-Au47582	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S21-Au47582	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S21-Au47582	CP	%	16	17	4.0	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S21-Au47583	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S21-Au47583	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S21-Au47583	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S21-Au47583	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S21-Au47583	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S21-Au47583	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S21-Au47583	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S21-Au47583	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S21-Au47583	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S21-Au47583	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S21-Au47583	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S21-Au47583	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S21-Au47583	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S21-Au47583	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S21-Au47583	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S21-Au47583	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
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)



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: Lab Report 815820 additional analyses

From: John De Martin <JDeMartin@jbsg.com.au>
Sent: Wednesday, 25 August 2021 5:45 PM
To: Ursula Long <UrsulaLong@eurofins.com>
Cc: Chris Bielby <CBielby@jbsg.com.au>
Subject: Lab Report 815820 additional analyses

EXTERNAL EMAIL*

Hi Ursula,

Could you please arrange to have the following samples in lab batch 815820 analysed for PAHs to be reported this Friday:

- BH12 1-2;
- BH16 1-2;
- BH17 1-2;
- BH18 1-2; and
- BH18 2.5-3.

Thanks,

John

Celebrating 25 years JBS&G

John De Martin | Principal Consultant | JBS&G
Sydney | Melbourne | Adelaide | Perth | Brisbane | Canberra | Newcastle | Darwin | Wollongong | Bunbury | Hobart
Level 1, 50 Margaret Street, Sydney NSW 2000
T: 02 8245 0300 | M: 0422 365 233 | jdemartin@jbsg.com.au | | W: www.jbsg.com.au

Contaminated Land | Groundwater Remediation | Approvals and Assessments | Auditing and Compliance | Hygiene and Hazardous Materials | Due Diligence and Liability | Fire Management Planning | Stakeholder and Risk Management

JBS&G acknowledges the Traditional Owners and custodians on the land we walk, work and live. We pay respect to their cultures, Elders past and present, and in the spirit of reconciliation, we commit to working together for our shared future.

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Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	John De Martin
Project name:	ADDITIONAL GARDNERS RD
Project ID:	61301
Turnaround time:	2 Day
Date/Time received	Aug 25, 2021 5:45 PM
Eurofins reference	819631

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 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 John De Martin - jdemartin@jbsg.com.au.

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CERTIFICATE OF ANALYSIS 275604

Client Details

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

Sample Details

Your Reference	**61301**
Number of Samples	4 Soil
Date samples received	10/08/2021
Date completed instructions received	10/08/2021

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	17/08/2021
Date of Issue	16/08/2021

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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 Identifier: Lucy Zhu
Authorised by Asbestos Approved Signatory: Lucy Zhu

Results Approved By
Hannah Nguyen, Senior Chemist
Lucy Zhu, Asbestos Supervisor
Steven Luong, Organics Supervisor

Authorised By

Nancy Zhang, Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil			
Our Reference		275604-1	275604-2
Your Reference	UNITS	QA20210805-01	QA20210805-02
Date Sampled		05/08/2021	05/08/2021
Type of sample		Soil	Soil
Date extracted	-	11/08/2021	11/08/2021
Date analysed	-	11/08/2021	11/08/2021
TRH C_6 - C_9	mg/kg	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25
Benzene	mg/kg	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1
m+p-xylene	mg/kg	<2	<2
o-Xylene	mg/kg	<1	<1
naphthalene	mg/kg	<1	<1
Total +ve Xylenes	mg/kg	<3	<3
Surrogate aaa-Trifluorotoluene	%	84	93

svTRH (C10-C40) in Soil			
Our Reference		275604-1	275604-2
Your Reference	UNITS	QA20210805-01	QA20210805-02
Date Sampled		05/08/2021	05/08/2021
Type of sample		Soil	Soil
Date extracted	-	11/08/2021	11/08/2021
Date analysed	-	12/08/2021	12/08/2021
TRH C_{10} - C_{14}	mg/kg	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50
Surrogate o-Terphenyl	%	71	82

PAHs in Soil			
Our Reference		275604-1	275604-2
Your Reference	UNITS	QA20210805-01	QA20210805-02
Date Sampled		05/08/2021	05/08/2021
Type of sample		Soil	Soil
Date extracted	-	11/08/2021	11/08/2021
Date analysed	-	11/08/2021	11/08/2021
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	0.1
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	%	97	90

Organochlorine Pesticides in soil			
Our Reference		275604-1	275604-2
Your Reference	UNITS	QA20210805-01	QA20210805-02
Date Sampled		05/08/2021	05/08/2021
Type of sample		Soil	Soil
Date extracted	-	11/08/2021	11/08/2021
Date analysed	-	11/08/2021	11/08/2021
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	%	103	98

PCBs in Soil			
Our Reference		275604-1	275604-2
Your Reference	UNITS	QA20210805-01	QA20210805-02
Date Sampled		05/08/2021	05/08/2021
Type of sample		Soil	Soil
Date extracted	-	11/08/2021	11/08/2021
Date analysed	-	11/08/2021	11/08/2021
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	%	103	98

Acid Extractable metals in soil			
Our Reference		275604-1	275604-2
Your Reference	UNITS	QA20210805-01	QA20210805-02
Date Sampled		05/08/2021	05/08/2021
Type of sample		Soil	Soil
Date prepared	-	12/08/2021	12/08/2021
Date analysed	-	12/08/2021	12/08/2021
Arsenic	mg/kg	8	6
Cadmium	mg/kg	<0.4	<0.4
Chromium	mg/kg	12	10
Copper	mg/kg	16	33
Lead	mg/kg	20	17
Mercury	mg/kg	<0.1	<0.1
Nickel	mg/kg	8	8
Zinc	mg/kg	59	47

Moisture			
Our Reference		275604-1	275604-2
Your Reference	UNITS	QA20210805-01	QA20210805-02
Date Sampled		05/08/2021	05/08/2021
Type of sample		Soil	Soil
Date prepared	-	11/08/2021	11/08/2021
Date analysed	-	12/08/2021	12/08/2021
Moisture	%	26	13

Asbestos ID - soils NEPM - ASB-001			
Our Reference		275604-1	275604-2
Your Reference	UNITS	QA20210805-01	QA20210805-02
Date Sampled		05/08/2021	05/08/2021
Type of sample		Soil	Soil
Date analysed	-	16/08/2021	16/08/2021
Sample mass tested	g	641.32	729.62
Sample Description	-	Brown coarse-grained soil & rocks	Brown coarse-grained soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–
FA and AF Estimation*	g	–	–
ACM >7mm Estimation*	%(w/w)	<0.01	<0.01
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001

Method ID	Methodology Summary
ASB-001	Asbestos ID - Qualitative identification of asbestos in bulk samples using Polarised Light Microscopy and Dispersion Staining Techniques including Synthetic Mineral Fibre and Organic Fibre as per Australian Standard 4964-2004.
ASB-001	Asbestos ID - Identification of asbestos in soil samples using Polarised Light Microscopy and Dispersion Staining Techniques. Minimum 500mL soil sample was analysed as recommended by "National Environment Protection (Assessment of site contamination) Measure, Schedule B1 and "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0.1g/kg (0.01% w/w) as per Australian Standard AS4964-2004. Results reported denoted with * are outside our scope of NATA accreditation. **NOTE** #1 Total Asbestos g/kg was analysed and reported as per Australian Standard AS4964 (This is the sum of ACM >7mm, <7mm and FA/AF) **NOTE** #2 The screening level of 0.001% w/w asbestos in soil for FA and AF only applies where the FA and AF are able to be quantified by gravimetric procedures. This screening level is not applicable to free fibres. Estimation = Estimated asbestos weight Results reported with "--" is equivalent to no visible asbestos identified using Polarised Light microscopy and Dispersion Staining Techniques.
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-4	[NT]
Date extracted	-			11/08/2021	[NT]	[NT]	[NT]	[NT]	11/08/2021	[NT]
Date analysed	-			11/08/2021	[NT]	[NT]	[NT]	[NT]	11/08/2021	[NT]
TRH C_6 - C_9	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	99	[NT]
TRH C_6 - C_{10}	mg/kg	25	Org-023	<25	[NT]	[NT]	[NT]	[NT]	99	[NT]
Benzene	mg/kg	0.2	Org-023	<0.2	[NT]	[NT]	[NT]	[NT]	102	[NT]
Toluene	mg/kg	0.5	Org-023	<0.5	[NT]	[NT]	[NT]	[NT]	95	[NT]
Ethylbenzene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	100	[NT]
m+p-xylene	mg/kg	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	99	[NT]
o-Xylene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	108	[NT]
naphthalene	mg/kg	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	93	[NT]	[NT]	[NT]	[NT]	95	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	[NT]
Date extracted	-			11/08/2021	[NT]	[NT]	[NT]	[NT]	11/08/2021	[NT]
Date analysed	-			12/08/2021	[NT]	[NT]	[NT]	[NT]	12/08/2021	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	78	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	82	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	82	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	78	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	82	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	82	[NT]
Surrogate o-Terphenyl	%		Org-020	84	[NT]	[NT]	[NT]	[NT]	91	[NT]

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	[NT]
Date extracted	-			11/08/2021	[NT]	[NT]	[NT]	[NT]	11/08/2021	[NT]
Date analysed	-			11/08/2021	[NT]	[NT]	[NT]	[NT]	11/08/2021	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	103	[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]	89	[NT]
Fluorene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	91	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	123	[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]	105	[NT]
Pyrene	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	107	[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]	73	[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]	88	[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	92	[NT]	[NT]	[NT]	[NT]	91	[NT]

QUALITY CONTROL: Organochlorine Pesticides in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	[NT]
Date extracted	-			11/08/2021	[NT]	[NT]	[NT]	[NT]	11/08/2021	[NT]
Date analysed	-			11/08/2021	[NT]	[NT]	[NT]	[NT]	11/08/2021	[NT]
alpha-BHC	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	101	[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]	99	[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]	123	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	118	[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]	113	[NT]
Dieldrin	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	123	[NT]
Endrin	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	104	[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]	94	[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]	80	[NT]
Methoxychlor	mg/kg	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	100	[NT]	[NT]	[NT]	[NT]	100	[NT]

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	[NT]
Date extracted	-			11/08/2021	[NT]	[NT]	[NT]	[NT]	11/08/2021	[NT]
Date analysed	-			11/08/2021	[NT]	[NT]	[NT]	[NT]	11/08/2021	[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	100	[NT]	[NT]	[NT]	[NT]	100	[NT]

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-4	[NT]
Date prepared	-			12/08/2021	[NT]	[NT]	[NT]	[NT]	12/08/2021	[NT]
Date analysed	-			12/08/2021	[NT]	[NT]	[NT]	[NT]	12/08/2021	[NT]
Arsenic	mg/kg	4	Metals-020	<4	[NT]	[NT]	[NT]	[NT]	105	[NT]
Cadmium	mg/kg	0.4	Metals-020	<0.4	[NT]	[NT]	[NT]	[NT]	101	[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]	106	[NT]
Lead	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	103	[NT]
Mercury	mg/kg	0.1	Metals-021	<0.1	[NT]	[NT]	[NT]	[NT]	80	[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]	104	[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.

ENVIRO LAB

Chain of Custody

JBS&G

PROJECT NO.: 61301	LABORATORY BATCH NO.:
PROJECT NAME: Gardiners Rd	SAMPLERS: ML
DATE NEEDED BY: 5 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) .....@jbsg.com.au; (3) .....@jbsg.com.au Mlinz@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	TRH/BTEX	PAHs	OCP/PCBs	Asbestos	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
1	QA 20210805 -01				J + B		✓	✓	✓	✓	✓			
2	QA 2021.0805 -02				J + B		✓	✓	✓	✓	✓			
3	QA 2021 08 05 -03				J + B									
4	QC 2021 0806 -04				J + SPOCAS									

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

ENVIROLAB

Job No: 215604

Date Received: 10/08/2021

Time Received: 12:25

Received By: NZ

Temp: Cool/Ambient

Cooling: Ice/Icepack

Security: Intact/Broken/None

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 6-8-21	CONSIGNMENT NOTE NO.	NAME: Nancy Zhang	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 10/08/21 2:25	COOLER TEMP ..... deg C 16.2
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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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	M Linz

Sample Login Details

Your reference	61301
Envirolab Reference	275604
Date Sample Received	10/08/2021
Date Instructions Received	10/08/2021
Date Results Expected to be Reported	17/08/2021

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	4 Soil
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	16
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 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
QA20210805-01	✓	✓	✓	✓	✓	✓	✓	
QA20210805-02	✓	✓	✓	✓	✓	✓	✓	
QA20210805-03								✓
QA20210805-04								✓

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
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Chris Bielby**

Report **698725-S**
Project name MASCOT
Project ID 58167
Received Date Jan 28, 2020

Client Sample ID			**MW2_0.5**	**MW2_2.0**	**MW3_0.2**	**MW3_3.0**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**S20-Ja26278**	**S20-Ja26279**	**S20-Ja26280**	**S20-Ja26281**
Date Sampled			**Jan 24, 2020**	**Jan 24, 2020**	**Jan 24, 2020**	**Jan 24, 2020**
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	%	86	88	83	77
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
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

Client Sample ID			MW2_0.5	MW2_2.0	MW3_0.2	MW3_3.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Ja26278	S20-Ja26279	S20-Ja26280	S20-Ja26281
Date Sampled			Jan 24, 2020	Jan 24, 2020	Jan 24, 2020	Jan 24, 2020
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 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	%	69	78	82	80
p-Terphenyl-d14 (surr.)	1	%	79	82	88	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	< 0.5	-	-	-
Endrin ketone	0.05	mg/kg	< 0.05	-	-	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	-	-
Heptachlor	0.05	mg/kg	< 0.05	-	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	-
Methoxychlor	0.2	mg/kg	< 0.2	-	-	-
Toxaphene	1	mg/kg	< 1	-	-	-
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	< 0.5	-	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.5	-	-	-
Dibutylchlorendate (surr.)	1	%	119	-	-	-
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	%	119	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	114	-	-	-

Client Sample ID			MW2_0.5	MW2_2.0	MW3_0.2	MW3_3.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Ja26278	S20-Ja26279	S20-Ja26280	S20-Ja26281
Date Sampled			Jan 24, 2020	Jan 24, 2020	Jan 24, 2020	Jan 24, 2020
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	5.5	< 2	7.2	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	7.0	< 5	10	< 5
Copper	5	mg/kg	6.0	< 5	14	7.1
Lead	5	mg/kg	18	< 5	43	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	< 5	12	6.7
Zinc	5	mg/kg	38	< 5	72	8.5
% Moisture	1	%	15	11	9.9	10

Client Sample ID			MW4_1.0	SB1_0.2	SB1_0.5	SB2_1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Ja26282	S20-Ja26283	S20-Ja26284	S20-Ja26287
Date Sampled			Jan 24, 2020	Jan 24, 2020	Jan 24, 2020	Jan 24, 2020
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	40	46
TRH C15-C28	50	mg/kg	250	220	380	610
TRH C29-C36	50	mg/kg	470	410	380	420
TRH C10-C36 (Total)	50	mg/kg	720	630	800	1076
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	96	84	84
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	69	100
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	69	100
TRH >C16-C34	100	mg/kg	630	500	590	850
TRH >C34-C40	100	mg/kg	230	340	370	240
TRH >C10-C40 (total)*	100	mg/kg	860	840	1029	1190
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	4.0
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	4.2
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	4.5
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	2.6
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	3.0

Client Sample ID			MW4_1.0	SB1_0.2	SB1_0.5	SB2_1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Ja26282	S20-Ja26283	S20-Ja26284	S20-Ja26287
Date Sampled			Jan 24, 2020	Jan 24, 2020	Jan 24, 2020	Jan 24, 2020
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	2.1
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.9
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	3.1
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	2.4
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	5.0
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	1.8
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	2.1
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	5.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	28.5
2-Fluorobiphenyl (surr.)	1	%	80	90	79	104
p-Terphenyl-d14 (surr.)	1	%	132	123	83	136
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	28	< 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	54	0.13	-	< 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	< 0.5	< 1	-	< 1
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Methoxychlor	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Toxaphene	1	mg/kg	< 1	< 1	-	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	82	0.13	-	< 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	82	< 1	-	< 1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.5	< 1	-	< 1
Dibutylchlorendate (surr.)	1	%	INT	141	-	INT
Tetrachloro-m-xylene (surr.)	1	%	129	117	-	135
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

Client Sample ID			MW4_1.0	SB1_0.2	SB1_0.5	SB2_1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Ja26282	S20-Ja26283	S20-Ja26284	S20-Ja26287
Date Sampled			Jan 24, 2020	Jan 24, 2020	Jan 24, 2020	Jan 24, 2020
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
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	%	INT	141	-	INT
Tetrachloro-m-xylene (surr.)	1	%	129	117	-	135
Heavy Metals						
Arsenic	2	mg/kg	3.7	3.6	5.5	6.0
Cadmium	0.4	mg/kg	0.4	< 0.4	< 0.4	0.4
Chromium	5	mg/kg	29	14	20	20
Copper	5	mg/kg	100	28	52	270
Lead	5	mg/kg	1500	37	69	720
Mercury	0.1	mg/kg	0.1	0.1	< 0.1	0.1
Nickel	5	mg/kg	33	9.5	16	29
Zinc	5	mg/kg	300	58	95	200
% Moisture	1	%	9.4	8.8	6.1	13

Client Sample ID			SB3_0.5	SB4_1.0	MW5_0.5	MW1_0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Ja26289	S20-Ja26291	S20-Ja26294	S20-Ja26295
Date Sampled			Jan 24, 2020	Jan 24, 2020	Jan 24, 2020	Jan 24, 2020
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	80	< 20
TRH C15-C28	50	mg/kg	130	150	1600	99
TRH C29-C36	50	mg/kg	150	63	1000	170
TRH C10-C36 (Total)	50	mg/kg	280	213	2680	269
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	84	79	89	90
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	190	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	190	< 50
TRH >C16-C34	100	mg/kg	220	180	2200	220
TRH >C34-C40	100	mg/kg	120	< 100	360	160
TRH >C10-C40 (total)*	100	mg/kg	340	180	2750	380

Client Sample ID			SB3_0.5	SB4_1.0	MW5_0.5	MW1_0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Ja26289	S20-Ja26291	S20-Ja26294	S20-Ja26295
Date Sampled			Jan 24, 2020	Jan 24, 2020	Jan 24, 2020	Jan 24, 2020
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	0.7	< 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	0.7	< 0.5
2-Fluorobiphenyl (surr.)	1	%	80	76	95	78
p-Terphenyl-d14 (surr.)	1	%	88	82	93	82
Heavy Metals						
Arsenic	2	mg/kg	4.0	14	4.5	5.3
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	11	5.2	13	15
Copper	5	mg/kg	19	7.2	79	22
Lead	5	mg/kg	230	17	220	29
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	0.2
Nickel	5	mg/kg	< 5	< 5	10	12
Zinc	5	mg/kg	340	51	91	110
% Moisture	1	%	11	8.7	8.6	7.8

Client Sample ID			MW1_1.0	MW1_4.0	QA03
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			S20-Ja26296	S20-Ja26532	S20-Ja26697
Date Sampled			Jan 24, 2020	Jan 24, 2020	Jan 24, 2020
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	-	54	< 50
TRH C10-C36 (Total)	50	mg/kg	-	54	< 50

Client Sample ID			MW1_1.0	MW1_4.0	QA03
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			S20-Ja26296	S20-Ja26532	S20-Ja26697
Date Sampled			Jan 24, 2020	Jan 24, 2020	Jan 24, 2020
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	%	-	114	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	-	< 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	%	96	75	77
p-Terphenyl-d14 (surr.)	1	%	97	84	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

Client Sample ID			MW1_1.0	MW1_4.0	QA03
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			S20-Ja26296	S20-Ja26532	S20-Ja26697
Date Sampled			Jan 24, 2020	Jan 24, 2020	Jan 24, 2020
Test/Reference	LOR	Unit			
Organochlorine Pesticides					
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	-	-	< 1
Endrin ketone	0.05	mg/kg	-	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	-	< 0.05
Heptachlor	0.05	mg/kg	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	< 0.05
Methoxychlor	0.2	mg/kg	-	-	< 0.2
Toxaphene	1	mg/kg	-	-	< 1
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	-	-	< 1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	< 1
Dibutylchlorendate (surr.)	1	%	-	-	103
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	%	-	-	103
Tetrachloro-m-xylene (surr.)	1	%	-	-	107
Heavy Metals					
Arsenic	2	mg/kg	44	12	9.4
Cadmium	0.4	mg/kg	0.8	< 0.4	< 0.4
Chromium	5	mg/kg	91	200	11
Copper	5	mg/kg	100	45	21
Lead	5	mg/kg	380	25	33
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	130	66	9.9
Zinc	5	mg/kg	480	34	63
% Moisture	1	%	10	15	11

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Jan 28, 2020	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Jan 28, 2020	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jan 28, 2020	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jan 28, 2020	
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons	Sydney	Jan 28, 2020	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Metals M8	Sydney	Jan 28, 2020	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Organochlorine Pesticides	Sydney	Jan 28, 2020	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Polychlorinated Biphenyls	Sydney	Jan 28, 2020	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
% Moisture	Sydney	Jan 28, 2020	14 Days
- Method: LTM-GEN-7080 Moisture			

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Project Name: MASCOT
Project ID: 58167

Order No.:
Report #: 698725
Phone: 02 8245 0300
Fax:

Received: Jan 28, 2020 9:47 AM
Due: Jan 29, 2020
Priority: 1 Day
Contact Name: Chris Bielby

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	HOLD	HOLD	TRH C6-C9	Polycyclic Aromatic Hydrocarbons	Metals M8	Eurofins | mgt Suite B13	BTEX and Naphthalene	Moisture Set	Eurofins | mgt Suite B7
Melbourne Laboratory - NATA Site # 1254 & 14271															
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794							X								
Perth Laboratory - NATA Site # 23736															
External Laboratory															
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**										
1	MW2_0.5	Jan 24, 2020		Soil	S20-Ja26278	X						X		X	X
2	MW2_2.0	Jan 24, 2020		Soil	S20-Ja26279									X	X
3	MW3_0.2	Jan 24, 2020		Soil	S20-Ja26280	X								X	X
4	MW3_3.0	Jan 24, 2020		Soil	S20-Ja26281									X	X
5	MW4_1.0	Jan 24, 2020		Soil	S20-Ja26282	X						X		X	X
6	SB1_0.2	Jan 24, 2020		Soil	S20-Ja26283	X						X		X	X
7	SB1_0.5	Jan 24, 2020		Soil	S20-Ja26284	X								X	X
8	SB2_0.2	Jan 24, 2020		Soil	S20-Ja26285	X									
9	SB2_0.5	Jan 24, 2020		Soil	S20-Ja26286	X									
10	SB2_1.0	Jan 24, 2020		Soil	S20-Ja26287							X		X	X

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

Project Name: MASCOT
Project ID: 58167

Order No.:
Report #: 698725
Phone: 02 8245 0300
Fax:

Received: Jan 28, 2020 9:47 AM
Due: Jan 29, 2020
Priority: 1 Day
Contact Name: Chris Bielby

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	HOLD	HOLD	TRH C6-C9	Polycyclic Aromatic Hydrocarbons	Metals M8	Eurofins | mgt Suite B13	BTEX and Naphthalene	Moisture Set	Eurofins | mgt Suite B7
Melbourne Laboratory - NATA Site # 1254 & 14271															
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794							X								
Perth Laboratory - NATA Site # 23736															
11	SB3_0.2	Jan 24, 2020		Soil	S20-Ja26288	X									
12	SB3_0.5	Jan 24, 2020		Soil	S20-Ja26289	X								X	X
13	SB4_0.2	Jan 24, 2020		Soil	S20-Ja26290	X									
14	SB4_1.0	Jan 24, 2020		Soil	S20-Ja26291									X	X
15	TS	Jan 24, 2020		Water	S20-Ja26292								X		
16	TB	Jan 24, 2020		Water	S20-Ja26293				X						
17	MW5_0.5	Jan 24, 2020		Soil	S20-Ja26294									X	X
18	MW1_0.2	Jan 24, 2020		Soil	S20-Ja26295	X								X	X
19	MW1_1.0	Jan 24, 2020		Soil	S20-Ja26296					X	X			X	
20	MW1_3.0	Jan 24, 2020		Soil	S20-Ja26297			X							
21	MW2_0.3	Jan 24, 2020		Soil	S20-Ja26503			X							
22	MW2_1.0	Jan 24, 2020		Soil	S20-Ja26504			X							
23	MW2_3.0	Jan 24, 2020		Soil	S20-Ja26505			X							

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NATA # 1261 Site # 18217

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Melbourne Laboratory - NATA Site # 1254 & 14271															
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794							X								
Perth Laboratory - NATA Site # 23736															
24	MW2_4.0	Jan 24, 2020		Soil	S20-Ja26506			X							
25	MW2_5.0	Jan 24, 2020		Soil	S20-Ja26507			X							
26	MW3_0.5	Jan 24, 2020		Soil	S20-Ja26508			X							
27	MW3_1.0	Jan 24, 2020		Soil	S20-Ja26509			X							
28	MW3_2.0	Jan 24, 2020		Soil	S20-Ja26510			X							
29	MW4_0.5	Jan 24, 2020		Soil	S20-Ja26511			X							
30	MW4_2.0	Jan 24, 2020		Soil	S20-Ja26512			X							
31	MW4_3.0	Jan 24, 2020		Soil	S20-Ja26513			X							
32	MW4_4.0	Jan 24, 2020		Soil	S20-Ja26514			X							
33	MW4_5.0	Jan 24, 2020		Soil	S20-Ja26515			X							
34	SB1_1.0	Jan 24, 2020		Soil	S20-Ja26516		X								
35	SB1_2.0	Jan 24, 2020		Soil	S20-Ja26517			X							
36	SB1_3.0	Jan 24, 2020		Soil	S20-Ja26518		X								

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Melbourne Laboratory - NATA Site # 1254 & 14271															
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794							X								
Perth Laboratory - NATA Site # 23736															
37	SB2_2.0	Jan 24, 2020		Soil	S20-Ja26519			X							
38	SB2_3.0	Jan 24, 2020		Soil	S20-Ja26520		X								
39	SB3_1.0	Jan 24, 2020		Soil	S20-Ja26521		X								
40	SB3_2.0	Jan 24, 2020		Soil	S20-Ja26522			X							
41	SB3_3.0	Jan 24, 2020		Soil	S20-Ja26523		X								
42	SB4_1.8	Jan 24, 2020		Soil	S20-Ja26524		X								
43	SB4_3.0	Jan 24, 2020		Soil	S20-Ja26525		X								
44	MW5_1.0	Jan 24, 2020		Soil	S20-Ja26526			X							
45	MW5_2.0	Jan 24, 2020		Soil	S20-Ja26527			X							
46	MW5_3.0	Jan 24, 2020		Soil	S20-Ja26528			X							
47	MW5_4.0	Jan 24, 2020		Soil	S20-Ja26529			X							
48	MW5_5.0	Jan 24, 2020		Soil	S20-Ja26530			X							
49	MW1_2.0	Jan 24, 2020		Soil	S20-Ja26531			X							

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Melbourne Laboratory - NATA Site # 1254 & 14271															
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794							X								
Perth Laboratory - NATA Site # 23736															
50	MW1_4.0	Jan 24, 2020		Soil	S20-Ja26532									X	X
51	MW1_5.0	Jan 24, 2020		Soil	S20-Ja26533			X							
52	MW5_0.2	Jan 24, 2020		Soil	S20-Ja26686	X									
53	SB4_0.5	Jan 24, 2020		Soil	S20-Ja26696	X									
54	QA03	Jan 24, 2020		Soil	S20-Ja26697							X		X	X
55	QA01	Jan 24, 2020		Soil	S20-Ja26698	X									
56	QA02	Jan 24, 2020		Soil	S20-Ja26708			X							
57	QC02	Jan 24, 2020		Soil	S20-Ja26709			X							
Test Counts						14	33	33	1	1	1	5	1	15	14

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	< 1			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							
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	%	82			70-130	Pass	
TRH C10-C14	%	80			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	86			70-130	Pass	
Toluene	%	87			70-130	Pass	
Ethylbenzene	%	96			70-130	Pass	
m&p-Xylenes	%	88			70-130	Pass	
o-Xylene	%	91			70-130	Pass	
Xylenes - Total	%	89			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	113			70-130	Pass	
TRH C6-C10	%	84			70-130	Pass	
TRH >C10-C16	%	74			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	103			70-130	Pass	
Acenaphthylene	%	94			70-130	Pass	
Anthracene	%	91			70-130	Pass	
Benz(a)anthracene	%	84			70-130	Pass	
Benzo(a)pyrene	%	82			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Benzo(b&j)fluoranthene	%	99			70-130	Pass	
Benzo(g.h.i)perylene	%	90			70-130	Pass	
Benzo(k)fluoranthene	%	94			70-130	Pass	
Chrysene	%	90			70-130	Pass	
Dibenz(a.h)anthracene	%	101			70-130	Pass	
Fluoranthene	%	89			70-130	Pass	
Fluorene	%	98			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	105			70-130	Pass	
Naphthalene	%	92			70-130	Pass	
Phenanthrene	%	94			70-130	Pass	
Pyrene	%	90			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	88			70-130	Pass	
4.4'-DDD	%	81			70-130	Pass	
4.4'-DDE	%	112			70-130	Pass	
4.4'-DDT	%	98			70-130	Pass	
a-BHC	%	106			70-130	Pass	
Aldrin	%	115			70-130	Pass	
b-BHC	%	119			70-130	Pass	
d-BHC	%	123			70-130	Pass	
Dieldrin	%	123			70-130	Pass	
Endosulfan I	%	108			70-130	Pass	
Endosulfan sulphate	%	96			70-130	Pass	
Endrin aldehyde	%	92			70-130	Pass	
Endrin ketone	%	110			70-130	Pass	
g-BHC (Lindane)	%	130			70-130	Pass	
Heptachlor	%	110			70-130	Pass	
Heptachlor epoxide	%	86			70-130	Pass	
Hexachlorobenzene	%	117			70-130	Pass	
Methoxychlor	%	95			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1260	%	87			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	92			70-130	Pass	
Cadmium	%	89			70-130	Pass	
Chromium	%	93			70-130	Pass	
Copper	%	92			70-130	Pass	
Lead	%	96			70-130	Pass	
Mercury	%	109			70-130	Pass	
Nickel	%	91			70-130	Pass	
Zinc	%	93			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Benzo(g.h.i)perylene	S20-Ja24410	NCP	%	87			70-130	Pass	
Dibenz(a.h)anthracene	S20-Ja24410	NCP	%	96			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S20-Ja24410	NCP	%	94			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
4.4'-DDE	S20-Ja24469	NCP	%	97			70-130	Pass	
a-BHC	S20-Ja24469	NCP	%	90			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Aldrin	S20-Ja24469	NCP	%	102			70-130	Pass	
b-BHC	S20-Ja24469	NCP	%	81			70-130	Pass	
d-BHC	S20-Ja24469	NCP	%	88			70-130	Pass	
Dieldrin	S20-Ja24469	NCP	%	91			70-130	Pass	
Endosulfan I	S20-Ja24469	NCP	%	87			70-130	Pass	
Endrin	S20-Ja24469	NCP	%	128			70-130	Pass	
Endrin ketone	S20-Ja24469	NCP	%	104			70-130	Pass	
g-BHC (Lindane)	S20-Ja24469	NCP	%	92			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1260	S20-Ja24469	NCP	%	91			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Copper	S20-Ja27035	NCP	%	105			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C10-C14	S20-Ja26281	CP	%	71			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S20-Ja26282	CP	%	97			70-130	Pass	
Acenaphthylene	S20-Ja26282	CP	%	98			70-130	Pass	
Anthracene	S20-Ja26282	CP	%	90			70-130	Pass	
Benz(a)anthracene	S20-Ja26282	CP	%	105			70-130	Pass	
Benzo(a)pyrene	S20-Ja26282	CP	%	79			70-130	Pass	
Benzo(b&j)fluoranthene	S20-Ja26282	CP	%	91			70-130	Pass	
Benzo(k)fluoranthene	S20-Ja26282	CP	%	108			70-130	Pass	
Chrysene	S20-Ja26282	CP	%	101			70-130	Pass	
Fluoranthene	S20-Ja26282	CP	%	115			70-130	Pass	
Fluorene	S20-Ja26282	CP	%	91			70-130	Pass	
Naphthalene	S20-Ja26282	CP	%	93			70-130	Pass	
Phenanthrene	S20-Ja26282	CP	%	81			70-130	Pass	
Pyrene	S20-Ja26282	CP	%	113			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S20-Ja26282	CP	%	115			70-130	Pass	
4.4'-DDD	S20-Ja26282	CP	%	128			70-130	Pass	
4.4'-DDT	S20-Ja26282	CP	%	119			70-130	Pass	
Endosulfan II	S20-Ja26282	CP	%	127			70-130	Pass	
Endosulfan sulphate	S20-Ja26282	CP	%	123			70-130	Pass	
Heptachlor	S20-Ja26282	CP	%	110			70-130	Pass	
Heptachlor epoxide	S20-Ja26282	CP	%	113			70-130	Pass	
Hexachlorobenzene	S20-Ja26282	CP	%	108			70-130	Pass	
Methoxychlor	S20-Ja26282	CP	%	119			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S20-Ja26294	CP	%	119			70-130	Pass	
Cadmium	S20-Ja26294	CP	%	107			70-130	Pass	
Chromium	S20-Ja26294	CP	%	111			70-130	Pass	
Mercury	S20-Ja26294	CP	%	117			70-130	Pass	
Nickel	S20-Ja26294	CP	%	99			70-130	Pass	
Zinc	S20-Ja26294	CP	%	109			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S20-Ja26295	CP	%	88			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
BTEX				Result 1					
Benzene	S20-Ja26295	CP	%	90			70-130	Pass	
Toluene	S20-Ja26295	CP	%	82			70-130	Pass	
Ethylbenzene	S20-Ja26295	CP	%	85			70-130	Pass	
m&p-Xylenes	S20-Ja26295	CP	%	79			70-130	Pass	
o-Xylene	S20-Ja26295	CP	%	84			70-130	Pass	
Xylenes - Total	S20-Ja26295	CP	%	81			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S20-Ja26295	CP	%	84			70-130	Pass	
TRH C6-C10	S20-Ja26295	CP	%	93			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C10-C14	S20-Ja26697	CP	%	81			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH >C10-C16	S20-Ja26697	CP	%	75			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	S20-Ja26278	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S20-Ja26278	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S20-Ja26278	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S20-Ja26278	CP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S20-Ja26278	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S20-Ja26278	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S20-Ja26278	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S20-Ja26278	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S20-Ja26278	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total	S20-Ja26278	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S20-Ja26278	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S20-Ja26278	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S20-Ja26278	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S20-Ja26278	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S20-Ja26278	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S20-Ja26278	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S20-Ja26278	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S20-Ja26278	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S20-Ja26278	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S20-Ja26278	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S20-Ja26278	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S20-Ja26278	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S20-Ja26278	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S20-Ja26278	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S20-Ja26278	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S20-Ja26278	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S20-Ja26278	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	S20-Ja26278	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S20-Ja26278	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S20-Ja26278	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S20-Ja26278	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S20-Ja26278	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S20-Ja26278	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S20-Ja26278	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S20-Ja26278	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-BHC	S20-Ja26278	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S20-Ja26278	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	S20-Ja26278	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-BHC	S20-Ja26278	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S20-Ja26278	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S20-Ja26278	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S20-Ja26278	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S20-Ja26278	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S20-Ja26278	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S20-Ja26278	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Endrin ketone	S20-Ja26278	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	S20-Ja26278	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S20-Ja26278	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S20-Ja26278	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S20-Ja26278	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S20-Ja26278	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	S20-Ja26278	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1221	S20-Ja26278	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	S20-Ja26278	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1242	S20-Ja26278	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1248	S20-Ja26278	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1254	S20-Ja26278	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1260	S20-Ja26278	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Total PCB*	S20-Ja26278	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S20-Ja26279	CP	%	11	11	1.0	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S20-Ja26291	CP	mg/kg	14	17	25	30%	Pass	
Cadmium	S20-Ja26291	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S20-Ja26291	CP	mg/kg	5.2	6.1	15	30%	Pass	
Copper	S20-Ja26291	CP	mg/kg	7.2	12	50	30%	Fail	Q15
Lead	S20-Ja26291	CP	mg/kg	17	43	88	30%	Fail	Q15
Mercury	S20-Ja26291	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S20-Ja26291	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Zinc	S20-Ja26291	CP	mg/kg	51	67	27	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S20-Ja26295	CP	%	7.8	7.7	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.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised By

Ursula Long	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)
Gabriele Cordero	Senior Analyst-Metal (NSW)
Nibha Vaidya	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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Certificate of Analysis

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025–Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

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

Attention:	Chris Bielby
Report	698725-AID
Project Name	MASCOT
Project ID	58167
Received Date	Jan 28, 2020
Date Reported	Jan 29, 2020

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
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Project Name MASCOT
Project ID 58167
Date Sampled Jan 24, 2020
Report 698725-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
MW2_0.5	20-Ja26278	Jan 24, 2020	Approximate Sample 485g 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.
MW3_0.2	20-Ja26280	Jan 24, 2020	Approximate Sample 783g 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.
MW4_1.0	20-Ja26282	Jan 24, 2020	Approximate Sample 393g Sample consisted of: Brown coarse-grained sandy soil, rocks cemen, glass and black coal	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
SB1_0.2	20-Ja26283	Jan 24, 2020	Approximate Sample 676g Sample consisted of: Brown coarse-grained sandy soil, rocks bitumen and cement	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
SB1_0.5	20-Ja26284	Jan 24, 2020	Approximate Sample 730g Sample consisted of: Brown coarse-grained sandy soil, rocks bitumen, cement and glass	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
SB2_0.2	20-Ja26285	Jan 24, 2020	Approximate Sample 675g Sample consisted of: Brown coarse-grained sandy soil, rocks bitumen, cement and debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
SB2_0.5	20-Ja26286	Jan 24, 2020	Approximate Sample 446g Sample consisted of: Brown coarse-grained sandy soil, rocks bitumen, cement and glass	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
SB3_0.2	20-Ja26288	Jan 24, 2020	Approximate Sample 552g Sample consisted of: Brown coarse-grained sandy soil, rocks bitumen and cement	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
SB3_0.5	20-Ja26289	Jan 24, 2020	Approximate Sample 565g Sample consisted of: Brown coarse-grained sandy soil, rocks, cement, debris and black coal	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
SB4_0.2	20-Ja26290	Jan 24, 2020	Approximate Sample 627g 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.
MW1_0.2	20-Ja26295	Jan 24, 2020	Approximate Sample 681g Sample consisted of: Brown coarse-grained sandy soil, rocks bitumen, cement and brick	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
MW5_0.2	20-Ja26686	Jan 24, 2020	Approximate Sample 813g Sample consisted of: Brown coarse-grained sandy soil, rocks, debris and black coal	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
SB4_0.5	20-Ja26696	Jan 24, 2020	Approximate Sample 562g Sample consisted of: Brown coarse-grained sandy soil, rocks bitumen, cement and debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
QA01	20-Ja26698	Jan 24, 2020	Approximate Sample 676g Sample consisted of: Brown coarse-grained sandy soil, rocks bitumen, cement and brick	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	Jan 28, 2020	Indefinite

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Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: MASCOT
Project ID: 58167

Order No.:
Report #: 698725
Phone: 02 8245 0300
Fax:

Received: Jan 28, 2020 9:47 AM
Due: Jan 29, 2020
Priority: 1 Day
Contact Name: Chris Bielby

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	HOLD	HOLD	TRH C6-C9	Polycyclic Aromatic Hydrocarbons	Metals M8	Eurofins | mgt Suite B13	BTEX and Naphthalene	Moisture Set	Eurofins | mgt Suite B7
Melbourne Laboratory - NATA Site # 1254 & 14271															
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794							X								
Perth Laboratory - NATA Site # 23736															
External Laboratory															
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**										
1	MW2_0.5	Jan 24, 2020		Soil	S20-Ja26278	X						X		X	X
2	MW2_2.0	Jan 24, 2020		Soil	S20-Ja26279									X	X
3	MW3_0.2	Jan 24, 2020		Soil	S20-Ja26280	X								X	X
4	MW3_3.0	Jan 24, 2020		Soil	S20-Ja26281									X	X
5	MW4_1.0	Jan 24, 2020		Soil	S20-Ja26282	X						X		X	X
6	SB1_0.2	Jan 24, 2020		Soil	S20-Ja26283	X						X		X	X
7	SB1_0.5	Jan 24, 2020		Soil	S20-Ja26284	X								X	X
8	SB2_0.2	Jan 24, 2020		Soil	S20-Ja26285	X									
9	SB2_0.5	Jan 24, 2020		Soil	S20-Ja26286	X									
10	SB2_1.0	Jan 24, 2020		Soil	S20-Ja26287							X		X	X

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

Project Name: MASCOT
Project ID: 58167

Order No.:
Report #: 698725
Phone: 02 8245 0300
Fax:

Received: Jan 28, 2020 9:47 AM
Due: Jan 29, 2020
Priority: 1 Day
Contact Name: Chris Bielby

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	HOLD	HOLD	TRH C6-C9	Polycyclic Aromatic Hydrocarbons	Metals M8	Eurofins | mgt Suite B13	BTEX and Naphthalene	Moisture Set	Eurofins | mgt Suite B7
Melbourne Laboratory - NATA Site # 1254 & 14271															
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794							X								
Perth Laboratory - NATA Site # 23736															
11	SB3_0.2	Jan 24, 2020		Soil	S20-Ja26288	X									
12	SB3_0.5	Jan 24, 2020		Soil	S20-Ja26289	X								X	X
13	SB4_0.2	Jan 24, 2020		Soil	S20-Ja26290	X									
14	SB4_1.0	Jan 24, 2020		Soil	S20-Ja26291									X	X
15	TS	Jan 24, 2020		Water	S20-Ja26292								X		
16	TB	Jan 24, 2020		Water	S20-Ja26293				X						
17	MW5_0.5	Jan 24, 2020		Soil	S20-Ja26294									X	X
18	MW1_0.2	Jan 24, 2020		Soil	S20-Ja26295	X								X	X
19	MW1_1.0	Jan 24, 2020		Soil	S20-Ja26296					X	X			X	
20	MW1_3.0	Jan 24, 2020		Soil	S20-Ja26297			X							
21	MW2_0.3	Jan 24, 2020		Soil	S20-Ja26503			X							
22	MW2_1.0	Jan 24, 2020		Soil	S20-Ja26504			X							
23	MW2_3.0	Jan 24, 2020		Soil	S20-Ja26505			X							

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Melbourne Laboratory - NATA Site # 1254 & 14271															
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794							X								
Perth Laboratory - NATA Site # 23736															
24	MW2_4.0	Jan 24, 2020		Soil	S20-Ja26506			X							
25	MW2_5.0	Jan 24, 2020		Soil	S20-Ja26507			X							
26	MW3_0.5	Jan 24, 2020		Soil	S20-Ja26508			X							
27	MW3_1.0	Jan 24, 2020		Soil	S20-Ja26509			X							
28	MW3_2.0	Jan 24, 2020		Soil	S20-Ja26510			X							
29	MW4_0.5	Jan 24, 2020		Soil	S20-Ja26511			X							
30	MW4_2.0	Jan 24, 2020		Soil	S20-Ja26512			X							
31	MW4_3.0	Jan 24, 2020		Soil	S20-Ja26513			X							
32	MW4_4.0	Jan 24, 2020		Soil	S20-Ja26514			X							
33	MW4_5.0	Jan 24, 2020		Soil	S20-Ja26515			X							
34	SB1_1.0	Jan 24, 2020		Soil	S20-Ja26516		X								
35	SB1_2.0	Jan 24, 2020		Soil	S20-Ja26517			X							
36	SB1_3.0	Jan 24, 2020		Soil	S20-Ja26518		X								

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Melbourne Laboratory - NATA Site # 1254 & 14271															
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794							X								
Perth Laboratory - NATA Site # 23736															
37	SB2_2.0	Jan 24, 2020		Soil	S20-Ja26519			X							
38	SB2_3.0	Jan 24, 2020		Soil	S20-Ja26520		X								
39	SB3_1.0	Jan 24, 2020		Soil	S20-Ja26521		X								
40	SB3_2.0	Jan 24, 2020		Soil	S20-Ja26522			X							
41	SB3_3.0	Jan 24, 2020		Soil	S20-Ja26523		X								
42	SB4_1.8	Jan 24, 2020		Soil	S20-Ja26524		X								
43	SB4_3.0	Jan 24, 2020		Soil	S20-Ja26525		X								
44	MW5_1.0	Jan 24, 2020		Soil	S20-Ja26526			X							
45	MW5_2.0	Jan 24, 2020		Soil	S20-Ja26527			X							
46	MW5_3.0	Jan 24, 2020		Soil	S20-Ja26528			X							
47	MW5_4.0	Jan 24, 2020		Soil	S20-Ja26529			X							
48	MW5_5.0	Jan 24, 2020		Soil	S20-Ja26530			X							
49	MW1_2.0	Jan 24, 2020		Soil	S20-Ja26531			X							

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Melbourne Laboratory - NATA Site # 1254 & 14271															
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794							X								
Perth Laboratory - NATA Site # 23736															
50	MW1_4.0	Jan 24, 2020		Soil	S20-Ja26532									X	X
51	MW1_5.0	Jan 24, 2020		Soil	S20-Ja26533			X							
52	MW5_0.2	Jan 24, 2020		Soil	S20-Ja26686	X									
53	SB4_0.5	Jan 24, 2020		Soil	S20-Ja26696	X									
54	QA03	Jan 24, 2020		Soil	S20-Ja26697							X		X	X
55	QA01	Jan 24, 2020		Soil	S20-Ja26698	X									
56	QA02	Jan 24, 2020		Soil	S20-Ja26708			X							
57	QC02	Jan 24, 2020		Soil	S20-Ja26709			X							
Test Counts						14	33	33	1	1	1	5	1	15	14

Internal Quality Control Review and Glossary

General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with 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

S20-Ja26278, S20-Ja26282, S20-Ja26286: 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.

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
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Chris Bielby**

Report **698725-W**
Project name MASCOT
Project ID 58167
Received Date Jan 28, 2020

Client Sample ID			R20 **TS**	**TB**
Sample Matrix			**Water**	**Water**
Eurofins Sample No.			**S20-Ja26292**	**S20-Ja26293**
Date Sampled			**Jan 24, 2020**	**Jan 24, 2020**
Test/Reference	LOR	Unit		
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				
Naphthalene N02	0.01	mg/L	130	-
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				
TRH C6-C9	0.02	mg/L	-	< 0.02
BTEX				
Benzene	0.001	mg/L	93	-
Toluene	0.001	mg/L	94	-
Ethylbenzene	0.001	mg/L	96	-
m&p-Xylenes	0.002	mg/L	90	-
o-Xylene	0.001	mg/L	100	-
Xylenes - Total	0.003	mg/L	95	-
4-Bromofluorobenzene (surr.)	1	%	117	-

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	Jan 28, 2020	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Jan 28, 2020	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			

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Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794							X								
Perth Laboratory - NATA Site # 23736															
External Laboratory															
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**										
1	MW2_0.5	Jan 24, 2020		Soil	S20-Ja26278	X						X		X	X
2	MW2_2.0	Jan 24, 2020		Soil	S20-Ja26279									X	X
3	MW3_0.2	Jan 24, 2020		Soil	S20-Ja26280	X								X	X
4	MW3_3.0	Jan 24, 2020		Soil	S20-Ja26281									X	X
5	MW4_1.0	Jan 24, 2020		Soil	S20-Ja26282	X						X		X	X
6	SB1_0.2	Jan 24, 2020		Soil	S20-Ja26283	X						X		X	X
7	SB1_0.5	Jan 24, 2020		Soil	S20-Ja26284	X								X	X
8	SB2_0.2	Jan 24, 2020		Soil	S20-Ja26285	X									
9	SB2_0.5	Jan 24, 2020		Soil	S20-Ja26286	X									
10	SB2_1.0	Jan 24, 2020		Soil	S20-Ja26287							X		X	X

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Brisbane Laboratory - NATA Site # 20794							X								
Perth Laboratory - NATA Site # 23736															
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12	SB3_0.5	Jan 24, 2020		Soil	S20-Ja26289	X								X	X
13	SB4_0.2	Jan 24, 2020		Soil	S20-Ja26290	X									
14	SB4_1.0	Jan 24, 2020		Soil	S20-Ja26291									X	X
15	TS	Jan 24, 2020		Water	S20-Ja26292								X		
16	TB	Jan 24, 2020		Water	S20-Ja26293				X						
17	MW5_0.5	Jan 24, 2020		Soil	S20-Ja26294									X	X
18	MW1_0.2	Jan 24, 2020		Soil	S20-Ja26295	X								X	X
19	MW1_1.0	Jan 24, 2020		Soil	S20-Ja26296					X	X			X	
20	MW1_3.0	Jan 24, 2020		Soil	S20-Ja26297			X							
21	MW2_0.3	Jan 24, 2020		Soil	S20-Ja26503			X							
22	MW2_1.0	Jan 24, 2020		Soil	S20-Ja26504			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: MASCOT
Project ID: 58167

Order No.:
Report #: 698725
Phone: 02 8245 0300
Fax:

Received: Jan 28, 2020 9:47 AM
Due: Jan 29, 2020
Priority: 1 Day
Contact Name: Chris Bielby

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	HOLD	HOLD	TRH C6-C9	Polycyclic Aromatic Hydrocarbons	Metals M8	Eurofins | mgt Suite B13	BTEX and Naphthalene	Moisture Set	Eurofins | mgt Suite B7
Melbourne Laboratory - NATA Site # 1254 & 14271															
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794							X								
Perth Laboratory - NATA Site # 23736															
24	MW2_4.0	Jan 24, 2020		Soil	S20-Ja26506			X							
25	MW2_5.0	Jan 24, 2020		Soil	S20-Ja26507			X							
26	MW3_0.5	Jan 24, 2020		Soil	S20-Ja26508			X							
27	MW3_1.0	Jan 24, 2020		Soil	S20-Ja26509			X							
28	MW3_2.0	Jan 24, 2020		Soil	S20-Ja26510			X							
29	MW4_0.5	Jan 24, 2020		Soil	S20-Ja26511			X							
30	MW4_2.0	Jan 24, 2020		Soil	S20-Ja26512			X							
31	MW4_3.0	Jan 24, 2020		Soil	S20-Ja26513			X							
32	MW4_4.0	Jan 24, 2020		Soil	S20-Ja26514			X							
33	MW4_5.0	Jan 24, 2020		Soil	S20-Ja26515			X							
34	SB1_1.0	Jan 24, 2020		Soil	S20-Ja26516		X								
35	SB1_2.0	Jan 24, 2020		Soil	S20-Ja26517			X							
36	SB1_3.0	Jan 24, 2020		Soil	S20-Ja26518		X								

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ABN – 50 005 085 521 web : www.eurofins.com.au e.mail : EnviroSales@eurofins.com

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NATA # 1261
Site # 1254 & 14271

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Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Perth
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Kewdale WA 6105
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

New Zealand

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Melbourne Laboratory - NATA Site # 1254 & 14271															
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794							X								
Perth Laboratory - NATA Site # 23736															
37	SB2_2.0	Jan 24, 2020		Soil	S20-Ja26519			X							
38	SB2_3.0	Jan 24, 2020		Soil	S20-Ja26520		X								
39	SB3_1.0	Jan 24, 2020		Soil	S20-Ja26521		X								
40	SB3_2.0	Jan 24, 2020		Soil	S20-Ja26522			X							
41	SB3_3.0	Jan 24, 2020		Soil	S20-Ja26523		X								
42	SB4_1.8	Jan 24, 2020		Soil	S20-Ja26524		X								
43	SB4_3.0	Jan 24, 2020		Soil	S20-Ja26525		X								
44	MW5_1.0	Jan 24, 2020		Soil	S20-Ja26526			X							
45	MW5_2.0	Jan 24, 2020		Soil	S20-Ja26527			X							
46	MW5_3.0	Jan 24, 2020		Soil	S20-Ja26528			X							
47	MW5_4.0	Jan 24, 2020		Soil	S20-Ja26529			X							
48	MW5_5.0	Jan 24, 2020		Soil	S20-Ja26530			X							
49	MW1_2.0	Jan 24, 2020		Soil	S20-Ja26531			X							

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Melbourne Laboratory - NATA Site # 1254 & 14271															
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794							X								
Perth Laboratory - NATA Site # 23736															
50	MW1_4.0	Jan 24, 2020		Soil	S20-Ja26532									X	X
51	MW1_5.0	Jan 24, 2020		Soil	S20-Ja26533			X							
52	MW5_0.2	Jan 24, 2020		Soil	S20-Ja26686	X									
53	SB4_0.5	Jan 24, 2020		Soil	S20-Ja26696	X									
54	QA03	Jan 24, 2020		Soil	S20-Ja26697							X		X	X
55	QA01	Jan 24, 2020		Soil	S20-Ja26698	X									
56	QA02	Jan 24, 2020		Soil	S20-Ja26708			X							
57	QC02	Jan 24, 2020		Soil	S20-Ja26709			X							
Test Counts						14	33	33	1	1	1	5	1	15	14

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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 - 2013 NEPM Fractions							
Naphthalene	mg/L	< 0.01			0.01	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	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 - 2013 NEPM Fractions							
Naphthalene	%	104			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	92			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	80			70-130	Pass	
Toluene	%	90			70-130	Pass	
Ethylbenzene	%	93			70-130	Pass	
m&p-Xylenes	%	86			70-130	Pass	
o-Xylene	%	94			70-130	Pass	
Xylenes - Total	%	88			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S20-Ja14168	NCP	%	95			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S20-Ja14168	NCP	%	90			70-130	Pass	
Toluene	S20-Ja14168	NCP	%	95			70-130	Pass	
Ethylbenzene	S20-Ja14168	NCP	%	95			70-130	Pass	
m&p-Xylenes	S20-Ja14168	NCP	%	91			70-130	Pass	
o-Xylene	S20-Ja14168	NCP	%	95			70-130	Pass	
Xylenes - Total	S20-Ja14168	NCP	%	92			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S20-Ja14168	NCP	%	98			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S20-Ja18704	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	

Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S20-Ja18704	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Toluene	S20-Ja18704	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Ethylbenzene	S20-Ja18704	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
m&p-Xylenes	S20-Ja18704	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
o-Xylene	S20-Ja18704	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Xylenes - Total	S20-Ja18704	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S20-Ja18704	NCP	mg/L	< 0.02	< 0.02	<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
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.
R20	This sample is a Trip Spike and therefore all results are reported as a percentage

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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NATA # 1261 Site # 23736

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Sample Receipt Advice

Company name: **JBS & G Australia (NSW) P/L**

Contact name: Chris Bielby
Project name: MASCOT
Project ID: 58167
COC number: Not provided
Turn around time: 1 Day
Date/Time received: Jan 28, 2020 9:47 AM
Eurofins reference: **698725**

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 : 1.7 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

Bag received for sample ID SB2_1.0. Sample jars; QA02 and QC02 received extra - analysis on hold.

Contact notes

If you have any questions with respect to these samples please contact:

Ursula Long on Phone : or by e.mail: UrsulaLong@eurofins.com

Results will be delivered electronically via e.mail to Chris Bielby - cbielby@jbsg.com.au.

Note: A copy of these results will also be delivered to the general JBS & G Australia (NSW) P/L email address.

Soil 1/1

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 58167 58167

PROJECT NAME: MASCOT

DATE NEEDED BY: 24 hr

LABORATORY BATCH NO.: 693725

SAMPLERS: PG / JD

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) [illegible]@jbsg.com.au; (3) [illegible]@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

pls put everything on hold. updated COC will be emailed

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	PAHs	TPH/BTEX	OCP/PCBs	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
MW2 - 0.3	Soil	[illegible]		Jar + bag								
- 0.5				↓								
- 1.0				Jar		✓	✓	✓	✓			
- 2.0										✓		
- 3.0						✓	✓	✓				
- 4.0												
- 5.0				↓								
MW3 - 0.2				Jar + bag								
- 0.5				Jar + bag		✓	✓	✓				
- 1.0				Jar		[illegible]				✓		
- 2.0												
- 3.0				↓								
MW4 - 0.4				Jar + bag		✓	✓	✓				
- 1.0				[illegible]								
- 2.0				Jar		✓	✓	✓	✓			
- 3.0										✓		
- 4.0												
- 5.0												

RELINQUISHED BY:

NAME: [illegible] DATE: [illegible]

OF: JBS&G

NAME: DATE:

OF:

METHOD OF SHIPMENT:

CONSIGNMENT NOTE NO.

TRANSPORT CO.

CONSIGNMENT NOTE NO.

TRANSPORT CO

RECEIVED BY:

NAME: [illegible]

DATE: 30/7/2020 9:47 AM

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 Forms013 - Chain of Custody - Generic

SOIL 21

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 53167

PROJECT NAME: MAJCOT GARDENER RD

DATE NEEDED BY:

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) [illegible]@jbsg.com.au; (3) [illegible]@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	PAHs	TPH/BTEX	OCP/PCBs	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM WA	NOTES:
SB1 - 0.2	SOIL	7/10/20		Jar + bag		✓	✓	✓	✓		✓	
0.5				↓								
1.0				Jar + bag (spoons)		✓	✓	✓				
2.0				Jar								
3.0				Jar + bag (spoons)								
SB2 - 0.2				Jar + bag								
0.5				↓							✓	
1.0				Jar		✓	✓	✓	✓			
2.0				↓								
3.0				Jar + bag (spoons)								
SB3 - 0.2				Jar + bag								
0.5				Jar + bag		✓	✓	✓			✓	
1.0				Jar + bag (spoons)							✓	
2.0				Jar								
3.0				Jar + bag (spoons)								
SB4 - 0.2				Jar + bag								
0.5				↓							✓	
1.0				Jar		✓	✓					
[illegible]				Jar + bag (spoons)								

RELINQUISHED BY:

NAME: DATE:

OF: JBS&G

NAME: DATE:

OF:

METHOD OF SHIPMENT:

CONSIGNMENT NOTE NO.

TRANSPORT CO.

CONSIGNMENT NOTE NO.

TRANSPORT CO

RECEIVED BY:

NAME: [illegible]

DATE: 14/7/2020 9:44AM

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

TMSO Forms013 - Chain of Custody - Generic

SOIL 3/:

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 58167
PROJECT NAME: MAJECT WAGGONERS CD
DATE NEEDED BY:
PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....@jbsg.com.au; (3) .....@jbsg.com.au

LABORATORY BATCH NO.:
SAMPLERS:
QC LEVEL: NEPM (2013)

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	TRH & C6	BTEX	Heavy Metals	PAHs	TPH/BTEX	OCP/PCBs	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	NEPM/WA	NOTES:
SA1-0.0-0.1	Soil	4/10		J QR				/	/	/	/			
BH5 0.0-0.1				BAG									/	
DUP														
SB4-3 C				Jar + bag (spugs)										
TS	Water	23/10		2x vial										
TB	Water	↓		2x vial		X	X							
MW1 - 0.1				Jar + bag										
- 0.5				Jar				/	/	/			/	
- 1.0														
- 2.0														
- 3.0														
- 4.0														
- 5.0				↓										
MW1 - 0.2				Jar + bag		X	X	/	/	/				
- 1.0				Jar + bag		X	X	/	/	/			/	
- 2.0				Jar + bag										
- 3.0				Jar				/	/	/				
- 4.0				Jar										
- 5.0				Jar										

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE:	CONSIGNMENT NOTE NO	NAME: Stephanie Ford	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 28/1/2020 9:47am	
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 Forms013 - Chain of Custody - Generic

#AU04_Enviro_Sample_NSW

To: Chris Bielby
Subject: RE: ATTENTION:Eurofins Sample Receipt Advice - Report 698725 : Site MASCOT (58167)

From: Chris Bielby [mailto:CBielby@jbsg.com.au]
Sent: Tuesday, 28 January 2020 5:08 PM
To: #AU04_Enviro_Sample_NSW
Cc: Justin Da Costa; Rachel Gray
Subject: Re: ATTENTION:Eurofins Sample Receipt Advice - Report 698725 : Site MASCOT (58167)

Please analyse MW1 4.0 instead.

Sent from my iPhone

On 28 Jan 2020, at 4:23 pm, "EnviroSampleNSW@eurofins.com" <EnviroSampleNSW@eurofins.com> wrote:

> Dear Valued Client,
>
> Two sample jars received for sample ID; MW1_3.0 - logged for analysis, please advise otherwise.
> Bag received for sample ID SB2_1.0. Sample jars; QA02 and QC02 received extra - analysis 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 | mgt Analytical Services Manager as soon as possible to make certain that they get changed.
>
> Regards
>
> Suzanne Ford
> **Sample Receipt**
>
> **Eurofins | Environment Testing**
> Unit F3, Parkview Building
> 16 Mars Road
> LANE COVE WEST NSW 2066
> AUSTRALIA
> Phone: +61 29900 8492
> Email: EnviroSampleNSW@eurofins.com
> Website:environment.eurofins.com.au
>
> EnviroNote 1079 - PFAS Fingerprinting
> EnviroNote 1080 - Total Organofluorine Analysis & PFAS Investigations
> EnviroNote 1079 - PFAS Fingerprinting
> EnviroNote 1080 - Total Organofluorine Analysis & PFAS Investigations
>
> <698725_COC.pdf>
>
> <698725_sample_receipt_coc.pdf>

<698725_summary.pdf>

Click here to report this email as spam.

ScannedByWebsenseForEurofins

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
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Chris Bielby**

Report **698721-W**
Project name MASCOT
Project ID 58167
Received Date Jan 28, 2020

Client Sample ID			**MW1**	**MW2**	**MW3**	**MW4**
Sample Matrix			**Water**	**Water**	**Water**	**Water**
Eurofins Sample No.			**S20-Ja26115**	**S20-Ja26116**	**S20-Ja26117**	**S20-Ja26118**
Date Sampled			**Jan 25, 2020**	**Jan 25, 2020**	**Jan 25, 2020**	**Jan 25, 2020**
Test/Reference	LOR	Unit				
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	< 0.05
TRH >C10-C16 less Naphthalene (F2)[N01]	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
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	< 0.1
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	< 0.1	< 0.1	0.2	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	0.2	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	%	128	122	76	124
Volatile Organics						
1.1-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.1-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.1.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.2-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.2.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dibromoethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2.3-Trichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2.4-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001

Client Sample ID			MW1	MW2	MW3	MW4
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-Ja26115	S20-Ja26116	S20-Ja26117	S20-Ja26118
Date Sampled			Jan 25, 2020	Jan 25, 2020	Jan 25, 2020	Jan 25, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
1.3-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.3-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.3.5-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.4-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
2-Butanone (MEK)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
2-Propanone (Acetone)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
4-Chlorotoluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
4-Methyl-2-pentanone (MIBK)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Allyl chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromochloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromodichloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromoform	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Carbon disulfide	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Carbon Tetrachloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chloroform	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Chloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
cis-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	0.004	< 0.001
cis-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dibromochloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dibromomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dichlorodifluoromethane	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
Iodomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Isopropyl benzene (Cumene)	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
Methylene Chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
o-Xylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Styrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Tetrachloroethene	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
trans-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
trans-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Trichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Trichlorofluoromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Vinyl chloride	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
Total MAH*	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
Vic EPA IWRG 621 CHC (Total)*	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Vic EPA IWRG 621 Other CHC (Total)*	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
4-Bromofluorobenzene (surr.)	1	%	128	122	76	124
Toluene-d8 (surr.)	1	%	99	91	85	87

Client Sample ID			MW1	MW2	MW3	MW4
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-Ja26115	S20-Ja26116	S20-Ja26117	S20-Ja26118
Date Sampled			Jan 25, 2020	Jan 25, 2020	Jan 25, 2020	Jan 25, 2020
Test/Reference	LOR	Unit				
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
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	%	50	66	75	73
p-Terphenyl-d14 (surr.)	1	%	57	70	99	104
Heavy Metals						
Arsenic (filtered)	0.001	mg/L	0.038	0.006	0.011	0.018
Cadmium (filtered)	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Chromium (filtered)	0.001	mg/L	0.001	< 0.001	0.001	< 0.001
Copper (filtered)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Lead (filtered)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Mercury (filtered)	0.0001	mg/L	0.0001	< 0.0001	< 0.0001	< 0.0001
Nickel (filtered)	0.001	mg/L	0.001	0.004	0.028	0.013
Zinc (filtered)	0.005	mg/L	< 0.005	0.008	< 0.005	< 0.005

Client Sample ID			MW5	QA	R20TS	TB
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-Ja26119	S20-Ja26120	S20-Ja26121	S20-Ja26122
Date Sampled			Jan 25, 2020	Jan 25, 2020	Jan 25, 2020	Jan 25, 2020
Test/Reference	LOR	Unit				
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	-	-
TRH >C10-C16 less Naphthalene (F2)[N01]	0.05	mg/L	< 0.05	< 0.05	-	-
TRH >C16-C34	0.1	mg/L	< 0.1	< 0.1	-	-
TRH >C34-C40	0.1	mg/L	< 0.1	< 0.1	-	-
TRH >C10-C40 (total)*	0.1	mg/L	< 0.1	< 0.1	-	-
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	-	-
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	-	-

Client Sample ID			MW5	QA	R20TS	TB
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-Ja26119	S20-Ja26120	S20-Ja26121	S20-Ja26122
Date Sampled			Jan 25, 2020	Jan 25, 2020	Jan 25, 2020	Jan 25, 2020
Test/Reference	LOR	Unit				
BTEX						
Benzene	0.001	mg/L	< 0.001	< 0.001	98	< 0.001
Toluene	0.001	mg/L	< 0.001	< 0.001	99	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001	100	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002	< 0.002	98	< 0.002
o-Xylene	0.001	mg/L	< 0.001	< 0.001	110	< 0.001
Xylenes - Total	0.003	mg/L	< 0.003	< 0.003	100	< 0.003
4-Bromofluorobenzene (surr.)	1	%	116	109	116	111
Volatile Organics						
1.1-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	-	-
1.1-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	-	-
1.1.1-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	-	-
1.1.1.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	-	-
1.1.2-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	-	-
1.1.2.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	-	-
1.2-Dibromoethane	0.001	mg/L	< 0.001	< 0.001	-	-
1.2-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	-	-
1.2-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	-	-
1.2-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	-	-
1.2.3-Trichloropropane	0.001	mg/L	< 0.001	< 0.001	-	-
1.2.4-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	-	-
1.3-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	-	-
1.3-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	-	-
1.3.5-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	-	-
1.4-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	-	-
2-Butanone (MEK)	0.001	mg/L	< 0.001	< 0.001	-	-
2-Propanone (Acetone)	0.001	mg/L	< 0.001	< 0.001	-	-
4-Chlorotoluene	0.001	mg/L	< 0.001	< 0.001	-	-
4-Methyl-2-pentanone (MIBK)	0.001	mg/L	< 0.001	< 0.001	-	-
Allyl chloride	0.001	mg/L	< 0.001	< 0.001	-	-
Benzene	0.001	mg/L	< 0.001	< 0.001	-	-
Bromobenzene	0.001	mg/L	< 0.001	< 0.001	-	-
Bromochloromethane	0.001	mg/L	< 0.001	< 0.001	-	-
Bromodichloromethane	0.001	mg/L	< 0.001	< 0.001	-	-
Bromoform	0.001	mg/L	< 0.001	< 0.001	-	-
Bromomethane	0.001	mg/L	< 0.001	< 0.001	-	-
Carbon disulfide	0.001	mg/L	< 0.001	< 0.001	-	-
Carbon Tetrachloride	0.001	mg/L	< 0.001	< 0.001	-	-
Chlorobenzene	0.001	mg/L	< 0.001	< 0.001	-	-
Chloroethane	0.001	mg/L	< 0.001	< 0.001	-	-
Chloroform	0.005	mg/L	< 0.005	< 0.005	-	-
Chloromethane	0.001	mg/L	< 0.001	< 0.001	-	-
cis-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	-	-
cis-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	-	-
Dibromochloromethane	0.001	mg/L	< 0.001	< 0.001	-	-
Dibromomethane	0.001	mg/L	< 0.001	< 0.001	-	-
Dichlorodifluoromethane	0.001	mg/L	< 0.001	< 0.001	-	-
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001	-	-
Iodomethane	0.001	mg/L	< 0.001	< 0.001	-	-
Isopropyl benzene (Cumene)	0.001	mg/L	< 0.001	< 0.001	-	-

Client Sample ID			MW5	QA	R20TS	TB
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-Ja26119	S20-Ja26120	S20-Ja26121	S20-Ja26122
Date Sampled			Jan 25, 2020	Jan 25, 2020	Jan 25, 2020	Jan 25, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
m&p-Xylenes	0.002	mg/L	< 0.002	< 0.002	-	-
Methylene Chloride	0.001	mg/L	< 0.001	< 0.001	-	-
o-Xylene	0.001	mg/L	< 0.001	< 0.001	-	-
Styrene	0.001	mg/L	< 0.001	< 0.001	-	-
Tetrachloroethene	0.001	mg/L	< 0.001	< 0.001	-	-
Toluene	0.001	mg/L	< 0.001	< 0.001	-	-
trans-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	-	-
trans-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	-	-
Trichloroethene	0.001	mg/L	< 0.001	< 0.001	-	-
Trichlorofluoromethane	0.001	mg/L	< 0.001	< 0.001	-	-
Vinyl chloride	0.001	mg/L	< 0.001	< 0.001	-	-
Xylenes - Total	0.003	mg/L	< 0.003	< 0.003	-	-
Total MAH*	0.003	mg/L	< 0.003	< 0.003	-	-
Vic EPA IWRG 621 CHC (Total)*	0.005	mg/L	< 0.005	< 0.005	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.005	mg/L	< 0.005	< 0.005	-	-
4-Bromofluorobenzene (surr.)	1	%	116	109	-	-
Toluene-d8 (surr.)	1	%	92	92	-	-
Polycyclic Aromatic Hydrocarbons (Trace level)						
Acenaphthene	0.00001	mg/L	0.00004	< 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	0.00003	< 0.00001	-	-
Benzo(a)pyrene	0.00001	mg/L	0.00002	< 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	0.00002	< 0.00001	-	-
Chrysene	0.00001	mg/L	0.00002	< 0.00001	-	-
Dibenz(a.h)anthracene	0.00001	mg/L	< 0.00001	< 0.00001	-	-
Fluoranthene	0.00001	mg/L	0.00005	< 0.00001	-	-
Fluorene	0.00001	mg/L	0.00002	< 0.00001	-	-
Indeno(1.2.3-cd)pyrene	0.00001	mg/L	< 0.00001	< 0.00001	-	-
Naphthalene	0.00001	mg/L	0.00004	< 0.00001	-	-
Phenanthrene	0.00001	mg/L	0.00006	< 0.00001	-	-
Pyrene	0.00001	mg/L	0.00005	< 0.00001	-	-
Total PAH*	0.00001	mg/L	0.00037	< 0.00001	-	-
2-Fluorobiphenyl (surr.)	1	%	77	72	-	-
p-Terphenyl-d14 (surr.)	1	%	69	68	-	-
Heavy Metals						
Arsenic (filtered)	0.001	mg/L	0.011	0.038	-	-
Cadmium (filtered)	0.0002	mg/L	< 0.0002	< 0.0002	-	-
Chromium (filtered)	0.001	mg/L	< 0.001	0.001	-	-
Copper (filtered)	0.001	mg/L	< 0.001	< 0.001	-	-
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	0.004	0.001	-	-
Zinc (filtered)	0.005	mg/L	< 0.005	< 0.005	-	-

Client Sample ID			RINSATE
Sample Matrix			Water
Eurofins Sample No.			S20-Ja26123
Date Sampled			Jan 25, 2020
Test/Reference	LOR	Unit	
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
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
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	%	130
Volatile Organics			
1.1-Dichloroethane	0.001	mg/L	< 0.001
1.1-Dichloroethene	0.001	mg/L	< 0.001
1.1.1-Trichloroethane	0.001	mg/L	< 0.001
1.1.1.2-Tetrachloroethane	0.001	mg/L	< 0.001
1.1.2-Trichloroethane	0.001	mg/L	< 0.001
1.1.2.2-Tetrachloroethane	0.001	mg/L	< 0.001
1.2-Dibromoethane	0.001	mg/L	< 0.001
1.2-Dichlorobenzene	0.001	mg/L	< 0.001
1.2-Dichloroethane	0.001	mg/L	< 0.001
1.2-Dichloropropane	0.001	mg/L	< 0.001
1.2.3-Trichloropropane	0.001	mg/L	< 0.001
1.2.4-Trimethylbenzene	0.001	mg/L	< 0.001
1.3-Dichlorobenzene	0.001	mg/L	< 0.001
1.3-Dichloropropane	0.001	mg/L	< 0.001
1.3.5-Trimethylbenzene	0.001	mg/L	< 0.001
1.4-Dichlorobenzene	0.001	mg/L	< 0.001
2-Butanone (MEK)	0.001	mg/L	< 0.001
2-Propanone (Acetone)	0.001	mg/L	< 0.001
4-Chlorotoluene	0.001	mg/L	< 0.001
4-Methyl-2-pentanone (MIBK)	0.001	mg/L	< 0.001
Allyl chloride	0.001	mg/L	< 0.001
Benzene	0.001	mg/L	< 0.001
Bromobenzene	0.001	mg/L	< 0.001
Bromochloromethane	0.001	mg/L	< 0.001
Bromodichloromethane	0.001	mg/L	< 0.001
Bromoform	0.001	mg/L	< 0.001

Client Sample ID			RINSATE
Sample Matrix			Water
Eurofins Sample No.			S20-Ja26123
Date Sampled			Jan 25, 2020
Test/Reference	LOR	Unit	
Volatile Organics			
Bromomethane	0.001	mg/L	< 0.001
Carbon disulfide	0.001	mg/L	< 0.001
Carbon Tetrachloride	0.001	mg/L	< 0.001
Chlorobenzene	0.001	mg/L	< 0.001
Chloroethane	0.001	mg/L	< 0.001
Chloroform	0.005	mg/L	< 0.005
Chloromethane	0.001	mg/L	< 0.001
cis-1.2-Dichloroethene	0.001	mg/L	< 0.001
cis-1.3-Dichloropropene	0.001	mg/L	< 0.001
Dibromochloromethane	0.001	mg/L	< 0.001
Dibromomethane	0.001	mg/L	< 0.001
Dichlorodifluoromethane	0.001	mg/L	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001
Iodomethane	0.001	mg/L	< 0.001
Isopropyl benzene (Cumene)	0.001	mg/L	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002
Methylene Chloride	0.001	mg/L	< 0.001
o-Xylene	0.001	mg/L	< 0.001
Styrene	0.001	mg/L	< 0.001
Tetrachloroethene	0.001	mg/L	< 0.001
Toluene	0.001	mg/L	< 0.001
trans-1.2-Dichloroethene	0.001	mg/L	< 0.001
trans-1.3-Dichloropropene	0.001	mg/L	< 0.001
Trichloroethene	0.001	mg/L	< 0.001
Trichlorofluoromethane	0.001	mg/L	< 0.001
Vinyl chloride	0.001	mg/L	< 0.001
Xylenes - Total	0.003	mg/L	< 0.003
Total MAH*	0.003	mg/L	< 0.003
Vic EPA IWRG 621 CHC (Total)*	0.005	mg/L	< 0.005
Vic EPA IWRG 621 Other CHC (Total)*	0.005	mg/L	< 0.005
4-Bromofluorobenzene (surr.)	1	%	130
Toluene-d8 (surr.)	1	%	122
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	< 0.00001
Indeno(1.2.3-cd)pyrene	0.00001	mg/L	< 0.00001
Naphthalene	0.00001	mg/L	< 0.00001
Phenanthrene	0.00001	mg/L	< 0.00001
Pyrene	0.00001	mg/L	< 0.00001

Client Sample ID			RINSATE
Sample Matrix			**Water**
Eurofins Sample No.			**S20-Ja26123**
Date Sampled			**Jan 25, 2020**
Test/Reference	LOR	Unit	
Polycyclic Aromatic Hydrocarbons (Trace level)			
Total PAH*	0.00001	mg/L	< 0.00001
2-Fluorobiphenyl (surr.)	1	%	80
p-Terphenyl-d14 (surr.)	1	%	81
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

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 - 2013 NEPM Fractions	Sydney	Jan 28, 2020	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons	Sydney	Jan 28, 2020	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Jan 28, 2020	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Jan 28, 2020	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jan 28, 2020	
- Method: LTM-ORG-2010 TRH C6-C40			
Volatile Organics	Sydney	Jan 28, 2020	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices			
Polycyclic Aromatic Hydrocarbons (Trace level)	Melbourne	Jan 29, 2020	7 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water (trace)			
Metals M8 filtered	Sydney	Jan 28, 2020	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			

eurofins | Environment Testing

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Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: MASCOT
Project ID: 58167

Order No.:
Report #: 698721
Phone: 02 8245 0300
Fax:

Received: Jan 28, 2020 1:00 PM
Due: Jan 29, 2020
Priority: 1 Day
Contact Name: Chris Bielby

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Metals M8 filtered	BTEX	Volatile Organics	Total Recoverable Hydrocarbons	BTEXN and Volatile TRH	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271											X
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794											
Perth Laboratory - NATA Site # 23736											
External Laboratory											
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**						
1	MW1	Jan 25, 2020		Water	S20-Ja26115	X	X	X	X		X
2	MW2	Jan 25, 2020		Water	S20-Ja26116	X	X	X	X		X
3	MW3	Jan 25, 2020		Water	S20-Ja26117	X	X	X	X		X
4	MW4	Jan 25, 2020		Water	S20-Ja26118	X	X	X	X		X
5	MW5	Jan 25, 2020		Water	S20-Ja26119	X	X	X	X		X
6	QA	Jan 25, 2020		Water	S20-Ja26120	X	X	X	X		X
7	TS	Jan 25, 2020		Water	S20-Ja26121		X				
8	TB	Jan 25, 2020		Water	S20-Ja26122					X	
9	RINSATE	Jan 25, 2020		Water	S20-Ja26123	X	X	X	X		X
Test Counts						7	8	7	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 - 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							
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							
Volatile Organics							
1.1-Dichloroethane	mg/L	< 0.001			0.001	Pass	
1.1-Dichloroethene	mg/L	< 0.001			0.001	Pass	
1.1.1-Trichloroethane	mg/L	< 0.001			0.001	Pass	
1.1.1.2-Tetrachloroethane	mg/L	< 0.001			0.001	Pass	
1.1.2-Trichloroethane	mg/L	< 0.001			0.001	Pass	
1.1.2.2-Tetrachloroethane	mg/L	< 0.001			0.001	Pass	
1.2-Dibromoethane	mg/L	< 0.001			0.001	Pass	
1.2-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
1.2-Dichloroethane	mg/L	< 0.001			0.001	Pass	
1.2-Dichloropropane	mg/L	< 0.001			0.001	Pass	
1.2.3-Trichloropropane	mg/L	< 0.001			0.001	Pass	
1.2.4-Trimethylbenzene	mg/L	< 0.001			0.001	Pass	
1.3-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
1.3-Dichloropropane	mg/L	< 0.001			0.001	Pass	
1.3.5-Trimethylbenzene	mg/L	< 0.001			0.001	Pass	
1.4-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
2-Butanone (MEK)	mg/L	< 0.001			0.001	Pass	
2-Propanone (Acetone)	mg/L	< 0.001			0.001	Pass	
4-Chlorotoluene	mg/L	< 0.001			0.001	Pass	
4-Methyl-2-pentanone (MIBK)	mg/L	< 0.001			0.001	Pass	
Allyl chloride	mg/L	< 0.001			0.001	Pass	
Bromobenzene	mg/L	< 0.001			0.001	Pass	
Bromochloromethane	mg/L	< 0.001			0.001	Pass	
Bromodichloromethane	mg/L	< 0.001			0.001	Pass	
Bromoform	mg/L	< 0.001			0.001	Pass	
Bromomethane	mg/L	< 0.001			0.001	Pass	
Carbon disulfide	mg/L	< 0.001			0.001	Pass	
Carbon Tetrachloride	mg/L	< 0.001			0.001	Pass	
Chlorobenzene	mg/L	< 0.001			0.001	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Chloroethane	mg/L	< 0.001			0.001	Pass	
Chloroform	mg/L	< 0.005			0.005	Pass	
Chloromethane	mg/L	< 0.001			0.001	Pass	
cis-1.2-Dichloroethene	mg/L	< 0.001			0.001	Pass	
cis-1.3-Dichloropropene	mg/L	< 0.001			0.001	Pass	
Dibromochloromethane	mg/L	< 0.001			0.001	Pass	
Dibromomethane	mg/L	< 0.001			0.001	Pass	
Dichlorodifluoromethane	mg/L	< 0.001			0.001	Pass	
Iodomethane	mg/L	< 0.001			0.001	Pass	
Isopropyl benzene (Cumene)	mg/L	< 0.001			0.001	Pass	
Methylene Chloride	mg/L	< 0.001			0.001	Pass	
Styrene	mg/L	< 0.001			0.001	Pass	
Tetrachloroethene	mg/L	< 0.001			0.001	Pass	
trans-1.2-Dichloroethene	mg/L	< 0.001			0.001	Pass	
trans-1.3-Dichloropropene	mg/L	< 0.001			0.001	Pass	
Trichloroethene	mg/L	< 0.001			0.001	Pass	
Trichlorofluoromethane	mg/L	< 0.001			0.001	Pass	
Vinyl chloride	mg/L	< 0.001			0.001	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			0.00001	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 - 2013 NEPM Fractions							
Naphthalene	%	114			70-130	Pass	
TRH C6-C10	%	98			70-130	Pass	
TRH >C10-C16	%	73			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
TRH C6-C9	%	92			70-130	Pass	
TRH C10-C14	%	70			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	108			70-130	Pass	
Toluene	%	97			70-130	Pass	
Ethylbenzene	%	83			70-130	Pass	
m&p-Xylenes	%	106			70-130	Pass	
o-Xylene	%	98			70-130	Pass	
Xylenes - Total	%	103			70-130	Pass	
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethene	%	105			70-130	Pass	
1.1.1-Trichloroethane	%	90			70-130	Pass	
1.2-Dichlorobenzene	%	102			70-130	Pass	
1.2-Dichloroethane	%	102			70-130	Pass	
Trichloroethene	%	99			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons (Trace level)							
Acenaphthene	%	112			70-130	Pass	
Acenaphthylene	%	113			70-130	Pass	
Anthracene	%	118			70-130	Pass	
Benz(a)anthracene	%	81			70-130	Pass	
Benzo(a)pyrene	%	107			70-130	Pass	
Benzo(b&j)fluoranthene	%	74			70-130	Pass	
Benzo(g.h.i)perylene	%	82			70-130	Pass	
Benzo(k)fluoranthene	%	104			70-130	Pass	
Chrysene	%	93			70-130	Pass	
Dibenz(a.h)anthracene	%	106			70-130	Pass	
Fluoranthene	%	111			70-130	Pass	
Fluorene	%	116			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	103			70-130	Pass	
Naphthalene	%	92			70-130	Pass	
Phenanthrene	%	94			70-130	Pass	
Pyrene	%	110			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic (filtered)	%	100			70-130	Pass	
Cadmium (filtered)	%	98			70-130	Pass	
Chromium (filtered)	%	98			70-130	Pass	
Copper (filtered)	%	96			70-130	Pass	
Lead (filtered)	%	99			70-130	Pass	
Mercury (filtered)	%	96			70-130	Pass	
Nickel (filtered)	%	98			70-130	Pass	
Zinc (filtered)	%	96			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 (filtered)	S20-Ja17545	NCP	%	98			70-130	Pass	
Cadmium (filtered)	S20-Ja17545	NCP	%	91			70-130	Pass	
Chromium (filtered)	S20-Ja17545	NCP	%	91			70-130	Pass	
Copper (filtered)	S20-Ja17545	NCP	%	90			70-130	Pass	
Lead (filtered)	S20-Ja17545	NCP	%	91			70-130	Pass	
Mercury (filtered)	S20-Ja17545	NCP	%	106			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Nickel (filtered)	S20-Ja17545	NCP	%	92			70-130	Pass	
Zinc (filtered)	S20-Ja17545	NCP	%	52			70-130	Fail	Q08
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH >C10-C16	S20-Ja26116	CP	%	70			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C10-C14	S20-Ja26116	CP	%	71			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S20-Ja14168	NCP	%	90			70-130	Pass	
Toluene	S20-Ja14168	NCP	%	95			70-130	Pass	
Ethylbenzene	S20-Ja14168	NCP	%	95			70-130	Pass	
m&p-Xylenes	S20-Ja14168	NCP	%	91			70-130	Pass	
o-Xylene	S20-Ja14168	NCP	%	95			70-130	Pass	
Xylenes - Total	S20-Ja14168	NCP	%	92			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S20-Ja14168	NCP	%	95			70-130	Pass	
TRH C6-C10	S20-Ja14168	NCP	%	98			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S20-Ja14168	NCP	%	98			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
TRH >C10-C16	S20-Ja26115	CP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH >C16-C34	S20-Ja26115	CP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH >C34-C40	S20-Ja26115	CP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C10-C14	S20-Ja26115	CP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH C15-C28	S20-Ja26115	CP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH C29-C36	S20-Ja26115	CP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic (filtered)	S20-Ja26115	CP	mg/L	0.038	0.038	1.0	30%	Pass	
Cadmium (filtered)	S20-Ja26115	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Chromium (filtered)	S20-Ja26115	CP	mg/L	0.001	0.001	7.0	30%	Pass	
Copper (filtered)	S20-Ja26115	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Lead (filtered)	S20-Ja26115	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Mercury (filtered)	S20-Ja26115	CP	mg/L	0.0001	< 0.0001	42	30%	Fail	Q15
Nickel (filtered)	S20-Ja26115	CP	mg/L	0.001	< 0.001	10	30%	Pass	
Zinc (filtered)	S20-Ja26115	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S20-Ja18704	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Toluene	S20-Ja18704	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Ethylbenzene	S20-Ja18704	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
m&p-Xylenes	S20-Ja18704	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
o-Xylene	S20-Ja18704	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Xylenes - Total	S20-Ja18704	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	

Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S20-Ja18704	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
TRH C6-C10	S20-Ja18704	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S20-Ja18704	NCP	mg/L	< 0.02	< 0.02	<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.
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.
R20	This sample is a Trip Spike and therefore all results are reported as a percentage

Authorised By

Ursula Long	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)
Gabriele Cordero	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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Sample Receipt Advice

Company name: **JBS & G Australia (NSW) P/L**

Contact name: Chris Bielby
Project name: MASCOT
Project ID: 58167
COC number: 20310
Turn around time: 1 Day
Date/Time received: Jan 28, 2020 1:00 PM
Eurofins reference: **698721**

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 : 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).

Contact notes

If you have any questions with respect to these samples please contact:

Ursula Long on Phone : or by e.mail: UrsulaLong@eurofins.com

Results will be delivered electronically via e.mail to Chris Bielby - cbielby@jbsg.com.au.

Note: A copy of these results will also be delivered to the general JBS & G Australia (NSW) P/L email address.

20310

CHAIN OF CUSTODY

PROJECT NO.: 58167	LABORATORY BATCH NO.:
PROJECT NAME: Mascot	SAMPLERS: MN
DATE NEEDED BY: 24 hour turnaround	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) cbielby@jbsg.com.au; (3) dacosta@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	low level PAH	TRH/BTEX	VOCs		TPH C6-C9 BTEX													TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES: 698721
MW1	Water	25/1/20		1x amber, 2x vial, 1x metals		x	x	x	x																
MW2	↓	↓		↓		↓	↓	↓	↓																
MW3																									
MW4																									
MW5																									
QA																									
TS				2x vial							X														
TB	↓	↓		2x vial							X														
Rinsate				2x vial, 1x amber, 1x metals		x	x	x	x																

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Justin DATE: 28/1	CONSIGNMENT NOTE NO.	NAME: Lisa D DATE: 28/01	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	OF: Eurofins 1:00 pm	COOLER TEMP ..... deg C 8.3°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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CERTIFICATE OF ANALYSIS 235361

Client Details

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

Sample Details

Your Reference	**58167, Mascot**
Number of Samples	1 water
Date samples received	28/01/2020
Date completed instructions received	28/01/2020

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	29/01/2020
Date of Issue	29/01/2020

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

Results Approved By
Josh Williams, Senior Chemist
Loren Bardwell, Senior Chemist

Authorised By

Nancy Zhang, Laboratory Manager

VOCs in water		
Our Reference		235361-1
Your Reference	UNITS	QC
Date Sampled		25/01/2020
Type of sample		water
Date extracted	-	28/01/2020
Date analysed	-	29/01/2020
Dichlorodifluoromethane	µg/L	<10
Chloromethane	µg/L	<10
Vinyl Chloride	µg/L	<10
Bromomethane	µg/L	<10
Chloroethane	µg/L	<10
Trichlorofluoromethane	µg/L	<10
1,1-Dichloroethene	µg/L	<1
Trans-1,2-dichloroethene	µg/L	<1
1,1-dichloroethane	µg/L	<1
Cis-1,2-dichloroethene	µg/L	<1
Bromochloromethane	µg/L	<1
Chloroform	µg/L	<1
2,2-dichloropropane	µg/L	<1
1,2-dichloroethane	µg/L	<1
1,1,1-trichloroethane	µg/L	<1
1,1-dichloropropene	µg/L	<1
Cyclohexane	µg/L	<1
Carbon tetrachloride	µg/L	<1
Benzene	µg/L	<1
Dibromomethane	µg/L	<1
1,2-dichloropropane	µg/L	<1
Trichloroethene	µg/L	<1
Bromodichloromethane	µg/L	<1
trans-1,3-dichloropropene	µg/L	<1
cis-1,3-dichloropropene	µg/L	<1
1,1,2-trichloroethane	µg/L	<1
Toluene	µg/L	<1
1,3-dichloropropane	µg/L	<1
Dibromochloromethane	µg/L	<1
1,2-dibromoethane	µg/L	<1
Tetrachloroethene	µg/L	<1
1,1,1,2-tetrachloroethane	µg/L	<1
Chlorobenzene	µg/L	<1
Ethylbenzene	µg/L	<1

VOCs in water		
Our Reference		235361-1
Your Reference	UNITS	QC
Date Sampled		25/01/2020
Type of sample		water
Bromoform	µg/L	<1
m+p-xylene	µg/L	<2
Styrene	µg/L	<1
1,1,2,2-tetrachloroethane	µg/L	<1
o-xylene	µg/L	<1
1,2,3-trichloropropane	µg/L	<1
Isopropylbenzene	µg/L	<1
Bromobenzene	µg/L	<1
n-propyl benzene	µg/L	<1
2-chlorotoluene	µg/L	<1
4-chlorotoluene	µg/L	<1
1,3,5-trimethyl benzene	µg/L	<1
Tert-butyl benzene	µg/L	<1
1,2,4-trimethyl benzene	µg/L	<1
1,3-dichlorobenzene	µg/L	<1
Sec-butyl benzene	µg/L	<1
1,4-dichlorobenzene	µg/L	<1
4-isopropyl toluene	µg/L	<1
1,2-dichlorobenzene	µg/L	<1
n-butyl benzene	µg/L	<1
1,2-dibromo-3-chloropropane	µg/L	<1
1,2,4-trichlorobenzene	µg/L	<1
Hexachlorobutadiene	µg/L	<1
1,2,3-trichlorobenzene	µg/L	<1
Surrogate Dibromofluoromethane	%	107
Surrogate toluene-d8	%	102
Surrogate 4-BFB	%	113

vTRH(C6-C10)/BTEXN in Water		
Our Reference	UNITS	235361-1
Your Reference		QC
Date Sampled		25/01/2020
Type of sample		water
Date extracted	-	28/01/2020
Date analysed	-	29/01/2020
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	%	102
Surrogate 4-BFB	%	113

svTRH (C10-C40) in Water		
Our Reference		235361-1
Your Reference	UNITS	QC
Date Sampled		25/01/2020
Type of sample		water
Date extracted	-	29/01/2020
Date analysed	-	29/01/2020
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	%	77

PAHs in Water - Low Level		
Our Reference		235361-1
Your Reference	UNITS	QC
Date Sampled		25/01/2020
Type of sample		water
Date extracted	-	29/01/2020
Date analysed	-	29/01/2020
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	%	77

HM in water - dissolved		
Our Reference		235361-1
Your Reference	UNITS	QC
Date Sampled		25/01/2020
Type of sample		water
Date prepared	-	29/01/2020
Date analysed	-	29/01/2020
Arsenic-Dissolved	µg/L	72
Cadmium-Dissolved	µg/L	<0.1
Chromium-Dissolved	µg/L	2
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

Method ID	Methodology Summary
Metals-021	Determination of Mercury by Cold Vapour AAS.
Metals-022	Determination of various metals by ICP-MS.
Org-003	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-012/017	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.
Org-013	Water samples are analysed directly by purge and trap GC-MS.
Org-016	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.

QUALITY CONTROL: VOCs in water					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			28/01/2020	[NT]	[NT]	[NT]	[NT]	28/01/2020	[NT]
Date analysed	-			29/01/2020	[NT]	[NT]	[NT]	[NT]	29/01/2020	[NT]
Dichlorodifluoromethane	µg/L	10	Org-013	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chloromethane	µg/L	10	Org-013	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Vinyl Chloride	µg/L	10	Org-013	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromomethane	µg/L	10	Org-013	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chloroethane	µg/L	10	Org-013	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Trichlorofluoromethane	µg/L	10	Org-013	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1-Dichloroethene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Trans-1,2-dichloroethene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1-dichloroethane	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	123	[NT]
Cis-1,2-dichloroethene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromochloromethane	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chloroform	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	123	[NT]
2,2-dichloropropane	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dichloroethane	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	121	[NT]
1,1,1-trichloroethane	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	122	[NT]
1,1-dichloropropene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Cyclohexane	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Carbon tetrachloride	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibromomethane	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dichloropropane	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Trichloroethene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	119	[NT]
Bromodichloromethane	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	114	[NT]
trans-1,3-dichloropropene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
cis-1,3-dichloropropene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1,2-trichloroethane	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Toluene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,3-dichloropropane	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibromochloromethane	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	107	[NT]
1,2-dibromoethane	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Tetrachloroethene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	120	[NT]
1,1,1,2-tetrachloroethane	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chlorobenzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Ethylbenzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromoform	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
m+p-xylene	µg/L	2	Org-013	<2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Styrene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1,2,2-tetrachloroethane	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]

QUALITY CONTROL: VOCs in water					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
o-xylene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,3-trichloropropane	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Isopropylbenzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromobenzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
n-propyl benzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
2-chlorotoluene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
4-chlorotoluene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,3,5-trimethyl benzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Tert-butyl benzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,4-trimethyl benzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,3-dichlorobenzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Sec-butyl benzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,4-dichlorobenzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
4-isopropyl toluene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dichlorobenzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
n-butyl benzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dibromo-3-chloropropane	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,4-trichlorobenzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Hexachlorobutadiene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,3-trichlorobenzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-013	104	[NT]	[NT]	[NT]	[NT]	101	[NT]
Surrogate toluene-d8	%		Org-013	100	[NT]	[NT]	[NT]	[NT]	101	[NT]
Surrogate 4-BFB	%		Org-013	112	[NT]	[NT]	[NT]	[NT]	101	[NT]

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	-			28/01/2020	[NT]	[NT]	[NT]	[NT]	28/01/2020	[NT]
Date analysed	-			29/01/2020	[NT]	[NT]	[NT]	[NT]	29/01/2020	[NT]
TRH C_6 - C_9	µg/L	10	Org-016	<10	[NT]	[NT]	[NT]	[NT]	83	[NT]
TRH C_6 - C_{10}	µg/L	10	Org-016	<10	[NT]	[NT]	[NT]	[NT]	83	[NT]
Benzene	µg/L	1	Org-016	<1	[NT]	[NT]	[NT]	[NT]	82	[NT]
Toluene	µg/L	1	Org-016	<1	[NT]	[NT]	[NT]	[NT]	85	[NT]
Ethylbenzene	µg/L	1	Org-016	<1	[NT]	[NT]	[NT]	[NT]	81	[NT]
m+p-xylene	µg/L	2	Org-016	<2	[NT]	[NT]	[NT]	[NT]	84	[NT]
o-xylene	µg/L	1	Org-016	<1	[NT]	[NT]	[NT]	[NT]	80	[NT]
Naphthalene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-016	106	[NT]	[NT]	[NT]	[NT]	100	[NT]
Surrogate toluene-d8	%		Org-016	102	[NT]	[NT]	[NT]	[NT]	102	[NT]
Surrogate 4-BFB	%		Org-016	113	[NT]	[NT]	[NT]	[NT]	105	[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	-			29/01/2020	[NT]	[NT]	[NT]	[NT]	29/01/2020	[NT]
Date analysed	-			29/01/2020	[NT]	[NT]	[NT]	[NT]	29/01/2020	[NT]
TRH C_{10} - C_{14}	µg/L	50	Org-003	<50	[NT]	[NT]	[NT]	[NT]	84	[NT]
TRH C_{15} - C_{28}	µg/L	100	Org-003	<100	[NT]	[NT]	[NT]	[NT]	93	[NT]
TRH C_{29} - C_{36}	µg/L	100	Org-003	<100	[NT]	[NT]	[NT]	[NT]	92	[NT]
TRH >C_{10} - C_{16}	µg/L	50	Org-003	<50	[NT]	[NT]	[NT]	[NT]	84	[NT]
TRH >C_{16} - C_{34}	µg/L	100	Org-003	<100	[NT]	[NT]	[NT]	[NT]	93	[NT]
TRH >C_{34} - C_{40}	µg/L	100	Org-003	<100	[NT]	[NT]	[NT]	[NT]	92	[NT]
Surrogate o-Terphenyl	%		Org-003	73	[NT]	[NT]	[NT]	[NT]	108	[NT]

QUALITY CONTROL: PAHs in Water - Low Level						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			29/01/2020	[NT]	[NT]	[NT]	[NT]	29/01/2020	[NT]
Date analysed	-			29/01/2020	[NT]	[NT]	[NT]	[NT]	29/01/2020	[NT]
Naphthalene	µg/L	0.2	Org-012/017	<0.2	[NT]	[NT]	[NT]	[NT]	118	[NT]
Acenaphthylene	µg/L	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluorene	µg/L	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	112	[NT]
Phenanthrene	µg/L	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	110	[NT]
Anthracene	µg/L	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	110	[NT]
Pyrene	µg/L	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	116	[NT]
Benzo(a)anthracene	µg/L	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chrysene	µg/L	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	108	[NT]
Benzo(b,j+k)fluoranthene	µg/L	0.2	Org-012/017	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	86	[NT]
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-012/017	83	[NT]	[NT]	[NT]	[NT]	83	[NT]

QUALITY CONTROL: HM in water - dissolved						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			29/01/2020	[NT]	[NT]	[NT]	[NT]	29/01/2020	[NT]
Date analysed	-			29/01/2020	[NT]	[NT]	[NT]	[NT]	29/01/2020	[NT]
Arsenic-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	99	[NT]
Cadmium-Dissolved	µg/L	0.1	Metals-022	<0.1	[NT]	[NT]	[NT]	[NT]	100	[NT]
Chromium-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	97	[NT]
Copper-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	99	[NT]
Lead-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	103	[NT]
Mercury-Dissolved	µg/L	0.05	Metals-021	<0.05	[NT]	[NT]	[NT]	[NT]	107	[NT]
Nickel-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	99	[NT]
Zinc-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	101	[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.

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.

20311

CHAIN OF CUSTODY

PROJECT NO.: 58167	LABORATORY BATCH NO.:
PROJECT NAME: Mascot	SAMPLERS:
DATE NEEDED BY: 24 hour turnaround	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) .....Chirelby.....@jbsg.com.au; (3) .....jclacester.....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	low level Metals	TRH / BTEX	VOCs	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
QC	Water	25/1/20		2x vial (x amber 1x metals)		1	1	1	1			

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

Job No: 235361
Date Received: 28/1/20
Time Received: 1451
Received by: SD
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 28/1	CONSIGNMENT NOTE NO.	NAME: Jason Ding	COOLER SEAL Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 28/1/20 1454	COOLER TEMP ..... deg C 13.8
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

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
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Chris Bielby**

Report **698723-A**
Project name MASCOT
Project ID 58167
Received Date Jan 28, 2020

Client Sample ID			**SV02 (FRONT)**	**SV02 (BACK)**	**SV04 (FRONT)**	**SV04 (BACK)**
Sample Matrix			**Air**	**Air**	**Air**	**Air**
Eurofins Sample No.			**S20-Ja26152**	**S20-Ja26153**	**S20-Ja26154**	**S20-Ja26155**
Date Sampled			**Jan 22, 2020**	**Jan 22, 2020**	**Jan 22, 2020**	**Jan 22, 2020**
Test/Reference	LOR	Unit				
Isopropanol	10	Total ug	< 10	< 10	< 10	< 10
VOCs in Ambient Air by GC/MS						
1.1-Dichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromo-3-chloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromoethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
2-Chlorotoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
2.2-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
4-Chlorotoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Benzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromochloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromodichloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromoform	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Carbon Tetrachloride	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Chloroform	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Dibromochloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Dibromomethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
n-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
n-Propylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			SV02 (FRONT)	SV02 (BACK)	SV04 (FRONT)	SV04 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			S20-Ja26152	S20-Ja26153	S20-Ja26154	S20-Ja26155
Date Sampled			Jan 22, 2020	Jan 22, 2020	Jan 22, 2020	Jan 22, 2020
Test/Reference	LOR	Unit				
VOCs in Ambient Air by GC/MS						
Naphthalene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
p-Isopropyltoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
sec-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Styrene	5	Total ug	< 5	< 5	< 5	< 5
tert-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Tetrachloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl chloride	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes - Total	1.5	Total ug	< 1.5	< 1.5	< 1.5	< 1.5
Fluorobenzene (surr.)	1	%	112	108	136	95
4-Bromofluorobenzene (surr.)	1	%	115	107	137	92
Dibromofluoromethane (surr.)	1	%	107	104	127	91
1.2-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Hexachlorobutadiene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			SV07 (FRONT)	SV07 (BACK)	SV08 (FRONT)	SV08 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			S20-Ja26156	S20-Ja26157	S20-Ja26158	S20-Ja26159
Date Sampled			Jan 24, 2020	Jan 24, 2020	Jan 24, 2020	Jan 24, 2020
Test/Reference	LOR	Unit				
Isopropanol	10	Total ug	< 10	< 10	< 10	< 10
VOCs in Ambient Air by GC/MS						
1.1-Dichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromo-3-chloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromoethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
2-Chlorotoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
2.2-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
4-Chlorotoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			SV07 (FRONT)	SV07 (BACK)	SV08 (FRONT)	SV08 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			S20-Ja26156	S20-Ja26157	S20-Ja26158	S20-Ja26159
Date Sampled			Jan 24, 2020	Jan 24, 2020	Jan 24, 2020	Jan 24, 2020
Test/Reference	LOR	Unit				
VOCs in Ambient Air by GC/MS						
Benzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromochloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromodichloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromoform	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Carbon Tetrachloride	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Chloroform	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Dibromochloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Dibromomethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
n-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
n-Propylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
p-Isopropyltoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
sec-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Styrene	5	Total ug	< 5	< 5	< 5	< 5
tert-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Tetrachloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl chloride	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes - Total	1.5	Total ug	< 1.5	< 1.5	< 1.5	< 1.5
Fluorobenzene (surr.)	1	%	108	91	119	90
4-Bromofluorobenzene (surr.)	1	%	108	91	122	89
Dibromofluoromethane (surr.)	1	%	110	94	130	86
1.2-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Hexachlorobutadiene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			SV10 (FRONT)	SV10 (BACK)	SV11 (FRONT)	SV11 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			S20-Ja26160	S20-Ja26161	S20-Ja26162	S20-Ja26163
Date Sampled			Jan 24, 2020	Jan 24, 2020	Jan 24, 2020	Jan 24, 2020
Test/Reference	LOR	Unit				
Isopropanol	10	Total ug	< 10	< 10	< 10	< 10

Client Sample ID			SV10 (FRONT)	SV10 (BACK)	SV11 (FRONT)	SV11 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			S20-Ja26160	S20-Ja26161	S20-Ja26162	S20-Ja26163
Date Sampled			Jan 24, 2020	Jan 24, 2020	Jan 24, 2020	Jan 24, 2020
Test/Reference	LOR	Unit				
VOCs in Ambient Air by GC/MS						
1.1-Dichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromo-3-chloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromoethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
2-Chlorotoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
2.2-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
4-Chlorotoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Benzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromochloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromodichloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromoform	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Carbon Tetrachloride	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Chloroform	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Dibromochloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Dibromomethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
n-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
n-Propylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
p-Isopropyltoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
sec-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Styrene	5	Total ug	< 5	< 5	< 5	< 5
tert-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Tetrachloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	0.5	Total ug	< 0.5	< 0.5	0.9	< 0.5
Vinyl chloride	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes - Total	1.5	Total ug	< 1.5	< 1.5	< 1.5	< 1.5
Fluorobenzene (surr.)	1	%	111	89	112	102
4-Bromofluorobenzene (surr.)	1	%	110	90	121	102
Dibromofluoromethane (surr.)	1	%	112	92	124	95
1.2-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			SV10 (FRONT)	SV10 (BACK)	SV11 (FRONT)	SV11 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			S20-Ja26160	S20-Ja26161	S20-Ja26162	S20-Ja26163
Date Sampled			Jan 24, 2020	Jan 24, 2020	Jan 24, 2020	Jan 24, 2020
Test/Reference	LOR	Unit				
VOCs in Ambient Air by GC/MS						
1.2.3-Trichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Hexachlorobutadiene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			SV12 (FRONT)	SV12 (BACK)	SV13 (FRONT)	SV13 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			S20-Ja26164	S20-Ja26165	S20-Ja26166	S20-Ja26167
Date Sampled			Jan 24, 2020	Jan 24, 2020	Jan 24, 2020	Jan 24, 2020
Test/Reference	LOR	Unit				
Isopropanol	10	Total ug	< 10	< 10	< 10	< 10
VOCs in Ambient Air by GC/MS						
1.1-Dichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromo-3-chloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromoethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
2-Chlorotoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
2.2-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
4-Chlorotoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Benzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromochloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromodichloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromoform	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Carbon Tetrachloride	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Chloroform	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Dibromochloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Dibromomethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
n-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
n-Propylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			SV12 (FRONT)	SV12 (BACK)	SV13 (FRONT)	SV13 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			S20-Ja26164	S20-Ja26165	S20-Ja26166	S20-Ja26167
Date Sampled			Jan 24, 2020	Jan 24, 2020	Jan 24, 2020	Jan 24, 2020
Test/Reference	LOR	Unit				
VOCs in Ambient Air by GC/MS						
p-Isopropyltoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
sec-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Styrene	5	Total ug	< 5	< 5	< 5	< 5
tert-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Tetrachloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl chloride	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes - Total	1.5	Total ug	< 1.5	< 1.5	< 1.5	< 1.5
Fluorobenzene (surr.)	1	%	111	104	105	102
4-Bromofluorobenzene (surr.)	1	%	108	101	103	100
Dibromofluoromethane (surr.)	1	%	111	95	98	97
1.2-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Hexachlorobutadiene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			SV17 (FRONT)	SV17 (BACK)	SV19 (FRONT)	SV19 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			S20-Ja26168	S20-Ja26169	S20-Ja26170	S20-Ja26171
Date Sampled			Jan 24, 2020	Jan 24, 2020	Jan 24, 2020	Jan 24, 2020
Test/Reference	LOR	Unit				
Isopropanol	10	Total ug	< 10	< 10	< 10	< 10
VOCs in Ambient Air by GC/MS						
1.1-Dichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromo-3-chloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromoethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	Total ug	< 0.5	< 0.5	0.8	< 0.5
1.3-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
2-Chlorotoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
2.2-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
4-Chlorotoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Benzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			SV17 (FRONT)	SV17 (BACK)	SV19 (FRONT)	SV19 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			S20-Ja26168	S20-Ja26169	S20-Ja26170	S20-Ja26171
Date Sampled			Jan 24, 2020	Jan 24, 2020	Jan 24, 2020	Jan 24, 2020
Test/Reference	LOR	Unit				
VOCs in Ambient Air by GC/MS						
Bromochloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromodichloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromoform	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Carbon Tetrachloride	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Chloroform	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Dibromochloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Dibromomethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
n-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
n-Propylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
p-Isopropyltoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
sec-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Styrene	5	Total ug	< 5	< 5	< 5	< 5
tert-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Tetrachloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl chloride	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes - Total	1.5	Total ug	< 1.5	< 1.5	< 1.5	< 1.5
Fluorobenzene (surr.)	1	%	66	62	63	58
4-Bromofluorobenzene (surr.)	1	%	71	72	72	69
Dibromofluoromethane (surr.)	1	%	105	104	104	98
1.2-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Hexachlorobutadiene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			SV21 (FRONT)	SV21 (BACK)	QSV03 (FRONT)	QSV03 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			S20-Ja26172	S20-Ja26173	S20-Ja26174	S20-Ja26175
Date Sampled			Jan 24, 2020	Jan 24, 2020	Jan 24, 2020	Jan 24, 2020
Test/Reference	LOR	Unit				
Isopropanol	10	Total ug	< 10	< 10	< 10	< 10

Client Sample ID			SV21 (FRONT)	SV21 (BACK)	QSV03 (FRONT)	QSV03 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			S20-Ja26172	S20-Ja26173	S20-Ja26174	S20-Ja26175
Date Sampled			Jan 24, 2020	Jan 24, 2020	Jan 24, 2020	Jan 24, 2020
Test/Reference	LOR	Unit				
VOCs in Ambient Air by GC/MS						
1.1-Dichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromo-3-chloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromoethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
2-Chlorotoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
2.2-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
4-Chlorotoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Benzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromochloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromodichloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromoform	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Carbon Tetrachloride	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Chloroform	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Dibromochloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Dibromomethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
n-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
n-Propylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
p-Isopropyltoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
sec-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Styrene	5	Total ug	< 5	< 5	< 5	< 5
tert-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Tetrachloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl chloride	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes - Total	1.5	Total ug	< 1.5	< 1.5	< 1.5	< 1.5
Fluorobenzene (surr.)	1	%	59	59	64	61
4-Bromofluorobenzene (surr.)	1	%	71	69	74	70
Dibromofluoromethane (surr.)	1	%	96	97	105	97
1.2-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			SV21 (FRONT)	SV21 (BACK)	QSV03 (FRONT)	QSV03 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			S20-Ja26172	S20-Ja26173	S20-Ja26174	S20-Ja26175
Date Sampled			Jan 24, 2020	Jan 24, 2020	Jan 24, 2020	Jan 24, 2020
Test/Reference	LOR	Unit				
VOCs in Ambient Air by GC/MS						
1.2.3-Trichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Hexachlorobutadiene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			BLANK (FRONT)	BLANK (BACK)
Sample Matrix			Air	Air
Eurofins Sample No.			S20-Ja26176	S20-Ja26177
Date Sampled			Jan 24, 2020	Jan 24, 2020
Test/Reference	LOR	Unit		
VOCs in Ambient Air by GC/MS				
1.1-Dichloroethane	0.5	Total ug	< 0.5	< 0.5
1.1-Dichloroethene	0.5	Total ug	< 0.5	< 0.5
1.1-Dichloropropene	0.5	Total ug	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	Total ug	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	Total ug	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	Total ug	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	Total ug	< 0.5	< 0.5
1.2-Dibromo-3-chloropropane	0.5	Total ug	< 0.5	< 0.5
1.2-Dibromoethane	0.5	Total ug	< 0.5	< 0.5
1.2-Dichloroethane	0.5	Total ug	< 0.5	< 0.5
1.2-Dichloropropane	0.5	Total ug	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	Total ug	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	Total ug	< 0.5	< 0.5
1.3-Dichloropropane	0.5	Total ug	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	Total ug	< 0.5	< 0.5
2-Chlorotoluene	0.5	Total ug	< 0.5	< 0.5
2.2-Dichloropropane	0.5	Total ug	< 0.5	< 0.5
4-Chlorotoluene	0.5	Total ug	< 0.5	< 0.5
Benzene	0.5	Total ug	< 0.5	< 0.5
Bromochloromethane	0.5	Total ug	< 0.5	< 0.5
Bromodichloromethane	0.5	Total ug	< 0.5	< 0.5
Bromoform	0.5	Total ug	< 0.5	< 0.5
Carbon Tetrachloride	0.5	Total ug	< 0.5	< 0.5
Chlorobenzene	0.5	Total ug	< 0.5	< 0.5
Chloroform	0.5	Total ug	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	Total ug	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	Total ug	< 0.5	< 0.5
Dibromochloromethane	0.5	Total ug	< 0.5	< 0.5
Dibromomethane	0.5	Total ug	< 0.5	< 0.5
Ethylbenzene	0.5	Total ug	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	Total ug	< 0.5	< 0.5
n-Butylbenzene	0.5	Total ug	< 0.5	< 0.5
n-Propylbenzene	0.5	Total ug	< 0.5	< 0.5
Naphthalene	0.5	Total ug	< 0.5	< 0.5
p-Isopropyltoluene	0.5	Total ug	< 0.5	< 0.5

Client Sample ID			BLANK (FRONT)	BLANK (BACK)
Sample Matrix			**Air**	**Air**
Eurofins Sample No.			**S20-Ja26176**	**S20-Ja26177**
Date Sampled			**Jan 24, 2020**	**Jan 24, 2020**
Test/Reference	LOR	Unit		
VOCs in Ambient Air by GC/MS				
sec-Butylbenzene	0.5	Total ug	< 0.5	< 0.5
Styrene	5	Total ug	< 5	< 5
tert-Butylbenzene	0.5	Total ug	< 0.5	< 0.5
Tetrachloroethene	0.5	Total ug	< 0.5	< 0.5
Toluene	0.5	Total ug	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	Total ug	< 0.5	< 0.5
Trichloroethene	0.5	Total ug	< 0.5	< 0.5
Trichlorofluoromethane	0.5	Total ug	< 0.5	< 0.5
Vinyl chloride	0.5	Total ug	< 0.5	< 0.5
Xylenes - Total	1.5	Total ug	< 1.5	< 1.5
Fluorobenzene (surr.)	1	%	66	58
4-Bromofluorobenzene (surr.)	1	%	77	68
Dibromofluoromethane (surr.)	1	%	108	96
1.2-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5
1.2.3-Trichlorobenzene	0.5	Total ug	< 0.5	< 0.5
1.2.4-Trichlorobenzene	0.5	Total ug	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5
Hexachlorobutadiene	0.5	Total ug	< 0.5	< 0.5

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

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
Isopropanol	Melbourne	Jan 28, 2020	14 Days
- Method: LTM-ORG-2030 VOCs in Ambient Air by GC/MS			
VOCs in Ambient Air by GC/MS	Melbourne	Jan 28, 2020	14 Days
- Method: LTM-ORG-2030 VOCs in Ambient Air by GC/MS			

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Project Name: MASCOT
Project ID: 58167

Order No.:
Report #: 698723
Phone: 02 8245 0300
Fax:

Received: Jan 28, 2020 9:47 AM
Due: Jan 29, 2020
Priority: 1 Day
Contact Name: Chris Bielby

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						HOLD	Isopropanol	VOCs in Ambient Air by GC/MS
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X
Sydney Laboratory - NATA Site # 18217								
Brisbane Laboratory - NATA Site # 20794								
Perth Laboratory - NATA Site # 23736								
External Laboratory								
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**			
1	SV02 (FRONT)	Jan 22, 2020		Air	S20-Ja26152		X	X
2	SV02 (BACK)	Jan 22, 2020		Air	S20-Ja26153		X	X
3	SV04 (FRONT)	Jan 22, 2020		Air	S20-Ja26154		X	X
4	SV04 (BACK)	Jan 22, 2020		Air	S20-Ja26155		X	X
5	SV07 (FRONT)	Jan 24, 2020		Air	S20-Ja26156		X	X
6	SV07 (BACK)	Jan 24, 2020		Air	S20-Ja26157		X	X
7	SV08 (FRONT)	Jan 24, 2020		Air	S20-Ja26158		X	X

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

Project Name: MASCOT
Project ID: 58167

Order No.:
Report #: 698723
Phone: 02 8245 0300
Fax:

Received: Jan 28, 2020 9:47 AM
Due: Jan 29, 2020
Priority: 1 Day
Contact Name: Chris Bielby

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						HOLD	Isopropanol	VOCs in Ambient Air by GC/MS
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X
Sydney Laboratory - NATA Site # 18217								
Brisbane Laboratory - NATA Site # 20794								
Perth Laboratory - NATA Site # 23736								
8	SV08 (BACK)	Jan 24, 2020		Air	S20-Ja26159		X	X
9	SV10 (FRONT)	Jan 24, 2020		Air	S20-Ja26160		X	X
10	SV10 (BACK)	Jan 24, 2020		Air	S20-Ja26161		X	X
11	SV11 (FRONT)	Jan 24, 2020		Air	S20-Ja26162		X	X
12	SV11 (BACK)	Jan 24, 2020		Air	S20-Ja26163		X	X
13	SV12 (FRONT)	Jan 24, 2020		Air	S20-Ja26164		X	X
14	SV12 (BACK)	Jan 24, 2020		Air	S20-Ja26165		X	X
15	SV13 (FRONT)	Jan 24, 2020		Air	S20-Ja26166		X	X
16	SV13 (BACK)	Jan 24, 2020		Air	S20-Ja26167		X	X
17	SV17	Jan 24, 2020		Air	S20-Ja26168		X	X

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Sydney Laboratory - NATA Site # 18217								
Brisbane Laboratory - NATA Site # 20794								
Perth Laboratory - NATA Site # 23736								
	(FRONT)							
18	SV17 (BACK)	Jan 24, 2020		Air	S20-Ja26169		X	X
19	SV19 (FRONT)	Jan 24, 2020		Air	S20-Ja26170		X	X
20	SV19 (BACK)	Jan 24, 2020		Air	S20-Ja26171		X	X
21	SV21 (FRONT)	Jan 24, 2020		Air	S20-Ja26172		X	X
22	SV21 (BACK)	Jan 24, 2020		Air	S20-Ja26173		X	X
23	QSV03 (FRONT)	Jan 24, 2020		Air	S20-Ja26174		X	X
24	QSV03 (BACK)	Jan 24, 2020		Air	S20-Ja26175		X	X
25	BLANK (FRONT)	Jan 24, 2020		Air	S20-Ja26176			X

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Sample Detail						HOLD	Isopropanol	VOCs in Ambient Air by GC/MS
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X
Sydney Laboratory - NATA Site # 18217								
Brisbane Laboratory - NATA Site # 20794								
Perth Laboratory - NATA Site # 23736								
26	BLANK (BACK)	Jan 24, 2020		Air	S20-Ja26177			X
27	SV01 (FRONT)	Jan 22, 2020		Air	S20-Ja26178	X		
28	SV01 (BACK)	Jan 22, 2020		Air	S20-Ja26179	X		
29	SV03 (FRONT)	Jan 22, 2020		Air	S20-Ja26180	X		
30	SV03 (BACK)	Jan 22, 2020		Air	S20-Ja26181	X		
31	SV05 (FRONT)	Jan 24, 2020		Air	S20-Ja26182	X		
32	SV05 (BACK)	Jan 24, 2020		Air	S20-Ja26183	X		
33	SV06 (FRONT)	Jan 24, 2020		Air	S20-Ja26184	X		
34	SV06 (BACK)	Jan 24, 2020		Air	S20-Ja26185	X		

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Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X
Sydney Laboratory - NATA Site # 18217								
Brisbane Laboratory - NATA Site # 20794								
Perth Laboratory - NATA Site # 23736								
35	SV09 (FRONT)	Jan 24, 2020		Air	S20-Ja26186	X		
36	SV09 (BACK)	Jan 24, 2020		Air	S20-Ja26187	X		
37	SV14 (FRONT)	Jan 24, 2020		Air	S20-Ja26188	X		
38	SV14 (BACK)	Jan 24, 2020		Air	S20-Ja26189	X		
39	SV15 (FRONT)	Jan 24, 2020		Air	S20-Ja26190	X		
40	SV15 (BACK)	Jan 24, 2020		Air	S20-Ja26191	X		
41	SV16 (FRONT)	Jan 24, 2020		Air	S20-Ja26192	X		
42	SV16 (BACK)	Jan 24, 2020		Air	S20-Ja26193	X		
43	SV18 (FRONT)	Jan 24, 2020		Air	S20-Ja26194	X		

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Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X
Sydney Laboratory - NATA Site # 18217								
Brisbane Laboratory - NATA Site # 20794								
Perth Laboratory - NATA Site # 23736								
44	SV18 (BACK)	Jan 24, 2020		Air	S20-Ja26195	X		
45	SV20 (FRONT)	Jan 24, 2020		Air	S20-Ja26196	X		
46	SV20 (BACK)	Jan 24, 2020		Air	S20-Ja26197	X		
47	QSV01 (FRONT)	Jan 24, 2020		Air	S20-Ja26198	X		
48	QSV01 (BACK)	Jan 24, 2020		Air	S20-Ja26199	X		
49	QSV01A (FRONT)	Jan 24, 2020		Air	S20-Ja26200	X		
50	QSV01A (BACK)	Jan 24, 2020		Air	S20-Ja26201	X		
51	QSV02 (FRONT)	Jan 24, 2020		Air	S20-Ja26202	X		
52	QSV02	Jan 24, 2020		Air	S20-Ja26203	X		

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Sample Detail						HOLD	Isopropanol	VOCs in Ambient Air by GC/MS
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X
Sydney Laboratory - NATA Site # 18217								
Brisbane Laboratory - NATA Site # 20794								
Perth Laboratory - NATA Site # 23736								
52	QSV02 (BACK)	Jan 24, 2020		Air	S20-Ja26203			
53	QSV02A (FRONT)	Jan 24, 2020		Air	S20-Ja26204	X		
54	QSV02A (BACK)	Jan 24, 2020		Air	S20-Ja26205	X		
Test Counts						28	24	26

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							
Isopropanol	Total ug	< 10			10	Pass	
Method Blank							
VOCs in Ambient Air by GC/MS							
1.1-Dichloroethane	Total ug	< 0.5			0.5	Pass	
1.1-Dichloroethene	Total ug	< 0.5			0.5	Pass	
1.1-Dichloropropene	Total ug	< 0.5			0.5	Pass	
1.1.1-Trichloroethane	Total ug	< 0.5			0.5	Pass	
1.1.1.2-Tetrachloroethane	Total ug	< 0.5			0.5	Pass	
1.1.2-Trichloroethane	Total ug	< 0.5			0.5	Pass	
1.1.2.2-Tetrachloroethane	Total ug	< 0.5			0.5	Pass	
1.2-Dibromo-3-chloropropane	Total ug	< 0.5			0.5	Pass	
1.2-Dibromoethane	Total ug	< 0.5			0.5	Pass	
1.2-Dichloroethane	Total ug	< 0.5			0.5	Pass	
1.2-Dichloropropane	Total ug	< 0.5			0.5	Pass	
1.2.3-Trichloropropane	Total ug	< 0.5			0.5	Pass	
1.2.4-Trimethylbenzene	Total ug	< 0.5			0.5	Pass	
1.3-Dichloropropane	Total ug	< 0.5			0.5	Pass	
1.3.5-Trimethylbenzene	Total ug	< 0.5			0.5	Pass	
2-Chlorotoluene	Total ug	< 0.5			0.5	Pass	
2.2-Dichloropropane	Total ug	< 0.5			0.5	Pass	
4-Chlorotoluene	Total ug	< 0.5			0.5	Pass	
Benzene	Total ug	< 0.5			0.5	Pass	
Bromochloromethane	Total ug	< 0.5			0.5	Pass	
Bromodichloromethane	Total ug	< 0.5			0.5	Pass	
Bromoform	Total ug	< 0.5			0.5	Pass	
Carbon Tetrachloride	Total ug	< 0.5			0.5	Pass	
Chlorobenzene	Total ug	< 0.5			0.5	Pass	
Chloroform	Total ug	< 0.5			0.5	Pass	
cis-1.2-Dichloroethene	Total ug	< 0.5			0.5	Pass	
cis-1.3-Dichloropropene	Total ug	< 0.5			0.5	Pass	
Dibromochloromethane	Total ug	< 0.5			0.5	Pass	
Dibromomethane	Total ug	< 0.5			0.5	Pass	
Ethylbenzene	Total ug	< 0.5			0.5	Pass	
Isopropyl benzene (Cumene)	Total ug	< 0.5			0.5	Pass	
n-Butylbenzene	Total ug	< 0.5			0.5	Pass	
n-Propylbenzene	Total ug	< 0.5			0.5	Pass	
Naphthalene	Total ug	< 0.5			0.5	Pass	
p-Isopropyltoluene	Total ug	< 0.5			0.5	Pass	
sec-Butylbenzene	Total ug	< 0.5			0.5	Pass	
Styrene	Total ug	< 5			5	Pass	
tert-Butylbenzene	Total ug	< 0.5			0.5	Pass	
Tetrachloroethene	Total ug	< 0.5			0.5	Pass	
Toluene	Total ug	< 0.5			0.5	Pass	
trans-1.3-Dichloropropene	Total ug	< 0.5			0.5	Pass	
Trichloroethene	Total ug	< 0.5			0.5	Pass	
Trichlorofluoromethane	Total ug	< 0.5			0.5	Pass	
Vinyl chloride	Total ug	< 0.5			0.5	Pass	
Xylenes - Total	Total ug	< 1.5			1.5	Pass	
1.2-Dichlorobenzene	Total ug	< 0.5			0.5	Pass	
1.2.3-Trichlorobenzene	Total ug	< 0.5			0.5	Pass	
1.2.4-Trichlorobenzene	Total ug	< 0.5			0.5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
1.3-Dichlorobenzene	Total ug	< 0.5			0.5	Pass	
1.4-Dichlorobenzene	Total ug	< 0.5			0.5	Pass	
Hexachlorobutadiene	Total ug	< 0.5			0.5	Pass	
LCS - % Recovery							
VOCs in Ambient Air by GC/MS							
1.1-Dichloroethene	%	80			70-130	Pass	
1.1-Dichloropropene	%	93			70-130	Pass	
1.1.1-Trichloroethane	%	95			70-130	Pass	
1.2-Dibromo-3-chloropropane	%	102			75-125	Pass	
1.2-Dichloroethane	%	94			70-130	Pass	
Benzene	%	94			70-130	Pass	
Ethylbenzene	%	104			70-130	Pass	
Naphthalene	%	80			70-130	Pass	
Toluene	%	105			70-130	Pass	
Trichloroethene	%	97			70-130	Pass	
Xylenes - Total	%	103			70-130	Pass	
1.2-Dichlorobenzene	%	95			70-130	Pass	
1.2.3-Trichlorobenzene	%	81			70-130	Pass	
1.2.4-Trichlorobenzene	%	87			70-130	Pass	
1.4-Dichlorobenzene	%	96			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
VOCs in Ambient Air by GC/MS				Result 1	Result 2	RPD			
1.1-Dichloroethane	M19-No29676	NCP	Total ug	< 0.5	< 0.5	<1	30%	Pass	
1.1-Dichloroethene	M19-No29676	NCP	Total ug	< 0.5	< 0.5	<1	30%	Pass	
1.1-Dichloropropene	M19-No29676	NCP	Total ug	< 0.5	< 0.5	<1	30%	Pass	
1.1.1-Trichloroethane	M19-No29676	NCP	Total ug	< 0.5	< 0.5	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	M19-No29676	NCP	Total ug	< 0.5	< 0.5	<1	30%	Pass	
1.1.2-Trichloroethane	M19-No29676	NCP	Total ug	< 0.5	< 0.5	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	M19-No29676	NCP	Total ug	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromo-3-chloropropane	M19-No29676	NCP	Total ug	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromoethane	M19-No29676	NCP	Total ug	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloroethane	M19-No29676	NCP	Total ug	2.1	1.9	10	30%	Pass	
1.2-Dichloropropane	M19-No29676	NCP	Total ug	1.7	1.4	14	30%	Pass	
1.2.3-Trichloropropane	M19-No29676	NCP	Total ug	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trimethylbenzene	M19-No29676	NCP	Total ug	1.2	1.1	9.0	30%	Pass	
1.3-Dichloropropane	M19-No29676	NCP	Total ug	< 0.5	< 0.5	<1	30%	Pass	
1.3.5-Trimethylbenzene	M19-No29676	NCP	Total ug	< 0.5	< 0.5	<1	30%	Pass	
2-Chlorotoluene	M19-No29676	NCP	Total ug	< 0.5	< 0.5	<1	30%	Pass	
2.2-Dichloropropane	M19-No29676	NCP	Total ug	< 0.5	< 0.5	<1	30%	Pass	
4-Chlorotoluene	M19-No29676	NCP	Total ug	< 0.5	< 0.5	<1	30%	Pass	
Benzene	M19-No29676	NCP	Total ug	0.9	0.8	13	30%	Pass	
Bromochloromethane	M19-No29676	NCP	Total ug	< 0.5	< 0.5	<1	30%	Pass	
Bromodichloromethane	M19-No29676	NCP	Total ug	< 0.5	< 0.5	<1	30%	Pass	
Bromoform	M19-No29676	NCP	Total ug	< 0.5	< 0.5	<1	30%	Pass	
Carbon Tetrachloride	M19-No29676	NCP	Total ug	< 0.5	< 0.5	<1	30%	Pass	
Chlorobenzene	M19-No29676	NCP	Total ug	< 0.5	< 0.5	<1	30%	Pass	
Chloroform	M19-No29676	NCP	Total ug	0.9	0.7	23	30%	Pass	
cis-1.2-Dichloroethene	M19-No29676	NCP	Total ug	< 0.5	< 0.5	<1	30%	Pass	
cis-1.3-Dichloropropene	M19-No29676	NCP	Total ug	< 0.5	< 0.5	<1	30%	Pass	
Dibromochloromethane	M19-No29676	NCP	Total ug	< 0.5	< 0.5	<1	30%	Pass	
Dibromomethane	M19-No29676	NCP	Total ug	< 0.5	< 0.5	<1	30%	Pass	
Ethylbenzene	M19-No29676	NCP	Total ug	1.3	1.2	9.0	30%	Pass	
Isopropyl benzene (Cumene)	M19-No29676	NCP	Total ug	< 0.5	< 0.5	<1	30%	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
VOCs in Ambient Air by GC/MS				Result 1	Result 2	RPD			
n-Butylbenzene	M19-No29676	NCP	Total ug	< 0.5	< 0.5	<1	30%	Pass	
n-Propylbenzene	M19-No29676	NCP	Total ug	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	M19-No29676	NCP	Total ug	< 0.5	< 0.5	<1	30%	Pass	
p-Isopropyltoluene	M19-No29676	NCP	Total ug	< 0.5	< 0.5	<1	30%	Pass	
sec-Butylbenzene	M19-No29676	NCP	Total ug	1.0	0.9	10	30%	Pass	
Styrene	M19-No29676	NCP	Total ug	< 5	< 5	<1	30%	Pass	
tert-Butylbenzene	M19-No29676	NCP	Total ug	< 0.5	< 0.5	<1	30%	Pass	
Tetrachloroethene	M19-No29676	NCP	Total ug	1.1	1.0	12	30%	Pass	
Toluene	M19-No29676	NCP	Total ug	0.9	0.8	13	30%	Pass	
trans-1.3-Dichloropropene	M19-No29676	NCP	Total ug	< 0.5	< 0.5	<1	30%	Pass	
Trichloroethene	M19-No29676	NCP	Total ug	0.6	0.5	10	30%	Pass	
Trichlorofluoromethane	M19-No29676	NCP	Total ug	0.6	0.5	10	30%	Pass	
Vinyl chloride	M19-No29676	NCP	Total ug	< 0.5	< 0.5	<1	30%	Pass	
Xylenes - Total	M19-No29676	NCP	Total ug	< 1.5	< 1.5	<1	30%	Pass	
1.2-Dichlorobenzene	M19-No29676	NCP	Total ug	0.7	0.6	13	30%	Pass	
1.2.3-Trichlorobenzene	M19-No29676	NCP	Total ug	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trichlorobenzene	M19-No29676	NCP	Total ug	0.8	0.8	4.0	30%	Pass	
1.3-Dichlorobenzene	M19-No29676	NCP	Total ug	0.6	< 0.5	14	30%	Pass	
1.4-Dichlorobenzene	M19-No29676	NCP	Total ug	0.7	0.6	10	30%	Pass	
Hexachlorobutadiene	M19-No29676	NCP	Total ug	< 0.5	< 0.5	<1	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	N/A
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Authorised By

Ursula Long	Analytical Services Manager
Harry Bacalis	Senior Analyst-Volatile (VIC)
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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Sample Receipt Advice

Company name:	**JBS & G Australia (NSW) P/L**
Contact name:	Chris Bielby
Project name:	MASCOT
Project ID:	58167
COC number:	Not provided
Turn around time:	1 Day
Date/Time received:	Jan 28, 2020 9:47 AM
Eurofins reference:	**698723**

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.

☑ Split sample sent to requested external lab.

☒ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Notes

QSV03A forwarded to Envirolab.

Contact notes

If you have any questions with respect to these samples please contact:

Ursula Long on Phone : or by e.mail: UrsulaLong@eurofins.com

Results will be delivered electronically via e.mail to Chris Bielby - cbielby@jbsg.com.au.

Note: A copy of these results will also be delivered to the general JBS & G Australia (NSW) P/L email address.

SOIL VAPOUR. 1/2

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: J316 7
PROJECT NAME: MASCOT
DATE NEEDED BY: 24hr
PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) Cbicot@jbsg.com.au; (3) JDAVIES@jbsg.com.au RUSRAY.

LABORATORY BATCH NO.: 698723
SAMPLERS: RG JD
QC LEVEL: NEPM (2013)

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:
pls put all on Hold. Updated CoC will be emailed

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	VOC 8260	Isopropanol	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
SV1	CARBON	22/1/20		CARBON VIAL.						
SV2										
SV3										
SV4										
SV5		24/1/20								
SV6										
SV7										
SV8										
SV9										
SV10										
SV11										
SV12										
SV13										
SV14										
SV15										
SV16										
SV17										
SV18										
SV19										
SV20										
SV21										
SV22										
SV23										
SV24										

RELINQUISHED BY:
NAME: DATE:
OF: JBS&G
NAME: DATE:
OF:

METHOD OF SHIPMENT:
CONSIGNMENT NOTE NO.
TRANSPORT CO.
CONSIGNMENT NOTE NO.
TRANSPORT CO

RECEIVED BY:
NAME: Grace
DATE: 28/1/20
OF: Envirolab
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

SOIL VAPOUR 1/2

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 58167
PROJECT NAME: 24 [illegible] MARSDEN PARK 24hr
DATE NEEDED BY:
PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) [illegible]@jbsg.com.au; (3) .....@jbsg.com.au
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.: 698723
SAMPLERS: [illegible] JS
QC LEVEL: NEPM (2013)

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	VOC 8260	ISOPROPANOL	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
SV20	CARBOSORB	24.12.20		CARBOSORB VIAL						
SV21										
QSV01						✓	✓			
QSV01A										
QSV02										
QSV02A										
QSV03										
QSV03A										
BLANK.										

Send to Envirolab for VOC 8260 Analysis 24hr TAT

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: Grace	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 28/12/20	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	OF: Envirolab	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 Forms013 – Chain of Custody - Generic

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 235527

Client Details

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

Sample Details

Your Reference	**58167, Mascot**
Number of Samples	2 Soil
Date samples received	29/01/2020
Date completed instructions received	29/01/2020

Analysis Details

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

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

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

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

Report Details

Date results requested by	30/01/2020
Date of Issue	30/01/2020

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Asbestos Approved By
Analysed by Asbestos Approved Identifier: Panika Wongchanda
Authorised by Asbestos Approved Signatory: Lucy Zhu

Results Approved By
Jaimie Loa-Kum-Cheung, Metals Supervisor
Josh Williams, Senior Chemist
Lucy Zhu, Asbestos Supervisor

Authorised By



Nancy Zhang, Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil		
Our Reference		235527-1
Your Reference	UNITS	QC03
Date Sampled		24/01/2020
Type of sample		Soil
Date extracted	-	29/01/2020
Date analysed	-	30/01/2020
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	%	108

svTRH (C10-C40) in Soil		
Our Reference		235527-1
Your Reference	UNITS	QC03
Date Sampled		24/01/2020
Type of sample		Soil
Date extracted	-	29/01/2020
Date analysed	-	30/01/2020
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	%	72

PAHs in Soil		
Our Reference		235527-1
Your Reference	UNITS	QC03
Date Sampled		24/01/2020
Type of sample		Soil
Date extracted	-	29/01/2020
Date analysed	-	29/01/2020
Naphthalene	mg/kg	<0.1
Acenaphthylene	mg/kg	<0.1
Acenaphthene	mg/kg	<0.1
Fluorene	mg/kg	<0.1
Phenanthrene	mg/kg	0.1
Anthracene	mg/kg	<0.1
Fluoranthene	mg/kg	<0.1
Pyrene	mg/kg	0.1
Benzo(a)anthracene	mg/kg	<0.1
Chrysene	mg/kg	0.2
Benzo(b,j+k)fluoranthene	mg/kg	<0.2
Benzo(a)pyrene	mg/kg	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1
Total +ve PAH's	mg/kg	0.4
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5
Surrogate p-Terphenyl-d14	%	93

Organochlorine Pesticides in soil		
Our Reference		235527-1
Your Reference	UNITS	QC03
Date Sampled		24/01/2020
Type of sample		Soil
Date extracted	-	29/01/2020
Date analysed	-	29/01/2020
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	%	98

PCBs in Soil		
Our Reference		235527-1
Your Reference	UNITS	QC03
Date Sampled		24/01/2020
Type of sample		Soil
Date extracted	-	29/01/2020
Date analysed	-	29/01/2020
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	%	98

Acid Extractable metals in soil		
Our Reference		235527-1
Your Reference	UNITS	QC03
Date Sampled		24/01/2020
Type of sample		Soil
Date prepared	-	30/01/2020
Date analysed	-	30/01/2020
Arsenic	mg/kg	7
Cadmium	mg/kg	<0.4
Chromium	mg/kg	10
Copper	mg/kg	23
Lead	mg/kg	30
Mercury	mg/kg	0.1
Nickel	mg/kg	11
Zinc	mg/kg	84

Moisture		
Our Reference		235527-1
Your Reference	UNITS	QC03
Date Sampled		24/01/2020
Type of sample		Soil
Date prepared	-	29/01/2020
Date analysed	-	30/01/2020
Moisture	%	12

Asbestos ID - soils NEPM - ASB-001		
Our Reference		235527-2
Your Reference	UNITS	QC01
Date Sampled		24/01/2020
Type of sample		Soil
Date analysed	-	30/01/2020
Sample mass tested	g	639.3
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) **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-003	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-003	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (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-006	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.

Method ID	Methodology Summary
Org-006	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-012/017	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS and/or GC-MS/MS.
Org-012/017	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-MS and/or GC-MS/MS. 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-012/017	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-014	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-016	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-016	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. 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-19	[NT]
Date extracted	-			29/01/2020	[NT]	[NT]	[NT]	[NT]	29/01/2020	[NT]
Date analysed	-			30/01/2020	[NT]	[NT]	[NT]	[NT]	30/01/2020	[NT]
TRH C_6 - C_9	mg/kg	25	Org-016	<25	[NT]	[NT]	[NT]	[NT]	116	[NT]
TRH C_6 - C_{10}	mg/kg	25	Org-016	<25	[NT]	[NT]	[NT]	[NT]	116	[NT]
Benzene	mg/kg	0.2	Org-016	<0.2	[NT]	[NT]	[NT]	[NT]	121	[NT]
Toluene	mg/kg	0.5	Org-016	<0.5	[NT]	[NT]	[NT]	[NT]	121	[NT]
Ethylbenzene	mg/kg	1	Org-016	<1	[NT]	[NT]	[NT]	[NT]	110	[NT]
m+p-xylene	mg/kg	2	Org-016	<2	[NT]	[NT]	[NT]	[NT]	113	[NT]
o-Xylene	mg/kg	1	Org-016	<1	[NT]	[NT]	[NT]	[NT]	111	[NT]
naphthalene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-016	121	[NT]	[NT]	[NT]	[NT]	118	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-19	[NT]
Date extracted	-			29/01/2020	[NT]	[NT]	[NT]	[NT]	29/01/2020	[NT]
Date analysed	-			30/01/2020	[NT]	[NT]	[NT]	[NT]	30/01/2020	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-003	<50	[NT]	[NT]	[NT]	[NT]	100	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-003	<100	[NT]	[NT]	[NT]	[NT]	102	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-003	<100	[NT]	[NT]	[NT]	[NT]	138	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-003	<50	[NT]	[NT]	[NT]	[NT]	100	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-003	<100	[NT]	[NT]	[NT]	[NT]	102	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-003	<100	[NT]	[NT]	[NT]	[NT]	138	[NT]
Surrogate o-Terphenyl	%		Org-003	72	[NT]	[NT]	[NT]	[NT]	87	[NT]

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-19	[NT]
Date extracted	-			29/01/2020	[NT]	[NT]	[NT]	[NT]	29/01/2020	[NT]
Date analysed	-			29/01/2020	[NT]	[NT]	[NT]	[NT]	29/01/2020	[NT]
Naphthalene	mg/kg	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	102	[NT]
Acenaphthylene	mg/kg	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	104	[NT]
Phenanthrene	mg/kg	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	104	[NT]
Anthracene	mg/kg	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	106	[NT]
Pyrene	mg/kg	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	116	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	118	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-012/017	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-012/017	<0.05	[NT]	[NT]	[NT]	[NT]	104	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-012/017	97	[NT]	[NT]	[NT]	[NT]	96	[NT]

QUALITY CONTROL: Organochlorine Pesticides in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-19	[NT]
Date extracted	-			29/01/2020	[NT]	[NT]	[NT]	[NT]	29/01/2020	[NT]
Date analysed	-			29/01/2020	[NT]	[NT]	[NT]	[NT]	29/01/2020	[NT]
alpha-BHC	mg/kg	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	104	[NT]
HCB	mg/kg	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	106	[NT]
gamma-BHC	mg/kg	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	102	[NT]
delta-BHC	mg/kg	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	106	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	102	[NT]
gamma-Chlordane	mg/kg	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	104	[NT]
Dieldrin	mg/kg	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	118	[NT]
Endrin	mg/kg	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	102	[NT]
Endosulfan II	mg/kg	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	94	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	82	[NT]
Methoxychlor	mg/kg	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate TCMX	%		Org-012/017	97	[NT]	[NT]	[NT]	[NT]	96	[NT]

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-19	[NT]
Date extracted	-			29/01/2020	[NT]	[NT]	[NT]	[NT]	29/01/2020	[NT]
Date analysed	-			29/01/2020	[NT]	[NT]	[NT]	[NT]	29/01/2020	[NT]
Aroclor 1016	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NT]	[NT]	102	[NT]
Aroclor 1260	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate TCMX	%		Org-006	97	[NT]	[NT]	[NT]	[NT]	96	[NT]

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-19	[NT]
Date prepared	-			30/01/2020	[NT]	[NT]	[NT]	[NT]	30/01/2020	[NT]
Date analysed	-			30/01/2020	[NT]	[NT]	[NT]	[NT]	30/01/2020	[NT]
Arsenic	mg/kg	4	Metals-020	<4	[NT]	[NT]	[NT]	[NT]	105	[NT]
Cadmium	mg/kg	0.4	Metals-020	<0.4	[NT]	[NT]	[NT]	[NT]	104	[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]	106	[NT]
Lead	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	102	[NT]
Mercury	mg/kg	0.1	Metals-021	<0.1	[NT]	[NT]	[NT]	[NT]	95	[NT]
Nickel	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	101	[NT]
Zinc	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	107	[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.

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.

08992 ENVIROLAB

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 58167
PROJECT NAME: MASCOT
DATE NEEDED BY: 24 hr

LABORATORY BATCH NO.:
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) .....@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	PAHs	TPH/BTEX	OCP/PCBs	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
1	QC03	SOIL	24/1/20		BAG								
2	QC01	↓	↓		JAR		✓	✓	✓	✓			

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

Job No: 235527
Date Received: 29-01-2020
Time Received: 12:53
Received by: TC
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: C.BEERY DATE: 24/1/20	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE:	COOLER TEMP 1.3 deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: Trinidad DATE: 29.01	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF: ELS Canada	COOLER TEMP 17.2 deg C

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

Appendix M Quality Assurance/Quality Control

Soil RPDs (2021 sampling)

Project Number: 61301

Project Name: Gardeners Rd DSI

Field Duplicates (soil)

Filter: SDG in('815820')

SDG	815820	815820		815820	815820	
Field ID	BH02 0.9-1	QC 2021005-01	RPD	BH06 0.2-0.3	QC 2021005-02	RPD
Sampled Date/Time	5/08/2021	5/08/2021		5/08/2021	5/08/2021	
Chem_Grou	ChemName	Units	EQL						
Metals & M	Arsenic	mg/kg	2 : 4 (Interlab)	**15**	**9.6**	**44**	4	6.1	**42**
	Cadmium	mg/kg	0.4	<0.4	<0.4	0	<0.4	<0.4	0
	Chromium (	mg/kg	5 : 1 (Interlab)	**17**	**12**	**34**	6.3	10	**45**
	Copper	mg/kg	5 : 1 (Interlab)	17	14	19	8.9	20	**77**
	Lead	mg/kg	5 : 1 (Interlab)	**33**	**24**	**32**	11	19	**53**
	Mercury	mg/kg	0.1	<0.1	<0.1	0	<0.1	<0.1	0
	Nickel	mg/kg	5 : 1 (Interlab)	6.8	6.3	8	**5**	**8.6**	**53**
	Zinc	mg/kg	5 : 1 (Interlab)	64	56	13	**20**	**46**	**79**
etalloids									
TPHs (NEPC	C6-C9 Fracti	mg/kg	20 : 25 (Interlab)	<20	<20	0	<20	<20	0
	C10-C14 Fra	mg/kg	20 : 50 (Interlab)	<20	<20	0	<20	<20	0
	C15-C28 Fra	mg/kg	50 : 100 (Interlab)	<50	<50	0	<50	<50	0
	C29-C36 Fra	mg/kg	50 : 100 (Interlab)	<50	<50	0	<50	<50	0
	C10-C36 Fra	mg/kg	50	<50	<50	0	<50	<50	0
1999)									
TRHs (NEPC	C6-C10	mg/kg	20 : 25 (Interlab)	<20	<20	0	<20	<20	0
	C10-C16	mg/kg	50	<50	<50	0	<50	<50	0
	C16-C34	mg/kg	100	<100	<100	0	<100	<100	0
	C34-C40	mg/kg	100	<100	<100	0	<100	<100	0
	C10-C40 (Su	mg/kg	100 : 50 (Interlab)	<100	<100	0	<100	<100	0
	F1 (C6-C10 r	mg/kg	20 : 25 (Interlab)	<20	<20	0	<20	<20	0
	F2 (C10-C16	mg/kg	50	<50	<50	0	<50	<50	0
2013)									
BTEXN	Benzene	mg/kg	0.1 : 0.2 (Interlab)	<0.1	<0.1	0	<0.1	<0.1	0
	Toluene	mg/kg	0.1 : 0.5 (Interlab)	<0.1	<0.1	0	<0.1	<0.1	0
	Ethylbenzen	mg/kg	0.1 : 1 (Interlab)	<0.1	<0.1	0	<0.1	<0.1	0
	Xylene (o)	mg/kg	0.1 : 1 (Interlab)	<0.1	<0.1	0	<0.1	<0.1	0
	Xylene (m &	mg/kg	0.2 : 2 (Interlab)	<0.2	<0.2	0	<0.2	<0.2	0
	Xylene Tota	mg/kg	0.3 : 3 (Interlab)	<0.3	<0.3	0	<0.3	<0.3	0
	Naphthalen	mg/kg	0.5	<0.5	<0.5	0	<0.5	<0.5	0
PAH	Acenaphthe	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0
	Acenaphthy	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0
	Anthracene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0
	Benz(a)anth	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0
	Benzo(a)pyr	mg/kg	0.5 : 0.05 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0
	Benzo(a)pyr	mg/kg	0.5	1.2	1.2	0	1.2	1.2	0
	Benzo(a)pyr	mg/kg	0.5	0.6	0.6	0	0.6	0.6	0
	Benzo(a)pyr	mg/kg	0.5	<0.5	<0.5	0	<0.5	<0.5	0
	Benzo(b+j)fl	mg/kg	0.5	<0.5	<0.5	0	<0.5	<0.5	0
	Benzo(g,h,i)	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0
	Benzo(k)fluo	mg/kg	0.5	<0.5	<0.5	0	<0.5	<0.5	0
	Chrysene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0
	Dibenz(a,h)a	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0
	Fluoranthen	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0
	Fluorene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0
	Indeno(1,2,3	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0
	Naphthalen	mg/kg	0.5	<0.5	<0.5	0	<0.5	<0.5	0
	Phenanthre	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0
	Pyrene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0
	PAHs (Sum o	mg/kg	0.5 : 0.05 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0
Organochlo	4,4-DDE	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0	<0.05	<0.05	0
	a-BHC	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0	<0.05	<0.05	0
	b-BHC	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0	<0.05	<0.05	0
	d-BHC	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0	<0.05	<0.05	0
	g-BHC (Linda	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0	<0.05	<0.05	0
	Aldrin	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0	<0.05	<0.05	0
	Dieldrin	mg/kg	0.05 : 0.1 (Interlab)	**<0.05**	**0.15**	**100**	<0.05	<0.05	0
	Aldrin + Die	mg/kg	0.05	**<0.05**	**0.15**	**100**	<0.05	<0.05	0
	Chlordane	mg/kg	0.1	<0.1	<0.1	0	<0.1	<0.1	0
	DDT	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0	<0.05	<0.05	0
	DDD	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0	<0.05	<0.05	0
	DDT+DDE+D	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0	<0.05	<0.05	0
	Endosulfan I	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0	<0.05	<0.05	0
	Endosulfan I	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0	<0.05	<0.05	0
	Endosulfan s	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0	<0.05	<0.05	0
	Endrin	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0	<0.05	<0.05	0
	Endrin aldeh	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0	<0.05	<0.05	0
	Endrin keto	mg/kg	0.05	<0.05	<0.05	0	<0.05	<0.05	0
	Heptachlor	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0	<0.05	<0.05	0
	Heptachlor I	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0	<0.05	<0.05	0
	Methoxychl	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0	<0.05	<0.05	0
	Toxaphene	mg/kg	0.1	<0.1	<0.1	0	<0.1	<0.1	0
rine Pesticides									

Soil RPDs (2021 sampling)

Project Number: 61301

Project Name: Gardeners Rd DSI

Field Duplicates (soil)

Filter: SDG in('815820')

	SDG			815820	815820		815820	815820		
	Field ID			BH02 0.9-1	QC 2021005-01	**RPD**	BH06 0.2-0.3	QC 2021005-02	**RPD**	
	Sampled Date/Time			5/08/2021	5/08/2021		5/08/2021	5/08/2021		
Organophos	Azinophos n	mg/kg	0.2	<0.2	<0.2	0	<0.2	<0.2	0	
	Bolstar (Sulp	mg/kg	0.2	<0.2	<0.2	0	<0.2	<0.2	0	
	Chlorfenvinp	mg/kg	0.2	<0.2	<0.2	0	<0.2	<0.2	0	
	Chlorpyrifos	mg/kg	0.2	<0.2	<0.2	0	<0.2	<0.2	0	
	Chlorpyrifos	mg/kg	0.2	<0.2	<0.2	0	<0.2	<0.2	0	
	Coumaphos	mg/kg	2	<2	<2	0	<2	<2	0	
	Demeton-O	mg/kg	0.2	<0.2	<0.2	0	<0.2	<0.2	0	
	Demeton-S	mg/kg	0.2	<0.2	<0.2	0	<0.2	<0.2	0	
	Diazinon	mg/kg	0.2	<0.2	<0.2	0	<0.2	<0.2	0	
	Dichlorvos	mg/kg	0.2	<0.2	<0.2	0	<0.2	<0.2	0	
	Dimethoate	mg/kg	0.2	<0.2	<0.2	0	<0.2	<0.2	0	
	Disulfoton	mg/kg	0.2	<0.2	<0.2	0	<0.2	<0.2	0	
	EPN	mg/kg	0.2	<0.2	<0.2	0	<0.2	<0.2	0	
	Ethion	mg/kg	0.2	<0.2	<0.2	0	<0.2	<0.2	0	
	Ethoprop	mg/kg	0.2	<0.2	<0.2	0	<0.2	<0.2	0	
	Fenitrothion	mg/kg	0.2	<0.2	<0.2	0	<0.2	<0.2	0	
	Fensulfothio	mg/kg	0.2	<0.2	<0.2	0	<0.2	<0.2	0	
	Fenthion	mg/kg	0.2	<0.2	<0.2	0	<0.2	<0.2	0	
	Malathion	mg/kg	0.2	<0.2	<0.2	0	<0.2	<0.2	0	
	Merphos	mg/kg	0.2	<0.2	<0.2	0	<0.2	<0.2	0	
	Methyl para	mg/kg	0.2	<0.2	<0.2	0	<0.2	<0.2	0	
	Mevinphos (	mg/kg	0.2	<0.2	<0.2	0	<0.2	<0.2	0	
	Monocrotop	mg/kg	2	<2	<2	0	<2	<2	0	
	Naled (Dibro	mg/kg	0.2	<0.2	<0.2	0	<0.2	<0.2	0	
	Omethoate	mg/kg	2	<2	<2	0	<2	<2	0	
	Phorate	mg/kg	0.2	<0.2	<0.2	0	<0.2	<0.2	0	
	Pirimiphos-m	mg/kg	0.2	<0.2	<0.2	0	<0.2	<0.2	0	
	Pyrazophos	mg/kg	0.2	<0.2	<0.2	0	<0.2	<0.2	0	
	Ronnel	mg/kg	0.2	<0.2	<0.2	0	<0.2	<0.2	0	
	Terbufos	mg/kg	0.2	<0.2	<0.2	0	<0.2	<0.2	0	
	Tetrachlorvi	mg/kg	0.2	<0.2	<0.2	0	<0.2	<0.2	0	
	Tokuthion	mg/kg	0.2	<0.2	<0.2	0	<0.2	<0.2	0	
	Trichloronat	mg/kg	0.2	<0.2	<0.2	0	<0.2	<0.2	0	
	Parathion	mg/kg	0.2	<0.2	<0.2	0	<0.2	<0.2	0	
phorus Pesticides										
Chlorinated	Hexachlorob	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0	<0.05	<0.05	0	
Benzenes										
Asbestos - E	Approximat	g		645	666	3				
	Mass ACM	g		0.0E0	0.0E0	0				
	Mass Asbest	g		0.0E0	0.0E0	0				
	Asbestos fro	% (w/w)		0.0E0	0.0E0	0				
	Mass FA	g		0.0E0	0.0E0	0				
	Mass Asbest	g		0.0E0	0.0E0	0				
	Mass AF	g		0.0E0	0.0E0	0				
	Mass asbest	g		0.0E0	0.0E0	0				
	Asbestos fro	% (w/w)		0.0E0	0.0E0	0				
	Mass Asbest	g		0.0E0	0.0E0	0				
	ACM - Comr	Comment		1	1	0				
	FA- Commer	Comment		1	1	0				
	AF - Comme	Comment		1	1	0				
	Organic Fibr	Comment		1	1	0				
	Respirable F	Comment		1	1	0				
	Synthetic Fi	Comment		1	1	0				
	Asbestos Re	Comment		1	1	0				
urofins										
Other	Moisture Co	%	1	**8.6**	**6.2**	**32**	6.8	7.7	12	

*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 th

Soil RPDs (2021 sampling)

Project Number: 61301

Project Name: Gardeners Rd DSI

Field Duplicates (soil)

Filter: SDG in('815820')

SDG	815820	ENVIROLAB		815820	ENVIROLAB	
Field ID	BH02 0.9-1	QA20210805-01	RPD	BH06 0.2-0.3	QA20210805-02	RPD
Sampled Date/Time	5/08/2021	5/08/2021		5/08/2021	5/08/2021	

Chem_Grou	ChemName	Units	EQL						
Metals & M	Arsenic	mg/kg	2 : 4 (Interlab)	**15**	**8**	**61**	4	6	**40**
	Cadmium	mg/kg	0.4	<0.4	<0.4	0	<0.4	<0.4	0
	Chromium (	mg/kg	5 : 1 (Interlab)	**17**	**12**	**34**	6.3	10	**45**
	Copper	mg/kg	5 : 1 (Interlab)	17	16	6	8.9	**33**	**115**
	Lead	mg/kg	5 : 1 (Interlab)	**33**	**20**	**49**	11	17	**43**
	Mercury	mg/kg	0.1	<0.1	<0.1	0	<0.1	<0.1	0
	Nickel	mg/kg	5 : 1 (Interlab)	6.8	8	16	**5**	**8**	**46**
	Zinc	mg/kg	5 : 1 (Interlab)	64	59	8	**20**	**47**	**81**
etalloids									
TPHs (NEPC	C6-C9 Fracti	mg/kg	20 : 25 (Interlab)	<20	<25	0	<20	<25	0
	C10-C14 Fra	mg/kg	20 : 50 (Interlab)	<20	<50	0	<20	<50	0
	C15-C28 Fra	mg/kg	50 : 100 (Interlab)	<50	<100	0	<50	<100	0
	C29-C36 Fra	mg/kg	50 : 100 (Interlab)	<50	<100	0	<50	<100	0
	C10-C36 Fra	mg/kg	50	<50	<50	0	<50	<50	0
1999)									
TRHs (NEPC	C6-C10	mg/kg	20 : 25 (Interlab)	<20	<25	0	<20	<25	0
	C10-C16	mg/kg	50	<50	<50	0	<50	<50	0
	C16-C34	mg/kg	100	<100	<100	0	<100	<100	0
	C34-C40	mg/kg	100	<100	<100	0	<100	<100	0
	C10-C40 (Su	mg/kg	100 : 50 (Interlab)	<100	<50	0	<100	<50	0
	F1 (C6-C10 r	mg/kg	20 : 25 (Interlab)	<20	<25	0	<20	<25	0
	F2 (C10-C16	mg/kg	50	<50	<50	0	<50	<50	0
2013)									
BTEXN	Benzene	mg/kg	0.1 : 0.2 (Interlab)	<0.1	<0.2	0	<0.1	<0.2	0
	Toluene	mg/kg	0.1 : 0.5 (Interlab)	<0.1	<0.5	0	<0.1	<0.5	0
	Ethylbenzen	mg/kg	0.1 : 1 (Interlab)	<0.1	<1	0	<0.1	<1	0
	Xylene (o)	mg/kg	0.1 : 1 (Interlab)	<0.1	<1	0	<0.1	<1	0
	Xylene (m &	mg/kg	0.2 : 2 (Interlab)	<0.2	<2	0	<0.2	<2	0
	Xylene Tota	mg/kg	0.3 : 3 (Interlab)	<0.3	<3	0	<0.3	<3	0
	Naphthalen	mg/kg	0.5	<0.5			<0.5		
PAH	Acenaphthe	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.1	0	<0.5	<0.1	0
	Acenaphthy	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.1	0	<0.5	<0.1	0
	Anthracene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.1	0	<0.5	<0.1	0
	Benz(a)anth	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.1	0	<0.5	<0.1	0
	Benzo(a)pyr	mg/kg	0.5 : 0.05 (Interlab)	<0.5	<0.05	0	<0.5	<0.05	0
	Benzo(a)pyr	mg/kg	0.5	**1.2**	**<0.5**	**82**	**1.2**	**<0.5**	**82**
	Benzo(a)pyr	mg/kg	0.5	0.6	<0.5	18	0.6	<0.5	18
	Benzo(a)pyr	mg/kg	0.5	<0.5	<0.5	0	<0.5	<0.5	0
	Benzo(b+j)fl	mg/kg	0.5	<0.5			<0.5		
	Benzo(g,h,i)	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.1	0	<0.5	<0.1	0
	Benzo(k)fluo	mg/kg	0.5	<0.5			<0.5		
	Chrysene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.1	0	<0.5	<0.1	0
	Dibenz(a,h)a	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.1	0	<0.5	<0.1	0
	Fluoranthen	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.1	0	<0.5	<0.1	0
	Fluorene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.1	0	<0.5	<0.1	0
	Indeno(1,2,3	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.1	0	<0.5	<0.1	0
	Naphthalen	mg/kg	0.5	<0.5			<0.5		
	Phenanthre	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.1	0	<0.5	0.1	0
	Pyrene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.1	0	<0.5	<0.1	0
	PAHs (Sum o	mg/kg	0.5 : 0.05 (Interlab)	<0.5	<0.05	0	<0.5	0.1	0
Organochlo	4,4-DDE	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.1	0	<0.05	<0.1	0
	a-BHC	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.1	0	<0.05	<0.1	0
	b-BHC	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.1	0	<0.05	<0.1	0
	d-BHC	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.1	0	<0.05	<0.1	0
	g-BHC (Linda	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.1	0	<0.05	<0.1	0
	Aldrin	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.1	0	<0.05	<0.1	0
	Dieldrin	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.1	0	<0.05	<0.1	0
	Aldrin + Die	mg/kg	0.05	<0.05			<0.05		
	Chlordane	mg/kg	0.1	<0.1			<0.1		
	DDT	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.1	0	<0.05	<0.1	0
	DDD	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.1	0	<0.05	<0.1	0
	DDT+DDE+D	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.1	0	<0.05	<0.1	0
	Endosulfan I	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.1	0	<0.05	<0.1	0
	Endosulfan I	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.1	0	<0.05	<0.1	0
	Endosulfan s	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.1	0	<0.05	<0.1	0
	Endrin	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.1	0	<0.05	<0.1	0
	Endrin aldeh	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.1	0	<0.05	<0.1	0
	Endrin keto	mg/kg	0.05	<0.05			<0.05		
	Heptachlor	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.1	0	<0.05	<0.1	0
	Heptachlor I	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.1	0	<0.05	<0.1	0
	Methoxychl	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.1	0	<0.05	<0.1	0
	Toxaphene	mg/kg	0.1	<0.1			<0.1		
ine Pesticides									

Soil RPDs (2021 sampling)

Project Number: 61301

Project Name: Gardeners Rd DSI

Field Duplicates (soil)

Filter: SDG in('815820')

	SDG		815820	ENVIROLAB			815820	ENVIROLAB		
	Field ID		BH02 0.9-1	QA20210805-01	**RPD**		BH06 0.2-0.3	QA20210805-02	**RPD**	
	Sampled Date/Time		5/08/2021	5/08/2021			5/08/2021	5/08/2021		
Organophos	Azinophos n	mg/kg	0.2	<0.2			<0.2			
	Bolstar (Sulp	mg/kg	0.2	<0.2			<0.2			
	Chlorfenvin	mg/kg	0.2	<0.2			<0.2			
	Chlorpyrifos	mg/kg	0.2	<0.2			<0.2			
	Chlorpyrifos	mg/kg	0.2	<0.2			<0.2			
	Coumaphos	mg/kg	2	<2			<2			
	Demeton-O	mg/kg	0.2	<0.2			<0.2			
	Demeton-S	mg/kg	0.2	<0.2			<0.2			
	Diazinon	mg/kg	0.2	<0.2			<0.2			
	Dichlorvos	mg/kg	0.2	<0.2			<0.2			
	Dimethoate	mg/kg	0.2	<0.2			<0.2			
	Disulfoton	mg/kg	0.2	<0.2			<0.2			
	EPN	mg/kg	0.2	<0.2			<0.2			
	Ethion	mg/kg	0.2	<0.2			<0.2			
	Ethoprop	mg/kg	0.2	<0.2			<0.2			
	Fenitrothion	mg/kg	0.2	<0.2			<0.2			
	Fensulfothio	mg/kg	0.2	<0.2			<0.2			
	Fenthion	mg/kg	0.2	<0.2			<0.2			
	Malathion	mg/kg	0.2	<0.2			<0.2			
	Merphos	mg/kg	0.2	<0.2			<0.2			
	Methyl para	mg/kg	0.2	<0.2			<0.2			
	Mevinphos (	mg/kg	0.2	<0.2			<0.2			
	Monocrotop	mg/kg	2	<2			<2			
	Naled (Dibro	mg/kg	0.2	<0.2			<0.2			
	Omethoate	mg/kg	2	<2			<2			
	Phorate	mg/kg	0.2	<0.2			<0.2			
	Pirimiphos-r	mg/kg	0.2	<0.2			<0.2			
	Pyrazophos	mg/kg	0.2	<0.2			<0.2			
	Ronnel	mg/kg	0.2	<0.2			<0.2			
	Terbufos	mg/kg	0.2	<0.2			<0.2			
	Tetrachlorvi	mg/kg	0.2	<0.2			<0.2			
	Tokuthion	mg/kg	0.2	<0.2			<0.2			
	Trichloronat	mg/kg	0.2	<0.2			<0.2			
	Parathion	mg/kg	0.2	<0.2			<0.2			
phorus Pesticides										
Chlorinated	Hexachlorob	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.1	0	<0.05	<0.1	0	
Benzenes										
Asbestos - E	Approximat	g		645						
	Mass ACM	g		0.0E0						
	Mass Asbest	g		0.0E0						
	Asbestos fro	% (w/w)		0.0E0						
	Mass FA	g		0.0E0						
	Mass Asbest	g		0.0E0						
	Mass AF	g		0.0E0						
	Mass asbest	g		0.0E0						
	Asbestos fro	% (w/w)		0.0E0						
	Mass Asbest	g		0.0E0						
	ACM - Comr	Comment		1						
	FA- Commer	Comment		1						
	AF - Comme	Comment		1						
	Organic Fibr	Comment		1						
	Respirable F	Comment		1						
	Synthetic Fi	Comment		1						
	Asbestos Re	Comment		1						
urofins										
Other	Moisture Co	%	1	8.6			6.8			

*RPDs have only been considered where a concentration is great

**High RPDs are in bold (Acceptable RPDs for each EQL multiplier

***Interlab Duplicates are matched on a per compound basis as nose used in the primary laboratory

Contents

Lab Duplicates with high RPDs

SDG	Lab_Report	Matrix_Ty	Lab_Duplicate	Field_ID	Depth	Sampled_Da	Method_Name	Compound	Parent_Result	Dupe_Result	Result_Unit	EQL	RPD
815820	815820	soil	S21-Au16471-DUP	BH12 3-4	3.000 - 4.000	6/08/2021	LTM-GEN-7050	Magnesium - Peroxide	0.02	0.03	% MG	0.02 % Mg	39
815820	815820	soil	S21-Au16474-DUP	BH13 0.9-1	0.900 - 1.000	6/08/2021	LTM-ORG-2220 OC	Dieldrin	<0.05	0.15	MG/KG	0.05 mg/kg	100

Contents

Surrogate Variation > 30% or outside lab LCL or UCL

SDG	Lab_Report_N	Sample_Typ	Matrix_Ty	SampleCode	Field_ID	Depth	Sampled_Dat	Compound	Recovery %	Unit	LCL	UCL	Lab_Qualifier	Lab_Comments
815820	815820	Normal	soil	S21-Au16454	BH02 0.9-1	0.900 - 1.000	5/08/2021	Triphenylphosphate (surr.)	136	%	70	130	OPPs	
815820	815820	Normal	soil	S21-Au16454	BH02 0.9-1	0.900 - 1.000	5/08/2021	Dibutylchlorendate (surr.)	-999	%	70	130	OCP/PCB	INT
815820	815820	Normal	soil	S21-Au16456	BH03 0.4-0.5	0.400 - 0.500	5/08/2021	Dibutylchlorendate (surr.)	150	%	70	130	OCP/PCB	
815820	815820	Normal	soil	S21-Au16458	BH04 0.2-0.3	0.200 - 0.300	5/08/2021	Dibutylchlorendate (surr.)	146	%	70	130	OCP/PCB	
815820	815820	Normal	soil	S21-Au16460	BH05 0.9-1	0.900 - 1.000	5/08/2021	Dibutylchlorendate (surr.)	144	%	70	130	OCP/PCB	
815820	815820	Normal	soil	S21-Au16460	BH05 0.9-1	0.900 - 1.000	5/08/2021	4-Bromofluorobenzene (surr.)	60	%	50	150	BTEX	
815820	815820	Normal	soil	S21-Au16462	BH06 0.2-0.3	0.200 - 0.300	5/08/2021	Dibutylchlorendate (surr.)	149	%	70	130	OCP/PCB	
815820	815820	Normal	soil	S21-Au16464	BH07 0.4-0.5	0.400 - 0.500	5/08/2021	Triphenylphosphate (surr.)	131	%	70	130	OPP	
815820	815820	Normal	soil	S21-Au16464	BH07 0.4-0.5	0.400 - 0.500	5/08/2021	Dibutylchlorendate (surr.)	-999	%	70	130	OCP/PCB	INT
815820	815820	Normal	soil	S21-Au16468	BH09 0.4-0.5	0.400 - 0.500	5/08/2021	4-Bromofluorobenzene (surr.)	60	%	50	150	BTEX	
815820	815820	Normal	soil	S21-Au16479	BH16 0.9-1	0.900 - 1.000	6/08/2021	Triphenylphosphate (surr.)	-999	%	70	130	OPP	INT
815820	815820	Normal	soil	S21-Au16479	BH16 0.9-1	0.900 - 1.000	6/08/2021	p-Terphenyl-d14 (surr.)	144	%	30	130	PAH	
815820	815820	Normal	soil	S21-Au16479	BH16 0.9-1	0.900 - 1.000	6/08/2021	Tetrachloro-m-xylene (surr.)	138	%	70	130	OCP/PCB	
815820	815820	Normal	soil	S21-Au16481	BH17 0.2-0.3	0.200 - 0.300	6/08/2021	Dibutylchlorendate (surr.)	66	%	70	130	OCP/PCB	
815820	815820	Normal	soil	S21-Au16484	BH18 0.4-0.5	0.400 - 0.500	6/08/2021	Dibutylchlorendate (surr.)	52	%	70	130	OCP/PCB	
815820	815820	Normal	soil	S21-Au16487	BH19 0.4-0.5	0.400 - 0.500	6/08/2021	Dibutylchlorendate (surr.)	61	%	70	130	OCP/PCB	
815820	815820	Normal	soil	S21-Au16491	BH20 0.4-0.5	0.400 - 0.500	6/08/2021	Dibutylchlorendate (surr.)	67	%	70	130	OCP/PCB	
815820	815820	Normal	soil	S21-Au16493	BH15 0.4-0.5	0.400 - 0.500	6/08/2021	Triphenylphosphate (surr.)	52	%	70	130	OPP	
815820	815820	Normal	soil	S21-Au16493	BH15 0.4-0.5	0.400 - 0.500	6/08/2021	Dibutylchlorendate (surr.)	-999	%	70	130	OCP/PCB	INT
815820	815820	Normal	soil	S21-Au16499	BH21 1-2	1.000 - 2.000	6/08/2021	Dibutylchlorendate (surr.)	53	%	70	130	OCP/PCB	
815820	815820	Normal	soil	S21-Au16504	BH11.9-1.0	0.900 - 1.000	6/08/2021	2-Fluorobiphenyl (surr.)	140	%	30	130	PAH	
815820	815820	Normal	soil	S21-Au16504	BH11.9-1.0	0.900 - 1.000	6/08/2021	Tetrachloro-m-xylene (surr.)	140	%	70	130	OCP/PCB	

QAQC Summary Soil January 2020
Project Number: S8167
Project Name: Mascot DD

			Num Results	Holding Times (days)				Lab Control Samples			Method and Storage Blanks			Laboratory Duplicates				Surrogates			Matrix,Trip and Compound Spikes			Field,Rinsate and Trip Blanks			Field Duplicates		
Chem_Group	ChemName	Range	Non QA (Normal + Composite)	Volatility Group	Sample to Extraction	Sample to Analysis	Acceptable	Recovery %	Num Reported	Acceptable	Range	Num Reported	Acceptable	Max RPD > EQL x 1	Num Reported	Acceptable	Recovery %	Num Reported	Acceptable	Recovery %	Num Reported	Acceptable	Range	Num Reported	Acceptable	Max RPD > EQL x 1	Num Reported	Acceptable
Asbestos	Approx. Sample Mass		13	Other	4	5	Y		0			0			0	**N**		0			0			1	Y
	Asbestos from ACM in Soil		13	Other	4	5	Y		0			0			0	**N**		0			0			1	Y
	Asbestos from FA & AF in Soil		13	Other	4	5	Y		0			0			0	**N**		0			0			1	Y
Asbestos	Asbestos Reported Result		13	Other	4	5	Y		0			0			0	**N**		0			0			1	Y
Asbestos	Mass ACM		13	Other	4	5	Y		0			0			0	**N**		0			0			1	Y
	Mass AF		13	Other	4	5	Y		0			0			0	**N**		0			0			1	Y
	Mass Asbestos in ACM		13	Other	4	5	Y		0			0			0	**N**		0			0			1	Y
	Mass Asbestos in AF		13	Other	4	5	Y		0			0			0	**N**		0			0			1	Y
	Mass Asbestos in FA		13	Other	4	5	Y		0			0			0	**N**		0			0			1	Y
	Mass Asbestos in FA & AF		13	Other	4	5	Y		0			0			0	**N**		0			0			1	Y
	Mass FA		13	Other	4	5	Y		0			0			0	**N**		0			0			1	Y
Asbestos - Trace Analysis	ACM - Comment		13	Other	4	5	Y		0			0			0	**N**		0			0			1	Y
	AF - Comment		13	Other	4	5	Y		0			0			0	**N**		0			0			1	Y
	FA - Comment		13	Other	4	5	Y		0			0			0	**N**		0			0			1	Y
	Organic Fibres - Comment		13	Other	4	5	Y		0			0			0	**N**		0			0			1	Y
	Respirable Fibres - Comment		13	Other	4	5	Y		0			0			0	**N**		0			0			1	Y
	Synthetic Fibres - Comment		13	Other	4	5	Y		0			0			0	**N**		0			0			1	Y
BTEXN	Benzene	0.1 mg/kg	13	VOC	4	5	Y	86 to 86	1	Y	ND	1	Y		1	Y		0		90 to 90	1	Y		0			1	Y
	Ethylbenzene	0.1 mg/kg	13	VOC	4	5	Y	96 to 96	1	Y	ND	1	Y		1	Y		0		85 to 85	1	Y		0			1	Y
	Naphthalene	0.5 mg/kg	27	VOC	4	5	Y	92 to 113	2	Y	ND	2	Y		1	Y		0		84 to 93	2	Y		0			2	Y
	Toluene	0.1 mg/kg	13	VOC	4	5	Y	87 to 87	1	Y	ND	1	Y		1	Y		0		82 to 82	1	Y		0			1	Y
	Xylene (m & p)	0.2 mg/kg	13	VOC	4	5	Y	88 to 88	1	Y	ND	1	Y		1	Y		0		79 to 79	1	Y		0			1	Y
	Xylene (o)	0.1 mg/kg	13	VOC	4	5	Y	91 to 91	1	Y	ND	1	Y		1	Y		0		84 to 84	1	Y		0			1	Y
	Xylene (Total)	0.3 mg/kg	13	VOC	4	5	Y	89 to 89	1	Y	ND	1	Y		1	Y		0		81 to 81	1	Y		0			1	Y
Chlorinated Benzenes	Hexachlorobenzene	0.05 mg/kg	4	SVOC	4	5	Y	117 to 117	1	Y	ND	1	Y		1	Y		0		108 to 108	1	Y		0			1	Y
EPA VIC - IWRG621	Organochlorine Pesticides EPAVic	0.1 mg/kg	4	SVOC	4	5	Y		0			0			0	**N**		0			0			0			1	Y
	Other Organochlorine Pesticides EPAVic	0.1 mg/kg	4	SVOC	4	5	Y		0			0			0	**N**		0			0			0			1	Y
Metals & Metalloids	Arsenic (Total)	2 mg/kg	14	Other	4	5	Y	92 to 92	1	Y	ND	1	Y	19	1	Y		0		119 to 119	1	Y		0		52	1	**N**
	Cadmium	0.4 mg/kg	14	Other	4	5	Y	89 to 89	1	Y	ND	1	Y		1	Y		0		107 to 107	1	Y		0			1	Y
	Chromium (Total)	5 mg/kg	14	Other	4	5	Y	93 to 93	1	Y	ND	1	Y	16	1	Y		0		111 to 111	1	Y		0		44	1	**N**
	Copper	5 mg/kg	14	Other	4	5	Y	92 to 92	1	Y	ND	1	Y	50	1	**N**		0		105 to 105	1	Y		0		111	1	**N**
	Lead	5 mg/kg	14	Other	4	5	Y	96 to 96	1	Y	ND	1	Y	87	1	**N**		0			0			0		59	1	**N**
	Mercury (Inorganic)	0.1 mg/kg	14	Other	4	5	Y	109 to 109	1	Y	ND	1	Y		1	Y		0		117 to 117	1	Y		0			1	Y
	Nickel	5 mg/kg	14	Other	4	5	Y	91 to 91	1	Y	ND	1	Y		1	Y		0		99 to 99	1	Y		0		66	1	**N**
	Zinc	5 mg/kg	14	Other	4	5	Y	93 to 93	1	Y	ND	1	Y	27	1	Y		0		109 to 109	1	Y		0		50	1	**N**
Organochlorine Pesticides	4,4-DDE	0.05 mg/kg	4	SVOC	4	5	Y	112 to 112	1	Y	ND	1	Y		1	Y		0		97 to 97	1	Y		0			1	Y
	Aldrin	0.05 mg/kg	4	SVOC	4	5	Y	115 to 115	1	Y	ND	1	Y		1	Y		0		102 to 102	1	Y		0			1	Y
	Aldrin + Dieldrin (Sum of Total)	0.05 mg/kg	4	SVOC	4	5	Y		0			0			0	**N**		0			0			0			1	Y
	alpha-BHC	0.05 mg/kg	4	SVOC	4	5	Y	106 to 106	1	Y	ND	1	Y		1	Y		0		90 to 90	1	Y		0			1	Y
	beta-BHC	0.05 mg/kg	4	SVOC	4	5	Y	119 to 119	1	Y	ND	1	Y		1	Y		0		81 to 81	1	Y		0			1	Y
	Chlordane	0.1 mg/kg	4	SVOC	4	5	Y	88 to 88	1	Y	ND	1	Y		1	Y		0		115 to 115	1	Y		0			1	Y
	DDD	0.05 mg/kg	4	SVOC	4	5	Y	81 to 81	1	Y	ND	1	Y		1	Y		0		128 to 128	1	Y		0			1	Y
	DDT	0.05 mg/kg	4	SVOC	4	5	Y	98 to 98	1	Y	ND	1	Y		1	Y		0		119 to 119	1	Y		0			1	Y
	DDT+DDE+DDD (Sum of Total)	0.05 mg/kg	4	SVOC	4	5	Y		0			0			0	**N**		0			0			0			1	Y
	delta-BHC	0.05 mg/kg	4	SVOC	4	5	Y	123 to 123	1	Y	ND	1	Y		1	Y		0		88 to 88	1	Y		0			1	Y
	Dieldrin	0.05 mg/kg	4	SVOC	4	5	Y	123 to 123	1	Y	ND	1	Y		1	Y		0		91 to 91	1	Y		0			1	Y
	Endosulfan alpha	0.05 mg/kg	4	SVOC	4	5	Y	108 to 108	1	Y	ND	1	Y		1	Y		0		87 to 87	1	Y		0			1	Y
	Endosulfan beta	0.05 mg/kg	4	SVOC	4	5	Y		0		ND	1	Y		1	Y		0		127 to 127	1	Y		0			1	Y
	Endosulfan sulphate	0.05 mg/kg	4	SVOC	4	5	Y	96 to 96	1	Y	ND	1	Y		1	Y		0		123 to 123	1	Y		0			1	Y
	Endrin	0.05 mg/kg	4	SVOC	4	5	Y		0		ND	1	Y		1	Y		0		128 to 128	1	Y		0			1	Y
	Endrin aldehyde	0.05 mg/kg	4	SVOC	4	5	Y	92 to 92	1	Y	ND	1	Y		1	Y		0			0			0			1	Y
	Endrin ketone	0.05 mg/kg	4	SVOC	4	5	Y	110 to 110	1	Y	ND	1	Y		1	Y		0		104 to 104	1	Y		0			1	Y
	Heptachlor	0.05 mg/kg	4	SVOC	4	5	Y	110 to 110	1	Y	ND	1	Y		1	Y		0		110 to 110	1	Y		0			1	Y
	Heptachlor Epoxide	0.05 mg/kg	4	SVOC	4	5	Y	86 to 86	1	Y	ND	1	Y		1	Y		0		113 to 113	1	Y		0			1	Y
	Lindane	0.05 mg/kg	4	SVOC	4	5	Y	130 to 130	1	**N**	ND	1	Y		1	Y		0		92 to 92	1	Y		0			1	Y
	Methoxychlor	0.2 mg/kg	4	SVOC	4	5	Y	95 to 95	1	Y	ND	1	Y		1	Y		0		119 to 119	1	Y		0			1	Y
	Toxaphene	1 mg/kg	4	SVOC	4	5	Y		0		ND	1	Y		0	**N**		0			0			0			1	Y
Other	% Moisture 103oC	1 %	14	Other	4	5	Y		0			0		1	2	Y		0			0			0		31	1	**N**
Polychlorinated Biphenyls	Aroclor 1016	0.5 mg/kg	4	SVOC	4	5	Y		0		ND	1	Y		1	Y		0			0			0			1	Y
	Aroclor 1221	0.1 mg/kg	4	SVOC	4	5	Y		0		ND	1	Y		1	Y		0			0			0			1	Y
	Aroclor 1232	0.5 mg/kg	4	SVOC	4	5	Y		0		ND	1	Y		1	Y		0			0			0			1	Y
	Aroclor 1242	0.5 mg/kg	4	SVOC	4	5	Y		0		ND	1	Y		1	Y		0			0			0			1	Y
	Aroclor 1248	0.5 mg/kg	4	SVOC	4	5	Y		0		ND	1	Y		1	Y		0			0			0			1	Y
	Aroclor 1254	0.5 mg/kg	4	SVOC	4	5	Y		0		ND	1	Y		1	Y		0			0			0			1	Y
	Aroclor 1260	0.5 mg/kg	4	SVOC	4	5	Y	87 to 87	1	Y	ND	1	Y		1	Y		0		91 to 91	1	Y		0			1	Y
	PCBs (Total)	0.5 mg/kg	4	SVOC	4	5	Y		0		ND	1	Y		0	**N**		0			0			0			1	Y
Polycyclic Aromatic Hydrocarbons	Acenaphthene	0.5 mg/kg	14	SVOC	4	5	Y	103 to 103	1	Y	ND	1	Y		1	Y		0		97 to 97	1	Y		0			1	Y
	Acenaphthylene	0.5 mg/kg	14	SVOC	4	5	Y	94 to 94	1	Y	ND	1	Y		1	Y		0		98 to 98	1	Y		0			1	Y
	Anthracene	0.5 mg/kg	14	SVOC	4	5	Y	91 to 91	1	Y	ND	1	Y		1	Y		0		90 to 90	1	Y		0			1	Y
	Benz(a)anthracene	0.5 mg/kg	14	SVOC	4	5	Y	84 to 84	1	Y	ND	1	Y		1	Y		0		105 to 105	1	Y		0			1	Y
	Benzo(a)pyrene	0.5 mg/kg	14	SVOC	4	5	Y	82 to 82	1	Y	ND	1	Y		1	Y		0		79 to 79	1	Y		0			1	Y
	Benzo(a)pyrene TEQ (lower bound)[1]	0.5 mg/kg	14	SVOC	4	5	Y		0			0			0	**N**		0			0			0			1	Y
	Benzo(a)pyrene TEQ (medium bound)[2]	0.5 mg/kg	14	SVOC	4	5	Y		0			0			0	**N**		0			0			0		0	1	Y
	Benzo(a)pyrene TEQ (upper bound)[3]	0.5 mg/kg	14	SVOC	4	5	Y		0			0			0	**N**		0			0			0		0	1	Y
	Benzo(b,j)fluoranthene	0.5 mg/kg	14	SVOC	4	5	Y	99 to 99	1	Y	ND	1	Y		1	Y		0		91 to 91	1	Y		0			1	Y
	Benzo(g,h,i)perylene	0.5 mg/kg	14	SVOC	4	5	Y	90 to 90	1	Y	ND	1	Y		1	Y		0		87 to 87	1	Y		0			1	Y
	Benzo(k)fluoranthene	0.5 mg/kg	14	SVOC	4	5	Y	94 to 94	1	Y	ND	1	Y		1	Y		0		108 to 108	1	Y		0			1	Y
	Chrysene	0.5 mg/kg	14	SVOC	4	5	Y	90 to 90	1	Y	ND	1	Y		1	Y		0		101 to 101	1	Y		0			1	Y
	Dibenz(a,h)anthracene	0.5 mg/kg	14	SVOC	4	5	Y	101 to 101	1	Y	ND	1	Y		1	Y		0		96 to 96	1	Y		0			1	Y
	Fluoranthene	0.5 mg/kg	14	SVOC	4	5	Y	89 to 89	1	Y	ND	1	Y		1	Y		0		115 to 115	1	Y		0			1	Y
	Fluorene	0.5 mg/kg	14	SVOC	4	5	Y	98 to 98	1	Y	ND	1	Y		1	Y		0		91 to 91	1	Y		0			1	Y
	Indeno(1,2,3-c,d)pyrene	0.5 mg/kg	14	SVOC	4	5	Y	105 to 105	1	Y	ND	1	Y		1	Y		0		94 to 94	1	Y		0			1	Y
	PAHs (Total)	0.5 mg/kg	14	SVOC	4	5	Y		0			0			0	**N**		0			0			0			1	Y
	Phenanthrene	0.5 mg/kg	14	SVOC	4	5	Y	94 to 94	1	Y	ND	1	Y		1	Y		0		81 to 81	1	Y		0			1	Y
	Pyrene	0.5 mg/kg	14	SVOC	4	5	Y	90 to 90	1	Y	ND	1	Y		1	Y		0		113 to 113	1	Y		0			1	Y
Surrogate	4-Terphenyl-d14		0	SVOC			Y		0			0			0	**N**	79 to 136	15	**N**		0			0			0	**N**
	Surrogate 2-fluorobiphenyl		0	SVOC			Y		0			0			0	**N**	69 to 104	15	**N**		0			0			0	**N**
	Surrogate 4-BFB		0	VOC			Y		0			0			0	**N**	77 to 114	14	Y		0			0			0	**N**
	Surrogate Dibutylchlorendate		0	SVOC			Y		0			0			0	**N**	9 to 141 [1] Mod. Outpost	5	**N**		0			0			0	**N**
	Surrogate TCMX		0	SVOC			Y		0			0			0	**N**	107 to 135	5	**N**		0			0			0	**N**
TPHs (NEPC 1999)	C10-C14 Fraction	20 mg/kg	13	SVOC	4	5	Y	80 to 80	1	Y	ND	1	Y		1	Y		0		71 to 81	2	Y		0			1	Y
	C10-C36 Fraction (Total)	50 mg/kg	13	SVOC	4	5	Y		0			0			0	**N**		0			0			0			1	Y
	C15-C28 Fraction	50 mg/kg	13	SVOC	4	5	Y		0		ND	1	Y		1	Y		0			0			0			1	Y
	C29-C36 Fraction	50 mg/kg	13	SVOC	4	5	Y		0		ND	1	Y		1	Y		0			0			0			1	Y
	C6-C9 Fraction	20 mg/kg	13	VOC	4	5	Y	82 to 82	1	Y	ND	1	Y		1	Y		0		88 to 88	1	Y		0			1	Y
TRHs (NEPC 2013)	>C10-C16 Fraction	50 mg/kg	13	SVOC	4	5	Y	74 to 74	1	Y	ND	1	Y		1	Y		0		75 to 75	1	Y		0			1	Y
	>C10-C16 less Naphthalene (F2)	50 mg/kg	13	SVOC	4	5	Y		0			0			0	**N**		0			0			0			1	Y
	>C10-C40 Fraction (Total)	100 mg/kg	13	SVOC	4	5	Y		0			0			0	**N**		0			**0**			0			1	Y
	>C16-C34 Fraction	100 mg/kg	13	SVOC	4	5	Y		0		ND	1	Y		1	Y		0			0			0			1	Y
	>C34-C40 Fraction	100 mg/kg	13	SVOC	4	5	Y		0		ND	1	Y		1	Y		0			0			0			1	Y
	C6-C10 Fraction	20 mg/kg	13	VOC	4	5	Y	84 to 84	1	Y	ND	1	Y		1	Y		0		93 to 93	1	Y		0			1	Y
	C6-C10 less BTEX (F1)	20 mg/kg	13	VOC	4	5	Y		0			0			0	**N**		0			0			0			1	Y
BTEXN	Benzene		0	VOC			Y	80 to 80	1	Y	ND	1	Y		0	**N**		0		90 to 93	2	Y		0			0	**N**
	Ethylbenzene		0	VOC			Y	93 to 93	1	Y	ND	1	Y		0	**N**		0		95 to 96	2	Y		0			0	**N**
	Naphthalene		0	VOC			Y	104 to 104	1	Y	ND	1	Y		0	**N**		0		95 to 130	2	**N**		0			0	**N**
	Toluene		0	VOC			Y	90 to 90	1	Y	ND	1	Y		0	**N**		0		94 to 95	2	Y		0			0	**N**
	Xylene (m & p)		0	VOC			Y	86 to 86	1	Y	ND	1	Y		0	**N**		0		90 to 91	2	Y		0			0	**N**
	Xylene (o)		0	VOC			Y	94 to 94	1	Y	ND	1	Y		0	**N**		0		95 to 100	2	Y		0			0	**N**
	Xylene (Total)		0	VOC			Y	88 to 88	1	Y	ND	1	Y		0	**N**		0		92 to 95	2	Y		0			0	**N**
Surrogate	Surrogate 4-BFB		0	VOC			Y		0			0			0	**N**	117 to 117	1	Y		0			0			0	**N**
TPHs (NEPC 1999)	C6-C9 Fraction		0	VOC	4	5	Y	92 to 92	1	Y	ND	1	Y		0	**N**		0		98 to 98	1	Y	ND	1	Y		0	**N**

Soil Duplicate RPDs - January 2020

Project Number: 58167

Project Name: Mascot DD

Field Duplicates (SOIL)

Filter: ALL

SDG	698725	698725		698725	698725	
Field ID	MW2_0.5	QA03	**RPD**	MW1_0.2	QA01	**RPD**
Sampled Date/Time	24/01/2020	24/01/2020		24/01/2020	24/01/2020	

Chem_Grou	ChemName	Units	EQL						
Metals & M	Arsenic (Tot	mg/kg	2	**5.5**	**9.4**	**52**			
	Cadmium	mg/kg	0.4	<0.4	<0.4	0			
	Chromium (	mg/kg	5	**7.0**	**11.0**	**44**			
	Copper	mg/kg	5	**6.0**	**21.0**	**111**			
	Lead	mg/kg	5	**18.0**	**33.0**	**59**			
	Mercury (In	mg/kg	0.1	<0.1	<0.1	0			
	Nickel	mg/kg	5	**<5.0**	**9.9**	**66**			
	Zinc	mg/kg	5	**38.0**	**63.0**	**50**			
etalloids									
TPHs (NEPC	C6-C9 Fracti	mg/kg	20	<20.0	<20.0	0			
	C10-C14 Fra	mg/kg	20	<20.0	<20.0	0			
	C15-C28 Fra	mg/kg	50	<50.0	<50.0	0			
	C29-C36 Fra	mg/kg	50	<50.0	<50.0	0			
	C10-C36 Fra	mg/kg	50	<50.0	<50.0	0			
1999)									
TRHs (NEPC	>C10-C16 Fr	mg/kg	50	<50.0	<50.0	0			
	>C16-C34 Fr	mg/kg	100	<100.0	<100.0	0			
	>C34-C40 Fr	mg/kg	100	<100.0	<100.0	0			
	>C10-C40 Fr	mg/kg	100	<100.0	<100.0	0			
	>C10-C16 le	mg/kg	50	<50.0	<50.0	0			
	C6-C10 Frac	mg/kg	20	<20.0	<20.0	0			
	C6-C10 less	mg/kg	20	<20.0	<20.0	0			
2013)									
BTEXN	Benzene	mg/kg	0.1	<0.1	<0.1	0			
	Ethylbenzer	mg/kg	0.1	<0.1	<0.1	0			
	Toluene	mg/kg	0.1	<0.1	<0.1	0			
	Xylene (o)	mg/kg	0.1	<0.1	<0.1	0			
	Xylene (m &	mg/kg	0.2	<0.2	<0.2	0			
	Xylene (Tota	mg/kg	0.3	<0.3	<0.3	0			
	Naphthalen	mg/kg	0.5	<0.5	<0.5	0			
	Naphthalen	mg/kg	0.5	<0.5	<0.5	0			
Polycyclic Au	Acenaphthe	mg/kg	0.5	<0.5	<0.5	0			
	Acenaphthy	mg/kg	0.5	<0.5	<0.5	0			
	Anthracene	mg/kg	0.5	<0.5	<0.5	0			
	Benz(a)anth	mg/kg	0.5	<0.5	<0.5	0			
	Benzo(a)pyr	mg/kg	0.5	<0.5	<0.5	0			
	Benzo(a)pyr	mg/kg	0.5	<0.5	<0.5	0			
	Benzo(a)pyr	mg/kg	0.5	0.6	0.6	0			
	Benzo(a)pyr	mg/kg	0.5	1.2	1.2	0			
	Benzo(b,j)flu	mg/kg	0.5	<0.5	<0.5	0			
	Benzo(g,h,i)	mg/kg	0.5	<0.5	<0.5	0			
	Benzo(k)fluo	mg/kg	0.5	<0.5	<0.5	0			
	Chrysene	mg/kg	0.5	<0.5	<0.5	0			
	Dibenz(a,h)a	mg/kg	0.5	<0.5	<0.5	0			
	Fluoranther	mg/kg	0.5	<0.5	<0.5	0			
	Fluorene	mg/kg	0.5	<0.5	<0.5	0			
	Indeno(1,2,3	mg/kg	0.5	<0.5	<0.5	0			
	Phenanthre	mg/kg	0.5	<0.5	<0.5	0			
	PAHs (Total)	mg/kg	0.5	<0.5	<0.5	0			
	Pyrene	mg/kg	0.5	<0.5	<0.5	0			
omatic Hydrocarbons									
Organochlo	4,4-DDE	mg/kg	0.05	<0.05	<0.05	0			
	Aldrin	mg/kg	0.05	<0.05	<0.05	0			
	Aldrin + Die	mg/kg	0.05	<0.05	<0.05	0			
	alpha-BHC	mg/kg	0.05	<0.05	<0.05	0			
	beta-BHC	mg/kg	0.05	<0.05	<0.05	0			
	Chlordane	mg/kg	0.1	<0.1	<0.1	0			
	DDD	mg/kg	0.05	<0.05	<0.05	0			
	DDT	mg/kg	0.05	<0.05	<0.05	0			
	Dieldrin	mg/kg	0.05	<0.05	<0.05	0			
	DDT+DDE+D	mg/kg	0.05	<0.05	<0.05	0			
	delta-BHC	mg/kg	0.05	<0.05	<0.05	0			
	Endosulfan	mg/kg	0.05	<0.05	<0.05	0			
	Endosulfan	mg/kg	0.05	<0.05	<0.05	0			
	Endosulfan	mg/kg	0.05	<0.05	<0.05	0			
	Endrin	mg/kg	0.05	<0.05	<0.05	0			
	Endrin aldel	mg/kg	0.05	<0.5	<1.0	0			
	Endrin keto	mg/kg	0.05	<0.05	<0.05	0			
	Heptachlor	mg/kg	0.05	<0.05	<0.05	0			
	Heptachlor	mg/kg	0.05	<0.05	<0.05	0			
	Lindane	mg/kg	0.05	<0.05	<0.05	0			
	Methoxychl	mg/kg	0.2	<0.2	<0.2	0			
	Toxaphene	mg/kg	1	<1.0	<1.0	0			
ine Pesticides									
Polychlorina	Aroclor 101	mg/kg	0.5	<0.5	<0.5	0			
	Aroclor 122	mg/kg	0.1	<0.1	<0.1	0			
	Aroclor 123	mg/kg	0.5	<0.5	<0.5	0			

Soil Duplicate RPDs - January 2020

Project Number: 58167

Project Name: Mascot DD

Field Duplicates (SOIL)

Filter: ALL

			SDG	698725	698725		698725	698725	
			Field ID	MW2_0.5	QA03	**RPD**	MW1_0.2	QA01	**RPD**
			Sampled Date/Time	24/01/2020	24/01/2020		24/01/2020	24/01/2020	
	Aroclor 124	mg/kg	0.5	<0.5	<0.5	0			
	Aroclor 124	mg/kg	0.5	<0.5	<0.5	0			
	Aroclor 125	mg/kg	0.5	<0.5	<0.5	0			
	Aroclor 126	mg/kg	0.5	<0.5	<0.5	0			
	PCBs (Total)	mg/kg	0.5	<0.5	<0.5	0			
ted Biphenyls									
Chlorinated	Hexachlorob	mg/kg	0.05	<0.05	<0.05	0			
Benzenes									
Asbestos	Approx. San	G					681.0	676.0	1
	Asbestos fro	%w/w					0.0	0.0	0
	Asbestos fro	%w/w					0.0	0.0	0
Asbestos	Asbestos Re	COMMENT					1.0	1.0	0
Asbestos	Mass ACM	G					0.0	0.0	0
	Mass Asbes	G					0.0	0.0	0
	Mass FA	G					0.0	0.0	0
	Mass Asbes	G					0.0	0.0	0
	Mass AF	G					0.0	0.0	0
	Mass Asbes	G					0.0	0.0	0
	Mass Asbes	G					0.0	0.0	0
Asbestos - T	ACM - Comr	COMMENT					1.0	1.0	0
	AF - Comme	COMMENT					1.0	1.0	0
	FA - Comme	COMMENT					1.0	1.0	0
	Organic Fibr	COMMENT					1.0	1.0	0
	Respirable F	COMMENT					1.0	1.0	0
	Synthetic Fi	COMMENT					1.0	1.0	0
race Analysis									
Other	% Moisture	%	1	**15.0**	**11.0**	**31**			
EPA VIC - IW	Organochlo	mg/kg	0.1	<0.5	<1.0	0			
	Other Orgar	mg/kg	0.1	<0.5	<1.0	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

Lab Duplicates - Soil January 2020

Contents

Lab Duplicates with high RPDs

SDG	Lab_Report_Nu	Matrix_Type	Lab_Duplicate	Field_ID	Depth	Sampled_Date-Tir	Method_Name		Compound	Parent_R	Dupe_Re	Result_Unit	EQL	RPD
698725	698725	SOIL	S20-Ja26291-DUP	SB4_1.0	SB41	24/01/2020	LTM-MET-3040 Metals in Waters	Soils & Sediments by ICP-MS	Lead	17	43	MG/KG	5 mg/kg	87
698725	698725	SOIL	S20-Ja26291-DUP	SB4_1.0	SB41	24/01/2020	LTM-MET-3040 Metals in Waters	Soils & Sediments by ICP-MS	Copper	7.2	12	MG/KG	5 mg/kg	50

Surrogate - Soil January 2020

Contents

Surrogate Variation > 30% or outside lab LCL or UCL

SDG	Expr1001	Lab_Report_	Sample_Ty	Matrix_	SampleCode	Field_ID	Depth	Sampled_Date-T	Compound	Recovery %	Unit	LCL	UCL	Lab_Comments
698725	698725	698725	Normal	SOIL	S20-Ja26278	MW2_0.5	MW20.5	24/01/2020	2-Fluorobiphenyl (surr.)	69	%	30	130	
698725	698725	698725	Normal	SOIL	S20-Ja26282	MW4_1.0	MW41	24/01/2020	p-Terphenyl-d14 (surr.)	132	%	30	130	
698725	698725	698725	Normal	SOIL	S20-Ja26282	MW4_1.0	MW41	24/01/2020	Dibutylchlorendate (surr.)	-999	%	70	130	INT
698725	698725	698725	Normal	SOIL	S20-Ja26283	SB1_0.2	SB10.2	24/01/2020	Dibutylchlorendate (surr.)	141	%	70	130	
698725	698725	698725	Normal	SOIL	S20-Ja26287	SB2_1.0	SB21	24/01/2020	p-Terphenyl-d14 (surr.)	136	%	30	130	
698725	698725	698725	Normal	SOIL	S20-Ja26287	SB2_1.0	SB21	24/01/2020	Dibutylchlorendate (surr.)	-999	%	70	130	INT
698725	698725	698725	Normal	SOIL	S20-Ja26287	SB2_1.0	SB21	24/01/2020	Tetrachloro-m-xylene (surr.)	135	%	70	130	

QAQC Summary Vapour 2020
Project Number: 58167
Project Name: Mascot DD

			Num Results	Holding Times (days)				Lab Control Samples			Method and Storage Blanks			Laboratory Duplicates			Surrogates			Matrix,Trip and Compound Spikes			Field,Rinsate and Trip Blanks			Field Duplicates		
Chem_Group	ChemName	Range	Non QA (Normal + Composite)	Volatility Group	Sample to Extraction	Sample to Analysis	Acceptable	Recovery %	Num Reported	Acceptable	Range	Num Reported	Acceptable	Max RPD > EQL x 1	Num Reported	Acceptable	Recovery %	Num Reported	Acceptable	Recovery %	Num Reported	Acceptable	Range	Num Reported	Acceptable	Max RPD > EQL x 1	Num Reported	Acceptable
BTEXN	Benzene		22	VOC	4 to 6	6 to 8	Y	94 to 94	1	Y					0	**N**		0			0						2	Y
	Ethylbenzene		22	VOC	4 to 6	6 to 8	Y	104 to 104	1	Y					0	**N**		0			0						2	Y
	Naphthalene		22	VOC	4 to 6	6 to 8	Y	80 to 80	1	Y					0	**N**		0			0						2	Y
	Toluene		22	VOC	4 to 6	6 to 8	Y	105 to 105	1	Y					0	**N**		0			0						2	Y
	Xylene (Total)		22	VOC	4 to 6	6 to 8	Y	103 to 103	1	Y					0	**N**		0			0						2	Y
Chlorinated Alkanes	1,1,1,2-tetrachloroethane		22	VOC	4 to 6	6 to 8	Y		0						0	**N**		0			0						2	Y
	1,1,1-trichloroethane		22	VOC	4 to 6	6 to 8	Y	95 to 95	1	Y					0	**N**		0			0						2	Y
	1,1,2,2-tetrachloroethane		22	VOC	4 to 6	6 to 8	Y		0						0	**N**		0			0						2	Y
	1,1,2-trichloroethane		22	VOC	4 to 6	6 to 8	Y		0						0	**N**		0			0						2	Y
	1,1-dichloroethane		22	VOC	4 to 6	6 to 8	Y		0						0	**N**		0			0						2	Y
	1,2,3-trichloropropane		22	VOC	4 to 6	6 to 8	Y		0						0	**N**		0			0						2	Y
	1,2-dibromo-3-chloropropane		22	VOC	4 to 6	6 to 8	Y	102 to 102	1	Y					0	**N**		0			0						2	Y
	1,2-dichloroethane		22	VOC	4 to 6	6 to 8	Y	94 to 94	1	Y					0	**N**		0			0						2	Y
	1,2-dichloropropane		22	VOC	4 to 6	6 to 8	Y		0						0	**N**		0			0						2	Y
	1,3-dichloropropane		22	VOC	4 to 6	6 to 8	Y		0						0	**N**		0			0						2	Y
	2,2-dichloropropane		22	VOC	4 to 6	6 to 8	Y		0						0	**N**		0			0						2	Y
	Bromochloromethane		22	Other	4 to 6	6 to 8	Y		0						0	**N**		0			0						2	Y
	Carbon tetrachloride		22	VOC	4 to 6	6 to 8	Y		0						0	**N**		0			0						2	Y
	Trichlorofluoromethane		22	VOC	4 to 6	6 to 8	Y		0						0	**N**		0			0						2	Y
Chlorinated Alkenes	1,1-dichloroethene		22	VOC	4 to 6	6 to 8	Y	80 to 80	1	Y					0	**N**		0			0						2	Y
	1,1-dichloropropene		22	VOC	4 to 6	6 to 8	Y	93 to 93	1	Y					0	**N**		0			0						2	Y
	2-chlorotoluene		22	VOC	4 to 6	6 to 8	Y		0						0	**N**		0			0						2	Y
	4-chlorotoluene		22	VOC	4 to 6	6 to 8	Y		0						0	**N**		0			0						2	Y
	cis-1,2-dichloroethene		22	VOC	4 to 6	6 to 8	Y		0						0	**N**		0			0						2	Y
	cis-1,3-dichloropropene		22	VOC	4 to 6	6 to 8	Y		0						0	**N**		0			0						2	Y
	Tetrachloroethene		22	SVOC	4 to 6	6 to 8	Y		0						0	**N**		0			0						2	Y
	trans-1,3-dichloropropene		22	VOC	4 to 6	6 to 8	Y		0						0	**N**		0			0						2	Y
	Trichloroethene		22	VOC	4 to 6	6 to 8	Y	97 to 97	1	Y					0	**N**		0			0						2	Y
	Vinyl Chloride		22	VOC	4 to 6	6 to 8	Y		0						0	**N**		0			0						2	Y
Chlorinated Benzenes	1,2,3-trichlorobenzene		22	VOC	4 to 6	6 to 8	Y	81 to 81	1	Y					0	**N**		0			0						2	Y
	1,2,4-trichlorobenzene		22	VOC	4 to 6	6 to 8	Y	87 to 87	1	Y					0	**N**		0			0						2	Y
	1,2-Dichlorobenzene		22	VOC	4 to 6	6 to 8	Y	95 to 95	1	Y					0	**N**		0			0						2	Y
	1,3-dichlorobenzene		22	VOC	4 to 6	6 to 8	Y		0						0	**N**		0			0						2	Y
	1,4-dichlorobenzene		22	VOC	4 to 6	6 to 8	Y	96 to 96	1	Y					0	**N**		0			0						2	Y
	Chlorobenzene		22	Other	4 to 6	6 to 8	Y		0						0	**N**		0			0						2	Y
Miscellaneous Hydrocarbons	1,2-dibromoethane		22	VOC	4 to 6	6 to 8	Y		0						0	**N**		0			0						2	Y
	Dibromomethane		22	VOC	4 to 6	6 to 8	Y		0						0	**N**		0			0						2	Y
Miscellaneous Industrial Chemicals	Hexachlorobutadiene		22	VOC	4 to 6	6 to 8	Y		0						0	**N**		0			0						2	Y
Monocyclic Aromatic Hydrocarbons	1,2,4-trimethyl benzene		22	VOC	4 to 6	6 to 8	Y		0						0	**N**		0			0						2	Y
	1,3,5-trimethyl benzene		22	VOC	4 to 6	6 to 8	Y		0						0	**N**		0			0						2	Y
	4-isopropyl toluene		22	VOC	4 to 6	6 to 8	Y		0						0	**N**		0			0						2	Y
	Isopropylbenzene		22	VOC	4 to 6	6 to 8	Y		0						0	**N**		0			0						2	Y
	n-butyl benzene		22	VOC	4 to 6	6 to 8	Y		0						0	**N**		0			0						2	Y
	n-propyl benzene		22	VOC	4 to 6	6 to 8	Y		0						0	**N**		0			0						2	Y
	sec-butyl benzene		22	VOC	4 to 6	6 to 8	Y		0						0	**N**		0			0						2	Y
	Styrene		22	VOC	4 to 6	6 to 8	Y		0						0	**N**		0			0						2	Y
	Tert-butyl benzene		22	VOC	4 to 6	6 to 8	Y		0						0	**N**		0			0						2	Y
Organic Alcohols	Isopropyl alcohol		22	VOC	4 to 6	6 to 8	Y		0						0	**N**		0			0						2	Y
Surrogate	Fluorobenzene (surr.)		0	SVOC			Y		0						0	**N**	58 to 136	26	**N**		0						0	**N**
	Surrogate 4-BFB		0	VOC			Y		0						0	**N**	68 to 137	26	**N**		0						0	**N**
	Surrogate Dibromofluoromethane		0	VOC			Y		0						0	**N**	86 to 130	26	**N**		0						0	**N**
Trihalomethanes	Bromodichloromethane		22	VOC	4 to 6	6 to 8	Y		0						0	**N**		0			0						2	Y
	Chloroform		22	VOC	4 to 6	6 to 8	Y		0						0	**N**		0			0						2	Y
	Dibromochloromethane		22	VOC	4 to 6	6 to 8	Y		0						0	**N**		0			0						2	Y
	Tribromomethane		22	VOC	4 to 6	6 to 8	Y		0						0	**N**		0			0						2	Y

RPDs - Soil Vapour January 2020

Project Number: 58167

Project Name: Mascot DD

Field Duplicates (GAS)

Filter: ALL

SDG		698723	698723			698723	698723		
Field ID		SV13 (FRONT)	QSV03 (FRONT)	**RPD**		SV13 (BACK)	QSV03 (BACK)	**RPD**	
Sampled Date/Time		24/01/2020	24/01/2020			24/01/2020	24/01/2020		
Chem_Grou	**ChemName**	**Units**	**EQL**						
BTEXN	Benzene	mg/m3	0.0833333335	<0.0833	<0.0833	0	<0.0833	<0.0833	0
	Ethylbenzen	mg/m3	0.0833333335	<0.0833	<0.0833	0	<0.0833	<0.0833	0
	Toluene	mg/m3	0.0833333335	<0.0833	<0.0833	0	<0.0833	<0.0833	0
	Xylene (Tota	mg/m3	0.2500000005	<0.25	<0.25	0	<0.25	<0.25	0
	Naphthalen	mg/m3	0.0833333335	<0.0833	<0.0833	0	<0.0833	<0.0833	0
Chlorinated	1,1,1,2-tetra	mg/m3	0.0833333335	<0.0833	<0.0833	0	<0.0833	<0.0833	0
	1,1,1-trichlo	mg/m3	0.0833333335	<0.0833	<0.0833	0	<0.0833	<0.0833	0
	1,1,2,2-tetra	mg/m3	0.0833333335	<0.0833	<0.0833	0	<0.0833	<0.0833	0
	1,1,2-trichlo	mg/m3	0.0833333335	<0.0833	<0.0833	0	<0.0833	<0.0833	0
	1,1-dichloro	mg/m3	0.0833333335	<0.0833	<0.0833	0	<0.0833	<0.0833	0
	1,2,3-trichlo	mg/m3	0.0833333335	<0.0833	<0.0833	0	<0.0833	<0.0833	0
	1,2-dibromo	mg/m3	0.0833333335	<0.0833	<0.0833	0	<0.0833	<0.0833	0
	1,2-dichloro	mg/m3	0.0833333335	<0.0833	<0.0833	0	<0.0833	<0.0833	0
	1,2-dichloro	mg/m3	0.0833333335	<0.0833	<0.0833	0	<0.0833	<0.0833	0
	1,3-dichloro	mg/m3	0.0833333335	<0.0833	<0.0833	0	<0.0833	<0.0833	0
	2,2-dichloro	mg/m3	0.0833333335	<0.0833	<0.0833	0	<0.0833	<0.0833	0
	Bromochlor	mg/m3	0.0833333335	<0.0833	<0.0833	0	<0.0833	<0.0833	0
	Carbon tetra	mg/m3	0.0833333335	<0.0833	<0.0833	0	<0.0833	<0.0833	0
	Trichloroflu	mg/m3	0.0833333335	<0.0833	<0.0833	0	<0.0833	<0.0833	0
Alkanes									
Chlorinated	1,1-dichloro	mg/m3	0.0833333335	<0.0833	<0.0833	0	<0.0833	<0.0833	0
	1,1-dichloro	mg/m3	0.0833333335	<0.0833	<0.0833	0	<0.0833	<0.0833	0
	2-chlorotolu	mg/m3	0.0833333335	<0.0833	<0.0833	0	<0.0833	<0.0833	0
	4-chlorotolu	mg/m3	0.0833333335	<0.0833	<0.0833	0	<0.0833	<0.0833	0
	cis-1,2-dichl	mg/m3	0.0833333335	<0.0833	<0.0833	0	<0.0833	<0.0833	0
	cis-1,3-dichl	mg/m3	0.0833333335	<0.0833	<0.0833	0	<0.0833	<0.0833	0
	Tetrachloro	mg/m3	0.0833333335	<0.0833	<0.0833	0	<0.0833	<0.0833	0
	trans-1,3-di	mg/m3	0.0833333335	<0.0833	<0.0833	0	<0.0833	<0.0833	0
	Trichloroeth	mg/m3	0.0833333335	<0.0833	<0.0833	0	<0.0833	<0.0833	0
	Vinyl Chlorid	mg/m3	0.0833333335	<0.0833	<0.0833	0	<0.0833	<0.0833	0
Alkenes									
Monocyclic	1,2,4-trimet	mg/m3	0.0833333335	<0.0833	<0.0833	0	<0.0833	<0.0833	0
	1,3,5-trimet	mg/m3	0.0833333335	<0.0833	<0.0833	0	<0.0833	<0.0833	0
	4-isopropyl t	mg/m3	0.0833333335	<0.0833	<0.0833	0	<0.0833	<0.0833	0
	Isopropylbe	mg/m3	0.0833333335	<0.0833	<0.0833	0	<0.0833	<0.0833	0
	n-butyl benz	mg/m3	0.0833333335	<0.0833	<0.0833	0	<0.0833	<0.0833	0
	n-propyl ben	mg/m3	0.0833333335	<0.0833	<0.0833	0	<0.0833	<0.0833	0
	sec-butyl be	mg/m3	0.0833333335	<0.0833	<0.0833	0	<0.0833	<0.0833	0
	Styrene	mg/m3	0.833333335	<0.8333	<0.8333	0	<0.8333	<0.8333	0
	Tert-butyl b	mg/m3	0.0833333335	<0.0833	<0.0833	0	<0.0833	<0.0833	0
Aromatic Hydrocarbons									
Miscellaneo	1,2-dibromo	mg/m3	0.0833333335	<0.0833	<0.0833	0	<0.0833	<0.0833	0
	Dibromome	mg/m3	0.0833333335	<0.0833	<0.0833	0	<0.0833	<0.0833	0
us Hydrocarbons									
Chlorinated	1,2,3-trichlo	mg/m3	0.0833333335	<0.0833	<0.0833	0	<0.0833	<0.0833	0
	1,2,4-trichlo	mg/m3	0.0833333335	<0.0833	<0.0833	0	<0.0833	<0.0833	0
	1,2-Dichloro	mg/m3	0.0833333335	<0.0833	<0.0833	0	<0.0833	<0.0833	0
	1,3-dichloro	mg/m3	0.0833333335	<0.0833	<0.0833	0	<0.0833	<0.0833	0
	1,4-dichloro	mg/m3	0.0833333335	<0.0833	<0.0833	0	<0.0833	<0.0833	0
	Chlorobenze	mg/m3	0.0833333335	<0.0833	<0.0833	0	<0.0833	<0.0833	0
Benzenes									
Trihalometh	Bromodichlo	mg/m3	0.0833333335	<0.0833	<0.0833	0	<0.0833	<0.0833	0
	Chloroform	mg/m3	0.0833333335	<0.0833	<0.0833	0	<0.0833	<0.0833	0
	Dibromochlo	mg/m3	0.0833333335	<0.0833	<0.0833	0	<0.0833	<0.0833	0
	Tribromome	mg/m3	0.0833333335	<0.0833	<0.0833	0	<0.0833	<0.0833	0
anes									
Miscellaneo	Hexachlorob	mg/m3	0.0833333335	<0.0833	<0.0833	0	<0.0833	<0.0833	0
us Industrial Chemicals									
Organic Alco	Isopropyl al	mg/m3	1.66666667	<1.6667	<1.6667	0	<1.6667	<1.6667	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

Surrogates - Vapour January 2020

Contents

Surrogate Variation > 30% or outside lab LCL or UCL

SDG	Expr1001	Lab_Report_N	Sample_Type	Matrix_Type	SampleCode	Field_ID	Depth	Sampled_Date-Ti	Compound	Recovery %	Unit	LCL	UCL
698723	698723	698723	Normal	GAS	S20-Ja26154	SV04 (FRONT)	SV04	22/01/2020	4-Bromofluorobenzene (surr.)	137	%	50	150
698723	698723	698723	Normal	GAS	S20-Ja26154	SV04 (FRONT)	SV04	22/01/2020	Fluorobenzene (surr.)	136	%	50	150
698723	698723	698723	Normal	GAS	S20-Ja26168	SV17 (FRONT)	SV17	24/01/2020	Fluorobenzene (surr.)	66	%	50	150
698723	698723	698723	Normal	GAS	S20-Ja26169	SV17 (BACK)	SV17	24/01/2020	Fluorobenzene (surr.)	62	%	50	150
698723	698723	698723	Normal	GAS	S20-Ja26170	SV19 (FRONT)	SV19	24/01/2020	Fluorobenzene (surr.)	63	%	50	150
698723	698723	698723	Normal	GAS	S20-Ja26171	SV19 (BACK)	SV19	24/01/2020	4-Bromofluorobenzene (surr.)	69	%	50	150
698723	698723	698723	Normal	GAS	S20-Ja26171	SV19 (BACK)	SV19	24/01/2020	Fluorobenzene (surr.)	58	%	50	150
698723	698723	698723	Normal	GAS	S20-Ja26172	SV21 (FRONT)	SV21	24/01/2020	Fluorobenzene (surr.)	59	%	50	150
698723	698723	698723	Normal	GAS	S20-Ja26173	SV21 (BACK)	SV21	24/01/2020	4-Bromofluorobenzene (surr.)	69	%	50	150
698723	698723	698723	Normal	GAS	S20-Ja26173	SV21 (BACK)	SV21	24/01/2020	Fluorobenzene (surr.)	59	%	50	150
698723	698723	698723	Field_D	GAS	S20-Ja26174	QSV03 (FRONT)	SV13	24/01/2020	Fluorobenzene (surr.)	64	%	50	150
698723	698723	698723	Field_D	GAS	S20-Ja26175	QSV03 (BACK)	SV13	24/01/2020	Fluorobenzene (surr.)	61	%	50	150
698723	698723	698723	Field_B	GAS	S20-Ja26176	BLANK (FRONT)	BLANK	24/01/2020	Fluorobenzene (surr.)	66	%	50	150
698723	698723	698723	Field_B	GAS	S20-Ja26177	BLANK (BACK)	BLANK	24/01/2020	4-Bromofluorobenzene (surr.)	68	%	50	150
698723	698723	698723	Field_B	GAS	S20-Ja26177	BLANK (BACK)	BLANK	24/01/2020	Fluorobenzene (surr.)	58	%	50	150

QAQC Summary - Water January 2020
Project Number: 58167
Project Name: Mascot DD

			Num Results	Holding Times (days)				Lab Control Samples			Method and Storage Blanks			Laboratory Duplicates				Surrogates			Matrix,Trip and Compound Spikes			Field,Rinsate and Trip Blanks			Field Duplicates			
Chem_Group	ChemName	Range	Non QA (Normal + Composite)	Volatility Group	Sample to Extraction	Sample to Analysis	Acceptable	Recovery %	Num Reported	Acceptable	Range	Num Reported	Acceptable	Max RPD > EQL x 1	Num Reported	Acceptable		Recovery %	Num Reported	Acceptable	Recovery %	Num Reported	Acceptable	Range	Num Reported	Acceptable	Max RPD > EQL x 1	Num Reported	Acceptable	
BTEXN	Benzene	0.001 mg/L	5	VOC	3	4	Y	82 to 108	2	Y	ND	3	Y		0	**N**			0		90 to 98	2	Y	ND	2	Y		1	Y	
	Ethylbenzene	0.001 mg/L	5	VOC	3	4	Y	81 to 83	2	Y	ND	3	Y		0	**N**			0		95 to 100	2	Y	ND	2	Y		1	Y	
	Naphthalene	0.00001 to 0.01 mg/L	10	VOC	3 to 4	4	Y	92 to 118	3	Y	ND	4	Y		0	**N**			0		95 to 95	1	Y	ND	3	Y		2	Y	
	Toluene	0.001 mg/L	5	VOC	3	4	Y	85 to 97	2	Y	ND	3	Y		0	**N**			0		95 to 99	2	Y	ND	2	Y		1	Y	
	Xylene (m & p)	0.002 mg/L	5	VOC	3	4	Y	84 to 106	2	Y	ND	3	Y		0	**N**			0		91 to 98	2	Y	ND	2	Y		1	Y	
	Xylene (o)	0.001 mg/L	5	VOC	3	4	Y	80 to 98	2	Y	ND	3	Y		0	**N**			0		95 to 110	2	Y	ND	2	Y		1	Y	
	Xylene (Total)	0.003 mg/L	5	VOC	3	4	Y	103 to 103	1	Y	ND	1	Y		0	**N**			0		92 to 100	2	Y	ND	2	Y		1	Y	
Chlorinated Alkanes	1,1,1,2-tetrachloroethane	0.001 mg/L	5	VOC	3	4	Y		0		ND	2	Y		0	**N**			0			0		ND	1	Y		1	Y	
	1,1,1-trichloroethane	0.001 mg/L	5	VOC	3	4	Y	90 to 122	2	Y	ND	2	Y		0	**N**			0			0		ND	1	Y		1	Y	
	1,1,2,2-tetrachloroethane	0.001 mg/L	5	VOC	3	4	Y		0		ND	2	Y		0	**N**			0			0		ND	1	Y		1	Y	
	1,1,2-trichloroethane	0.001 mg/L	5	VOC	3	4	Y		0		ND	2	Y		0	**N**			0			0		ND	1	Y		1	Y	
	1,1-dichloroethane	0.001 mg/L	5	VOC	3	4	Y	123 to 123	1	Y	ND	2	Y		0	**N**			0			0		ND	1	Y		1	Y	
	1,2,3-trichloropropane	0.001 mg/L	5	VOC	3	4	Y		0		ND	2	Y		0	**N**			0			0		ND	1	Y		1	Y	
	1,2-dibromo-3-chloropropane		0	VOC	3	4	Y		0		ND	1	Y		0	**N**			0			0			0			0	**N**	
	1,2-dichloroethane	0.001 mg/L	5	VOC	3	4	Y	102 to 121	2	Y	ND	2	Y		0	**N**			0			0		ND	1	Y		1	Y	
	1,2-dichloropropane	0.001 mg/L	5	VOC	3	4	Y		0		ND	2	Y		0	**N**			0			0		ND	1	Y		1	Y	
	1,3-dichloropropane	0.001 mg/L	5	VOC	3	4	Y		0		ND	2	Y		0	**N**			0			0		ND	1	Y		1	Y	
	2,2-dichloropropane		0	VOC	3	4	Y		0		ND	1	Y		0	**N**			0			0			0			0	**N**	
	Bromochloromethane	0.001 mg/L	5	Other	3	4	Y		0		ND	2	Y		0	**N**			0			0		ND	1	Y		1	Y	
	Carbon tetrachloride	0.001 mg/L	5	VOC	3	4	Y		0		ND	2	Y		0	**N**			0			0		ND	1	Y		1	Y	
	Chloroethane	0.001 mg/L	5	VOC	3	4	Y		0		ND	2	Y		0	**N**			0			0		ND	1	Y		1	Y	
	Chloromethane	0.001 mg/L	5	VOC	3	4	Y		0		ND	2	Y		0	**N**			0			0		ND	1	Y		1	Y	
	Dichlorodifluoromethane	0.001 mg/L	5	VOC	3	4	Y		0		ND	2	Y		0	**N**			0			0		ND	1	Y		1	Y	
	Dichloromethane	0.001 mg/L	5	SVOC	3	4	Y		0		ND	1	Y		0	**N**			0			0		ND	1	Y		1	Y	
	Trichlorofluoromethane	0.001 mg/L	5	VOC	3	4	Y		0		ND	2	Y		0	**N**			0			0		ND	1	Y		1	Y	
Chlorinated Alkenes	1,1-dichloroethene	0.001 mg/L	5	VOC	3	4	Y	105 to 105	1	Y	ND	2	Y		0	**N**			0			0		ND	1	Y		1	Y	
	1,1-dichloropropene		0	VOC	3	4	Y		0		ND	1	Y		0	**N**			0			0			0			0	**N**	
	2-chlorotoluene		0	VOC	3	4	Y		0		ND	1	Y		0	**N**			0			0			0			0	**N**	
	3-chloropropene	0.001 mg/L	5	SVOC	3	4	Y		0		ND	1	Y		0	**N**			0			0		ND	1	Y		1	Y	
	4-chlorotoluene	0.001 mg/L	5	VOC	3	4	Y		0		ND	2	Y		0	**N**			0			0		ND	1	Y		1	Y	
	cis-1,2-dichloroethene	0.001 mg/L	5	VOC	3	4	Y		0		ND	2	Y		0	**N**			0			0		ND	1	Y		1	Y	
	cis-1,3-dichloropropene	0.001 mg/L	5	VOC	3	4	Y		0		ND	2	Y		0	**N**			0			0		ND	1	Y		1	Y	
	Tetrachloroethene	0.001 mg/L	5	SVOC	3	4	Y	120 to 120	1	Y	ND	2	Y		0	**N**			0			0		ND	1	Y		1	Y	
	trans-1,2-dichloroethene	0.001 mg/L	5	VOC	3	4	Y		0		ND	2	Y		0	**N**			0			0		ND	1	Y		1	Y	
	trans-1,3-dichloropropene	0.001 mg/L	5	VOC	3	4	Y		0		ND	2	Y		0	**N**			0			0		ND	1	Y		1	Y	
	Trichloroethene	0.001 mg/L	5	VOC	3	4	Y	99 to 119	2	Y	ND	2	Y		0	**N**			0			0		ND	1	Y		1	Y	
	Vinyl Chloride	0.001 mg/L	5	VOC	3	4	Y		0		ND	2	Y		0	**N**			0			0		ND	1	Y		1	Y	
Chlorinated Benzenes	1,2,3-trichlorobenzene		0	VOC	3	4	Y		0		ND	1	Y		0	**N**			0			0			0			0	**N**	
	1,2,4-trichlorobenzene		0	VOC	3	4	Y		0		ND	1	Y		0	**N**			0			0			0			0	**N**	
	1,2-Dichlorobenzene	0.001 mg/L	5	VOC	3	4	Y	102 to 102	1	Y	ND	2	Y		0	**N**			0			0		ND	1	Y		1	Y	
	1,3-dichlorobenzene	0.001 mg/L	5	VOC	3	4	Y		0		ND	2	Y		0	**N**			0			0		ND	1	Y		1	Y	
	1,4-dichlorobenzene	0.001 mg/L	5	VOC	3	4	Y		0		ND	2	Y		0	**N**			0			0		ND	1	Y		1	Y	
	Chlorobenzene	0.001 mg/L	5	Other	3	4	Y		0		ND	2	Y		0	**N**			0			0		ND	1	Y		1	Y	
EPA VIC - IWRG621	Chlorinated Hydrocarbons EPAVic	5 µg/L	5	VOC	3	4	Y		0			0			0	**N**			0			0		ND	1	Y		1	Y	
	Other Chlorinated Hydrocarbons EPAVic	5 µg/L	5	VOC	3	4	Y		0			0			0	**N**			0			0		ND	1	Y		1	Y	
Metals & Metalloids	Arsenic (Total)	0.001 mg/L	5	Other	3 to 4	4	Y	99 to 100	2	Y	ND	2	Y	0	1	Y			0		98 to 98	1	Y	ND	1	Y	0	1	Y	
	Cadmium	0.0002 mg/L	5	Other	3 to 4	4	Y	98 to 100	2	Y	ND	2	Y		1	Y			0		91 to 91	1	Y	ND	1	Y		1	Y	
	Chromium (Total)	0.001 mg/L	5	Other	3 to 4	4	Y	97 to 98	2	Y	ND	2	Y	0	1	Y			0		91 to 91	1	Y	ND	1	Y	0	1	Y	
	Copper	0.001 mg/L	5	Other	3 to 4	4	Y	96 to 99	2	Y	ND	2	Y		1	Y			0		90 to 90	1	Y	ND	1	Y		1	Y	
	Lead	0.001 mg/L	5	Other	3 to 4	4	Y	99 to 103	2	Y	ND	2	Y		1	Y			0		91 to 91	1	Y	ND	1	Y		1	Y	
	Mercury (Inorganic)	0.0001 mg/L	5	Other	3 to 4	4	Y	96 to 107	2	Y	ND	2	Y	0	1	Y			0		106 to 106	1	Y	ND	1	Y	0	1	Y	
	Nickel	0.001 mg/L	5	Other	3 to 4	4	Y	98 to 99	2	Y	ND	2	Y	0	1	Y			0		92 to 92	1	Y	ND	1	Y	0	1	Y	
	Zinc	0.005 mg/L	5	Other	3 to 4	4	Y	96 to 101	2	Y	ND	2	Y		1	Y			0		52 to 52	1	**N**	ND	1	Y		1	Y	
Miscellaneous Hydrocarbons	1,2-dibromoethane	0.001 mg/L	5	VOC	3	4	Y		0		ND	2	Y		0	**N**			0			0		ND	1	Y		1	Y	
	2-Butanone (MEK)	0.001 mg/L	5	VOC	3	4	Y		0		ND	1	Y		0	**N**			0			0		ND	1	Y		1	Y	
	4-Methyl-2-pentanone (MIBK)	0.001 mg/L	5	VOC	3	4	Y		0		ND	1	Y		0	**N**			0			0		ND	1	Y		1	Y	
	Bromomethane	0.001 mg/L	5	VOC	3	4	Y		0		ND	2	Y		0	**N**			0			0		ND	1	Y		1	Y	
	Cyclohexane		0	VOC	3	4	Y		0		ND	1	Y		0	**N**			0			0			0			0	**N**	
	Dibromomethane	0.001 mg/L	5	VOC	3	4	Y		0		ND	2	Y		0	**N**			0			0		ND	1	Y		1	Y	
	Iodomethane	0.001 mg/L	5	VOC	3	4	Y		0		ND	1	Y		0	**N**			0			0		ND	1	Y		1	Y	
Miscellaneous Industrial Chemicals	Hexachlorobutadiene		0	VOC	3	4	Y		0		ND	1	Y		0	**N**			0			0			0			0	**N**	
Monocyclic Aromatic Hydrocarbons	1,2,4-trimethyl benzene	0.001 mg/L	5	VOC	3	4	Y		0		ND	2	Y		0	**N**			0			0		ND	1	Y		1	Y	
	1,3,5-trimethyl benzene	0.001 mg/L	5	VOC	3	4	Y		0		ND	2	Y		0	**N**			0			0		ND	1	Y		1	Y	
	4-isopropyl toluene		0	VOC	3	4	Y		0		ND	1	Y		0	**N**			0			0			0			0	**N**	
	Bromobenzene	0.001 mg/L	5	VOC	3	4	Y		0		ND	2	Y		0	**N**			0			0		ND	1	Y		1	Y	
	Isopropylbenzene	0.001 mg/L	5	VOC	3	4	Y		0		ND	2	Y		0	**N**			0			0		ND	1	Y		1	Y	
	n-butyl benzene		0	VOC	3	4	Y		0		ND	1	Y		0	**N**			0			0			0			0	**N**	
	n-propyl benzene		0	VOC	3	4	Y		0		ND	1	Y		0	**N**			0			0			0			0	**N**	
	sec-butyl benzene		0	VOC	3	4	Y		0		ND	1	Y		0	**N**			0			0			0			0	**N**	
	Styrene	0.001 mg/L	5	VOC	3	4	Y		0		ND	2	Y		0	**N**			0			0		ND	1	Y		1	Y	
	Tert-butyl benzene		0	VOC	3	4	Y		0		ND	1	Y		0	**N**			0			0			0			0	**N**	
Organic Sulfur Compounds	Carbon disulfide	0.001 mg/L	5	VOC	3	4	Y		0		ND	1	Y		0	**N**			0			0		ND	1	Y		1	Y	
PAHs in Water - Low Level	Benzo(b,j+k)fluoranthene		0	Other	4	4	Y		0		ND	1	Y		0	**N**			0			0			0			0	**N**	
Polycyclic Aromatic Hydrocarbons	Acenaphthene	0.00001 mg/L	5	SVOC	4	4	Y	112 to 112	1	Y	ND	2	Y		0	**N**			0			0		ND	1	Y		1	Y	
	Acenaphthylene	0.00001 mg/L	5	SVOC	4	4	Y	113 to 113	1	Y	ND	2	Y		0	**N**			0			0		ND	1	Y		1	Y	
	Anthracene	0.00001 mg/L	5	SVOC	4	4	Y	118 to 118	1	Y	ND	2	Y		0	**N**			0			0		ND	1	Y		1	Y	
	Benz(a)anthracene	0.00001 mg/L	5	SVOC	4	4	Y	81 to 81	1	Y	ND	2	Y		0	**N**			0			0		ND	1	Y		1	Y	
	Benzo(a)pyrene	0.00001 mg/L	5	SVOC	4	4	Y	86 to 107	2	Y	ND	2	Y		0	**N**			0			0		ND	1	Y		1	Y	
	Benzo(a)pyrene TEQ (WHO)		0	SVOC	4	4	Y		0			0			0	**N**			0			0			0			0	**N**	
	Benzo(b,j)fluoranthene	0.00001 mg/L	5	SVOC	4	4	Y	74 to 74	1	Y	ND	1	Y		0	**N**			0			0		ND	1	Y		1	Y	
	Benzo(g,h,i)perylene	0.00001 mg/L	5	SVOC	4	4	Y	82 to 82	1	Y	ND	2	Y		0	**N**			0			0		ND	1	Y		1	Y	
	Benzo(k)fluoranthene	0.00001 mg/L	5	SVOC	4	4	Y	104 to 104	1	Y	ND	1	Y		0	**N**			0			0		ND	1	Y		1	Y	
	Chrysene	0.00001 mg/L	5	SVOC	4	4	Y	93 to 108	2	Y	ND	2	Y		0	**N**			0			0		ND	1	Y		1	Y	
	Dibenz(a,h)anthracene	0.00001 mg/L	5	SVOC	4	4	Y	106 to 106	1	Y	ND	2	Y		0	**N**			0			0		ND	1	Y		1	Y	
	Fluoranthene	0.00001 mg/L	5	SVOC	4	4	Y	110 to 111	2	Y	ND	2	Y		0	**N**			0			0		ND	1	Y		1	Y	
	Fluorene	0.00001 mg/L	5	SVOC	4	4	Y	112 to 116	2	Y	ND	2	Y		0	**N**			0			0		ND	1	Y		1	Y	
	Indeno(1,2,3-c,d)pyrene	0.00001 mg/L	5	SVOC	4	4	Y	103 to 103	1	Y	ND	2	Y		0	**N**			0			0		ND	1	Y		1	Y	
	PAHs (Total)	0.00001 mg/L	5	SVOC	4	4	Y	0			ND	1	Y		0	**N**			0			0		ND	1	Y		1	Y	
	Phenanthrene	0.00001 mg/L	5	SVOC	4	4	Y	94 to 110	2	Y	ND	2	Y		0	**N**			0			0		ND	1	Y		1	Y	
	Pyrene	0.00001 mg/L	5	SVOC	4	4	Y	110 to 116	2	Y	ND	2	Y		0	**N**			0			0		ND	1	Y		1	Y	
	Total Positive PAHs		0	SVOC	4	4	Y		0			0			0	**N**			0			0			0			0	**N**	
Solvents	2-Propanone (Acetone)	1 µg/L	5	Other	3	4	Y		0		ND	1	Y		0	**N**			0			0		ND	1	Y		1	Y	
Surrogate	4-Terphenyl-d14		0	SVOC			Y	83 to 83	1	Y		0			0	**N**	57 to 104	10	**N**			0			0			0	**N**	
	Surrogate 2-fluorobiphenyl		0	SVOC			Y		0			0			0	**N**	50 to 80	7	**N**			0			0			0	**N**	
	Surrogate 4-BFB		0	VOC			Y	101 to 105	2	Y		0			0	**N**	76 to 130	15	**N**			0			0			0	**N**	
	Surrogate Dibromofluoromethane		0	VOC			Y	100 to 101	2	Y		0			0	**N**	100 to 107	6	Y			0			0			0	**N**	
	Surrogate o-Terphenyl		0	SVOC			Y	108 to 108	1	Y		0			0	**N**	73 to 108	3	Y			0			0			0	**N**	
	Surrogate toluene-d8		0	VOC			Y	101 to 102	2	Y		0			0	**N**	85 to 122	13	Y			0			0			0	**N**	
TPHs (NEPC 1999)	C10-C14 Fraction	0.05 mg/L	5	SVOC	3 to 4	4	Y	70 to 84	2	**N**	ND	2	Y		1	Y			0		71 to 71	1	Y	ND	1	Y		1	Y	
	C10-C36 Fraction (Total)	0.1 mg/L	5	SVOC	3	4	Y		0			0			0	**N**			0			0		ND	1	Y		1	Y	
	C15-C28 Fraction	0.1 mg/L	5	SVOC	3 to 4	4	Y	93 to 93	1	Y	ND	2	Y		1	Y			0			0		ND	1	Y		1	Y	
	C29-C36 Fraction	0.1 mg/L	5	SVOC	3 to 4	4	Y	92 to 92	1	Y	ND	2	Y		1	Y			0			0		ND	1	Y		1	Y	
	C6-C9 Fraction	0.02 mg/L	5	VOC	3	4	Y	83 to 92	2	Y	ND	2	Y		0	**N**			0		98 to 98	1	Y	ND	2	Y		1	Y	
TRHs (NEPC 2013)	>C10-C16 Fraction	0.05 mg/L	5	SVOC	3 to 4	4	Y	73 to 84	2	Y	ND	2	Y		1	Y			0		70 to 70	1	**N**	ND	1	Y		1	Y	
	>C10-C16 less Naphthalene (F2)	0.05 mg/L	5	SVOC	3 to 4	4	Y		0			0			0	**N**			0			0		ND	1	Y		1	Y	
	>C10-C40 Fraction (Total)	0.1 mg/L	5	SVOC	3	4	Y		0			0			0	**N**			0			0		ND	1	Y		1	Y	
	>C16-C34 Fraction	0.1 mg/L	5	SVOC	3 to 4	4	Y	93 to 93	1	Y	ND	2	Y		1	Y			0			0		ND	1	Y		1	Y	
	>C34-C40 Fraction	0.1 mg/L	5	SVOC	3 to 4	4	Y	92 to 92	1	Y	ND	2	Y		1	Y			0			0		ND	1	Y		1	Y	
	C6-C10 Fraction	0.02 mg/L	5	VOC	3	4	Y	83 to 98	2	Y	ND	2	Y		0	**N**			0		98 to 98	1	Y	ND	2	Y		1	Y	
	C6-C10 less BTEX (F1)	0.02 mg/L	5	VOC	3	4	Y		0			0			0	**N**			0			0		ND	2	Y		1	Y	
Trihalomethanes	Bromodichloromethane	0.001 mg/L	5	VOC	3	4	Y	114 to 114	1	Y	ND	2	Y		0	**N**			0			0		ND	1	Y		1	Y	
	Chloroform	0.005 mg/L	5	VOC	3	4	Y	123 to 123	1	Y	ND	2	Y		0	**N**			0			0		ND	1	Y		1	Y	
	Dibromochloromethane	0.001 mg/L	5	VOC	3	4	Y	107 to 107	1	Y	ND	2	Y		0	**N**			0			0		ND	1	Y		1	Y	
	Tribromomethane	0.001 mg/L	5	VOC	3	4	Y		0		ND	2	Y		0	**N**			0			0		ND	1	Y		1	Y	
VOC	Total MA[**]	0.003 MG/L	5	Other	3	4	Y		0			0			0	**N**			0			0		ND	1	Y		1	Y	

Water Duplicate RPDs - January 2020

Project Number: 58167

Project Name: Mascot DD

Field Duplicates (WATER)

Filter: ALL

SDG	698721	698721		698721	ENVIROLAB	
Field ID	MW1	QA	**RPD**	MW1	QC	**RPD**
Sampled Date/Time	25/01/2020	25/01/2020		25/01/2020	25/01/2020	

Chem_Grou	ChemName	Units	EQL						
VOC	Total MAH*	mg/l	0.003	<0.003	<0.003	0	<0.003		
Metals & M	Arsenic (Tot	mg/l	0.001	0.038	0.038	0	**0.038**	**0.072**	**62**
	Cadmium (F	mg/l	0.0002 (Primary): 0.0001 (I	<0.0002	<0.0002	0	<0.0002	<0.0001	0
	Chromium (	mg/l	0.001	0.001	0.001	0	**0.001**	**0.002**	**67**
	Copper (Filt	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Lead (Filtere	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Mercury (In	mg/l	0.0001 (Primary): 0.00005	0.0001	<0.0001	0	0.0001	<0.0001	67
	Nickel (Filte	mg/l	0.001	0.001	0.001	0	0.001	0.001	0
	Zinc (Filtere	mg/l	0.005 (Primary): 0.001 (Int	<0.005	<0.005	0	<0.005	<0.001	0
etalloids									
TPHs (NEPC	C6-C9 Fracti	mg/l	0.02 (Primary): 0.01 (Interl	<0.02	<0.02	0	<0.02	<0.01	0
	C10-C14 Fra	mg/l	0.05	<0.05	<0.05	0	<0.05	<0.05	0
	C15-C28 Fra	mg/l	0.1	<0.1	<0.1	0	<0.1	<0.1	0
	C29-C36 Fra	mg/l	0.1	<0.1	<0.1	0	<0.1	<0.1	0
	C10-C36 Fra	mg/l	0.1	<0.1	<0.1	0	<0.1		
1999)									
TRHs (NEPC	>C10-C16 Fr	mg/l	0.05	<0.05	<0.05	0	<0.05	<0.05	0
	>C16-C34 Fr	mg/l	0.1	<0.1	<0.1	0	<0.1	<0.1	0
	>C34-C40 Fr	mg/l	0.1	<0.1	<0.1	0	<0.1	<0.1	0
	>C10-C40 Fr	mg/l	0.1	<0.1	<0.1	0	<0.1		
	>C10-C16 le	mg/l	0.05	<0.05	<0.05	0	<0.05	<0.05	0
	C6-C10 Frac	mg/l	0.02 (Primary): 0.01 (Interl	<0.02	<0.02	0	<0.02	<0.01	0
	C6-C10 less	mg/l	0.02 (Primary): 0.01 (Interl	<0.02	<0.02	0	<0.02	<0.01	0
2013)									
BTEXN	Benzene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Ethylbenzer	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Toluene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Xylene (o)	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Xylene (m &	mg/l	0.002	<0.002	<0.002	0	<0.002	<0.002	0
	Xylene (Tota	mg/l	0.003	<0.003	<0.003	0	<0.003		
	Naphthalen	mg/l	0.01 (Primary): 0.001 (Inte	<0.01	<0.01	0	<0.01	<0.0002	0
	Naphthalen	mg/l	0.00001 (Primary): 0.001 (I	<0.0	<0.0	0	<0.0	<0.0002	0
Polycyclic Ar	Acenaphthe	mg/l	0.00001 (Primary): 0.0001	<0.0	<0.0	0	<0.0	<0.0001	0
	Acenaphthy	mg/l	0.00001 (Primary): 0.0001	<0.0	<0.0	0	<0.0	<0.0001	0
	Anthracene	mg/l	0.00001 (Primary): 0.0001	<0.0	<0.0	0	<0.0	<0.0001	0
	Benz(a)anth	mg/l	0.00001 (Primary): 0.0001	<0.0	<0.0	0	<0.0	<0.0001	0
	Benzo(a)pyr	mg/l	0.00001 (Primary): 0.0001	<0.0	<0.0	0	<0.0	<0.0001	0
	Benzo(b,j)flu	mg/l	0.00001	<0.0	<0.0	0	<0.0		
	Benzo(g,h,i)	mg/l	0.00001 (Primary): 0.0001	<0.0	<0.0	0	<0.0	<0.0001	0
	Benzo(k)fluo	mg/l	0.00001	<0.0	<0.0	0	<0.0		
	Chrysene	mg/l	0.00001 (Primary): 0.0001	<0.0	<0.0	0	<0.0	<0.0001	0
	Dibenz(a,h)a	mg/l	0.00001 (Primary): 0.0001	<0.0	<0.0	0	<0.0	<0.0001	0
	Fluoranthen	mg/l	0.00001 (Primary): 0.0001	<0.0	<0.0	0	<0.0	<0.0001	0
	Fluorene	mg/l	0.00001 (Primary): 0.0001	<0.0	<0.0	0	<0.0	<0.0001	0
	Indeno(1,2,3	mg/l	0.00001 (Primary): 0.0001	<0.0	<0.0	0	<0.0	<0.0001	0
	Phenanthre	mg/l	0.00001 (Primary): 0.0001	<0.0	<0.0	0	<0.0	<0.0001	0
	PAHs (Total)	mg/l	0.00001	<0.0	<0.0	0	<0.0		
	Pyrene	mg/l	0.00001 (Primary): 0.0001	<0.0	<0.0	0	<0.0	<0.0001	0
omatic Hydrocarbons									
Chlorinated	1,1,1,2-tetra	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	1,1,1-trichlo	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	1,1,2,2-tetra	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	1,1,2-trichlo	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	1,1-dichloro	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	1,2,3-trichlo	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	1,2-dichloro	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	1,2-dichloro	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	1,3-dichloro	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Bromochlor	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Carbon tetra	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Chloroethan	mg/l	0.001 (Primary): 0.01 (Inte	<0.001	<0.001	0	<0.001	<0.01	0
	Chlorometh	mg/l	0.001 (Primary): 0.01 (Inte	<0.001	<0.001	0	<0.001	<0.01	0
	Dichlorodiflu	mg/l	0.001 (Primary): 0.01 (Inte	<0.001	<0.001	0	<0.001	<0.01	0
	Dichlorome	mg/l	0.001	<0.001	<0.001	0	<0.001		
	Trichloroflu	mg/l	0.001 (Primary): 0.01 (Inte	<0.001	<0.001	0	<0.001	<0.01	0
Alkanes									
Chlorinated	1,1-dichloro	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	3-chloropro	mg/l	0.001	<0.001	<0.001	0	<0.001		
	4-chlorotolu	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	cis-1,2-dichl	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	cis-1,3-dichl	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Tetrachloro	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	trans-1,2-di	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	trans-1,3-di	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Trichloroeth	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Vinyl Chlorid	mg/l	0.001 (Primary): 0.01 (Inte	<0.001	<0.001	0	<0.001	<0.01	0

Water Duplicate RPDs - January 2020

Project Number: 58167

Project Name: Mascot DD
Field Duplicates (WATER)

Filter: ALL

			SDG	698721	698721		698721	ENVIROLAB	
			Field ID	MW1	QA	**RPD**	MW1	QC	**RPD**
			Sampled Date/Time	25/01/2020	25/01/2020		25/01/2020	25/01/2020	
Alkenes									
Solvents	2-Propanon	µg/l	1	<1.0	<1.0	0	<1.0		
Monocyclic	1,2,4-trimet	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	1,3,5-trimet	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Bromobenz	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Isopropylbe	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Styrene	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
Aromatic Hydrocarbons									
Miscellaneo	1,2-dibromo	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	2-Butanone	mg/l	0.001	<0.001	<0.001	0	<0.001		
	4-Methyl-2-	mg/l	0.001	<0.001	<0.001	0	<0.001		
	Bromometh	mg/l	0.001 (Primary): 0.01 (Inte	<0.001	<0.001	0	<0.001	<0.01	0
	Dibromome	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Iodomethan	mg/l	0.001	<0.001	<0.001	0	<0.001		
us Hydrocarbons									
Chlorinated	1,2-Dichloro	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	1,3-dichloro	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	1,4-dichloro	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Chlorobenze	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
Benzenes									
Trihalometh	Bromodichl	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Chloroform	mg/l	0.005 (Primary): 0.001 (Int	<0.005	<0.005	0	<0.005	<0.001	0
	Dibromochl	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Tribromome	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
anes									
Organic Sulf	Carbon disu	mg/l	0.001	<0.001	<0.001	0	<0.001		
ur Compounds									
EPA VIC - IW	Chlorinated	µg/l	5	<5.0	<5.0	0	<5.0		
	Other Chlor	µg/l	5	<5.0	<5.0	0	<5.0		

*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

Surrogates - Water January 2020

Contents

Surrogate Variation > 30% or outside lab LCL or UCL

SDG	Expr1001	Lab_Report	Sample_Ty	Matrix_Type	SampleCode	Field_ID	Depth	Sampled_Date-	Compound	Recovery	Unit	LCL	UCL
698721	698721	698721	Normal	WATER	S20-Ja26115	MW1	MW1	25/01/2020	p-Terphenyl-d14 (surr.)	57	%	50	150
698721	698721	698721	Normal	WATER	S20-Ja26115	MW1	MW1	25/01/2020	2-Fluorobiphenyl (surr.)	50	%	50	150
698721	698721	698721	Normal	WATER	S20-Ja26116	MW2	MW2	25/01/2020	2-Fluorobiphenyl (surr.)	66	%	50	150
698721	698721	698721	Normal	WATER	S20-Ja26119	MW5	MW5	25/01/2020	p-Terphenyl-d14 (surr.)	69	%	50	150
698721	698721	698721	Field_D	WATER	S20-Ja26120	QA	MW1	25/01/2020	p-Terphenyl-d14 (surr.)	68	%	50	150

Appendix N ProUCL Data and Output

	A	B	C	D	E	F	G	H	I	J	K	L
1	UCL Statistics for Uncensored Full Data Sets											
2												
3	User Selected Options											
4	Date/Time of Computation	ProUCL 5.11/09/2021 5:29:34 PM										
5	From File	WorkSheet.xls										
6	Full Precision	OFF										
7	Confidence Coefficient	95%										
8	Number of Bootstrap Operations	2000										
9												
10												
11	B(a)P TEQ											
12												
13	General Statistics											
14	Total Number of Observations					31			Number of Distinct Observations			4
15									Number of Missing Observations			0
16	Minimum					1.2			Mean			3.116
17	Maximum					56			Median			1.2
18	SD					9.835			Std. Error of Mean			1.766
19	Coefficient of Variation					3.156			Skewness			5.532
20												
21	Normal GOF Test											
22	Shapiro Wilk Test Statistic					0.205			Shapiro Wilk GOF Test			
23	5% Shapiro Wilk Critical Value					0.929			Data Not Normal at 5% Significance Level			
24	Lilliefors Test Statistic					0.48			Lilliefors GOF Test			
25	5% Lilliefors Critical Value					0.156			Data Not Normal at 5% Significance Level			
26	Data Not Normal at 5% Significance Level											
27												
28	Assuming Normal Distribution											
29	95% Normal UCL								95% UCLs (Adjusted for Skewness)			
30	95% Student's-t UCL					6.114			95% Adjusted-CLT UCL (Chen-1995)			7.897
31									95% Modified-t UCL (Johnson-1978)			6.407
32												
33	Gamma GOF Test											
34	A-D Test Statistic					10.57			Anderson-Darling Gamma GOF Test			
35	5% A-D Critical Value					0.786			Data Not Gamma Distributed at 5% Significance Level			
36	K-S Test Statistic					0.531			Kolmogorov-Smirnov Gamma GOF Test			
37	5% K-S Critical Value					0.164			Data Not Gamma Distributed at 5% Significance Level			
38	Data Not Gamma Distributed at 5% Significance Level											
39												
40	Gamma Statistics											
41	k hat (MLE)					0.78			k star (bias corrected MLE)			0.726
42	Theta hat (MLE)					3.998			Theta star (bias corrected MLE)			4.295
43	nu hat (MLE)					48.33			nu star (bias corrected)			44.99
44	MLE Mean (bias corrected)					3.116			MLE Sd (bias corrected)			3.658
45									Approximate Chi Square Value (0.05)			30.6
46	Adjusted Level of Significance					0.0413			Adjusted Chi Square Value			29.94
47												
48	Assuming Gamma Distribution											
49	95% Approximate Gamma UCL (use when n>=50))					4.581			95% Adjusted Gamma UCL (use when n<50)			4.682
50												
51	Lognormal GOF Test											
52	Shapiro Wilk Test Statistic					0.301			Shapiro Wilk Lognormal GOF Test			
53	5% Shapiro Wilk Critical Value					0.929			Data Not Lognormal at 5% Significance Level			
54	Lilliefors Test Statistic					0.506			Lilliefors Lognormal GOF Test			
55	5% Lilliefors Critical Value					0.156			Data Not Lognormal at 5% Significance Level			
56	Data Not Lognormal at 5% Significance Level											
57												

58	Lognormal Statistics										
59				Minimum of Logged Data	0.182			Mean of logged Data	0.373		
60				Maximum of Logged Data	4.025			SD of logged Data	0.729		
61											
62	Assuming Lognormal Distribution										
63				95% H-UCL	2.513			90% Chebyshev (MVUE) UCL	2.674		
64				95% Chebyshev (MVUE) UCL	3.036			97.5% Chebyshev (MVUE) UCL	3.54		
65				99% Chebyshev (MVUE) UCL	4.529						
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	6.022			95% Jackknife UCL	6.114		
72				95% Standard Bootstrap UCL	N/A			95% Bootstrap-t UCL	N/A		
73				95% Hall's Bootstrap UCL	N/A			95% Percentile Bootstrap UCL	N/A		
74				95% BCA Bootstrap UCL	N/A						
75				90% Chebyshev(Mean, Sd) UCL	8.415			95% Chebyshev(Mean, Sd) UCL	10.82		
76				97.5% Chebyshev(Mean, Sd) UCL	14.15			99% Chebyshev(Mean, Sd) UCL	20.69		
77											
78	Suggested UCL to Use										
79				95% Chebyshev (Mean, Sd) UCL	10.82						
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	Recommendations are based upon data size, data distribution, and skewness.										
83	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).										
84	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.										
85											
86											
87	Aldrin + Dieldrin										
88											
89	General Statistics										
90				Total Number of Observations	24			Number of Distinct Observations	9		
91								Number of Missing Observations	0		
92				Minimum	0.05			Mean	3.622		
93				Maximum	82			Median	0.05		
94				SD	16.7			Std. Error of Mean	3.41		
95				Coefficient of Variation	4.612			Skewness	4.891		
96											
97	Normal GOF Test										
98				Shapiro Wilk Test Statistic	0.223			Shapiro Wilk GOF Test			
99				5% Shapiro Wilk Critical Value	0.916			Data Not Normal at 5% Significance Level			
100				Lilliefors Test Statistic	0.491			Lilliefors GOF Test			
101				5% Lilliefors Critical Value	0.177			Data Not Normal at 5% Significance Level			
102	Data Not Normal at 5% Significance Level										
103											
104	Assuming Normal Distribution										
105				95% Normal UCL				95% UCLs (Adjusted for Skewness)			
106				95% Student's-t UCL	9.465			95% Adjusted-CLT UCL (Chen-1995)	12.87		
107								95% Modified-t UCL (Johnson-1978)	10.03		
108											
109	Gamma GOF Test										
110				A-D Test Statistic	6.816			Anderson-Darling Gamma GOF Test			
111				5% A-D Critical Value	0.893			Data Not Gamma Distributed at 5% Significance Level			
112				K-S Test Statistic	0.445			Kolmogorov-Smirnov Gamma GOF Test			
113				5% K-S Critical Value	0.197			Data Not Gamma Distributed at 5% Significance Level			
114	Data Not Gamma Distributed at 5% Significance Level										

115											
116					Gamma Statistics						
117					k hat (MLE)	0.211			k star (bias corrected MLE)		0.213
118					Theta hat (MLE)	17.14			Theta star (bias corrected MLE)		17.03
119					nu hat (MLE)	10.14			nu star (bias corrected)		10.21
120					MLE Mean (bias corrected)	3.622			MLE Sd (bias corrected)		7.853
121									Approximate Chi Square Value (0.05)		4.073
122					Adjusted Level of Significance	0.0392			Adjusted Chi Square Value		3.803
123											
124					Assuming Gamma Distribution						
125					95% Approximate Gamma UCL (use when n>=50))	9.078			95% Adjusted Gamma UCL (use when n<50)		9.721
126											
127					Lognormal GOF Test						
128					Shapiro Wilk Test Statistic	0.56			Shapiro Wilk Lognormal GOF Test		
129					5% Shapiro Wilk Critical Value	0.916			Data Not Lognormal at 5% Significance Level		
130					Lilliefors Test Statistic	0.353			Lilliefors Lognormal GOF Test		
131					5% Lilliefors Critical Value	0.177			Data Not Lognormal at 5% Significance Level		
132					Data Not Lognormal at 5% Significance Level						
133											
134					Lognormal Statistics						
135					Minimum of Logged Data	-2.996			Mean of logged Data		-2.165
136					Maximum of Logged Data	4.407			SD of logged Data		1.713
137											
138					Assuming Lognormal Distribution						
139					95% H-UCL	1.807			90% Chebyshev (MVUE) UCL		1.011
140					95% Chebyshev (MVUE) UCL	1.272			97.5% Chebyshev (MVUE) UCL		1.634
141					99% Chebyshev (MVUE) UCL	2.344					
142											
143					Nonparametric Distribution Free UCL Statistics						
144					Data do not follow a Discernible Distribution (0.05)						
145											
146					Nonparametric Distribution Free UCLs						
147					95% CLT UCL	9.23			95% Jackknife UCL		9.465
148					95% Standard Bootstrap UCL	9.044			95% Bootstrap-t UCL		588.9
149					95% Hall's Bootstrap UCL	413.1			95% Percentile Bootstrap UCL		10.44
150					95% BCA Bootstrap UCL	13.99					
151					90% Chebyshev(Mean, Sd) UCL	13.85			95% Chebyshev(Mean, Sd) UCL		18.48
152					97.5% Chebyshev(Mean, Sd) UCL	24.91			99% Chebyshev(Mean, Sd) UCL		37.55
153											
154					Suggested UCL to Use						
155					95% Chebyshev (Mean, Sd) UCL	18.48					
156											
157					Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.						
158					Recommendations are based upon data size, data distribution, and skewness.						
159					These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).						
160					However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.						
161											

	A	B	C
1	B(a)P TEQ	Aldrin + Dieldrin	
2	1.2	0.05	
3	1.2	0.05	
4	1.2	0.18	
5	1.2	0.16	
6	1.2	0.05	
7	1.2	0.05	
8	1.2	0.05	
9	1.2	2.74	
10	1.2	0.05	
11	1.2	0.05	
12	56	0.5	
13	1.2	0.21	
14	1.2	0.05	
15	1.2	0.05	
16	1.2	0.05	
17	1.2	0.05	
18	1.2	0.05	
19	1.2	0.05	
20	1.2	0.05	
21	2.5	0.2	
22	1.2	0.05	
23	1.2	82	
24	1.2	0.13	
25	1.2	0.05	
26	1.2		
27	1.2		
28	1.2		
29	1.2		
30	4.5		
31	1.2		
32	1.2		

Appendix O PSI (JBS&G 2021)

Charter Hall Pty Ltd

Preliminary Site Assessment
520-530 Gardeners Road, Alexandria
NSW 2020

17 February 2020

58167/127179 (Rev 1)

JBS&G Australia Pty Ltd

www.jbsg.com.au

Charter Hall Pty Ltd

Preliminary Site Assessment
520-530 Gardeners Road, Alexandria
NSW 2020

17 February 2020

58167/127179 (Rev 1)

JBS&G Australia Pty Ltd

Table of Contents

Abbreviations vi

Executive Summary 1

1. Introduction 3
   - 1.1 Objectives 3
   - 1.2 Scope of Work 3

2. Site Condition and Surrounding Environment 4
   - 2.1 Site Identification 4
   - 2.2 Site Description 4
   - 2.3 Surrounding Land-use 5
   - 2.4 Topography 5
   - 2.5 Geology and Soils 5
   - 2.6 Hydrology 5
   - 2.7 Hydrogeology 5
   - 2.8 Acid Sulfate Soils 5
   - 2.9 Meteorology 6

3. Site History 7
   - 3.1 Previous Investigation Reports ..... **Error! Bookmark not defined.**
   - 3.2 Office of Environment & Heritage Records 7
   - 3.3 Australian and NSW Heritage Register 7
   - 3.4 Aerial Photographs 7
   - 3.5 Section 10.7 Planning Certificate 8
   - 3.6 Historical Title Review 8
   - 3.7 SafeWork NSW Dangerous Goods Records 9
   - 3.8 Integrity Assessment and Summary of Site History 9

4. Conceptual Site Model (CSM) 10
   - 4.1 Potential Areas of Environmental Concern 10
   - 4.2 Potentially Contaminated Media 10
   - 4.3 Potential for Migration from Site 10
   - 4.4 Receptors 11
   - 4.5 Preferential Pathways 11

5. Sampling Program Methodology 12
   - 5.1 Soil Sampling Program and Methodology 12
   - 5.2 Soil Vapour Sampling Methodology 12
   - 5.3 Groundwater Sampling Methodology 13
     - 5.3.1 Monitoring Well Installation 13
     - 5.3.2 Monitoring Well Development 13

5.3.3 Groundwater Sampling 13
5.4 Laboratory Schedule of Analysis 14
5.5 Quality Assurance/Quality Control Assessment 14
5.6 Decontamination 14
6. Assessment Criteria 15
6.1 Soil Criteria 15
6.2 Soil Vapour Criteria 15
6.3 Groundwater Criteria 15
7. Discussion of Results 16
7.1 Soil Investigation 16
7.1.1 Soil Observations 16
7.1.2 Soil Analytical Results 16
7.2 Groundwater Investigation 17
7.2.1 Groundwater Field Observations 17
7.2.2 Results 17
7.3 Soil Vapour Investigation 18
7.3.1 Field Observations 18
7.3.2 Soil Vapour Analytical Results 18
7.3.3 Volatile Organic Compounds 18
8. Conclusions 19
9. Limitations 21

List of Tables

Table 2.1 Summary Site Details 4
Table 3.1: Aerial Photograph Review 7
Table 3.2: Summary of Historical Site Titles 9
Table 4.1: Areas of Environmental Concern and Associated Contaminants of Potential Concern 10
Table 5.2: Sampling and Analytical Program 14
Table 8.1: Field Measured Groundwater Physicochemical Parameters 17
Table 8.2: Groundwater Field Observations 17

List of Figures

Figure 1 Site Location
Figure 2 Site Layout and Sample Locations

Appendices

Appendix A Summary Tables

Appendix B EPA Records

Appendix C Heritage Records

Appendix D Aerial Photographs

Appendix E Section 10.7 Planning Certificates

Appendix F Title Records

Appendix G Borelogs

Appendix H Field Records

Appendix I Laboratory Reports and Chain of Custody Documentation

Appendix J Photolog

Appendix K Registered Groundwater Bore Information

Abbreviations

Term	Definition
ACM	Asbestos Containing Materials
AEC	Area of Environmental Concern
AHD	Australian Height Datum
AMP	Asbestos Management Plan
ASS	Acid Sulfate Soils
bgs	Below Ground Surface
BTEX	Benzene, Toluene, Ethylbenzene and Xylenes
B(a)P	Benzo(a)pyrene
CLM	Contaminated Land Management
COPC	Contaminant of Potential Concern
CSM	Conceptual Site Model
DECCW	NSW Department of Environment, Climate Change and Water
DQOs	Data Quality Objectives
DSI	Detailed Site Investigation
DWE	NSW Department of Water and Energy
EMP	Environmental Management Plan
EPA	NSW Environment Protection Authority
JBS&G	JBS&G Australia Pty Ltd
LEP	Local Environmental Plan
PSI	Preliminary Site Assessment
PS	Plan of Subdivision
Ha	Hectare
OCPs	Organochlorine Pesticides
OEH	Office of Environment and Heritage
PAHs	Polycyclic Aromatic Hydrocarbons
PCB	Polychlorinated Biphenyls
PFAS	Per- and Poly- Fluoroalkyl Substances
POEO Act	Protection of Environment Operations Act
PSI	Preliminary Site Investigation
RPD	Relative Percentage Difference
TRH	Total Recoverable Hydrocarbons
VOC	Volatile Organic Compounds

Executive Summary

JBS&G Australia Pty Ltd (JBS&G) was engaged by Charter Hall Pty Ltd (Charter Hall, the client) to conduct a Preliminary Site Investigation (PSI) with limited sampling at the property located at 520-530 Gardeners Road, Alexandria NSW (the site). The site is legally identified as Lot 302 in DP 1231238 and comprises an area of approximately 1.8 hectares (ha).

Based on the findings of this preliminary site investigation with limited sampling, and subject to the limitations in **Section 9**, the following summarises the outcomes of the assessment:

- From review of historical site information, it is considered that the site was predominantly used for industrial purposes from at least 1943. British Standard Machinery Co. Limited owned the site in the period from 1938 (eastern portion only before acquiring whole site in 1948) to 1979 in which the company is understood to have manufactured earthmoving equipment. From 1979 to 1991 the site was owned by Allied Mills Industries Pty Limited which is understood to have manufactured and distributed bakery premixes/products. In 1996 South Sydney Central Limited acquired the site and redeveloped it into a single large warehouse structure that operated as 'Bunnings' Hardware store.
- A review of the provided records indicated that no prevention, clean-up or prohibitions notices have been issued under the POEO Act for the site and immediate surroundings. Furthermore, no environment protection licences were identified adjacent to the site. The site, nor the immediate surrounds have been listed on the NSW Government PFAS Investigation program.
- Potential sources of contamination were identified to be predominately limited to:
    - Anthropogenic fill materials of unknown origin used to create existing/current site levels;
    - Former structures (refurbishment/demolition);
    - Historical manufacturing / workshop activities;
    - Storage of general waste and materials (e.g. chemicals, oils, fuels); and
    - Offsite sources (e.g. former industry north and east of the site).
- The intrusive field investigation identified:
    - Fill material at depths ranging from 0.5-1.8 m bgs containing building and demolition wastes including brick and concrete as well as slag and bitumen. It is noted that no asbestos was observed within drilling spoil or identified within samples analysed by the laboratory. However, it is noted that drilling with spiral augers and push tubes is not the preferred method for the assessment of asbestos in soils given the limited volume of materials that can be inspected. On this basis, the extent of asbestos in soil may be more widespread than reported herein, particularly given the presence of building and demolition wastes within fill materials.

      The concentrations of contaminants of concern in analysed samples were below the adopted health based criteria, with the exception of the sum of aldrin and dieldrin (82 mg/kg) in MW4 1.0 m. Given the presence of hardstand across the site, this single exceedance does not pose a risk to current site users. However, should the site be redeveloped to have accessible soils, it will require management / remediation. In addition, should this material require off-site disposal, it will comprise 'Scheduled Waste' and be required to be disposed of in accordance with

the appropriate Chemical Control Order (2004)[1], which will incur greater landfill disposal fees.

It is noted that a range of contaminants, including heavy metals, TRH and bezo(a)pyrene, exceeded the generic commercial / industrial land-use criteria protective of ecological receptors within fill samples. However, as the site is predominantly covered by hardstand, therefore, these exceedances are not considered to pose a risk to ecological receptors;

- The groundwater investigation identified elevated levels of heavy metal (arsenic and nickel) in a number of wells, and benzo(a)pyrene, in MW5 only. However, the elevated concentrations reported in groundwater are considered to be most likely indicative of background concentrations due to historical use of the surrounding area for industrial purposes and not as a result of site related impacts;
- The concentration of VOCs in sub-slab vapour were reported to be below the laboratory LOR or the adopted site assessment criteria, indicating no potential unacceptable health risks to current or future occupants of the commercial warehouse building via vapour intrusion from these constituents.

- On the weight of evidence:
  - The potential for gross or widespread subsurface contamination that would preclude ongoing use of the site in a commercial / industrial capacity, is considered to be low to moderate.
  - However, during the redevelopment of the site, the presence of fill materials of unknown origin will have potential additional cost implications. The potential presence of asbestos (including asbestos and/or chemical based constituents) would incur greater costs during civil earthworks as a consequence of WH&S requirements. There would also be increased landfill disposal fees, particularly with respect to the presence of scheduled wastes, should the fill materials be identified to be unsuitable for retention under an alternate land-use scenario.
  - The redevelopment of the site could result in the requirement for a detailed site investigation (and remedial action plan if required) in order to satisfy planning requirements.

[1] *Chemical Control Order in Relation to Scheduled Chemical Wastes*, Environment Protection Authority NSW, 11 June 2004.

1. Introduction

JBS&G Australia Pty Ltd (JBS&G) was engaged by Charter Hall Pty Ltd (Charter Hall, the client) to conduct a Preliminary Site Investigation (PSI) with limited sampling at the property located at 520-530 Gardeners Road, Alexandria NSW (the site). The site is legally identified as Lot 302 in DP 1231238 and comprises an area of approximately 1.8 hectares (ha).

The land is zoned as IN1 for General Industrial land uses under the Sydney Local Environmental Plan (LEP) 2012. It is understood that Charter Hall is considering potential purchase of the site for proposed redevelopment in line with a commercial/industrial land use scenario. Charter Hall has requested that a PSI report be prepared for due diligence purposes to assist with decision making associated with potential acquisition of the site.

The PSI was conducted and this report was prepared in general accordance with relevant NSW Environment Protection Authority (EPA) issued and endorsed guidelines.

1.1 Objectives

The objectives of the preliminary investigation are to:

- Assess the potential for contamination based on current site conditions and historical site activities;
- Draw preliminary conclusions of the potential contamination status of the site in the context of the proposed commercial/industrial land use; and
- Advise on whether additional assessment is required to assess the potential extent of contamination at the site.

1.2 Scope of Work

The scope of work completed comprised:

- Desktop review of readily available site history and site condition records to identify areas of environmental concern (AECs) and associated contaminants of potential concern (COPCs);
- Review historical aerial photographs, council planning certificates, current and historical land title records, OEH heritage records, EPA notifications, contaminated land records and review licensed groundwater data;
- Completion of a detailed site inspection and limited soil/groundwater and soil vapour sampling;
- Assessment of the potential contamination status of the site in order to inform (where necessary) the requirement for further intrusive investigation or management actions required to address potential risk and extent of identified contamination; and
- Preparation of this PSI report in general accordance with relevant EPA endorsed guidelines.

2. Site Condition and Surrounding Environment

2.1 Site Identification

The site is bounded by Gardeners Road to the south and Bourke Road to the West, in the suburb of Alexandria. The site location is shown on **Figure 1**. The site layout and associated cadastral boundaries and shown on **Figure 2**. The site details are summarised in **Table 2.1** and described in detail in the following sections. Photographs of the site are included in **Appendix J**.

Table 2.1 Summary Site Details

Lot/Plan Number (PS)	Lot 302 in DP1231238
Address	520-530 Gardeners Road, Alexandria, NSW 2020
Local Government Authority	Bayside Council
Approximate MGA Coordinates (MGA 56)	E: 332580, N: 6245300 (centre of the site)
Site Zoning	IN1 General Industrial & SP2 Infrastructure (Sydney Local Environmental Plan 2012)
Current Use	Commercial/Industrial
Previous Use	Commercial/Industrial
Site Area	18,280 m^2

2.2 Site Description

A detailed site inspection was carried out by one of JBS&G's suitably trained and experienced field scientists on 22 January 2020. The following presents a summary of observations made during the site inspection:

- The site comprises a generally flat, large rectangular parcel of land with approximate dimensions of 100 m east–west by 170 m north–south, located on the northern side of Gardeners Road. A large empty warehouse is located in the central portion of the site. The building is of concrete and steel construction with a concrete floor. Bitumen and concrete paved car parking is along the southern, western and south-eastern portions and a concrete delivery/despatch laneway is located along the eastern boundary. The site includes landscaped areas along the southern and western boundaries.
- An above ground water storage tank (**Photograph 1, Appendix J**), with below ground pipes feeding to the building, along with a fire pump room housing a petroleum powered generator (**Photograph 2**), were present in the north eastern portion of the site. An area of former hazardous chemical storage was present near the water storage tank (**Photograph 3**). No dangerous good were sighted during the inspection. A rainwater reuse tank was observed near the south eastern portion of the site (**Photograph 4**).
- The carpark pavement surface was in generally good condition, with some repaired patches observed near the warehouse in the central southern and northern portions of the site (**Photographs 5** and **6**), possibly relating to former maintenance works. The concrete surface inside the warehouse was in good condition with no obvious cracks or areas of maintenance, however, some areas of staining were evident (**Photograph 7**). Concrete along the eastern laneway was also in good order, with some repaired patches observed (**Photograph 8**).
- Stormwater drains and pits extended along all four sides of the site, with no groundwater monitoring wells or underground storage tanks (USTs) observed.
- Adjacent properties appeared to have been recently redevloped and did not appear to have any evident bulk storage areas.
- No visual staining or odours were observed across the carpark surface during the site inspection.

2.3 Surrounding Land-use

Surrounding land-uses at the time of site inspection are described following:

- North: Telecommunications provider (large warehouse), with additional commercial/industrial type buildings further north
- South: Gardeners Road with commercial/industrial and multi-level residential buildings further south
- East: A recently developed warehouse structure, with additional commercial/industrial buildings further east
- West: Bourke Road, with commercial/industrial buildings further west

2.4 Topography

A review of the topographic data accessed from Nearmap[2] indicated that the centre of the site has an approximate elevation of around 18 m above Australian Height Datum (AHD). The site is relatively flat, with the general site and surrounding land sloping gently to the north.

2.5 Geology and Soils

Review of the 1:100 000 Geology map indicated that the site is underlain by medium to fine-grained "marine" sand with podosols. Review of the eSPADE[3] database indicated that a 1.30 m deep soil profile taken on Coward Road, Mascot was classified as Humus Poszol (GSG).

2.6 Hydrology

The site is predominantly covered by concrete and bitumen, with some vegetated areas along the western and southern boundaries. Precipitation is anticipated to discharge directly to local stormwater infrastructure via numerous stormwater drains located on the site. Rainfall may also infiltrate directly into the soils of landscaped areas. During times of heavy rainfall off site migration may occur as surface run-off. It is anticipated that surface water will discharge via the local stormwater system into the Alexandra Canal, located approximately 330 m northwest of the site, and ultimately into the Cooks River.

2.7 Hydrogeology

A review of hydrogeological features presented in **Appendix K** indicated there were no groundwater bores on site. A search of the Department of Environment and Primary Industries' Water Measurement Information System indicated there were 13 registered groundwater boreholes within 500 m of the site**.**

The nearest groundwater bore is 220 m east of the site and is used for industrial purposes. There are no registered bores located between the site and the nearest waterbody where groundwater is anticipated to discharge. Review of groundwater bore reports revealed that nearby bores were used for industrial or monitoring purposes, and groundwater is not expected to be used for consumption.

2.8 Acid Sulfate Soils

Review of Botany Bay Acid Sulfate Soil Risk Map[4] indicates that the site exists on disturbed terrain which may include filled areas, which often occur during reclamation of low-lying swamps for urban development. Other disturbed terrain includes areas which have been mined or dredged or have undergone heavy ground disturbance through general urban development or construction of dams or levees. Soil investigations are required to assess these areas for acid sulfate potential.

[2] Nearmap, http://maps.au.nearmap.com/ accessed 29 Jan 2019.

[3] eSPADE v2, https://www.environment.nsw.gov.au/eSpade2Webapp accessed 29 Jan 2020.

[4] Botany Bay Acid Sulfate Risk Map – Edition Two (9130S3), Department of Land and Conservation of Water. Printed December 1997.

2.9 Meteorology

A review of average climate data for the nearest relevant Bureau of Meteorology monitoring location (Sydney Airport NSW[5]), indicates the site is located within the following meteorological setting:

- Average minimum temperatures vary from 7.3 ^{o}C in July to 19.1 ^{o}C in February;
- Average maximum temperatures vary from 12.2 ^{o}C in July to 26.7 ^{o}C in January;
- The average annual rainfall is approximately 1077.4 mm with rainfall greater than 1 mm occurring on an average of 95.6 days per year; and
- Monthly rainfall varies from 60.0 mm in September to 125.3 mm in June with the wettest periods occurring on average in January to June.

[5] Commonwealth of Australia, Bureau of Meteorology, http://www.bom.gov.au/climate/data/stations, Accessed 29 Jan 2020.

3. Site History

3.1 Office of Environment & Heritage Records

A search of the NSW EPA's public registers was undertaken for the site and is included as **Appendix B**. The search included the following public registers:

- NSW EPA POEO Act public register of licences, applications and notices (maintained under Section 308 of the POEO Act);
- NSW EPA contaminated land public register of record of notices (under Section 58 of the *Contaminated Land Management Act 1997* (CLM Act));
- NSW contaminated sites notified to the EPA (under Section 60 of the CLM Act); and
- NSW EPA Government PFAS Investigation Program.

A review of the provided records indicated that no prevention, clean-up or prohibitions notices have been issued under the POEO Act for the site and immediate surroundings. Furthermore, no environment protection licences were identified adjacent to the site. The site, nor the immediate surrounds have been listed on the NSW Government PFAS Investigation program.

3.2 Australian and NSW Heritage Register

A search of the Australian Heritage database and the NSW Heritage database was undertaken, with records included as **Appendix C**. The review of heritage inventory did not identify any heritage listed items at the site or immediate surrounds.

3.3 Aerial Photographs

Historical aerial photographs dated 1943, 1950, 1961, 1978, 1986, 1998, 2009 and 2019 were reviewed for this assessment (**Appendix D**). The key features with respect to the review of the aerial photographs in relation to the historical use of the site is presented in **Table 3.1**.

Table 3.1: Aerial Photograph Review

Year	Observations
1943	The site contained a large warehouse building in the south-eastern portion of the site. Several smaller structures were present in the south-western and northern portions of the site. It appeared that machinery and unidentified objects, potentially waste, were stored outside the site structures. The majority of the remaining ground surface appears to be cleared and unsealed. The surrounding land-uses to the south, west and east of the site appear consistent with a mixture of residential and industrial land-uses. Gardeners Road and Bourke Street are present to the south and west of the site respectively.
1950	The site appeared to have undergone significant development with the extension of warehouse structures over the central and northern portion of the sites. Additional smaller structures were constructed in the western portion of the site along with multiple stockpiles of unknown materials. What appear to be fill materials, potentially associated with the roadworks extension of Bourke Road, are visible long the north-western boundary of the site. Significant industrial development has occurred in the property to the east of the site, where several large warehouses, and potential stacks/silos were visible.
1961	The site appeared largely consistent with the 1950 aerial photograph. It is noted that a small structure within the western portion of the site was removed along with stockpiled materials in the south-western portion of the site. What appear to be machinery or trucks were visible in the north-western portion of the site. What appears to be further iundustrial development is visible on land to the west.
1978	The site appeared largely consistent with the previous photograph with the notable exception of the storage of cylindrical objects or parked vehicles in the western portion of the site. Silos or similar are visible in the property to the north of the site. Additional land to the west appears to have been developed for commercial/industrial use.
1986	The site appeared largely consistent with the previous aerial photograph with the exception of the ground-surface in western portion of the site which appears to have been paved. Several large cylindrical objects were stored in the western portion of the site. Additional silos or above ground storage tanks are visible in the

	property to the north and east of the site. There appears to have been some additional commercial/industrial development of land to the west and northwest.
1998	The site had been redeveloped with a large warehouse structure visible in the central portion of the site, consistent with the current (2020) site layout. A storage tank is apparent in the north-western corner of the site. Additional smaller structures and potential machinery is present along the eastern boundary. The balance of the site is predominantly covered hardstand and used as a carpark. The surrounding area is largely unchanged from the 1986 aerial photograph.
2009	The site and immediate surrounds appear largely consistent with the 1998 aerial photograph.
2019	The site appears largely consistent with the previous aerial photograph, with the exception of the removal of the garden area along the south-western perimeter of the site for the potential widening of Gardeners Road and Bourke Street. The industrial properties to the north and east of the site were redeveloped with large commercial/warehousebuildings visible.

3.4 Section 10.7 Planning Certificate

Section 10.7 (2) and (5) Planning certificates were obtained for the site from City of Sydney Council (**Appendix E**). Relevant details are summarised below:

- The land is subject to the requirements under Sydney Local Environmental Plan 2012;
- The land is zoned IN1 General Industrial and SP2 Infrastructure;
- The land is not declared as significantly contaminated land within the meaning of the Contaminated Land Management Act 1997 (CLM Act).
- The land has not been identified as a property that comprises, or on which there is, an item that is listed on the State Heritage Register under the Heritage Act 1977;
- Has not been identified as being within an area under the Wilderness Act 1987;
- Has not been identified as land that is within an environmentally sensitive area;
- The land has not been identified as being present within an Acid Sulfate Soils Map as Class 1 or Class 2;
- The land is not affected by Section 15 of the Mine Subsidence Compensation Act 1961 proclaiming land to be a Mine Subsidence District;
- The land is affected by a road widening or road realignment under a planning instrument;
- Has not been identified as land that is subject to a biobanking agreement under part 7A of the threatened Species Conservation Act 1995 or a property vegetation plan under the Native Vegetation Act 2003; and
- The land is not identified by an environmental planning instrument, a development control plan or a policy adopted by the Council as being or affected by a coastline hazard, a coastal hazard or a coastal erosion hazard.

3.5 Historical Title Review

A copy of the historical title's documentation obtained for the site is provided in **Appendix F**. The historical title details are summarised in **Table 3.2**.

Table 3.2: Summary of Historical Site Titles

Date	Owner / Occupation
Western Lot	
28.01.1938 (1938 to 1948)	Metters Limited
26.10.1948 (1948 to 1979)	British Standard Machinery Co. Limited
Eastern Lot	
02.08.1938 (1938 to 1979)	British Standard Machinery Co. Limited
01.11.1979 (1979 to 1991)	Allied Mills Industries Pty Limited Now Goodman Fielder Mills Limited
Whole site area	
07.05.1991 (1991 to 1996)	Goodman Fielder Industries Limited Now GF Finance Limited
11.12.1996 (1996 to date)	# South Sydney Central Limited

3.6 SafeWork NSW Dangerous Goods Records

A search of SafeWork NSW records was not undertaken given the time constraints as per the agreed scope of works.

3.7 Integrity Assessment and Summary of Site History

From review of historical site information, it is considered that the site was predominantly used for industrial purposes from at least 1943. British Standard Machinery Co. Limited (BSMC) owned the site in the period from 1938 (eastern portion only before acquiring whole site in 1948) to 1979. It is understood that BSMC manufactured earthmoving equipment. From 1979 to 1991 the site was owned by Allied Mills Industries Pty Limited, which is understood to have manufactured and distributed bakery premixes/products. In 1996, South Sydney Central Limited acquired the site and redeveloped it with a single large warehouse structure that operated as 'Bunnings' Hardware store.

Based on the range of sources and the general consistency of the historical information along with historical aerial photographs, it is considered that the historical assessment has an acceptable level of accuracy with respect to the potentially contaminating activities historically occurring at the site.

4. Conceptual Site Model (CSM)

4.1 Potential Areas of Environmental Concern

Based on the history review and observations made during the JBS&G inspection of the site, areas of environmental concern have been identified and are presented in **Table 4.1**.

Table 4.1: Areas of Environmental Concern and Associated Contaminants of Potential Concern

Area of Environmental Concern (AEC)	Primary Contaminants of Potential Concern (COPC)
Anthropogenic fill materials of unknown origin used to create existing/current site levels	Total recoverable hydrocarbons (TRH), benzene, toluene, ethylbenzene and xylene (BTEX), polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyl (PCBs), heavy metals, organochlorine pesticides (OCPs) and asbestos
Former structures (refurbishment/demolition)	Asbestos, heavy metals (lead-based paint)
Historical manufacturing / workshop activities	Heavy metals, TRH, BTEX, PAH and VOCs
Storage of general waste and materials (e.g. chemicals, oils, fuels)	Heavy metals, TRH, BTEX, PAH, phenols and VOCs, asbestos
Offsite sources (e.g. former industry north and east of the site)	Heavy metals, TRH, BTEX, PAH and VOC

4.2 Potentially Contaminated Media

Potentially contaminated media present at the site includes:

- Soil (inclusive of fill and natural);
- Groundwater; and
- Soil vapour

There is potential that fill material may have been used at the site associated with site levelling and grading activities, relating to the historical use of the site. In addition, there is evidence that former site structures, with the potential to comprise hazardous building materials, were demolished during redevelopment of the site, in which improper demolition practice may have caused impacts to underlying exposed soils.

Vertical migration of contaminants from surface soil and fill material into underlying natural materials may have occurred, most likely in instances where liquids where stored/spilled on-site. As such natural soils are considered to represent potentially contaminated media. Furthermore, there is the potential for contaminates to vertically migrate and leach from soils into groundwater.

Due to the potential for volatile impacts to be present at the site in soil and groundwater, soil vapour is considered to represent a potentially contaminated medium.

4.3 Potential for Migration from Site

The potential contaminants of concern identified as part of the site history review and site inspection are potentially present in solid form (e.g. heavy metals, asbestos) or liquid form (e.g. fuels/oils, solvents, etc.).

The site is almost entirely sealed by hardstand and building footprints. A such, the potential for windblown dust is considered to be unlikely – unless the hardstand is removed from the site during redevelopment.

The potential for infiltration of water and subsequent migration of contaminants through the soil profile is considered generally to be low, given the extent of the impermeable ground surface and building footprint. Notwithstanding, in instances where liquids were stored/spilled on site, there is the potential that these impacts could have migrated through the soil profile to groundwater.

Contaminant migration via surface water run-off is considered to be a potential migration pathway. Water soluble contaminants present on the concrete surface have a potential to migrate from site to the drainage channel at the southern rear of the site.

Dependent upon concentrations of petroleum hydrocarbon contamination in soil or groundwater, there is the potential for these impacts to occur in vapour within soil underlying the site. Vapour movement in proximity to buildings can be highly influenced by potential advective effects caused by local pressure gradients across the building extent.

4.4 Receptors

Potential receptors of environmental impact within the site which will need to be addressed with respect to potential risks to current and/or future site user include:

- Current and future site users and landowners who may potentially be exposed to COPC;
- Excavation / construction / maintenance workers conducting activities at the site, who may potentially be exposed to COPC through direct contact with impacted soils/groundwater present within excavations and/or inhalation of dusts / fibres associated with impacted soils;
- Flora species to be established on the (limited) vegetated areas of the site; and
- Existing and/or future users/occupants of adjoining properties should contamination be identified to be migrating from the current site. This is anticipated to be limited to potential contaminant migration via windblown dusts / fibres (from limited areas not covered in hardstand) or groundwater.

As the site is predominately sealed by hardstand, it is considered unlikely that users of the site may be directly exposed to possible soil contamination. On this basis, general site users will typically only be exposed to environmental impacts, if present, through inhalation pathways in instances where volatile constituents are present in soil and/or groundwater.

4.5 Preferential Pathways

For the purpose of this assessment, preferential pathways have been identified as natural and/or man-made pathways that result in the preferential migration of COPC as either solid (sediments, dust etc), liquid (surface water and groundwater) or gas.

Man-made preferential pathways are likely present throughout the site, generally associated with areas of previously disturbed natural ground present beneath the existing ground surface and unconsolidated fill materials. Fill materials and disturbed natural soil are anticipated to have a higher permeability than the underlying natural soils and/or bedrock.

5. Sampling Program Methodology

5.1 Soil Sampling Program and Methodology

Soil sample locations are shown on **Figure 2.**

Borehole soil sampling locations were advanced via the use of a drill rig fitted with push-tube and solid flight auger and extended to between 3.0 m and 5.0 m bgs. Soil samples were collected directly from the push-tube liners or auger wearing a new pair of disposable nitrile gloves for each sample. Visual inspection of excavated material was undertaken at each location for the presence of discoloration, ACM, or other indicators of potential contamination. Borelogs are included in **Appendix G.** Soil samples were screened using a calibrated photo-ionization detector (PID) for the presence of volatile compounds.

Non-disposable equipment including the solid flight augers and/or hand tools were cleaned with a water/detergent spray followed by rinsing with potable water, then inspected to ensure no soil, oil, debris or other contaminates remained. This decontamination process was repeated between each sampling location as outlined in **Section 5.6**.

Soil samples were transferred to laboratory supplied jars and bags and were immediately placed in a pre-cooled insulated box for sample preservation prior to and during shipment to the testing laboratory, in accordance with recognised protocols (NEPC 2013[6] Schedule B[3]16) and under JBS&G chain-of-custody protocols.

JBS&G contracted project laboratories which are NATA accredited for the required analyses. The analytical schedule is presented in **Table 5.2**. Selected soil samples were submitted for COPC based on field screening and site observations. Not all samples were analysed. Selected samples were analysed in accordance with the analytical schedule.

5.2 Soil Vapour Sampling Methodology

Twenty-one soil vapour probes were installed across the extent of the site on a grid basis as shown on **Figure 2**. Soil Vapour probes were installed and sampled via the following process:

- The concrete hardstand was cored using a rotary hammer drill fitted with a 16 mm diameter drill bit, through to the underlying soils;
- A stainless-steel vapour pin (85 mm length) with silicon tubing sleeve was then inserted into the 16 mm core hole with a hammer and vapour pin installation tool;
- The sampling point was purged by pumping through a calibrated PID until stabilization occurred;
- Eleven soil vapour locations, generally with the highest VOCs measured using a PID, were selected for collection of samples for laboratory analysis.
- Following purging, a 6.3 L sample of soil vapour was removed from the sub-slab vapour probes at each of the selected ten location using a calibrated low flow air pump over a period of 30 mins (flow rate of 0.21 L/min);
- After 6.3 L soil vapour was drawn through the carbon tube, the pump was switched off and the tube was removed from the sub-slab soil vapour probe, then sealed via application of two end caps and stored at room temperature for transportation to the laboratory; and

[6] National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended 2013). National Environment Protection Council (NEPC 2013)

- At the completion of the sampling, all soil vapour probes were removed from the ground and the sample holes were reinstated with concrete, consistent with the surrounds.

Collected samples were analysed in accordance with the analytical schedule presented in **Table 5.2**. Field records are provided in **Appendix H**.

5.3 Groundwater Sampling Methodology

5.3.1 Monitoring Well Installation

During the fieldworks, five soil boreholes were converted to groundwater monitoring wells and subsequently sampled. Monitoring wells MW1-MW3 were located to the west of the warehouse and the inferred hydraulic downgradient boundary of the site. Monitoring well MW4 was located toward the northern boundary of the site, adjacent to former industrial land at the northern end of the site. Monitoring well MW5 was located at the eastern boundary of the site, inferred to be hydraulically upgradient, adjacent a property historically used for industrial purposes. Monitoring well locations are shown on **Figure 2**.

Boreholes were mechanically advanced to a depth of 5.0 m bgs using a drilling rig fitted with hollow flight augers. Monitoring wells were constructed using Class 18 uPVC (50mm ID) screen and casing. A 3 m screen was used, and gravel filter pack was placed up to and 0.5 m above the screened interval with a 1 m bentonite seal above. The remaining bore annulus was backfilled with soil cuttings and finished off with a road-box, flush mounted with the surrounding concrete hardstand.

Well construction details were recorded on borelogs included as **Appendix G**.

5.3.2 Monitoring Well Development

Once installed monitoring wells were developed by use of a steel bailer to remove any fines, settle the filter pack and ensure representative groundwater samples could be collected. The wells were developed until they were dry or at least 40 litres of water had been removed. The wells were left to settle and, due to time restrictions of the assessment, were subsequently sampled one day following development.

5.3.3 Groundwater Sampling

The measured depths to groundwater in the five monitiroing wells were less than 3 m. On this basis, the wells were sampled with a peristaltic pump using the following method:

- The depth to standing water was gauged and an assessment of the presence of light non-aqueous phase liquids (LNAPL) was made using an oil/waterinterface probe.
- Wells were purged and sampled using a low-flow methodology. Purging was undertaken to ensure the sample collected was representative of groundwater. Field parameters of pH, conductivity, redox and temperature were measured using a field meter with electrodes in a flow cell and samples obtained once the parameters stabilised such that:
    - Consecutive EC readings are within 3 %;
    - Consecutive Eh readings are within 10 mV;
    - Consecutive DO readings are within 10 %; and
    - Consecutive pH readings are within 0.5.
- Collected groundwater samples were immediately transferred to laboratory supplied sample bottles in the order of those for most-volatile to least volatile contaminants. Field filtering using a 0.45 µm filter was undertaken for metals/metalloid samples. The sample containers were then transferred to a chilled iced box for sample preservation prior to and during shipment to the testing laboratory. A chain-of-custody form was completed and forwarded

with the samples. Samples were analysed at a NATA accredited laboratory in accordance with Error! Reference source not found.**Table 5.2**.

- A record of gauging data, sample observations, including colour, odour, presence of light non-aqueous liquid (LNAPL), sheens, and sampling method details was recorded.

Field record sheets are provided in **Appendix H**.

5.4 Laboratory Schedule of Analysis

JBS&G contracted Eurofins Environment Testing (Eurofins) as the primary laboratory and Envirolab Services (Envirolab) as the secondary laboratory. Both laboratories were NATA registered for the required analyses. In addition, the laboratory was required to meet JBS&G's internal QA/QC requirements. The schedule of analysis is presented in **Table 5.2** below.

Table 5.2: Sampling and Analytical Program

Sample Media	No. of Sampling Locations	Analyses (exc. QA/QC)
Soil	9 - Soil sampling locations	Heavy Metals - 13 samples TRHs/BTEX - 13 samples PAHs – 13 samples OCPs/PCBs - 4 samples Asbestos (500 mL) - 13 samples
Soil Vapour	21 locations field gauged – 11 highest submitted to lab	VOCs – 11 samples Isopropanol – 11 samples
Groundwater	5 – Groundwater monitoring wells	Heavy Metals – 5 samples TRHs/BTEX – 5 samples PAHs (low levels) – 5 samples VOCs – 5 samples

5.5 Quality Assurance/Quality Control Assessment

The results of the laboratory and JBS&G's quality assurance/quality control (QA/QC) program has been assessed and it is considered that the analytical data is of an acceptable quality for the purposes of this environmental assessment.

5.6 Decontamination

Prior to the commencement of sampling activities, non-disposable sampling equipment (interface probe and augers) was cleaned with a water/detergent spray and rinsed with potable water. The equipment was then inspected to ensure that no soil, oil, debris or other contaminants were apparent on the equipment prior to the commencement of works. Sampling equipment was subsequently decontaminated using the above process between each sampling location. Decontamination and calibration certificates for field works are provided in **Appendix H**.

New nitrile gloves were utilised for the collection of each soil sample or water from each monitoring well to avoid cross contamination between samples and locations.

6. Assessment Criteria

6.1 Soil Criteria

Based on the proposed on-going use of the site for commercial /industrial purposes, soil data has been compared to published guidelines outlined below and shown in **Table A**:

- Health investigation levels for commercial / industrial land-use (HIL-D) as provided to *National Environment Protection (Assessment of Site Contamination) Measure, 1999 Amendment No 1*, National Environment Protection Council (NEPC 2013);
- Soil health screening levels for vapour intrusion for TRH, BTEX and naphthalene as provided for sand based soils, surface depth and commercial / industrial land-use as provided in NEPC (2013);
- Ecological Investigation Levels (EILs), and Ecological Screening Levels (ESLs), for Commercial/Industrial land use (coarse grained), consistent with NEPC (2013); and
- Aesthetic impacts have been interpreted by on-site observations of indicators of soil staining and/or ACM.

6.2 Soil Vapour Criteria

The adopted soil vapour investigation levels were as follows:

- NEPM (2013) HSL-D for soil vapour (for TRHs): Commercial/Industrial (coarse grained, 0 to <1 m); and
- Interim health investigation levels (HIL-D) for chlorinated hydrocarbons.

Where there are no NEPC or EPA endorsed thresholds for individual COPC reference was made to US EPA Region 9 screening levels (composite worker) for indoor air.

6.3 Groundwater Criteria

Groundwater analytical data for this assessment has been compared against the following groundwater criteria, and are presented in **Table C**:

- 95% protection of species in marine water ecosystems presented in ANZG (2018[7]) or 99% protection levels where it is recommended to account for bioaccumulation for certain compounds, noting that Alexandra Canal, the nearest surface water body, is a tidal marine system;
- NHMRC (2011[8]) thresholds for recreational waters; and
- NEPC (2013) Health Screening Levels (HSL D) for vapour intrusion for Commercial/Industrial land uses for groundwater sources between 2 to <4 m bgs (sand).

Given the commercial / industrial land use setting and presence of reticulated water supply, comparison to the Australian Drinking Water Guidelines criterion was not deemed appropriate. Where there are no endorsed criteria, the laboratory limit of reporting has been adopted.

[7] *Australian and New Zealand Guidelines for Fresh and Marine Water Quality.* Australian and New Zealand and Australian State and Territory Governments (ANZG 2018)

[8] *Guidelines for Managing Risk in Recreation Waters*. Australian Government National Health and Medical Research Council (NHMRC 2011)

7. Discussion of Results

7.1 Soil Investigation

7.1.1 Soil Observations

Field observations as encountered at the site during the intrusive investigation are summarised below. Sample locations are shown on **Figure 2** and a summary of soil analytical data with comparison to the adopted site criteria is presented in **Appendix A.** Bore logs are provided in Error! Reference source not found..

Fill materials were observed at each location at depths ranging from 0.5-1.8 m bgs and comprised the following:

- Silty sand and silty, clayey sands that were generally dark brown with inclusions of building and demolition wastes including brick and concrete as well as slag and bitumen. No asbestos observed within the boreholes;
- The fill material appeared to be generally consistent with the underlying natural sands (described below) potentially indicating the materials were reworked natural materials sourced from site or surrounding properties,noting the presence of building and demolition wastes within the fill materials; and
- No significant odours or staining were observed within soils assessed as part of the investigation.

PID screening results ranged between 0.0 to 13.1 ppm, which indicated a low potential for volatile compounds in the materials sampled.

Natural material onsite was observed to be fine grained sands (grey to brown) to the maximum depth (5 m) of the investigation.

7.1.2 Soil Analytical Results

Detailed laboratory reports and chain of custody documentation are provided in **Appendix I**. Summarised soil laboratory results are presented in **Table A** and discussed in the following sections.

Heavy Metals

Heavy metal concentrations in all analysed samples were reported to be within the adopted health-based criteria applicable to commercial / industrial land-use.

Copper, nickel and zinc were reported to exceed the adopted (generic) criteria protective of ecological receptors in multiple samples. However, it is noted that due to the presence of pavement across most of the site, ecological criteria are not relevant.

PAHs

Concentrations of PAHs were reported to be below the laboratory LOR or below the adopted health-based criteria for all analysed samples.

Benzo(a)pyrene was reported to exceed the adopted (generic) criteria protective of ecological receptors in SB2 1.0 m (3 mg/kg). As noted for metals, due to the presence of pavement across most of the site, ecological criteria are not relevant.

TRH/BTEX

Concentrations of TRHs/BTEX were reported below the LOR or below the adopted health-based criteria and management limits for all analysed samples.

TRH C_{10}-C_{16} and >C_{16}-C_{34} was reported to exceed the adopted (generic) criteria protective of ecological receptors in MW5 0.5 m in which the reported concentrations were 190 mg/kg and 2,200 mg/kg. As discussed above, ecological criteria are considered to not be applicable at the site.

OCPs

With the exception of aldrin + dieldrin (82 mg/kg) in MW4 1.0, which exceeded the applicable health based criterion of 45 mg/kg, concentrations of OCPs were reported below the adopted site criteria for all analysed samples.

PCBs

Concentrations of PCBs were reported below the LOR for all analysed samples.

Asbestos

Concentrations of asbestos were reported below the LOR and therefore below the adopted site criteria for all analysed samples.

7.2 Groundwater Investigation

7.2.1 Groundwater Field Observations

A summary of groundwater conditions encountered during the sampling event is presented in **Table 7.1** and **Table 7.2** below. Groundwater monitoring well locations are shown on **Figure 2**. Field notes are included in **Appendix H**.

Table 8.1: Field Measured Groundwater Physicochemical Parameters

Well Reference	Depth to Groundwater (m below top of casing)	Dissolved Oxygen (mgL/ppm)	Electrical Conductivity (µS/cm)	pH (units)	Oxidation Reduction Potential (mV Ag/AgCl)	Temperature (°C)
MW01	2.52	0.37	494	7.8	-114	23.2
MW02	2.66	0.48	620	7.8	-17	24.6
MW03	2.76	0.19	820	8.1	-190	23.3
MW04	2.43	0.13	739	7.5	-221	26.0
MW05	2.59	0.19	657	7.4	-200	23.9

Table 8.2: Groundwater Field Observations

Well Reference	Odour	Sheen	Turbidity	Colour
MW01	Slight sulfur odour	No sheen	Moderate	Pale Brown
MW02	Slight sulfur odour	No sheen	Moderate	Pale Brown
MW03	Slight sulfur odour	No sheen	Moderate	Pale Brown
MW04	Slight sulfur odour	No sheen	Moderate	Pale brown
MW05	Slight sulfur odour	No sheen	Moderate	Pale brown

From review of the data in **Table 8.1**, groundwater is considered to be fresh, mildly alkaline and under reducing conditions.

7.2.2 Results

Detailed laboratory reports and chain of custody documentation are provided in **Appendix I.** Summarised groundwater analytical results are presented in **Table B** and discussed in the following sections.

Heavy Metals

All reported concentrations of heavy metals in groundwater were below the adopted site criteria with the exception of the following:

- Arsenic in most samples with concentrations in the range of 0.006 mg/L (MW2) to 0.072 mg/L (MW1) and exceeded the criterion protective of recreational exposures (0.01 mg/L) and the recommended 95% species protection (fresh) criterion (0.013 mg/L); and

  Nickel in MW3 (0.028 mg/L) which exceeded the recreational exposure criterion of 0.02 mg/L.

Based on the historical surrounding industrial land-use, the metals concentrations in groundwater are considered to be indicative of background concentrations.

TRH/BTEX

All reported concentrations of TRH and BTEX were below the laboratory LOR and below the adopted criteria.

Volatile Organic Compounds

All reported concentrations of VOCs were below the laboratory LOR and below adopted criteria.

Polycyclic Aromatic Hydrocarbons

All reported concentrations of PAHs were below the adopted site assessment criteria with the exception of benzo(a)pyrene in MW5 (0.00002 mg/L) which marginally exceeded the adopted criterion protective of recreational exposures (0.00001 mg/L) and the recommended 99% species protection criterion (0.00001 mg/L).

7.3 Soil Vapour Investigation

7.3.1 Field Observations

Sample locations are shown on **Figure 2** and field records are provided in **Appendix H**.

Each probe was purged with a PID for a period of approximately 2 minutes prior to sampling. No significant odours were observed from purged air below the slab. PID readings during vapour purging ranged from 0.0 to 9.6 ppm. The 11 locations with elevated PID readings were subsequently sampled.

7.3.2 Soil Vapour Analytical Results

Detailed laboratory reports and chain of custody documentation are provided in **Appendix I**. Summarised soil vapour analytical results are presented in **Table C** and discussed in the following sections.

7.3.3 Volatile Organic Compounds

All reported concentrations of VOCs were below the laboratory LOR or the adopted site assessment criteria.

8. Conclusions

Based on the findings of this preliminary site investigation with limited sampling, and subject to the limitations in **Section 9**, the following summarises the outcomes of the assessment:

- From review of historical site information, it is considered that the site was predominantly used for industrial purposes from at least 1943. British Standard Machinery Co. Limited owned the site in the period from 1938 (eastern portion only before acquiring whole site in 1948) to 1979 in which the company is understood to have manufactured earthmoving equipment. From 1979 to 1991 the site was owned by Allied Mills Industries Pty Limited which is understood to have manufactured and distributed bakery premixes/products. In 1996 South Sydney Central Limited acquired the site and redeveloped it into a single large warehouse structure that operated as 'Bunnings' Hardware store.
- A review of the provided records indicated that no prevention, clean-up or prohibitions notices have been issued under the POEO Act for the site and immediate surroundings. Furthermore, no environment protection licences were identified adjacent to the site. The site, nor the immediate surrounds have been listed on the NSW Government PFAS Investigation program.
- Potential sources of contamination were identified to be predominately limited to:
    - Anthropogenic fill materials of unknown origin used to create existing/current site levels;
    - Former structures (refurbishment/demolition);
    - Historical manufacturing / workshop activities;
    - Storage of general waste and materials (e.g. chemicals, oils, fuels); and
    - Offsite sources (e.g. former industry north and east of the site).
- The intrusive field investigation identified:
    - Fill material at depths ranging from 0.5-1.8 m bgs containing building and demolition wastes including brick and concrete as well as slag and bitumen. It is noted that no asbestos was observed within drilling spoil or identified within samples analysed by the laboratory. However, it is noted that drilling with spiral augers and push tubes is not the preferred method for the assessment of asbestos in soils given the limited volume of materials that can be inspected. On this basis, the extent of asbestos in soil may be more widespread than reported herein, particularly given the presence of building and demolition wastes within fill materials.

      The concentrations of contaminants of concern in analysed samples were below the adopted health based criteria, with the exception of the sum of aldrin and dieldrin (82 mg/kg) in MW4 1.0 m. Given the presence of hardstand across the site, this single exceedance does not pose a risk to current site users. However, should the site be redeveloped to have accessible soils, it will require management / remediation. In addition, should this material require off-site disposal, it will comprise 'Scheduled Waste' and be required to be disposed of in accordance with the appropriate Chemical Control Order (2004)[9], which will incur greater landfill disposal fees.

[9] *Chemical Control Order in Relation to Scheduled Chemical Wastes*, Environment Protection Authority NSW, 11 June 2004.

It is noted that a range of contaminants, including heavy metals, TRH and bezo(a)pyrene, exceeded the generic commercial / industrial land-use criteria protective of ecological receptors within fill samples. However, as the site is predominantly covered by hardstand, therefore, these exceedances are not considered to pose a risk to ecological receptors;

- The groundwater investigation identified elevated levels of heavy metal (arsenic and nickel) in a number of wells, and benzo(a)pyrene, in MW5 only. However, the elevated concentrations reported in groundwater are considered to be most likely indicative of background concentrations due to historical use of the surrounding area for industrial purposes and not as a result of site related impacts;
- The concentration of VOCs in sub-slab vapour were reported to be below the laboratory LOR or the adopted site assessment criteria, indicating no potential unacceptable health risks to current or future occupants of the commercial warehouse building via vapour intrusion from these constituents.

- On the weight of evidence:
  - The potential for gross or widespread subsurface contamination that would preclude ongoing use of the site in a commercial / industrial capacity, is considered to be low to moderate.
  - However, during the redevelopment of the site, the presence of fill materials of unknown origin will have potential additional cost implications. The potential presence of asbestos (including asbestos and/or chemical based constituents) would incur greater costs during civil earthworks as a consequence of WH&S requirements. There would also be increased landfill disposal fees, particularly with respect to the presence of scheduled wastes, should the fill materials be identified to be unsuitable for retention under an alternate land-use scenario.
  - The redevelopment of the site could result in the requirement for a detailed site investigation (and remedial action plan if required) in order to satisfy planning requirements.

9. 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 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.

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 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, who should make their own enquiries.

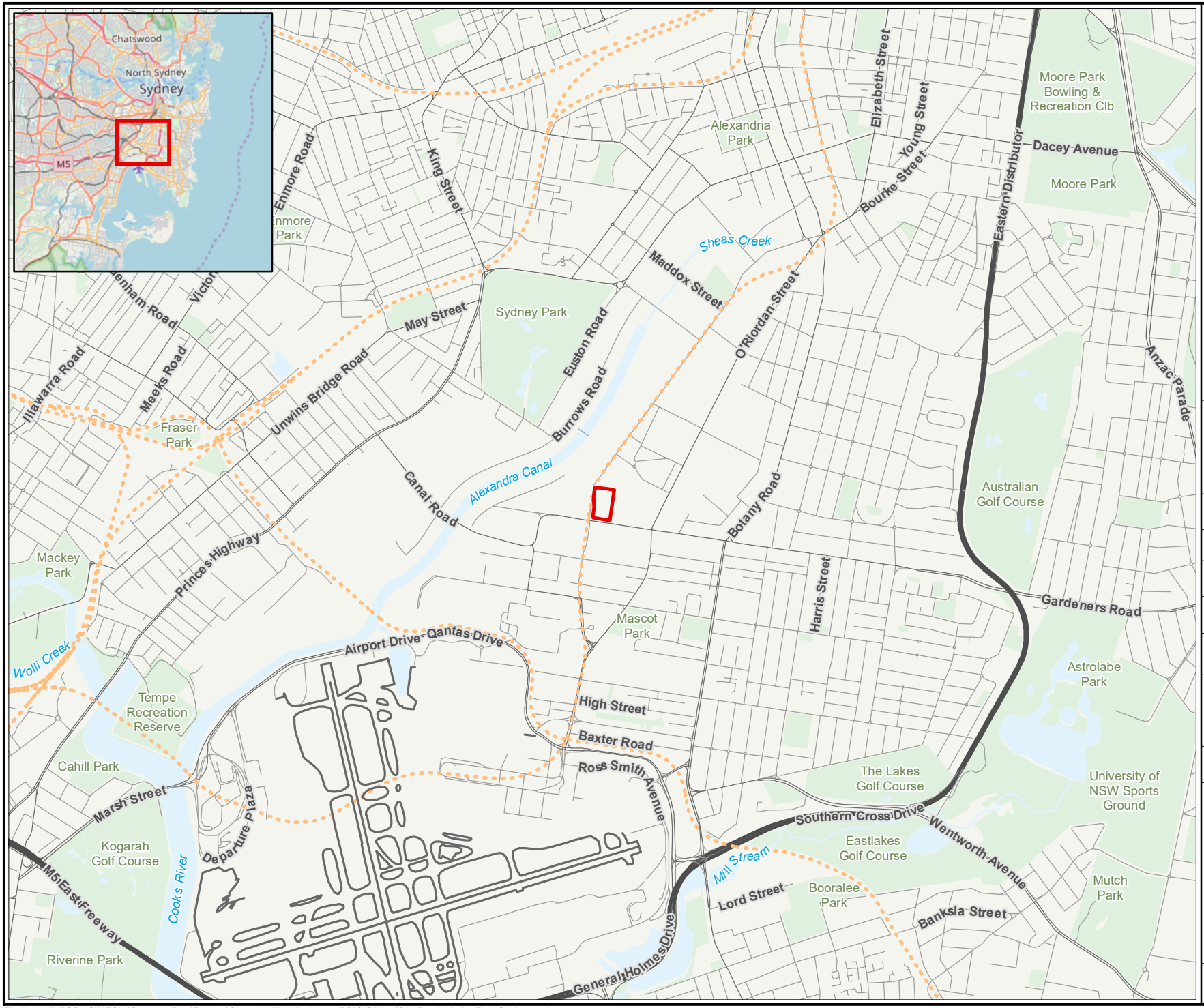
Sampling and chemical analysis of environmental media is based on appropriate guidance documents made and approved by the relevant regulatory authorities. Conclusions arising from the review and assessment of environmental data are based on the sampling and analysis considered appropriate based on the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

Limited sampling and laboratory analyses were undertaken as part of the investigations undertaken, as described herein. Ground 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 subsurface conditions may occur subsequent to the investigations described herein, through natural processes or through the intentional or accidental addition of contaminants. The conclusions and recommendations reached in this report are based on the information obtained at the time of the investigations.

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

Figures



Legend

- Approximate Site Boundary
- Train Line
- Motorway
- Primary Road
- Local Road
- Airfields and runways
- Waterway
- Waterbody area
- Parks and reserves

JBS&G

Job No: 58167	
Client: Charter Hall	
Version: R01 Rev A	Date 30/01/2020
Drawn By: JZ	Checked By: CB
Scale 1:30,000	

0 300 600
metres

Coord. Sys. GDA 1994 MGA Zone 56

520-530 Gardeners Rd, Alexandria NSW 2015

SITE LOCATION

FIGURE 1

File Name: \\JBSG-NSW-FS01\Company Data\Projects\Charter Hall\58167 Mascot DD\GIS\Maps\R01 Rev A\58167_Fig1_SiteLoc.mxd
Reference: NSW DFSI, 2019



Legend:

- Approximate Site Boundary

Sample Locations

- Monitoring Well
- Soil Bore
- Sub-Slab Vapour Location

JBS&G

Job No: 58167	
Client: Charter Hall	
Version: R01 Rev A	Date 30/01/2020
Drawn By: JZ	Checked By: CB
Scale 1:1,500	

0 25 50
metres

Coord. Sys. GDA 1994 MGA Zone 56

520-530 Gardeners Rd, Alexandria NSW 2015

SITE LAYOUT AND SAMPLE LOCATIONS

FIGURE 2

File Name: \\JBSG-NSW-FS01\Company Data\Projects\Charter Hall\58167 Mascot DD\GIS\Maps\R01 Rev A\58167_Fig2_SiteLayAndSampleLocs.mxd
Reference: www.nearmap.com - Imagery: 22/10/2019

Appendix A Summary Tables

Table A - Soil
Project Number: 58167
Project Name: Mascot DD

	Metals & Metalloids								TPHs (NEPC 1999)					TRHs (NEPC 2013)							BTEXN						
	Arsenic (Total)	Cadmium	Chromium (Total)	Copper	Lead	Mercury (Inorganic)	Nickel	Zinc	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Total)	>C10-C16 Fraction	>C16-C34 Fraction	>C34-C40 Fraction	>C10-C40 Fraction (Total)	>C10-C16 less Naphthalene (F2)	C6-C10 Fraction	C6-C10 less BTEX (F1)	Benzene	Ethylbenzene	Toluene	Xylene (o)	Xylene (m & p)	Xylene (Total)	Naphthalene
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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	50	100	100	100	50	20	20	0.1	0.1	0.1	0.1	0.2	0.3	0.5
NEPM 2013 EIL - Commercial Industrial (generic)	160		310[#1]	85[#2]	1800		55[#3]	110[#4]																			370
NEPM 2013 ESL Commercial and Industrial, Coarse Soil															1700[#5]	3300[#5]		170[#6]		215[#6]	75[#5]	165[#5]	135[#5]			180[#5]	
NEPM 2013 HSL Asbestos in Soil - Bonded ACM - Commercial/Industrial - HSL D																											
NEPM 2013 HSL Asbestos in Soil - FA & AF - HSL																											
NEPM 2013 Mgnt Limits - Commercial and Industrial, Coarse														1000[#9]	3500	10000			700[#10]								
NEPM 2013 Soil HIL D	3000[#11]	900	3600[#12]	240000	1500[#13]	730[#14]	6000	400000																			
NEPM 2013 Soil HSL D for Vapour Intrusion - Sand 0 to <1m																		NL		260[#19]	3	NL	NL			230	NL
Sample ID	**Sample Date**	**Lab Report/Primary**	**Sample Code**																									
MW1_0.2	24/01/2020	698725	S20-Ja26295	5.3	<0.4	15	22	29	0.2	12	110	<20	<20	99	170	269	<50	220	160	380	<50	<20	<20	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
QA01	24/01/2020	MW1_0.2	S20-Ja26698	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW1_1.0	24/01/2020	698725	S20-Ja26296	44	0.8	91	100	380	<0.1	130	480	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5
MW1_4.0	24/01/2020	698725	S20-Ja26532	12	<0.4	200	45	25	<0.1	66	34	<20	<20	<50	54	54	<50	<100	<100	<100	<50	<20	<20	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
MW2_0.5	24/01/2020	698725	S20-Ja26278	5.5	<0.4	7	6	18	<0.1	<5	38	<20	<20	<50	<50	<50	<50	<100	<100	<100	<50	<20	<20	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
QA03	24/01/2020	MW2_0.5	S20-Ja26697	9.4	<0.4	11	21	33	<0.1	9.9	63	<20	<20	<50	<50	<50	<50	<100	<100	<100	<50	<20	<20	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
QC03	24/01/2020	235527-1-MW2_0.5	234427	7	<0.4	10	23	30	0.1	11	84	<20	<20	<50	<50	<50	<50	<100	<100	<100	<50	<20	<20	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
MW2_2.0	24/01/2020	698725	S20-Ja26279	<2	<0.4	<5	<5	<5	<0.1	<5	<5	<20	<20	<50	<50	<50	<50	<100	<100	<100	<50	<20	<20	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
MW3_0.2	24/01/2020	698725	S20-Ja26280	7.2	<0.4	10	14	43	<0.1	12	72	<20	<20	<50	<50	<50	<50	<100	<100	<100	<50	<20	<20	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
MW3_3.0	24/01/2020	698725	S20-Ja26281	<2	<0.4	<5	7.1	<5	<0.1	6.7	8.5	<20	<20	<50	<50	<50	<50	<100	<100	<100	<50	<20	<20	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
MW4_1.0	24/01/2020	698725	S20-Ja26282	3.7	0.4	29	100	1500	0.1	33	300	<20	<20	250	470	720	<50	630	230	860	<50	<20	<20	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
MW5_0.2	24/01/2020	698725	S20-Ja26686	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW5_0.5	24/01/2020	698725	S20-Ja26294	4.5	<0.4	13	79	220	<0.1	10	91	<20	80	1600	1000	2680	190	2200	360	2750	190	<20	<20	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
SB1_0.2	24/01/2020	698725	S20-Ja26283	3.6	<0.4	14	28	37	0.1	9.5	58	<20	<20	220	410	630	<50	500	340	840	<50	<20	<20	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
SB1_0.5	24/01/2020	698725	S20-Ja26284	5.5	<0.4	20	52	69	<0.1	16	95	<20	40	380	380	800	69	590	370	1029	69	<20	<20	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
SB2_0.2	24/01/2020	698725	S20-Ja26285	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SB2_0.5	24/01/2020	698725	S20-Ja26286	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SB2_1.0	24/01/2020	698725	S20-Ja26287	6	0.4	20	270	720	0.1	29	200	<20	46	610	420	1076	100	850	240	1190	100	<20	<20	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
SB3_0.2	24/01/2020	698725	S20-Ja26288	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SB3_0.5	24/01/2020	698725	S20-Ja26289	4	<0.4	11	19	230	<0.1	<5	340	<20	<20	130	150	280	<50	220	120	340	<50	<20	<20	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5
SB4_0.2	24/01/2020	698725	S20-Ja26290	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SB4_0.5	24/01/2020	698725	S20-Ja26696	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SB4_1.0	24/01/2020	698725	S20-Ja26291	14	<0.4	5.2	7.2	17	<0.1	<5	51	<20	<20	150	63	213	<50	180	<100	180	<50	<20	<20	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<0.5

Table A - Soil
Project Number: 58167
Project Name: Mascot DD

				Polycyclic Aromatic Hydrocarbons																		Organochlorine Pesticides																							
				Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b,j)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Carcinogenic PAHs as B(a)P TEQ	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Phenanthrene	PAHs (Total)	Pyrene	4,4-DDE	Aldrin	Aldrin + Dieldrin (Sum of Total)	alpha-BHC	beta-BHC	Chlordane	DDD	DDT	Dieldrin	DDT+DDE+DDD (Sum of Total)	delta-BHC	Endosulfan alpha	Endosulfan beta	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor Epoxide	Lindane	Methoxychlor	Toxaphene
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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	0.05	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	0.05	0.05	0.2	1
NEPM 2013 EIL - Commercial Industrial (generic)																											640																
NEPM 2013 ESL Commercial and Industrial, Coarse Soil								1.4[#5]																																			
NEPM 2013 HSL Asbestos in Soil - Bonded ACM - Commercial/Industrial - HSL D																																										
NEPM 2013 HSL Asbestos in Soil - FA & AF - HSL																																										
NEPM 2013 Mgnt Limits - Commercial and Industrial, Coarse																																										
NEPM 2013 Soil HIL D													40[#15]					4000[#16]				45			530				3600						100			50			2500	160
NEPM 2013 Soil HSL D for Vapour Intrusion - Sand 0 to <1m																																										
Sample ID	**Sample Date**	**Lab Report/Primary**	**Sample Code**																																								
MW1_0.2	24/01/2020	698725	S20-Ja26295	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.21[#5]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA01	24/01/2020	MW1_0.2	S20-Ja26698	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW1_1.0	24/01/2020	698725	S20-Ja26296	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.21[#5]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW1_4.0	24/01/2020	698725	S20-Ja26532	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.21[#5]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW2_0.5	24/01/2020	698725	S20-Ja26278	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.21[#5]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<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	<0.05	<0.05	<0.05	<0.05	<0.2	<1
QA03	24/01/2020	MW2_0.5	S20-Ja26697	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.21#5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<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	<1	<0.05	<0.05	<0.05	<0.05	<0.2	<1
QC03	24/01/2020	235527-1-MW2_0.5	234427	<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	0.1	0.4	0.1	<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	<2	<0.05	<0.05	<0.05	<0.05	<0.2	<2
MW2_2.0	24/01/2020	698725	S20-Ja26279	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.21[#5]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW3_0.2	24/01/2020	698725	S20-Ja26280	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.21[#5]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW3_3.0	24/01/2020	698725	S20-Ja26281	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.21[#5]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW4_1.0	24/01/2020	698725	S20-Ja26282	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.21[#5]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	28	82	<0.05	<0.05	<0.1	<0.05	<0.05	54	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.05	<0.05	<0.05	<0.05	<0.2	<1
MW5_0.2	24/01/2020	698725	S20-Ja26686	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW5_0.5	24/01/2020	698725	S20-Ja26294	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.21[#5]	<0.5	<0.5	<0.5	0.7	0.7	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SB1_0.2	24/01/2020	698725	S20-Ja26283	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.21[#5]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	<0.05	0.13	<0.05	<0.05	<0.1	<0.05	<0.05	0.13	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<1	<0.05	<0.05	<0.05	<0.05	<0.2	<1
SB1_0.5	24/01/2020	698725	S20-Ja26284	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.21[#5]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SB2_0.2	24/01/2020	698725	S20-Ja26285	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SB2_0.5	24/01/2020	698725	S20-Ja26286	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SB2_1.0	24/01/2020	698725	S20-Ja26287	<0.5	<0.5	<0.5	2.6	3	2.1	0.9	3.1	2.4	<0.5	4.243[#2]	5	<0.5	1.8	2.1	28.5	5.5	<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	<1	<0.05	<0.05	<0.05	<0.05	<0.2	<1
SB3_0.2	24/01/2020	698725	S20-Ja26288	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SB3_0.5	24/01/2020	698725	S20-Ja26289	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.21[#5]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SB4_0.2	24/01/2020	698725	S20-Ja26290	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SB4_0.5	24/01/2020	698725	S20-Ja26696	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SB4_1.0	24/01/2020	698725	S20-Ja26291	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.21[#5]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table A - Soil
Project Number: 58167
Project Name: Mascot DD

	Polychlorinated Biphenyls								Chlorinated Benzenes	Asbestos		
	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	PCBs (Total)	Hexachlorobenzene	Approx. Sample Mass	Asbestos from ACM in Soil	Asbestos from FA & AF in Soil
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	g	%w/w	%w/w
EQL	0.5	0.1	0.5	0.5	0.5	0.5	0.5	0.5	0.05			
NEPM 2013 EIL - Commercial Industrial (generic)												
NEPM 2013 ESL Commercial and Industrial, Coarse Soil												
NEPM 2013 HSL Asbestos in Soil - Bonded ACM - Commercial/Industrial - HSL D											0.05[#7]	
NEPM 2013 HSL Asbestos in Soil - FA & AF - HSL												0.001[#8]
NEPM 2013 Mgnt Limits - Commercial and Industrial, Coarse												
NEPM 2013 Soil HIL D								7[#17]	80			
NEPM 2013 Soil HSL D for Vapour Intrusion - Sand 0 to <1m												
Sample ID	**Sample Date**	**Lab Report/Primary**	**Sample Code**									
MW1_0.2	24/01/2020	698725	S20-Ja26295	-	-	-	-	-	-	-	-	681	0	0
QA01	24/01/2020	MW1_0.2	S20-Ja26698	-	-	-	-	-	-	-	-	676	0	0
MW1_1.0	24/01/2020	698725	S20-Ja26296	-	-	-	-	-	-	-	-	-	-	-
MW1_4.0	24/01/2020	698725	S20-Ja26532	-	-	-	-	-	-	-	-	-	-	-
MW2_0.5	24/01/2020	698725	S20-Ja26278	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	485	0	0
QA03	24/01/2020	MW2_0.5	S20-Ja26697	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	-	-	-
QC03	24/01/2020	235527-1-MW2_0.5	234427	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	639	0	0
MW2_2.0	24/01/2020	698725	S20-Ja26279	-	-	-	-	-	-	-	-	-	-	-	-
MW3_0.2	24/01/2020	698725	S20-Ja26280	-	-	-	-	-	-	-	-	-	783	0	0
MW3_3.0	24/01/2020	698725	S20-Ja26281	-	-	-	-	-	-	-	-	-	-	-	-
MW4_1.0	24/01/2020	698725	S20-Ja26282	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	393	0	0
MW5_0.2	24/01/2020	698725	S20-Ja26686	-	-	-	-	-	-	-	-	-	813	0	0
MW5_0.5	24/01/2020	698725	S20-Ja26294	-	-	-	-	-	-	-	-	-	-	-	-
SB1_0.2	24/01/2020	698725	S20-Ja26283	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	676	0	0
SB1_0.5	24/01/2020	698725	S20-Ja26284	-	-	-	-	-	-	-	-	-	730	0	0
SB2_0.2	24/01/2020	698725	S20-Ja26285	-	-	-	-	-	-	-	-	-	675	0	0
SB2_0.5	24/01/2020	698725	S20-Ja26286	-	-	-	-	-	-	-	-	-	446	0	0
SB2_1.0	24/01/2020	698725	S20-Ja26287	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	-	-	-
SB3_0.2	24/01/2020	698725	S20-Ja26288	-	-	-	-	-	-	-	-	-	552	0	0
SB3_0.5	24/01/2020	698725	S20-Ja26289	-	-	-	-	-	-	-	-	-	565	0	0
SB4_0.2	24/01/2020	698725	S20-Ja26290	-	-	-	-	-	-	-	-	-	627	0	0
SB4_0.5	24/01/2020	698725	S20-Ja26696	-	-	-	-	-	-	-	-	-	562	0	0
SB4_1.0	24/01/2020	698725	S20-Ja26291	-	-	-	-	-	-	-	-	-	-	-	-

Tbale B - Groundwater
Project Number: 58167
Project Name: Mascot DD

	Metals & Metalloids								TRHs (NEPC 2013)							BTEXN						
	Arsenic (Total) (Filtered)	Cadmium (Filtered)	Chromium (Total) (Filtered)	Copper (Filtered)	Lead (Filtered)	Mercury (Inorganic) (Filtered)	Nickel (Filtered)	Zinc (Filtered)	>C10-C16 Fraction	>C16-C34 Fraction	>C34-C40 Fraction	>C10-C40 Fraction (Total)	>C10-C16 less Naphthalene (F2)	C6-C10 Fraction	C6-C10 less BTEX (F1)	Benzene	Ethylbenzene	Toluene	Xylene (o)	Xylene (m & p)	Xylene (Total)	Naphthalene
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	0.001	0.0001	0.001	0.001	0.001	0.00005	0.001	0.001	0.05	0.1	0.1	0.1	0.05	0.01	0.01	0.001	0.001	0.001	0.001	0.002	0.003	0.00001
ANZG 2018 Water Quality Guidelines (Marine Water) 99% level of Protection (only applied where recommended to account for bioaccumulation)		0.0007		0.0003	0.0022	0.0001	0.007	0.007								0.7						0.07
ANZG 2018 Water Quality Guidelines (Marine Water) 95% level of Protection	0.013*(fresh)	0.0055		0.0013	0.0044	0.0004	0.07	0.015								0.5						0.05
NEPM 2013 Groundwater HSL D for Vapour Intrusion - Sand 2 to <4m													NL		6[#3]	5	NL	NL			NL	NL
NHMRC 2011 (as amended August 2018) - Health	0.01	0.002		2	0.01	0.001	0.02									0.001	0.3	0.8			0.6	

Sample ID	Sample Date	Lab Report/Primary	Sample Code																				
MW1	25/01/2020	698721	S20-Ja26115	0.038	<0.0002	0.001	<0.001	<0.001	0.0001	0.001	<0.005	<0.05	<0.1	<0.1	<0.1	<0.05	<0.02	<0.02	<0.001	<0.001	<0.001	<0.001	<0.002	<0.003	<0.00001
QA	25/01/2020	MW1	S20-Ja26120	0.038	<0.0002	0.001	<0.001	<0.001	<0.0001	0.001	<0.005	<0.05	<0.1	<0.1	<0.1	<0.05	<0.02	<0.02	<0.001	<0.001	<0.001	<0.001	<0.002	<0.003	<0.00001
QC	25/01/2020	MW1	235361-1	0.072	<0.0001	0.002	<0.001	<0.001	<0.00005	0.001	<0.001	<0.05	<0.1	<0.1	-	<0.05	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.002	-	<0.0002
MW2	25/01/2020	698721	S20-Ja26116	0.006	<0.0002	<0.001	<0.001	<0.001	<0.0001	0.004	0.008	<0.05	<0.1	<0.1	<0.1	<0.05	<0.02	<0.02	<0.001	<0.001	<0.001	<0.001	<0.002	<0.003	<0.00001
MW3	25/01/2020	698721	S20-Ja26117	0.011	<0.0002	0.001	<0.001	<0.001	<0.0001	0.028	<0.005	<0.05	<0.1	<0.1	<0.1	<0.05	<0.02	<0.02	<0.001	<0.001	<0.001	<0.001	<0.002	<0.003	<0.00001
MW4	25/01/2020	698721	S20-Ja26118	0.018	<0.0002	<0.001	<0.001	<0.001	<0.0001	0.013	<0.005	<0.05	<0.1	<0.1	<0.1	<0.05	<0.02	<0.02	<0.001	<0.001	<0.001	<0.001	<0.002	<0.003	<0.00001
MW5	25/01/2020	698721	S20-Ja26119	0.011	<0.0002	<0.001	<0.001	<0.001	<0.0001	0.004	<0.005	<0.05	<0.1	<0.1	<0.1	<0.05	<0.02	<0.02	<0.001	<0.001	<0.001	<0.001	<0.002	<0.003	<0.01 - 0.00004

Tbale B - Groundwater
Project Number: 58167
Project Name: Mascot DD

	Polycyclic Aromatic Hydrocarbons															
	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	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	Phenanthrene	PAHs (Total)	Pyrene
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001
ANZG 2018 Water Quality Guidelines (Marine Water) 99% level of Protection (only applied where recommended to account for bioaccumulation)					0.0001											
ANZG 2018 Water Quality Guidelines (Marine Water) 95% level of Protection					0.0002											
NEPM 2013 Groundwater HSL D for Vapour Intrusion - Sand 2 to <4m																
NHMRC 2011 (as amended August 2018) - Health					0.00001											

Sample ID	Sample Date	Lab Report/Primary	Sample Code														
MW1	25/01/2020	698721	S20-Ja26115	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
QA	25/01/2020	MW1	S20-Ja26120	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
QC	25/01/2020	MW1	235361-1	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	-	<0.0001	-	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	-	<0.0001
MW2	25/01/2020	698721	S20-Ja26116	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
MW3	25/01/2020	698721	S20-Ja26117	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
MW4	25/01/2020	698721	S20-Ja26118	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
MW5	25/01/2020	698721	S20-Ja26119	0.00004	<0.00001	0.00001	0.00003	0.00002	0.00001	<0.00001	0.00002	0.00002	<0.00001	0.00005	0.00002	<0.00001	0.00006	0.00037	0.00005

Tbale B - Groundwater
Project Number: 58167
Project Name: Mascot DD

	Chlorinated Alkanes																		Chlorinated Alkenes											Solvents
	1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,2,3-trichloropropane	1,2-dibromo-3-chloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	2,2-dichloropropane	Bromochloromethane	Carbon tetrachloride	Chloroethane	Chloromethane	Dichlorodifluoromethane	Dichloromethane	Trichlorofluoromethane	1,1-dichloroethene	1,1-dichloropropene	2-chlorotoluene	3-chloropropene	4-chlorotoluene	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Trichloroethene	Vinyl Chloride	2-Propanone (Acetone)
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µg/L
EQL	0.001	0.001	0.001	0.001	0.001	0.001		0.001	0.001	0.001		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001			0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	1
ANZG 2018 Water Quality Guidelines (Marine Water) 99% level of Protection (only applied where recommended to account for bioaccumulation)				1.9																											
ANZG 2018 Water Quality Guidelines (Marine Water) 95% level of Protection				0.14																											
NEPM 2013 Groundwater HSL D for Vapour Intrusion - Sand 2 to <4m																															
NHMRC 2011 (as amended August 2018) - Health								0.003					0.003				0.004		0.03							0.05				0.0003	

Sample ID	Sample Date	Lab Report/Primary	Sample Code																												
MW1	25/01/2020	698721	S20-Ja26115	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<1
QA	25/01/2020	MW1	S20-Ja26120	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<1
QC	25/01/2020	MW1	235361-1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01	<0.01	<0.01	-	<0.01	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01	-
MW2	25/01/2020	698721	S20-Ja26116	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<1
MW3	25/01/2020	698721	S20-Ja26117	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	-	<0.001	<0.001	0.004	<0.001	<0.001	<0.001	<0.001	<0.001	<1
MW4	25/01/2020	698721	S20-Ja26118	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<1
MW5	25/01/2020	698721	S20-Ja26119	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<1

Tbale B - Groundwater
Project Number: 58167
Project Name: Mascot DD

	Monocyclic Aromatic Hydrocarbons										Miscellaneous Hydrocarbons							Chlorinated Benzenes						Trihalomethanes				Organic Sulfur Compounds
	1,2,4-trimethyl benzene	1,3,5-trimethyl benzene	4-isopropyl toluene	Bromobenzene	Isopropylbenzene	n-butyl benzene	n-propyl benzene	sec-butyl benzene	Styrene	Tert-butyl benzene	1,2-dibromoethane	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Bromomethane	Cyclohexane	Dibromomethane	Iodomethane	1,2,3-trichlorobenzene	1,2,4-trichlorobenzene	1,2-Dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Chlorobenzene	Bromodichloromethane	Chloroform	Dibromochloromethane	Tribromomethane	Carbon disulfide
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL	0.001	0.001		0.001	0.001				0.001		0.001	0.001	0.001	0.001		0.001	0.001			0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
ANZG 2018 Water Quality Guidelines (Marine Water) 99% level of Protection (only applied where recommended to account for bioaccumulation)																		0.0001	0.02									
ANZG 2018 Water Quality Guidelines (Marine Water) 95% level of Protection																		0.0002	0.08									
NEPM 2013 Groundwater HSL D for Vapour Intrusion - Sand 2 to <4m																												
NHMRC 2011 (as amended August 2018) - Health									0.03		0.001			0.001						1.5		0.04	0.3					

Sample ID	Sample Date	Lab Report/Primary	Sample Code																										
MW1	25/01/2020	698721	S20-Ja26115	<0.001	<0.001	-	<0.001	<0.001	-	-	-	<0.001	-	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
QA	25/01/2020	MW1	S20-Ja26120	<0.001	<0.001	-	<0.001	<0.001	-	-	-	<0.001	-	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
QC	25/01/2020	MW1	235361-1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	-	<0.01	<0.001	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-
MW2	25/01/2020	698721	S20-Ja26116	<0.001	<0.001	-	<0.001	<0.001	-	-	-	<0.001	-	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW3	25/01/2020	698721	S20-Ja26117	<0.001	<0.001	-	<0.001	<0.001	-	-	-	<0.001	-	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW4	25/01/2020	698721	S20-Ja26118	<0.001	<0.001	-	<0.001	<0.001	-	-	-	<0.001	-	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW5	25/01/2020	698721	S20-Ja26119	<0.001	<0.001	-	<0.001	<0.001	-	-	-	<0.001	-	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

Table C - Soil Vapour
Project Number: 58167
Project Name: Mascot DD

	BTEXN					Monocyclic Aromatic Hydrocarbons								
	Benzene	Ethylbenzene	Toluene	Xylene (Total)	Naphthalene	1,2,4-trimethyl benzene	1,3,5-trimethyl benzene	4-isopropyl toluene	Isopropylbenzene	n-butyl benzene	n-propyl benzene	sec-butyl benzene	Styrene	Tert-butyl benzene
	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3
EQL	0.083333334	0.083333334	0.083333334	0.250000001	0.083333334	0.083333334	0.083333334	0.083333334	0.083333334	0.083333334	0.083333334	0.083333334	0.833333335	0.083333334
NEPM 2013 HIL Commercial/Industrial D Soil Vapour														
NEPM 2013 Soil Vapour HSL D - Sand 0 to <1m	4	1300	4800	840	3									

Sample ID	Sample Date/Primary	Sample Code	Lab Report														
SV02 (FRONT)	22/01/2020	S20-Ja26152	698723	<0.08333	<0.08333	<0.08333	<0.25	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.8333	<0.08333
SV04 (FRONT)	22/01/2020	S20-Ja26154	698723	<0.08333	<0.08333	<0.08333	<0.25	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.8333	<0.08333
SV07 (FRONT)	24/01/2020	S20-Ja26156	698723	<0.08333	<0.08333	<0.08333	<0.25	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.8333	<0.08333
SV08 (FRONT)	24/01/2020	S20-Ja26158	698723	<0.08333	<0.08333	<0.08333	<0.25	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.8333	<0.08333
SV10 (FRONT)	24/01/2020	S20-Ja26160	698723	<0.08333	<0.08333	<0.08333	<0.25	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.8333	<0.08333
SV11 (FRONT)	24/01/2020	S20-Ja26162	698723	<0.08333	<0.08333	<0.08333	<0.25	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.8333	<0.08333
SV12 (FRONT)	24/01/2020	S20-Ja26164	698723	<0.08333	<0.08333	<0.08333	<0.25	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.8333	<0.08333
SV13 (FRONT)	24/01/2020	S20-Ja26166	698723	<0.08333	<0.08333	<0.08333	<0.25	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.8333	<0.08333
QSV03 (FRONT)	24/01/2020	S20-Ja26174	698723	<0.08333	<0.08333	<0.08333	<0.25	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.8333	<0.08333
SV17 (FRONT)	24/01/2020	S20-Ja26168	698723	<0.08333	<0.08333	<0.08333	<0.25	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.8333	<0.08333
SV19 (FRONT)	24/01/2020	S20-Ja26170	698723	<0.08333	<0.08333	<0.08333	<0.25	<0.08333	0.1333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.8333	<0.08333
SV21 (FRONT)	24/01/2020	S20-Ja26172	698723	<0.08333	<0.08333	<0.08333	<0.25	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.8333	<0.08333

Table C - Soil Vapour
Project Number: 58167
Project Name: Mascot DD

				Chlorinated Alkanes													Chlorinated Alkenes									
				1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,2,3-trichloropropane	1,2-dibromo-3-chloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	2,2-dichloropropane	Bromochloromethane	Carbon tetrachloride	Trichlorofluoromethane	1,1-dichloroethene	1,1-dichloropropene	2-chlorotoluene	4-chlorotoluene	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Tetrachloroethene	trans-1,3-dichloropropene	Trichloroethene	Vinyl Chloride
				mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3
EQL				0.083333334	0.083333334	0.083333334	0.083333334	0.083333334	0.083333334	0.083333334	0.083333334	0.083333334	0.083333334	0.083333334	0.083333334	0.083333334	0.083333334	0.083333334	0.083333334	0.083333334	0.083333334	0.083333334	0.083333334	0.083333334	0.083333334	0.083333334	0.083333334
NEPM 2013 HIL Commercial/Industrial D Soil Vapour					230																	0.3		8		0.08	0.1
NEPM 2013 Soil Vapour HSL D - Sand 0 to <1m																											
Sample ID	**Sample Date/Primary**	**Sample Code**	**Lab Report**																								
SV02 (FRONT)	22/01/2020	S20-Ja26152	698723	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333
SV04 (FRONT)	22/01/2020	S20-Ja26154	698723	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333
SV07 (FRONT)	24/01/2020	S20-Ja26156	698723	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333
SV08 (FRONT)	24/01/2020	S20-Ja26158	698723	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333
SV10 (FRONT)	24/01/2020	S20-Ja26160	698723	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333
SV11 (FRONT)	24/01/2020	S20-Ja26162	698723	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	0.15	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333
SV12 (FRONT)	24/01/2020	S20-Ja26164	698723	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333
SV13 (FRONT)	24/01/2020	S20-Ja26166	698723	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333
QSV03 (FRONT)	24/01/2020	S20-Ja26174	698723	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333
SV17 (FRONT)	24/01/2020	S20-Ja26168	698723	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333
SV19 (FRONT)	24/01/2020	S20-Ja26170	698723	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333
SV21 (FRONT)	24/01/2020	S20-Ja26172	698723	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333

Table C - Soil Vapour
Project Number: 58167
Project Name: Mascot DD

	Miscellaneous Hydrocarbons		Chlorinated Benzenes						Trihalomethanes				Miscellaneous Industrial Chemicals	Organic Alcohols
	1,2-dibromoethane	Dibromomethane	1,2,3-trichlorobenzene	1,2,4-trichlorobenzene	1,2-Dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Chlorobenzene	Bromodichloromethane	Chloroform	Dibromochloromethane	Tribromomethane	Hexachlorobutadiene	Isopropyl alcohol
	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3
EQL	0.083333334	0.083333334	0.083333334	0.083333334	0.083333334	0.083333334	0.083333334	0.083333334	0.083333334	0.083333334	0.083333334	0.083333334	0.083333334	1.66666667
NEPM 2013 HIL Commercial/Industrial D Soil Vapour														
NEPM 2013 Soil Vapour HSL D - Sand 0 to <1m														
Sample ID	**Sample Date/Primary**	**Sample Code**	**Lab Report**											
SV02 (FRONT)	22/01/2020	S20-Ja26152	698723	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<1.667
SV04 (FRONT)	22/01/2020	S20-Ja26154	698723	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<1.667
SV07 (FRONT)	24/01/2020	S20-Ja26156	698723	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<1.667
SV08 (FRONT)	24/01/2020	S20-Ja26158	698723	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<1.667
SV10 (FRONT)	24/01/2020	S20-Ja26160	698723	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<1.667
SV11 (FRONT)	24/01/2020	S20-Ja26162	698723	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<1.667
SV12 (FRONT)	24/01/2020	S20-Ja26164	698723	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<1.667
SV13 (FRONT)	24/01/2020	S20-Ja26166	698723	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<1.667
QSV03 (FRONT)	24/01/2020	S20-Ja26174	698723	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<1.667
SV17 (FRONT)	24/01/2020	S20-Ja26168	698723	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<1.667
SV19 (FRONT)	24/01/2020	S20-Ja26170	698723	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<1.667
SV21 (FRONT)	24/01/2020	S20-Ja26172	698723	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<0.08333	<1.667

Appendix B EPA Records

Home Contaminated land Record of notices

Search results

Your search for:Suburb: ALEXANDRIA

Matched 10 notices relating to 5 sites.

Search Again

Refine Search

Suburb	Address	Site Name	Notices related to this site
ALEXANDRIA	Off Huntley STREET	Alexandra Canal Sediments	2 current
ALEXANDRIA	10-24 Ralph STREET	Australia Post	1 current and 1 former
ALEXANDRIA	49-59 O'Riordan STREET	Former Cadbury Schweppes	1 former
ALEXANDRIA	10-20 Botany ROAD	Formerly Gas N Go Alexandria (fully redeveloped into residential apartment as of September 2016)	3 former
ALEXANDRIA	Sydney Park ROAD	Sydney Park	2 current

Page 1 of 1

29 January 2020

For business and industry

For local government

Contact us

131 555 (tel:131555)

info@epa.nsw.gov.au (mailto:info@epa.nsw.gov.au)

EPA Office Locations (https://www.epa.nsw.gov.au/about-us/contact-us/locations)

Accessibility (https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/help-index)
Disclaimer (https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/disclaimer)
Privacy (https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/privacy)
Copyright (https://www.epa.nsw.gov.au/about-us/contact-us/website-service-standards/copyright)

(https://au.linkedin.co
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environment
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protection
-
authority
-
epa

Find us on (https://twitter.com/NSW_E

Background

A strategy to systematically prioritise, assess and respond to notifications under Section 60 of the ***Contaminated Land Management Act 1997*** (CLM Act) has been developed by the EPA. This strategy acknowledges the EPA's obligations to make information available to the public under ***Government Information (Public Access) Act 2009***.

When a site is notified to the EPA, it may be accompanied by detailed site reports where the owner has been proactive in addressing the contamination and its source. However, often there is minimal information on the nature or extent of the contamination.

After receiving a report, the first step is to confirm that the report does not relate to a pollution incident. The Protection of the Environment Operations Act 1997 (POEO Act) deals with pollution incidents, waste stockpiling or dumping. The EPA also has an incident management process to manage significant incidents (https://www.epa.nsw.gov.au/reporting-and-incidents/incident-management).

In many cases, the information indicates the contamination is securely immobilised within the site, such as under a building or carpark, and is not currently causing any significant risks for the community or environment. Such sites may still need to be cleaned up, but this can be done in conjunction with any subsequent building or redevelopment of the land. These sites do not require intervention under the CLM Act, and are dealt with through the planning and development consent process. In these cases, the EPA informs the local council or other planning authority, so that the information can be recorded and considered at the appropriate time (https://www.epa.nsw.gov.au/your-environment/contaminated-land/managing-contaminated-land/role-of-planning-authorities).

Where indications are that the contamination could cause actual harm to the environment or an unacceptable offsite impact (i.e. the land is 'significantly contaminated'), the EPA would apply the regulatory provisions of the CLM Act to have the responsible polluter and/or landowner investigate and remediate the site. If the reported contamination could present an immediate or long-term threat to human health NSW Health will be consulted. SafeWork NSW and Water NSW can also be consulted if there appear to be occupational health and safety risks or an impact on groundwater quality.

As such, the sites notified to the EPA and presented in the list of contaminated sites notified to the EPA are at various stages of the assessment and remediation process. Understanding the nature of the underlying contamination, its implications and implementing a remediation program where required, can take a considerable period of time. The list provides an indication, in relation to each nominated site, as to the management status of that particular site. Further detailed information may be available from the EPA or the person who notified the site.

The following questions and answers may assist those interested in this issue.

Frequently asked questions

Why does my land appear on the list of notified sites?

Your land may appear on the list because:

• the site owner and/or the polluter has notified the EPA under section 60 of the CLM Act
• the EPA has been notified via other means and is satisfied that the site is or was contaminated.

If a site is on the list, it does not necessarily mean the contamination is significant enough to regulate under the CLM Act.

Does the list contain all contaminated sites in NSW?

No. The list only contains contaminated sites that EPA is aware of. If a site is not on the list, it does not necessarily mean the site is not contaminated.

The EPA relies on responsible parties and the public to notify contaminated sites.

How are notified contaminated sites managed by the EPA?

There are different ways the EPA can manage notified contaminated sites. Options include:

• regulation under the CLM Act, POEO Act, or both
• notifying the relevant planning authority for management under the planning and development process
• managing the site under the Protection of the Environment Operation (Underground Petroleum Storage Systems) Regulation 2014.

There are specific cases where contamination is managed under a tailored program operated by another agency (for example, the Resources & Geoscience's Legacy Mines Program).

What should I do if I am a potential buyer of a site that appears on the list?

You should seek advice from the seller to understand the contamination issue. You may need to seek independent contamination or legal advice.

The information provided in the list is indicative only and a starting point for your own assessment. Land contamination from past site uses is common, mainly in urban environments. If the site is properly remediated or managed, it may not affect the intended future use of the site.

Who can I contact if I need more information about a site?

You can contact the Environment Line at any time by calling 131 555 or by emailing info@environment.nsw.gov.au.

List of NSW Contaminated Sites Notified to the EPA

Disclaimer

The EPA has taken all reasonable care to ensure that the information in the list of contaminated sites notified to the EPA (the list) is complete and correct. The EPA does not, however, warrant or represent that the list is free from errors or omissions or that it is exhaustive.

The EPA may, without notice, change any or all of the information in the list at any time.

You should obtain independent advice before you make any decision based on the information in the list.

The list is made available on the understanding that the EPA, its servants and agents, to the extent permitted by law, accept no responsibility for any damage, cost, loss or expense incurred by you as a result of:

1. any information in the list; or
2. any error, omission or misrepresentation in the list; or
3. any malfunction or failure to function of the list;
4. without limiting (2) or (3) above, any delay, failure or error in recording, displaying or updating information.

Site Status	Explanation
Under assessment	The contamination is being assessed by the EPA to determine whether regulation is required. The EPA may require further information to complete the assessment. For example, the completion of management actions regulated under the planning process or *Protection of the Environment Operations Act 1997*.
Under Preliminary Investigation Order	The EPA has issued a Preliminary Investigation Order under s10 of the *Contaminated Land Management Act 1997*, to obtain additional information needed to complete the assessment.
Regulation under CLM Act not required	The EPA has completed an assessment of the contamination and decided that regulation under the *Contaminated Land Management Act 1997* is not required.
Regulation being finalised	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation under the *Contaminated Land Management Act 1997*. A regulatory approach is being finalised.
Contamination currently regulated under CLM Act	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation under the Contaminated Land Management Act 1997 (CLM Act). Management of the contamination is regulated by the EPA under the CLM Act. Regulatory notices are available on the EPA's Contaminated Land Public Record.
Contamination currently regulated under POEO Act	Contamination is currently regulated under the Protection of the Environment Operations Act 1997 (POEO Act). The EPA as the appropriate regulatory authority reasonably suspects that a pollution incident is occurring/ has occurred and that it requires regulation under the POEO Act. The EPA may use environment protection notices, such as clean up notices, to require clean up action to be taken. Such regulatory notices are available on the POEO public register.
Contamination being managed via the planning process (EP&A Act)	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation. The contamination of this site is managed by the consent authority under the *Environmental Planning and Assessment Act 1979* (EP&A Act) planning approval process, with EPA involvement as necessary to ensure significant contamination is adequately addressed. The consent authority is typically a local council or the Department of Planning and Environment.
Contamination formerly regulated under the CLM Act	The EPA has determined that the contamination is no longer significant enough to warrant regulation under the *Contaminated Land Management Act 1997* (CLM Act). The contamination was addressed under the CLM Act.
Contamination formerly regulated under the POEO Act	The EPA has determined that the contamination is no longer significant enough to warrant regulation. The contamination was addressed under the *Protection of the Environment Operations Act 1997* (POEO Act).
Contamination was addressed via the planning process (EP&A Act)	The EPA has determined that the contamination is no longer significant enough to warrant regulation. The contamination was addressed by the appropriate consent authority via the planning process under the *Environmental Planning and Assessment Act 1979* (EP&A Act).
Ongoing maintenance required to manage residual contamination (CLM Act)	The EPA has determined that ongoing maintenance, under the Contaminated Land Management Act 1997 (CLM Act), is required to manage the residual contamination. Regulatory notices under the CLM Act are available on the EPA's Contaminated Land Public Record.

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
ABBOTSFORD	Former Gasworks	83 Wymston PARADE	Gasworks	Contamination formerly regulated under the CLM Act	-33.85288351	151.1265979
ABBOTSFORD	Former Gasworks	82, 83, 84 Wymston Pde, & 37, 39, 43, 45 St Albans STREET	Gasworks	Contamination formerly regulated under the CLM Act	-33.85288316	151.1267729
ABBOTSFORD	Former Gasworks	85 Wymston PARADE	Gasworks	Regulation under CLM Act not required	-33.85265214	151.1266277
ABBOTSFORD	Former Gasworks	80-81 Wymston Pde and 35 and 41 St Albans STREET	Gasworks	Regulation under CLM Act not required	-33.85306653	151.1268142
ABBOTSFORD	Former Gasworks	43 St Albans STREET	Gasworks	Contamination formerly regulated under the CLM Act	-33.85270604	151.126976
ABERDEEN	Former Transport Depot	87-89 St Andrew STREET	Other Industry	Regulation under CLM Act not required	-32.17160931	150.8972859
ALBION PARK	Caltex Albion Park Service Station	1 Calderwood ROAD	Service Station	Regulation under CLM Act not required	-34.57131362	150.7647971
ALBION PARK RAIL	Caltex Service Station	174 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.56134097	150.7953663
ALBION PARK RAIL	Caltex Service Station	31 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.55162786	150.7880626
ALBION PARK RAIL	Former Timber Storage Area	36 Rivulet CRESCENT	Other Industry	Regulation under CLM Act not required	-34.54872597	150.7899351
ALBURY	Mobil Depot, Railway Place Albury	1 Railway PLACE	Other Petroleum	Regulation under CLM Act not required	-36.08526805	146.9236999
ALBURY	Woolworths Petrol	515 Young STREET	Service Station	Regulation under CLM Act not required	-36.08073723	146.92351
ALBURY	Former Caltex Service Station	842 David STREET	Service Station	Regulation under CLM Act not required	-36.06398743	146.9252143
ALBURY	SRA Land, 514 to 526 Young Street	514 to 526 Young STREET	Other Petroleum	Regulation under CLM Act not required	-36.08084123	146.9241682
ALBURY	Former Gasworks and surrounding commercial land.	441 Kiewa STREET	Gasworks	Contamination currently regulated under CLM Act	-36.08357983	146.9137004
ALBURY	Coles Express Albury	465 Guinea STREET	Service Station	Regulation under CLM Act not required	-36.07513665	146.9213077
ALBURY	Former Thales Australia site, Albury	161 Fallon STREET	Other Industry	Contamination formerly regulated under the CLM Act	-36.064966	146.9434831
ALBURY	Xpress Service Station	616-624 Young STREET	Service Station	Contamination formerly regulated under the CLM Act	-36.07555262	146.9256466
ALBURY	Albury Plaza	Cnr Smollett Street and Townsend STREET	Other Industry	Regulation under CLM Act not required	-36.08112933	146.9135719
ALBURY	Mobil Albury Aviation Fuel Depot	Hangar 8 (Albury Airport), Ogden PLACE	Other Petroleum	Regulation under CLM Act not required	-36.07178139	146.9530165
ALBURY	SRA Land	448 and 452 Young STREET	Unclassified	Regulation under CLM Act not required	-36.08438605	146.9235454
ALBURY	Caltex Service Station	Dean Street, Corner Creek STREET	Service Station	Regulation under CLM Act not required	-36.07978937	146.9110825
ALEXANDRIA	Former Mobil Service Station	20 O'Riordan STREET	Service Station	Regulation under CLM Act not required	-33.9075539	151.2014811
ALEXANDRIA	Caltex Alexandria Service Station	133 Wyndham St, cnr McEvoy STREET	Service Station	Regulation under CLM Act not required	-33.90220927	151.2000425
ALEXANDRIA	Former Cadbury Schweppes	49-59 O'Riordan STREET	Other Industry	Contamination formerly regulated under the CLM Act	-33.91406619	151.195067
ALEXANDRIA	Formerly Gas N Go Alexandria (fully redeveloped into residential apartment as of September 2016)	10-20 Botany ROAD	Service Station	Regulation under CLM Act not required	-33.89536227	151.1987818
ALEXANDRIA	Mascot Developments	494-504 Gardeners ROAD	Other Industry	Regulation under CLM Act not required	-33.9198218	151.191282
ALEXANDRIA	Alexandria GoGas	562 Botany ROAD	Service Station	Regulation under CLM Act not required	-33.91577222	151.2000753
ALEXANDRIA	Australian Refined Alloys	202-212 Euston ROAD	Metal Industry	Regulation under CLM Act not required	-33.91505136	151.185872
ALEXANDRIA	Alexandra Canal Sediments	Off Huntley STREET	Unclassified	Contamination currently regulated under CLM Act	-33.92204213	151.1770009
ALEXANDRIA	Australia Post	10-24 Ralph STREET	Other Industry	Contamination was addressed via the planning process (EP&A Act)	-33.91583041	151.197997
ALEXANDRIA	Perry Park	1B Maddox STREET	Landfill	Regulation under CLM Act not required	-33.90809949	151.1962945
ALEXANDRIA	Alexandria Gardens	146-156 Wyndham Street & 146-156 Botany ROAD	Unclassified	Regulation under CLM Act not required	-33.89956961	151.1997377
ALEXANDRIA	Sydney Park	Sydney Park, Alexandria ROAD	Landfill	Contamination currently regulated under CLM Act	-33.91163421	151.1840827
ALEXANDRIA	Former Industrial Site (now Value Suites)	16 O'Riordan STREET	Other Industry	Regulation under CLM Act not required	-33.9069796	151.201902
ALEXANDRIA	The Gentry Alexandria - 31 to 41 William St.	31-41 William STREET	Unclassified	Regulation under CLM Act not required	-33.91288033	151.1980106
ALSTONVILLE	Caltex Service Station Alstonville	73 Main STREET	Service Station	Regulation under CLM Act not required	-28.84115994	153.4388699

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
AMBARVALE	Caltex Service Station	37 Woodhouse DRIVE	Service Station	Regulation under CLM Act not required	-34.08438034	150.8019168
ANNANDALE	7-Eleven (former Mobil) Annandale Service Station	198 Parramatta ROAD	Service Station	Regulation under CLM Act not required	-33.88706434	151.1741135
ANNANDALE	Shell Coles Express Service Station	124-126 Johnston STREET	Service Station	Regulation under CLM Act not required	-33.88085651	151.1704805
APPIN	Elladale Creek Aqueduct Upper Canal	Macquariedale ROAD	Unclassified	Regulation under CLM Act not required	-34.18867067	150.7539597
APPIN	West Cliff Colliery	Wedderburn ROAD	Other Petroleum	Regulation under CLM Act not required	-34.21970612	150.8217522
ARDLETHAN	Landmark Fertiliser Storage Facility	18 & 24-26 Ariah STREET	Chemical Industry	Regulation under CLM Act not required	-34.35696645	146.9007084
ARGENTON	NSW Mines Rescue Services - Argenton	533 Lake ROAD	Other Industry	Regulation under CLM Act not required	-32.93807208	151.6269664
ARMIDALE	Former Mobil Depot	132 Niagara STREET	Other Petroleum	Contamination formerly regulated under the CLM Act	-30.51115918	151.6490343
ARMIDALE	Caltex Service Station	146 Miller STREET	Service Station	Regulation under CLM Act not required	-30.51362759	151.6481123
ARMIDALE	RTA land adjoining Martin Street estate	Martin STREET	Other Industry	Contamination formerly regulated under the CLM Act	-30.5045	151.6433
ARMIDALE	Shell Service Station	93 Marsh STREET	Service Station	Regulation under CLM Act not required	-30.51299824	151.6697557
ARMIDALE	Parklands near the former gasworks	Beardy Street and Allingham STREET	Gasworks	Regulation under CLM Act not required	-30.51013465	151.6652722
ARMIDALE	Gasworks and portion of Harris Park	Corner of Beardy Street and Allingham STREET	Gasworks	Contamination currently regulated under CLM Act	-30.51157406	151.6623073
ARMIDALE	Martin Street Estate, Lot 3	Lot 3 Martin STREET	Other Industry	Regulation under CLM Act not required	-30.5066659	151.6453692
ARMIDALE	Martin Street Estate	Martin STREET	Other Industry	Regulation under CLM Act not required	-30.50559024	151.6431854
ARMIDALE	Caltex Armidale Girraween Service Station	6-8 Queen Elizabeth DRIVE	Service Station	Regulation under CLM Act not required	-30.50348872	151.6510748
ARMIDALE	Martin Street, Crown Land	Martin STREET	Other Industry	Contamination formerly regulated under the CLM Act	-30.50414076	151.6429516
ARMIDALE	Former Shell Depot	134 Niagara STREET	Other Petroleum	Regulation under CLM Act not required	-30.51180178	151.6488634
ARMIDALE	Caltex Service Station	144 Marsh STREET	Service Station	Regulation under CLM Act not required	-30.51709925	151.6675802
ARMIDALE	Caltex North Hill Service Station	2-4 Marsh STREET	Service Station	Regulation under CLM Act not required	-30.50320439	151.6727051
ARMIDALE	Mobil Armidale Service Station and Former Depot	10-12 McLennan STREET	Service Station	Regulation under CLM Act not required	-30.51107573	151.648242
ARMIDALE	Caltex Service Station	19/10541 New England HIGHWAY	Service Station	Regulation under CLM Act not required	-30.53210764	151.6160492
ARMIDALE	Armidale Dumaresq Council Grafton Road Depot	15-25 Grafton ROAD	Other Petroleum	Regulation under CLM Act not required	-30.52058076	151.6815261
ARNCLIFFE	7-Eleven Arncliffe	28 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-33.93428397	151.1525438
ARNCLIFFE	Combined Projects Arncliffe	104-128 Princess HIGHWAY	Other Industry	Under assessment	-33.934009	151.152135
ARTARMON	7-Eleven (former Mobil) Artarmon Service Station	477 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.81053826	151.1774248
ASHBY	Ashby Dry Dock	via Clarence STREET	Other Industry	Contamination formerly regulated under the CLM Act	-29.44158377	153.1972304
ASHFIELD	Vehicle Workshop	445-449 Liverpool ROAD	Service Station	Regulation under CLM Act not required	-33.88826829	151.1167477
ASQUITH	BP Service Station	462 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.68982678	151.106156
ATTUNGA	Attunga Limestone Mine (Waste Oil Site)	Garthowen ROAD	Other Industry	Regulation under CLM Act not required	-30.92920627	150.8579435
AUBURN	DIC Australia	323 Chisholm ROAD	Other Industry	Regulation under CLM Act not required	-33.87228962	151.0157032
AUBURN	Former Ajax chemical factory	9 Short STREET	Other Industry	Contamination currently regulated under CLM Act	-33.83671601	151.0292071
AUBURN	Janyon	Manchester ROAD	Other Industry	Regulation under CLM Act not required	-33.84467826	151.020745
AUBURN	Maintrain Facility - Sydney Trains Auburn	Manchester ROAD	Other Industry	Regulation under CLM Act not required	-33.84410947	151.0242502
AUBURN	Department of Corrective Services land adjacent to the former Auburn Landfill	Jamieson STREET	Landfill	Contamination formerly regulated under the CLM Act	-33.82928257	151.0590653
AWABA	Awaba Colliery	Wilton ROAD	Other Industry	Regulation under CLM Act not required	-33.02098186	151.5383612
BALGOWLAH	BP Service Station	Cnr Sydney Road and Maretimo STREET	Service Station	Regulation under CLM Act not required	-33.79546175	151.2559309

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
BALGOWLAH	Part of Manly Council Maintenance Depot	8-10 Roseberry STREET	Other Petroleum	Regulation under CLM Act not required	-33.78928907	151.2679557
BALGOWNIE	Fuel Power Plus	99 Balgownie ROAD	Service Station	Contamination currently regulated under POEO Act	-34.38925632	150.8808544
BALLINA	Former Mobil Service Station	37-41 Cherry STREET	Service Station	Regulation under CLM Act not required	-28.86952673	153.5624436
BALLINA	Ballina Shell	273 River STREET	Service Station	Regulation under CLM Act not required	-28.86809272	153.5552789
BALLINA	Woolworths Petrol	Kerr STREET	Service Station	Regulation under CLM Act not required	-28.85824461	153.5605439
BALLINA	Ballina Mays Motors	River STREET	Other Petroleum	Regulation under CLM Act not required	-28.86935402	153.5585931
BALRANALD	Caltex Service Station	Sturt HIGHWAY	Service Station	Regulation under CLM Act not required	-34.66747746	143.5662034
BANKSIA	Woolworths Petrol Service Station Banksia	314 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-33.94567308	151.1416884
BANKSIA	Cooks Cove Development	Cooks Cove PARK	Landfill	Under assessment	-33.948464	151.153128
BANKSMEADOW	Orica Botany Groundwater Project	16-20 Beauchamp ROAD	Chemical Industry	Contamination currently regulated under CLM Act	-33.9552673	151.2151954
BANKSMEADOW	Discovery Cove, Former Ampol Rail Terminal	1801 Botany ROAD	Other Petroleum	Regulation being finalised	-33.96162178	151.2184122
BANKSMEADOW	Caltex Terminal	1-3 Penrhyn ROAD	Other Petroleum	Contamination currently regulated under POEO Act	-33.96335328	151.2171062
BANKSMEADOW	Orica Botany (Pre-2003 Regulation)	Port Feeder ROAD	Chemical Industry	Contamination currently regulated under CLM Act	-33.9516159	151.2195804
BANKSMEADOW	Veolia Waste Transfer Terminal (former Keith Engineering site)	34-36 McPherson STREET	Other Industry	Regulation under CLM Act not required	-33.95811039	151.2195225
BANKSMEADOW	Orica Former Chlor Alkali Plant (same site as Orica Botany Groundwater Project)	Botany Industrial Park, off Denison STREET	Chemical Industry	Contamination currently regulated under CLM Act	-33.95664283	151.221685
BANKSMEADOW	Former Pipeline	Corish CIRCLE	Other Petroleum	Regulation being finalised	-33.94705787	151.2209919
BANKSMEADOW	Pacific National Rail Siding	1 Beauchamp ROAD	Chemical Industry	Contamination currently regulated under CLM Act	-33.95757712	151.2204974
BANKSMEADOW	Former Mobil Banksmeadow Terminal	Coal Pier ROAD	Other Petroleum	Regulation under CLM Act not required	-33.95405624	151.2142048
BANKSMEADOW	Orica Car Park Waste Encapsulation	Corish CIRCLE	Landfill	Contamination formerly regulated under the POEO Act	-33.94703665	151.22083
BANKSTOWN	7-Eleven Service Station	689 Henry Lawson DRIVE	Service Station	Regulation under CLM Act not required	-33.92749953	150.9804784
BANORA POINT	Caltex Service Station	Corner Leisure Drive and Darlington DRIVE	Service Station	Regulation under CLM Act not required	-28.21390712	153.5417434
BARGO	Tahmoor Colliery	Remembrance DRIVE	Other Industry	Regulation under CLM Act not required	-34.25090795	150.5793631
BARMEDMAN	Caltex - Barmedman	Corner Watson Street and Star STREET	Other Petroleum	Regulation under CLM Act not required	-34.14351302	147.3824934
BARRACK HEIGHTS	Caltex Service Station	332-336 Shellharbour ROAD	Service Station	Regulation under CLM Act not required	-34.56489171	150.8597814
BATEAU BAY	Former landfill	The Entrance ROAD	Landfill	Contamination currently regulated under CLM Act	-33.3938305	151.4699046
BATEAU BAY	Woolworths Service Station Bateau Bay	9 Bay Village ROAD	Service Station	Regulation under CLM Act not required	-33.37316432	151.4737125
BATEHAVEN	Caltex Service Station	264 Beach ROAD	Service Station	Regulation under CLM Act not required	-35.73255166	150.1997536
BATEHAVEN	Coles Express Service Station Batehaven	198 Beach ROAD	Service Station	Regulation under CLM Act not required	-35.72671807	150.1944931
BATEMANS BAY	Caltex Service Station	87-89 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-35.71940701	150.1762788
BATHURST	Shell Coles Express Service Station	(Cnr Stewart and Rocket Street) 298 Stewart STREET	Service Station	Regulation under CLM Act not required	-33.41910999	149.5677773
BATHURST	Former Shell Depot Bathurst	56 Bant STREET	Other Petroleum	Regulation under CLM Act not required	-33.43471575	149.5774595
BATHURST	Bathurst Rail Fabrication Centre	34 Alpha STREET	Other Industry	Regulation under CLM Act not required	-33.42805153	149.5829156
BATHURST	Bathurst - Former Caltex Depot	114 Howick STREET	Other Petroleum	Regulation under CLM Act not required	-33.42296963	149.5862574
BATHURST	Caltex Bathurst Service Station	53 Durham STREET	Service Station	Regulation under CLM Act not required	-33.41689545	149.5848527
BATHURST	Former Police Station	Corner of William Street and Durham STREET	Other Petroleum	Contamination formerly regulated under the CLM Act	-33.41592424	149.5842233
BATHURST	Former Mobil Depot	1 Lambert STREET	Other Petroleum	Regulation under CLM Act not required	-33.42875534	149.5806344
BATHURST	Crago Mill site	Piper STREET	Other Industry	Regulation under CLM Act not required	-33.42777602	149.5809428

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
BATHURST	Former Mobil Depot	Lower Russell STREET	Other Petroleum	Regulation under CLM Act not required	-33.42497876	149.585128
BATHURST	Shell Coles Express Bathurst Service Station	59 Durham STREET	Service Station	Regulation under CLM Act not required	-33.41639415	149.5843243
BATHURST	Former Gasworks	71 Russell STREET	Gasworks	Contamination formerly regulated under the CLM Act	-33.42420302	149.5864517
BATHURST	Devro Cattle Hide Processing Plant	46 Vale ROAD	Other Industry	Regulation under CLM Act not required	-33.43926137	149.5803563
BAULKHAM HILLS	Caltex Baulkham Hills Service Station	117 Seven Hills ROAD	Service Station	Regulation under CLM Act not required	-33.76139872	150.9750767
BAULKHAM HILLS	Caltex Service Station	130 Seven Hills ROAD	Service Station	Regulation under CLM Act not required	-33.76180431	150.9746297
BAULKHAM HILLS	Shell Coles Express Service Station	363 Windsor ROAD	Service Station	Regulation under CLM Act not required	-33.7601819	150.9916224
BEACON HILL	Caltex Service Station	176 Warringah ROAD	Service Station	Contamination currently regulated under CLM Act	-33.75381485	151.2602617
BEACON HILL	Former 7-Eleven Service Station, Beacon Hill	312 Warringah ROAD	Service Station	Regulation under CLM Act not required	-33.75129647	151.2469656
BEACONSFIELD	63-85 Victoria St, Beaconsfield	63-85 Victoria STREET	Other Industry	Regulation under CLM Act not required	-33.9102929	151.2016275
BEGA	Coles Express (former Caltex) Service Station	2-6 Swan (Corner Carp) STREET	Service Station	Regulation under CLM Act not required	-36.67388263	149.838163
BEGA	Former BP Service Station	100 - 102 Gipps STREET	Service Station	Regulation under CLM Act not required	-36.67563094	149.8433291
BEGA	Former Bega Gasworks	19-29 Upper STREET	Gasworks	Under preliminary investigation order	-36.67710613	149.8480253
BEGA	Caltex Service Station	36-40 Lagoon STREET	Service Station	Regulation under CLM Act not required	-36.66832965	149.8289048
BEGA	Lands Adjoining the Former Bega Gasworks	Part of Upper, East, Gordon & Gloucester STREET	Gasworks	Under preliminary investigation order	-36.67710613	149.8480253
BEGA	Spenco Site - owned by Bega Spotlight Property 2 Pty Ltd	53-65 Bega Street STREET	Other Industry	Regulation under CLM Act not required	-36.67135539	149.8450828
BELMONT	Coles Express Belmont Service Station	502 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.03317155	151.6605194
BELMONT	Former Ampol Service Station	467-469 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.0299728	151.6613301
BELMONT NORTH	Woolworths Service Station Belmont North	399 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.02454211	151.6634893
BELMONT NORTH	Caltex Belmont North Service Station	406 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.02476876	151.6623655
BELMONT NORTH	Belmont Bus Depot	2 Floraville ROAD	Other Petroleum	Regulation under CLM Act not required	-33.02476269	151.6606657
BELMORE	SRA Land	348 Burwood ROAD	Unclassified	Regulation under CLM Act not required	-33.91753611	151.0859487
BELMORE	7-Eleven Service Station	792-794 Canterbury ROAD	Service Station	Regulation under CLM Act not required	-33.92567992	151.0873469
BELROSE	Glenrose Shopping Centre	56-58 Glen STREET	Unclassified	Contamination currently regulated under CLM Act	-33.73917996	151.2101029
BELROSE	Woolworths Petrol	60 Glen STREET	Service Station	Regulation under CLM Act not required	-33.74009002	151.2091045
BELROSE	Caltex Service Station	157 Forest WAY	Service Station	Regulation under CLM Act not required	-33.7347675	151.2212004
BENNETTS GREEN	Former Windale Wastewater Treatment Works	8 Templar PLACE	Other Industry	Regulation under CLM Act not required	-33.00317523	151.6936636
BERESFIELD	BP Beresfield Truckstop	2 Kinta Drive, corner John Renshaw DRIVE	Service Station	Regulation under CLM Act not required	-32.81122768	151.6393427
BERESFIELD	Former Koppers Timber Treatment Site	53 Weakleys DRIVE	Other Industry	Regulation under CLM Act not required	-32.79902937	151.6358846
BERKELEY VALE	Former Berkeley Vale Service Station	121-123 Lakedge AVENUE	Service Station	Regulation under CLM Act not required	-33.34899186	151.4423109
BERKSHIRE PARK	Shell Coles Express Berkshire Park	746 - 752 Richmond ROAD	Service Station	Regulation under CLM Act not required	-33.66508654	150.7990243
BEROWRA	Caltex Berowra Service Station	12-14 Berowra Waters ROAD	Service Station	Regulation under CLM Act not required	-33.6233827	151.1505554
BEROWRA	7-Eleven Berowra Service Station	965-969 Pacific (Cnr Waratah Rd) HIGHWAY	Service Station	Regulation under CLM Act not required	-33.62673163	151.1479171
BEROWRA	Shell Coles Express Berowra	955 Pacific (Cnr Yallambee Rd) HIGHWAY	Service Station	Regulation under CLM Act not required	-33.62818015	151.1475736
BEROWRA	42 Berowra Waters Road	42 Berowra Waters ROAD	Unclassified	Regulation under CLM Act not required	-33.6203211	151.1482454
BERRIGAN	Caltex Service Station Berrigan	155-165 Chanter STREET	Service Station	Regulation under CLM Act not required	-35.6557616	145.8015557
BERRY	Berry Service Centre - Shell Branded	88 Queen STREET	Service Station	Regulation under CLM Act not required	-34.77571634	150.6961713

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
BERRY	BP branded service station Berry (Formerly Shell)	75 Queen STREET	Service Station	Contamination currently regulated under POEO Act	-34.77500516	150.695167
BEXLEY	7-Eleven Bexley	474 Forest ROAD	Service Station	Regulation under CLM Act not required	-33.95160096	151.1252355
BEXLEY	7-Eleven (former Mobil) Service Station Bexley	613 Forest ROAD	Service Station	Regulation under CLM Act not required	-33.95539246	151.118447
BILLINUDGEL	CSR Readymix	Mogo PLACE	Other Industry	Regulation under CLM Act not required	-28.50210255	153.5278161
BILLINUDGEL	Billinudgel General Store	2A Wilfred STREET	Service Station	Under assessment	-28.50435	153.52701
BLACKMANS FLAT	Mount Piper Extension Development Site	2847 Boulder ROAD	Other Industry	Regulation under CLM Act not required	-33.35619968	150.0279881
BLACKMANS FLAT	Western Coal Services (former Lamberts Gully Mine)	Castlereagh HIGHWAY	Other Industry	Regulation under CLM Act not required	-33.36713827	150.0483236
BLACKTOWN	Former Caltex Service Station	131 Richmond ROAD	Service Station	Regulation under CLM Act not required	-33.75866104	150.8962614
BLACKTOWN	Valspar Blacktown	4 Steel STREET	Chemical Industry	Regulation under CLM Act not required	-33.75425018	150.9127714
BLACKTOWN	Land at Reservoir Road	Reservoir ROAD	Unclassified	Regulation under CLM Act not required	-33.79119448	150.8967838
BLACKTOWN	7-Eleven Service Station	60 Walters ROAD	Service Station	Regulation under CLM Act not required	-33.77599783	150.8948926
BLAKEHURST	Woolworths Service Station Blakehurst	390 Princes HIGHWAY	Service Station	Contamination currently regulated under CLM Act	-33.99019694	151.1135663
BLAKEHURST	The Bay Nursing Home	392 & 394 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-33.99030465	151.1140293
BLAXLAND	7-Eleven (former Mobil) Service Station	137 Great Western HIGHWAY	Service Station	Regulation under CLM Act not required	-33.74627	150.6137669
BOAMBEE	Lindsay Bros transport depot site	542 Pacific HIGHWAY	Other Petroleum	Regulation under CLM Act not required	-30.33106848	153.0802985
BOAMBEE	BP-branded (former Mobil) Boambee Service Station	601 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-30.33544287	153.0817266
BOBS FARM	Bob's Farm	15 Fenningham Island ROAD	Other Industry	Regulation under CLM Act not required	-32.74867207	152.0316217
BOGGABILLA	Former Caltex Service Station	90 Simpson Street, corner Newell HIGHWAY	Service Station	Regulation under CLM Act not required	-28.60654029	150.3571056
BOGGABILLA	Lowes (Former Mobil) Depot	Newell HIGHWAY	Other Petroleum	Regulation under CLM Act not required	-28.61023985	150.3529156
BOMADERRY	Caltex Service Station	341 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.84561952	150.5946978
BOMADERRY	Caltex Service Station Bomaderry	246 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.83833824	150.5958799
BOMADERRY	Former Mobil Emoleum Depot	7 Victa WAY	Other Petroleum	Regulation under CLM Act not required	-34.84454618	150.6139462
BOMADERRY	Former Shell Depot	44 Railway STREET	Other Petroleum	Regulation under CLM Act not required	-34.85193621	150.6117038
BOMADERRY	SRA Land	Lot 2 Meroo STREET	Unclassified	Regulation under CLM Act not required	-34.85314813	150.6099573
BOMADERRY	Bomaderry Works Depot	10 McIntyre WAY	Other Petroleum	Regulation under CLM Act not required	-34.84576748	150.6131411
BOMADERRY	Commercial Land	320 Princes HIGHWAY	Other Industry	Contamination currently regulated under CLM Act	-34.84424073	150.5958149
BOMBALA	Caltex Service Station Bombala	159-161 Maybe STREET	Service Station	Regulation under CLM Act not required	-36.91234945	149.2374622
BOMBALA	Former Bright Street Timber Mill	Bright STREET	Other Industry	Regulation under CLM Act not required	-36.91547645	149.2302454
BOMBALA	Caltex Bombala Service Station	High Street corner Stephen STREET	Service Station	Regulation under CLM Act not required	-36.90447935	149.241292
BOMBALA	Prime Pine site	Sandy LANE	Other Industry	Regulation under CLM Act not required	-36.9315425	149.2110959
BOMEN	Caltex Terminal	34 Lewington STREET	Other Petroleum	Regulation under CLM Act not required	-35.0700202	147.4121955
BONDI	BP-branded Service Station	185 Bondi ROAD	Service Station	Regulation under CLM Act not required	-33.89432208	151.2647671
BONDI	Caltex Service Station Bondi	51 Bondi ROAD	Service Station	Regulation under CLM Act not required	-33.8936307	151.260001
BONDI JUNCTION	Waverley Bus Depot	1-15 Oxford STREET	Other Industry	Regulation under CLM Act not required	-33.89165341	151.2421246
BONNY HILLS	Bonny View Store	923 Ocean DRIVE	Service Station	Regulation under CLM Act not required	-31.59075636	152.8392935
BONNYRIGG	Metro (Formerly United & AP SAVER) Service Station Bonnyrigg	709 Cabramatta (W) ROAD	Service Station	Regulation under CLM Act not required	-33.89297085	150.8925935
BONNYRIGG HEIGHTS	BP-Branded Service Station Bonnyrigg	451 North Liverpool ROAD	Service Station	Regulation under CLM Act not required	-33.89416327	150.8578378

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
BOOLAROO	Cardiff West Estate - Pasminco Cockle Creek	Adjacent to PCC Smelter at 13A Main ROAD	Metal Industry	Regulation under CLM Act not required	-32.93950137	151.6349183
BOOLAROO	Cockle Creek and Cockle Bay Sediments	Off Creek Reserve ROAD	Metal Industry	Contamination currently regulated under CLM Act	-32.96079541	151.6141327
BOOLAROO	Pasminco Cockle Creek Smelter	Lake ROAD	Metal Industry	Contamination currently regulated under CLM Act	-32.94434593	151.6307345
BOOLAROO	Incitec Pivot	13 Main STREET	Other Industry	Contamination formerly regulated under the CLM Act	-32.94803538	151.6302187
BOOLAROO	Bunnings Site - Pasminco Cockle Creek	13a Main ROAD	Metal Industry	Contamination formerly regulated under the CLM Act	-32.94364503	151.6252316
BOOLAROO	Part Lot 2 DP1127713 (proposed Lot G) - Pasminco Cockle Creek Smelter site	13a Main ROAD	Metal Industry	Contamination formerly regulated under the CLM Act	-32.94364503	151.6252316
BOOLAROO	Lot 2 DP1127713 & proposed 'Lot D') - Pasminco Cockle Creek Smelter site	Main ROAD	Metal Industry	Contamination formerly regulated under the CLM Act	-32.944397	151.626397
BOOROWA	Former Mobil Depot	14-16 Brial STREET	Other Petroleum	Regulation under CLM Act not required	-34.43673234	148.7300821
BOOROWA	Mobil Service Station	63-69 Marsden STREET	Service Station	Contamination formerly regulated under the CLM Act	-34.44157331	148.7162391
BOTANY	Former Aerosols of Australia	1617 Botany ROAD	Chemical Industry	Regulation under CLM Act not required	-33.9529386	151.2037468
BOTANY	Nuplex Resins	49-61 Stephen ROAD	Chemical Industry	Contamination currently regulated under CLM Act	-33.952588	151.21101
BOTANY	Former Tannery	2 Daniel STREET	Other Industry	Regulation under CLM Act not required	-33.94126194	151.1991087
BOTANY	Botany, Underwood	14a Underwood AVENUE	Unclassified	Contamination being managed via the planning process (EP&A Act)	-33.94508532	151.1947626
BOTANY	Roads and Maritime Service	5 - 9 Lord STREET	Other Industry	Regulation under CLM Act not required	-33.94100279	151.1968763
BOTANY	Former Industrial Site	28 Folkestone PARADE	Unclassified	Contamination being managed via the planning process (EP&A Act)	-33.95187539	151.1960537
BOURKE	Caltex Service Station	82-86 Anson STREET	Service Station	Regulation under CLM Act not required	-30.09500388	145.9414388
BOURKE	Former Shell Bourke Depot	94-106 Anson STREET	Service Station	Regulation under CLM Act not required	-30.09548497	145.9436745
BOWENFELS	Bowenfels Field Support Centre	9-13 Cooerwull ROAD	Other Petroleum	Regulation under CLM Act not required	-33.47514572	150.1323899
BOWRAL	Shell Coles Express Bowral Service Station	430 Bong Bong STREET	Service Station	Regulation under CLM Act not required	-34.48269596	150.417389
BOWRAL	Former Gasworks	Merrigang STREET	Gasworks	Contamination currently regulated under CLM Act	-34.4783957	150.4255053
BOX HILL	Former Waste Management Facility	25 Terry ROAD	Landfill	Regulation under CLM Act not required	-33.65559259	150.8977986
BOX HILL	Former Poultry Farm	27-33 Boundary ROAD	Other Industry	Regulation under CLM Act not required	-33.64866563	150.8815467
BOX HILL	Former Poultry Farm	19-25 Boundary ROAD	Other Industry	Under assessment	-33.65087576	150.88063
BRANXTON	Former Service Station Branxton	Part of 70 Maitland STREET	Service Station	Contamination currently regulated under CLM Act	-32.65647051	151.3516199
BRANXTON	Branxton Wastewater Treatment Works	2151 New England HIGHWAY	Other Industry	Regulation under CLM Act not required	-32.66069944	151.3625572
BREWARRINA	Dowell's Fuel	39 Doyle STREET	Service Station	Regulation under CLM Act not required	-29.96152786	146.8612561
BRIGHTON-LE-SANDS	Shell Service Station Brighton Le Sands & adjacent land	2 General Holmes DRIVE	Service Station	Contamination formerly regulated under the CLM Act	-33.9579214	151.1578665
BRIGHTON-LE-SANDS	Cook Park	General Holmes DRIVE	Service Station	Contamination formerly regulated under the CLM Act	-33.9581072	151.1579572
BROADMEADOW	Former Industrial Site	16 Broadmeadow ROAD	Service Station	Regulation under CLM Act not required	-32.91444096	151.7300112
BROADMEADOW	Nineways Broadmeadow Coles Express SS	Corner Brunker Road and Lambton ROAD	Service Station	Regulation under CLM Act not required	-32.92511185	151.7364247
BROKEN HEAD	South Byron Sewage Treatment Works	Broken Head ROAD	Other Industry	Regulation under CLM Act not required	-28.67233626	153.6148974
BROKEN HILL	Former Caltex Depot	3 Kanandah ROAD	Service Station	Regulation under CLM Act not required	-31.98341823	141.4332211
BROKEN HILL	Former Caltex Service Station	167-173 Argent STREET	Service Station	Regulation under CLM Act not required	-31.96066663	141.4624175
BROKEN HILL	Caltex Service Station	535 Argent STREET	Service Station	Regulation under CLM Act not required	-31.95311924	141.4745274
BROKEN HILL	Tasco Petroleum (Former Mobil) Depot	5 Kanandah ROAD	Other Petroleum	Regulation under CLM Act not required	-31.9843986	141.4329127
BROKEN HILL	Former Mobil Aviation Refuelling Facility, Broken Hill Airport	Airport ROAD	Other Petroleum	Regulation under CLM Act not required	-31.99928312	141.4685759
BROKEN HILL	Caltex Service Station	73-87 Oxide STREET	Service Station	Contamination formerly regulated under the CLM Act	-31.95519591	141.4658647

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
BROKEN HILL	Former Mobil Depot	Corner Of Talc Street and Gossan STREET	Other Petroleum	Regulation under CLM Act not required	-31.96018102	141.4514752
BROKEN HILL	Former Gasworks	Cornish STREET	Gasworks	Contamination formerly regulated under the CLM Act	-31.96330562	141.4470611
BROOKLYN	Former Oyster Farm	139 Brooklyn (Off Government) ROAD	Unclassified	Regulation under CLM Act not required	-33.54716867	151.2229744
BROOKVALE	Coles Express Service Station Brookvale	198 Harbord ROAD	Service Station	Regulation under CLM Act not required	-33.76332299	151.2794028
BROOKVALE	Woolworths Petrol Brookvale	756 Pittwater ROAD	Service Station	Regulation under CLM Act not required	-33.76170587	151.2762411
BROOKVALE	Caltex Service Station Brookvale	740-742 Pittwater ROAD	Service Station	Regulation under CLM Act not required	-33.76146721	151.2745358
BROOKVALE	Harrison Manufacturing	75 Old Pittwater ROAD	Other Industry	Regulation under CLM Act not required	-33.76497282	151.2637961
BROOKVALE	Brookvale Bus Depot	630-636 Pittwater ROAD	Other Petroleum	Regulation under CLM Act not required	-33.76641698	151.2705659
BROOKVALE	Warringah Mall	Cnr Condamine Street, Old Pittwater Rd & Cross STREET	Other Industry	Regulation under CLM Act not required	-33.76729923	151.2657272
BROOKVALE	Littles Dry Cleaning	123 Old Pittwater ROAD	Other Industry	Regulation under CLM Act not required	-33.76759121	151.2625932
BROWNSVILLE	Caltex Service Station	342 Kanahooka ROAD	Service Station	Regulation under CLM Act not required	-34.48591734	150.8064373
BRUNSWICK HEADS	Caltex Service Station	5 Tweed STREET	Service Station	Regulation under CLM Act not required	-28.5381619	153.5487135
BUDGEWOI	Colongra Power Station	Off Scenic DRIVE	Other Industry	Under assessment	-33.21463137	151.5529338
BULAHDELAH	Caltex Service Station	8 Red Gum Road, Corner Mahogany STREET	Service Station	Regulation under CLM Act not required	-32.39837094	152.2106015
BULAHDELAH	Former Caltex Service Station	53-59 Bulahdelah WAY	Service Station	Regulation under CLM Act not required	-32.40721638	152.2110291
BULAHDELAH	BP-branded (former Mobil) Service Station	73-75 Bulahdelah WAY	Service Station	Regulation under CLM Act not required	-32.40971018	152.2105785
BULLABURRA	Former Burmah Bullaburra Service Station	367 - 369 Great Western HIGHWAY	Service Station	Regulation under CLM Act not required	-33.72482995	150.4124537
BULLI	Scrap Yard	7 Molloy STREET	Other Industry	Contamination formerly regulated under the CLM Act	-34.33663195	150.9131154
BULLI	Bulli Brickworks	Quilkey PLACE	Other Industry	Regulation under CLM Act not required	-34.33263113	150.9086247
BUNGALORA	Former landfill area	Part of 840 Terranora ROAD	Other Industry	Regulation under CLM Act not required	-28.245029	153.476206
BUNGENDORE	Former Timber Treatment Plant	Corner King Street and Butmaroo STREET	Other Industry	Contamination formerly regulated under the CLM Act	-35.26151273	149.4434907
BURONGA	Caltex Service Station	Sturt Hwy Cnr Silver City HIGHWAY	Service Station	Regulation under CLM Act not required	-34.17056496	142.1813847
BURWOOD	Burwood STA Depot	Cnr Shaftesbury and Parramatta ROADS	Other Industry	Contamination formerly regulated under the CLM Act	-33.86982934	151.1089057
BYRON BAY	Residential Development	Lot 15 Seaview STREET	Unclassified	Regulation under CLM Act not required	-28.65214464	153.6165573
BYRON BAY	Butler Street Reserve Byron Bay	Butler STREET	Landfill	Under preliminary investigation order	-28.6434329	153.6101099
CABARITA	Dulux (Orica Australia)	Cabarita ROAD	Chemical Industry	Contamination formerly regulated under the CLM Act	-33.84643972	151.1157115
CABARITA	Wellcome Soil Containment Cells Cabarita	47 and 48 Phillips STREET	Other Industry	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.85250251	151.1176366
CABRAMATTA	Caltex (former Mobil) Landsvale Service Station	141 Hume HIGHWAY	Service Station	Contamination formerly regulated under the CLM Act	-33.89442261	150.9571507
CABRAMATTA	Caltex Service Station Cabramatta	168 John STREET	Service Station	Regulation under CLM Act not required	-33.89422314	150.9279279
CABRAMATTA	Cabramatta Creek	17 A and 19A Liverpool Street STREET	Unclassified	Regulation under CLM Act not required	-33.90282	150.941563
CABRAMATTA WEST	BP Lansvale	115-119 Hume HIGHWAY	Service Station	Under assessment	-33.894709	150.960511
CALGA	Former service station	101 Peats Ridge ROAD	Service Station	Contamination formerly regulated under the CLM Act	-33.37592138	151.2254951
CALLALA BEACH	Callala Beach General Store	(formerly 1 Quay Rd) 114A Quay ROAD	Service Station	Regulation under CLM Act not required	-35.0101817	150.6964322
CAMBRIDGE GARDENS	Caltex Cambridge Park	1 Boomerang PLACE	Service Station	Regulation under CLM Act not required	-33.74068794	150.717174
CAMDEN	Camden High School (former)	John STREET	Gasworks	Regulation under CLM Act not required	-34.05114079	150.6951285
CAMDEN	Caltex Camden Service Station	21 Barsden STREET	Service Station	Regulation under CLM Act not required	-34.05808413	150.6914744
CAMDEN SOUTH	Coles Express Service Station Camden South	273 Old Hume HIGHWAY	Service Station	Regulation under CLM Act not required	-34.08660995	150.6945444

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
CAMELLIA	Hymix Concrete	14 Grand AVENUE	Metal Industry	Contamination currently regulated under CLM Act	-33.82243454	151.044789
CAMELLIA	Mauri Foods	15 Grand AVENUE	Other Industry	Regulation being finalised	-33.81996985	151.0335725
CAMELLIA	James Hardie Factory (former, eastern portion)	1 Grand AVENUE	Other Industry	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.8182384	151.0261019
CAMELLIA	Bitumen Manufacturer	12 Grand AVENUE	Other Industry	Contamination currently regulated under CLM Act	-33.82189695	151.0429251
CAMELLIA	Hambear	14 Thackeray STREET	Metal Industry	Regulation under CLM Act not required	-33.81920482	151.0419394
CAMELLIA	Former Asciano Properties	39 Grand AVENUE	Chemical Industry	Contamination currently regulated under CLM Act	-33.82056014	151.0443331
CAMELLIA	Railway Land	27 Grand AVENUE	Other Industry	Regulation under CLM Act not required	-33.81910822	151.0382483
CAMELLIA	Wrigg	13 Grand AVENUE	Metal Industry	Under preliminary investigation order	-33.81971361	151.0321525
CAMELLIA	Former Akzo Nobel site	6 Grand AVENUE	Chemical Industry	Contamination currently regulated under CLM Act	-33.82238826	151.0319264
CAMELLIA	Former Shell Clyde Refinery	Durham STREET	Other Industry	Contamination currently regulated under POEO Act	-33.82804924	151.0378966
CAMELLIA	Council Reserve	11B Grand AVENUE	Metal Industry	Regulation under CLM Act not required	-33.81850502	151.0302425
CAMELLIA	Veolia	37 Grand AVENUE	Chemical Industry	Contamination currently regulated under CLM Act	-33.81980027	151.0430689
CAMELLIA	Sydney Water	41 Grand AVENUE	Chemical Industry	Contamination formerly regulated under the CLM Act	-33.8217493	151.0453367
CAMELLIA	Maritime Services Board	33A Grand AVENUE	Metal Industry	Regulation under CLM Act not required	-33.81836086	151.0401249
CAMMERAY	Tunks Park	Brothers AVENUE	Landfill	Contamination formerly regulated under the CLM Act	-33.81734704	151.2113338
CAMMERAY	Coles Express Cammeray	477-483 Miller STREET	Service Station	Regulation under CLM Act not required	-33.82141124	151.2108658
CAMPBELLTOWN	Mobil Service Station	96-98 Queen STREET	Service Station	Regulation under CLM Act not required	-34.06407588	150.8170082
CAMPBELLTOWN	BP Macarthur Service Station	Cnr Blaxland ROAD and Campbelltown ROAD	Service Station	Regulation under CLM Act not required	-34.05312872	150.8234349
CAMPBELLTOWN	Former vehicle wrecking yard	38 Blaxland ROAD	Other Industry	Regulation under CLM Act not required	-34.06055735	150.8130598
CAMPERDOWN	Former Gee Graphics	27 Church STREET	Other Industry	Regulation under CLM Act not required	-33.88737747	151.1773616
CAMPERDOWN	O'Dea Reserve	Salisbury LANE	Landfill	Contamination formerly regulated under the CLM Act	-33.89072786	151.1736948
CAMPERDOWN	The Spruce	12-14 Marsden STREET	Other Industry	Regulation under CLM Act not required	-33.88720632	151.1784514
CAMPSIE	Budget Petroleum and adjacent property	403 Canterbury Road and 1 Una STREET	Service Station	Contamination currently regulated under CLM Act	-33.91605617	151.1086596
CAMPSIE	Former Sunbeam factory	60 Charlotte STREET	Other Industry	Contamination formerly regulated under the CLM Act	-33.92254225	151.1025796
CANLEY HEIGHTS	Former Caltex Canley Heights	368 Canley Vale ROAD	Service Station	Regulation under CLM Act not required	-33.88271081	150.9154176
CANLEY HEIGHTS	Caltex Canley Heights Service Station	280-286 Canley Vale ROAD	Service Station	Regulation under CLM Act not required	-33.88393501	150.9241656
CANLEY VALE	Coles Express Lansvale	99 Hume HIGHWAY	Service Station	Regulation under CLM Act not required	-33.89295753	150.9606136
CANLEY VALE	Former Mobil Service Station	96 Canley Vale ROAD	Service Station	Regulation under CLM Act not required	-33.88591573	150.9369801
CANOWINDRA	BP-branded Jasbe Service Station	76 Rodd STREET	Service Station	Regulation under CLM Act not required	-33.56131773	148.6682805
CANTERBURY	Metro Petroleum Service Station	13-19 Canterbury ROAD	Service Station	Contamination currently regulated under CLM Act	-33.90783455	151.125207
CARDIFF	7-Eleven Service Station	399 Main ROAD	Service Station	Regulation under CLM Act not required	-32.93391137	151.6562111
CARDIFF	Former Caltex Service Station	367 Main ROAD	Service Station	Regulation under CLM Act not required	-32.93761223	151.6577781
CARDIFF	Maneela Oval	Main ROAD	Other Industry	Regulation under CLM Act not required	-32.93018443	151.6435559
CARDIFF	Former Mobil Depot	7 Ranton STREET	Other Petroleum	Regulation under CLM Act not required	-32.94516764	151.6470387
CARDIFF	BP Service Station (Reliance Petroleum)	Corner Sturt and Main ROADS	Service Station	Regulation under CLM Act not required	-32.93792229	151.6569905
CARDIFF	Woolworths (former Mobil) Cardiff Service Station	43 Macquarie ROAD	Service Station	Regulation under CLM Act not required	-32.94118246	151.6578195
CARINGBAH	Adjacent to Spirent Australia	101-103 Cawarra ROAD	Other Industry	Contamination formerly regulated under the CLM Act	-34.03360747	151.1245577

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
CARINGBAH	Former Consumer Health Products Manufacturer	32-40 Cawarra ROAD	Other Industry	Regulation under CLM Act not required	-34.03024369	151.1277755
CARINGBAH	Caltex Lilli Pilli Service Station	477-481 Port Hacking ROAD	Service Station	Regulation under CLM Act not required	-34.05243807	151.1216353
CARINGBAH	7-Eleven Service Station	367 The KINGSWAY	Service Station	Regulation under CLM Act not required	-34.03948677	151.1203268
CARINGBAH	Spirent Australia	105 Cawarra ROAD	Other Industry	Contamination formerly regulated under the CLM Act	-34.03425343	151.1245092
CARINGBAH	BP Caringbah	54 Captain Cook DRIVE	Service Station	Under assessment	-34.032986	151.1250656
CARLINGFORD	Caltex Service Station Carlingford	131 Pennant Hills ROAD	Service Station	Regulation under CLM Act not required	-33.78762398	151.0279422
CARLINGFORD	Caltex Service Station	797 Pennant Hills ROAD	Service Station	Regulation under CLM Act not required	-33.7757819	151.0516532
CARLTON	Shell Coles Express Service Station	277 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-33.9748579	151.1272732
CARRINGTON	Commercial Metals Company (CMC) Australia Pty Ltd	117-121 Bourke STREET	Other Industry	Regulation under CLM Act not required	-32.9148832	151.7677193
CARRINGTON	Carrington redevelopment site	11 Howden STREET	Other Industry	Regulation under CLM Act not required	-32.91309509	151.7625341
CARRINGTON	Forgacs Dockyard	81 Denison STREET	Other Industry	Regulation under CLM Act not required	-32.9207441	151.764816
CARRINGTON	NAT vacant land	Bourke STREET	Unclassified	Regulation under CLM Act not required	-32.91276029	151.7685894
CARRINGTON	Dyke Point Containment Cell	Dyke ROAD	Other Industry	Regulation under CLM Act not required	-32.91763422	151.7727101
CARRINGTON	Carrington Coal Tar Pavements	Bourke Street to Dyke ROAD	Other Industry	Regulation under CLM Act not required	-32.91441348	151.770271
CARRINGTON	Pasminco Ship Loader	Dyke Berth 2 (off Bourke Street) OTHER	Metal Industry	Regulation under CLM Act not required	-32.9148698	151.7716837
CARSS PARK	Vacant Property	334 Princes HIGHWAY	Other Industry	Regulation under CLM Act not required	-33.98628486	151.1133908
CARWELL	Cement Australia Carwell Creek Quarries	Quarry ROAD	Other Industry	Regulation under CLM Act not required	-32.85570277	149.9170908
CASINO	Caltex Service Station and Depot Casino	28 & 32 Dyraaba STREET	Service Station	Regulation under CLM Act not required	-28.85488567	153.044806
CASINO	Caltex Service Station	96 Centre STREET	Service Station	Regulation under CLM Act not required	-28.86539567	153.0450654
CASINO	Former Gasworks	134-136 North STREET	Gasworks	Regulation under CLM Act not required	-28.86080712	153.0526043
CASINO	Woolworths Service Station Casino	130 Canterbury STREET	Service Station	Regulation under CLM Act not required	-28.86231341	153.0464642
CASINO	18 Beith Street, Casino	18 Beith STREET	Unclassified	Regulation under CLM Act not required	-28.84951426	153.0446585
CASINO	Corner Store	30 Barker STREET	Service Station	Regulation under CLM Act not required	-28.86316792	153.0389124
CASINO	Casino Roadhouse	86 Johnston STREET	Service Station	Contamination currently regulated under CLM Act	-28.85960698	153.0562429
CASULA	Caltex Casula Service Station	646 Hume HIGHWAY	Service Station	Regulation under CLM Act not required	-33.95641262	150.8934783
CATHERINE HILL BAY	Catherine Hill Bay Coal Handling and Preparation Plant	1A Keene STREET	Other Industry	Regulation under CLM Act not required	-33.16120556	151.6302456
CESSNOCK	Caltex Cessnock Service Station	103-105 Wollombi (Cnr James Street) ROAD	Service Station	Regulation under CLM Act not required	-32.83936243	151.3430078
CESSNOCK	Former Mobil Service Station	102 Wollombi ROAD	Service Station	Regulation under CLM Act not required	-32.83844074	151.3436022
CESSNOCK	Former Service Station	2-4 Allandale ROAD	Service Station	Regulation under CLM Act not required	-32.83118911	151.3560677
CHARBON	Charbon Colliery	Charbon ROAD	Other Industry	Regulation under CLM Act not required	-32.92390131	149.9839098
CHARLESTOWN	7-Eleven Charlestown	273 Charlestown ROAD	Service Station	Under assessment	-32.95802555	151.6897931
CHARLESTOWN	Caltex Service Station	81 Pacific HIGHWAY	Service Station	Contamination currently regulated under CLM Act	-32.96708479	151.6955919
CHARLESTOWN	Caltex Woolworths (Former BP)	91-93 Pacific HIGHWAY	Service Station	Contamination formerly regulated under the CLM Act	-32.96633569	151.6959051
CHARLESTOWN	Ausgrid Powell Street Depot	8 Powell STREET	Other Industry	Regulation under CLM Act not required	-32.95912375	151.6944136
CHARMHAVEN	Caltex Charmhaven Service Station	13-15 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.21655768	151.5091452
CHATSWOOD	Former Caltex Chatswood Service Station	607 Pacific HIGHWAY	Service Station	Contamination formerly regulated under the CLM Act	-33.80396472	151.1795766
CHATSWOOD	Woolworths Chatswood	364-366 Eastern Valley WAY	Service Station	Regulation under CLM Act not required	-33.78667419	151.2010828

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
CHATSWOOD	Caltex Service Station Chatswood	572 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.80381271	151.1789656
CHATSWOOD	Auto Repairs	2 Devonshire STREET	Service Station	Regulation under CLM Act not required	-33.8015482	151.1859632
CHATSWOOD	Coles Express Service Station Chatswood	877-879 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.79182176	151.1804867
CHATSWOOD WEST	Chatswood Toyota	728 Pacific HIGHWAY	Service Station	Contamination formerly regulated under the CLM Act	-33.79654247	151.1776136
CHERRYBROOK	Caltex Service Station	67 Shepherds DRIVE	Service Station	Regulation under CLM Act not required	-33.72069183	151.0451415
CHESTER HILL	Former Orica, Chester Hill	127 Orchard ROAD	Chemical Industry	Contamination formerly regulated under the CLM Act	-33.8869823	150.9952873
CHIPPENDALE	Frasers Development	Wellington STREET	Chemical Industry	Under preliminary investigation order	-33.88669108	151.2015805
CHIPPING NORTON	Former Solchem (Mobil) Depot Chipping Norton	49-51 Riverside ROAD	Other Petroleum	Regulation under CLM Act not required	-33.91621314	150.9696948
CHIPPING NORTON	Former ACR	85-107 Alfred STREET	Chemical Industry	Contamination currently regulated under CLM Act	-33.92226795	150.9586496
CHISWICK	Former Sydney Wiremills (BHP) site	Blackwall Point ROAD	Other Industry	Regulation under CLM Act not required	-33.85131849	151.1369131
CHITTAWAY BAY	Former Caltex Chittaway Point	100 Chittaway ROAD	Service Station	Regulation under CLM Act not required	-33.32707555	151.4293546
CHULLORA	Chullora Railway Workshops	Worth STREET	Other Industry	Regulation under CLM Act not required	-33.88639388	151.0598201
CLARENCE	Clarence Colliery	Chifley ROAD	Other Industry	Regulation under CLM Act not required	-33.46450217	150.2522729
CLARENDON	Coles Express Clarendon Service Station	244 Hawkesbury Valley WAY	Service Station	Regulation under CLM Act not required	-33.6083729	150.7890956
CLEARFIELD	Former Pamplings Dip Site	Off Clearfield ROAD	Cattle Dip	Regulation under CLM Act not required	-29.16287185	152.882974
CLYBUCCA	BP Service Station	2171 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-30.93845014	152.9422791
CLYDE	7-Eleven Clyde	3 Parramatta Road, corner Harbord STREET	Service Station	Regulation under CLM Act not required	-33.83494433	151.0222628
COBAR	Former Caltex (Bogas) Service Station Cobar	56-58 Marshall STREET	Service Station	Regulation under CLM Act not required	-31.49793339	145.8346684
COBAR	Mckinnons Gold Mine	Cobar ROAD	Metal Industry	Regulation under CLM Act not required	-31.78179755	145.693
COBAR	Caltex Service Station Cobar	99 Marshall (formerly Cnr Barrier Highway and Bathurst Street) STREET	Service Station	Regulation under CLM Act not required	-31.49631924	145.8275727
COBAR	Caltex Service Station	Lot 10 Railway PARADE	Service Station	Regulation under CLM Act not required	-31.49350124	145.8442372
COFFS HARBOUR	BP Service Station	134-136 Pacific HIGHWAY	Service Station	Contamination formerly regulated under the CLM Act	-30.29187037	153.1182106
COFFS HARBOUR	Dan Murphy's Coffs Harbour	10 Elbow STREET	Service Station	Regulation under CLM Act not required	-30.29439262	153.115069
COFFS HARBOUR	Mobil Service Station	314-316 Harbour DRIVE	Service Station	Contamination formerly regulated under the CLM Act	-30.3056983	153.131966
COFFS HARBOUR	Mobil Coffs Harbour Airport	Aviation DRIVE	Other Petroleum	Contamination formerly regulated under the CLM Act	-30.313385	153.1175018
COFFS HARBOUR	Woolworths Petrol	Park Beach Plaza, Arthur STREET	Service Station	Regulation under CLM Act not required	-30.28101154	153.132027
COFFS HARBOUR	Caltex Service Station	157 Orlando STREET	Service Station	Regulation under CLM Act not required	-30.28975334	153.1306354
COFFS HARBOUR	Coffs Harbour Slipway	38 Marina DRIVE	Other Industry	Regulation under CLM Act not required	-30.30325637	153.1441437
COFFS HARBOUR	Aussitel Backpackers Hostel	312 Harbour DRIVE	Service Station	Contamination formerly regulated under the CLM Act	-30.30585731	153.131645
COLEAMBALLY	Former Mobil Coleambally Depot	19 Bencubbin AVENUE	Other Petroleum	Regulation under CLM Act not required	-34.80279552	145.8945239
COLLARENEBRI	Former Shell Depot	Corner Narran Street and Queen STREET	Other Petroleum	Regulation under CLM Act not required	-29.54114772	148.5789365
COLONGRA	Munmorah Colliery	Scenic DRIVE	Other Industry	Regulation under CLM Act not required	-33.21297737	151.5416882
COLONGRA	Endeavour Colliery	Scenic DRIVE	Other Industry	Regulation under CLM Act not required	-33.21297737	151.5416882
COLYTON	Coles Express (former Ampol) Service Station	86-88 Great Western HIGHWAY	Service Station	Contamination currently regulated under CLM Act	-33.77552363	150.7953105
CONCORD	Caltex Service Station	89 Parramatta ROAD	Service Station	Regulation under CLM Act not required	-33.86785624	151.0993769
CONCORD WEST	Caltex Service Station	369-375 Concord ROAD	Service Station	Regulation under CLM Act not required	-33.84113835	151.0888843
CONDOBOLIN	BP-Branded Service Station	38 Denison Street, corner Molong STREET	Service Station	Regulation under CLM Act not required	-33.08520378	147.1524976

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
CONDOBOLIN	Former Mobil Depot	6 Burnett STREET	Other Petroleum	Contamination currently regulated under CLM Act	-33.08010515	147.1642972
CONDOBOLIN	Former Ampol Depot	Cnr Parkes Road and Goobang STREET	Service Station	Regulation under CLM Act not required	-33.08034753	147.1642436
CONDOBOLIN	Former Caltex Depot	Parkes ROAD	Service Station	Regulation under CLM Act not required	-33.08255593	147.1585922
CONDOBOLIN	Mobil Condobolin Depot Railway Siding	Railway Siding behind 6 Burnett STREET	Other Petroleum	Regulation under CLM Act not required	-33.08058612	147.164225
CONSTITUTION HILL	Sydney Water Land	Caloola ROAD	Unclassified	Regulation under CLM Act not required	-33.79776636	150.9697715
COOGEE	Caltex Coogee Service Station	146-148 Coogee Bay (Cnr Mount St) ROAD	Service Station	Regulation under CLM Act not required	-33.91989232	151.2517454
COOKS HILL	Former Council Depot Cooks Hill	152 Bruce Street and 115 Corlette STREET	Other Industry	Regulation under CLM Act not required	-32.93525537	151.7641074
COOLAC	Coolac Service Station	Corner Hume Highway and Coleman STREET	Service Station	Regulation under CLM Act not required	-34.95435052	148.1595525
COOLAH	BP Depot (Reliance Petroleum)	72 (formerly 17-23) Cunningham STREET	Other Petroleum	Regulation under CLM Act not required	-31.82275896	149.7243171
COOLONGOLOOK	Caltex Service Station	Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-32.21648325	152.322813
COOMA	Caltex Cooma Service Station	44 Sharp (Cnr Baron St) STREET	Service Station	Regulation under CLM Act not required	-36.23323489	149.1304134
COOMA	Former Mobil Cooma Depot	2 Commissioner STREET	Other Petroleum	Regulation under CLM Act not required	-36.23267537	149.1346338
COOMA	Former Caltex Cooma Depot	2 Short STREET	Service Station	Regulation under CLM Act not required	-36.2338672	149.1348862
COOMA	Lowes Petroleum Cooma Depot and Service Station (Former BP Reliance Petroleum)	2-4 Sharp STREET	Other Petroleum	Regulation under CLM Act not required	-36.22862603	149.1356483
COOMA	Woolworths Caltex Cooma Service Station	Bombala Street Cnr Massie STREET	Service Station	Regulation under CLM Act not required	-36.23364626	149.1267469
COOMA	Former Shell Depot	48-50 Bradley STREET	Other Petroleum	Regulation under CLM Act not required	-36.23448955	149.1347987
COOMA	Former Shell Service Station	48-52 Sharp STREET	Service Station	Contamination formerly regulated under the CLM Act	-36.23350402	149.1299514
COONABARABRAN	Former Mobil Depot	49 Cowper STREET	Other Petroleum	Regulation under CLM Act not required	-31.27096226	149.2818461
COONABARABRAN	Shell Coles Express Service Station	2-6 John STREET	Service Station	Regulation under CLM Act not required	-31.27706775	149.27836
COONABARABRAN	Former Shell Coonabarabran CVRO	Corner Cowper St and Dawson St, formerly 51 Cowper STREET	Other Petroleum	Regulation under CLM Act not required	-31.27003745	149.281788
COONABARABRAN	Caltex Service Station	Cnr Dawson & Drummond STREET	Service Station	Regulation under CLM Act not required	-31.26994941	149.28183
COONABARABRAN	Caltex Service Station	85-87 John STREET	Service Station	Regulation under CLM Act not required	-31.27231215	149.2771297
COONAMBLE	Former Shell Coonamble Depot	Corner Aberford Street and Quambone ROAD	Other Petroleum	Regulation under CLM Act not required	-30.95349182	148.3793432
COONAMBLE	Caltex Service Station	Quambone ROAD	Service Station	Regulation under CLM Act not required	-30.95410067	148.3792167
COORANBONG	Former Poultry Farm - 91 Alton Road, Cooranbong	64 - 98 Alton ROAD	Unclassified	Regulation under CLM Act not required	-33.06860138	151.4512156
COORANBONG	Avondale Auto Centre	677 Freemans DRIVE	Service Station	Regulation under CLM Act not required	-33.06968809	151.4636293
COOTAMUNDRA	Former BP Depot	1-5 Murray STREET	Other Petroleum	Regulation under CLM Act not required	-34.62915841	148.0306962
COOTAMUNDRA	Caltex Service Station	26-34 Hovell STREET	Service Station	Regulation under CLM Act not required	-34.63624703	148.0347479
COOTAMUNDRA	Former Caltex Depot	219 Sutton STREET	Other Petroleum	Regulation under CLM Act not required	-34.65126548	148.0145283
COOTAMUNDRA	Former Ampol Service Station	72 Parker STREET	Service Station	Regulation under CLM Act not required	-34.63471008	148.0296112
COOTAMUNDRA	Cootamundra Gasworks	140-146 Hovell STREET	Gasworks	Contamination currently regulated under CLM Act	-34.64572841	148.0255049
COOTAMUNDRA	Former Amoco Depot	68-72 Hovell STREET	Other Petroleum	Contamination currently regulated under CLM Act	-34.63871124	148.0321134
COOTAMUNDRA	Former Ampol Cootamundra Rail Siding	Back Brawlin ROAD	Other Petroleum	Regulation under CLM Act not required	-34.65326425	148.0143068
CORAMBA	Martin Street	End of Martin Street and adjacent car park OTHER	Service Station	Ongoing maintenance required to manage residual contamination (CLM Act)	-30.22125208	153.0156997
CORNWALLIS	532 & 562 Cornwallis Road, Cornwallis	532 & 562 Cornwallis ROAD	Other Industry	Under assessment	-33.57506633	150.7803943
COROWA	Corowa Shire Council Works Depot	24 Poseidon ROAD	Other Petroleum	Regulation under CLM Act not required	-35.98807923	146.3652266
COROWA	Former Ampol Corowa	10 Bow STREET	Service Station	Regulation under CLM Act not required	-35.99364786	146.3901259

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
COROWA	Cignall Corowa	280 Hume STREET	Service Station	Under assessment	-36.00996015	146.3760437
CORRIMAL	Woolworths Petrol - Corrimal	275-277 Princes HIGHWAY	Service Station	Under assessment	-34.37527426	150.8962637
CORRIMAL	7-Eleven Corrimal	138-146 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.36986818	150.8978241
COWRA	Landmark Fertiliser Storage Facility	Corner Young Road & Waratah STREET	Chemical Industry	Regulation under CLM Act not required	-33.84321832	148.6722578
COWRA	Lowes Petroleum (former BP Cowra Depot)	12 Campbell STREET	Other Petroleum	Regulation under CLM Act not required	-33.83803706	148.6977873
COWRA	Former Gasworks	30 Brougham STREET	Gasworks	Contamination currently regulated under CLM Act	-33.8389659	148.6963482
COWRA	Shell Depot	34 Brougham STREET	Other Petroleum	Contamination formerly regulated under the CLM Act	-33.83932421	148.6976295
CRANGAN BAY	Big T Roadhouse	555 and 565 Pacific HIGHWAY	Service Station	Contamination currently regulated under CLM Act	-33.17326538	151.6083864
CREMORNE	Shell Coles Express Service Station	225 Military ROAD	Service Station	Regulation under CLM Act not required	-33.83063306	151.226223
CRESTWOOD	Former Caltex Depot Queanbeyan	36 Kendall (Cnr Stephens Rd) AVENUE	Other Petroleum	Regulation under CLM Act not required	-35.34615546	149.207807
CRESTWOOD	Former BP Queanbeyan	64 Uriarra ROAD	Service Station	Regulation under CLM Act not required	-35.34646177	149.2246263
CRONULLA	Breen Holdings	Bate Bay ROAD	Other Industry	Regulation under CLM Act not required	-34.03861737	151.1614114
CROWS NEST	Caltex Service Station	111-121 Falcon STREET	Service Station	Regulation under CLM Act not required	-33.82868236	151.2060317
CROYDON	Caltex Service Station	404-410 Liverpool ROAD	Service Station	Regulation under CLM Act not required	-33.88853994	151.115879
CROYDON	BP Ashfield	584 Parramatta ROAD	Service Station	Regulation under CLM Act not required	-33.87399409	151.1267296
CROYDON PARK	Mobil Service Station	334 Georges River ROAD	Service Station	Regulation under CLM Act not required	-33.89771626	151.0999194
CULCAIRN	Caltex Service Station	2883 Olympic HIGHWAY	Service Station	Regulation under CLM Act not required	-35.67441635	147.0356845
CULLEN BULLEN	Baal Bone Colliery	Castlereagh HIGHWAY	Other Industry	Regulation under CLM Act not required	-33.27193875	150.0587194
CUNDLETOWN	Caltex Service Station (1 Manning River Drive)	Old Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-31.89329598	152.5068225
CURL CURL	John Fisher Park	Corner Harbord and Abbott ROADS	Landfill	Regulation under CLM Act not required	-33.76622613	151.2860705
DACEYVILLE	Astrolabe Park	Cook AVENUE	Landfill	Regulation under CLM Act not required	-33.92963704	151.221773
DAPTO	RailCorp Dapto	(Rear of property) 12-14 Hamilton STREET	Other Industry	Regulation under CLM Act not required	-34.50045405	150.787353
DAPTO	Nicheinvest Pty Ltd	133-139 Lakelands DRIVE	Service Station	Under assessment	-34.50335	150.803144
DARLINGHURST	Proposed Retail Unit	139-155 Palmer STREET	Unclassified	Regulation under CLM Act not required	-33.87504688	151.2168106
DARLINGHURST	Cross City Tunnel	Riley Street and William STREET	Service Station	Contamination was addressed via the planning process (EP&A Act)	-33.87424636	151.2158305
DARLINGHURST	18-28 Neild Avenue, Darlinghurst	18-28 Neild AVENUE	Landfill	Regulation under CLM Act not required	-33.87876581	151.2276546
DEE WHY	United Dee Why	1 The Strand STREET	Service Station	Contamination currently regulated under POEO Act	-33.75569207	151.2959451
DEE WHY	Caltex Service Station	793-797 Pittwater ROAD	Service Station	Regulation under CLM Act not required	-33.74566596	151.2920719
DEE WHY	Dee Why Town Centre	Pittwater ROAD	Other Industry	Regulation under CLM Act not required	-33.753169	151.2875805
DEE WHY	Roche Products Dee Why Facility	Inman ROAD	Other Industry	Contamination currently regulated under CLM Act	-33.73834964	151.2876392
DENHAM COURT	Denham Court Caravan Park and Service Station	505 Campbelltown ROAD	Service Station	Under assessment	-33.98208395	150.8459471
DENILIQUIN	Shell Coles Express Service Station	336 Victoria STREET	Service Station	Contamination formerly regulated under the CLM Act	-35.52373613	144.9807345
DENILIQUIN	Former Deniliquin Gasworks	365, 369 and 329-331 George and 380 and 386 Charlotte STREET	Gasworks	Under assessment	-35.52663588	144.9634994
DENILIQUIN	Landmark Fertiliser Storage Facility	99-101 Davidson STREET	Chemical Industry	Regulation under CLM Act not required	-35.52534735	144.975142
DENILIQUIN	Former Deniliquin Caltex Depot	116-118 Hardinge (Cnr Wood St) STREET	Service Station	Regulation under CLM Act not required	-35.53196985	144.9544597
DENILIQUIN	BP Depot (Reliance Petroleum)	125 - 127 Hardinge STREET	Service Station	Regulation under CLM Act not required	-35.53222124	144.9517397
DENILIQUIN	Former Shell Depot	143-147 Napier STREET	Other Petroleum	Regulation under CLM Act not required	-35.5342355	144.953169

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
DENMAN	Former Industrial Site	10 Fontana WAY	Metal Industry	Regulation under CLM Act not required	-32.37945456	150.6868239
DENMAN	Former Industrial Site	9 Fontana WAY	Metal Industry	Regulation under CLM Act not required	-32.37911159	150.6869866
DORA CREEK	Former Service Station	4 Doree PLACE	Service Station	Regulation under CLM Act not required	-33.08452746	151.502415
DOYALSON	Part Lot 3 DP 259306	Off David STREET	Other Industry	Regulation under CLM Act not required	-33.20436131	151.5232558
DOYALSON	Munmorah Power Station	(Central Coast Highway) Scenic DRIVE	Unclassified	Regulation under CLM Act not required	-33.20678347	151.540795
DOYALSON	Mannering Colliery (formerly Wyee)	Rutleys ROAD	Other Industry	Regulation under CLM Act not required	-33.17179576	151.5419248
DOYALSON NORTH	Caltex Service Station	235 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.18501024	151.5526114
DOYALSON NORTH	Shell Coles Express Service Station	260-270 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.18636608	151.5482399
DRUMMOYNE	Coles Express Service Station Drummoyne (Eastbound)	36-46 Victoria ROAD	Service Station	Regulation under CLM Act not required	-33.85576628	151.1593519
DRUMMOYNE	Former Dry Cleaners	225 Victoria ROAD	Chemical Industry	Regulation under CLM Act not required	-33.8507152	151.1537113
DRUMMOYNE	Coles Express Service Station Drummoyne South (Westbound)	39-45 Victoria ROAD	Service Station	Regulation under CLM Act not required	-33.85606575	151.1589061
DRUMMOYNE	Caltex Service Station	191-195 Lyons ROAD	Service Station	Regulation under CLM Act not required	-33.85699216	151.1460356
DUBBO	BP Reliance Petroleum Service Station (Former Mobil Depot)	107 Erskine STREET	Other Petroleum	Regulation under CLM Act not required	-32.24441287	148.6111704
DUBBO	Dubbo Police Station	143 Brisbane STREET	Other Petroleum	Regulation under CLM Act not required	-32.24652288	148.6034702
DUBBO	Shell Coles Express Service Station	131-133 Cobra STREET	Service Station	Regulation under CLM Act not required	-32.25511317	148.6126147
DUBBO	Shell Coles Express Service Station	45-49 Whylandra STREET	Service Station	Regulation under CLM Act not required	-32.2474598	148.5932769
DUBBO	Former Mobil depot	40-44 Morgan STREET	Other Petroleum	Regulation under CLM Act not required	-32.23912277	148.6182711
DUBBO	Caltex Service Station, Dubbo	60 Windsor PARADE	Service Station	Regulation under CLM Act not required	-32.25459322	148.6318
DUBBO	BP-Branded Service Station Dubbo West	51-63 Whylandra STREET	Service Station	Regulation under CLM Act not required	-32.24827657	148.5927084
DUBBO	Lowes Petroleum (BP-Branded) Depot, Dubbo	105 Erskine STREET	Service Station	Regulation under CLM Act not required	-32.24423247	148.6101676
DUBBO	Inland Petroleum (Former Shell) Depot	109 Erskine STREET	Other Petroleum	Regulation under CLM Act not required	-32.24470512	148.6124108
DUBBO	Former Caltex Depot	Phillip (corner Fitzroy) STREET	Service Station	Regulation under CLM Act not required	-32.24534863	148.6150144
DUBBO	Caltex Service Station	119 Bourke STREET	Service Station	Regulation under CLM Act not required	-32.24336464	148.6091931
DUBBO	Former Ambulance Station	165 Brisbane STREET	Other Petroleum	Contamination formerly regulated under the CLM Act	-32.24850755	148.6031749
DUBBO	United (former Volume Plus) Service Station	219-223 Cobra STREET	Service Station	Regulation under CLM Act not required	-32.2565155	148.6228586
DUBBO	Caltex Service Station, Dubbo	Cnr Brisbane Street and Cobra STREET	Service Station	Contamination currently regulated under CLM Act	-32.25322183	148.603164
DULWICH HILL	Former Tyre Recapping	115-117 Constitution ROAD	Other Industry	Regulation under CLM Act not required	-33.90300876	151.1387724
DULWICH HILL	Denison Road Playground	194 Denison ROAD	Landfill	Regulation under CLM Act not required	-33.90121956	151.1404637
DUNEDOO	Former Shell Depot Dunedoo	Cnr Bolaro and Redbank STREET	Other Petroleum	Regulation under CLM Act not required	-32.01565761	149.3922418
DUNGOG	Lot 54 Common Rd	54 Common ROAD	Unclassified	Regulation under CLM Act not required	-32.39490989	151.739821
DUNGOG	Former HWC Maintenance Depot for Civil Engineering Works	86 Abelard STREET	Other Industry	Regulation under CLM Act not required	-32.40429396	151.7514073
DUNMORE	Equestrian Centre	71 Fig Hill LANE	Unclassified	Regulation under CLM Act not required	-34.62313393	150.8421544
DURAL	Caltex Dural Service Station	917-923 Old Northern ROAD	Service Station	Regulation under CLM Act not required	-33.68312075	151.0287519
DURAL	BP Dural Service Station	580 Old Northern ROAD	Service Station	Regulation under CLM Act not required	-33.69569985	151.0283357
DURAL	Caltex Service Station	530 Old Northern ROAD	Service Station	Regulation under CLM Act not required	-33.69348472	151.0202716
DURAL	Woolworths Service Station	532 Old Northern ROAD	Service Station	Regulation under CLM Act not required	-33.69348472	151.0202716
EAGLE VALE	BP Service Station	Corner Eagle Vale Drive and Gould ROAD	Service Station	Regulation under CLM Act not required	-34.03128043	150.816363

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
EARLWOOD	RTA Land	3 Jackson PLACE	Unclassified	Contamination being managed via the planning process (EP&A Act)	-33.9272087	151.1432854
EARLWOOD	Wolli Creek Aqueduct	Unwin STREET	Unclassified	Regulation under CLM Act not required	-33.92788788	151.1480807
EARLWOOD	2, 4 & 6 Unwin Street Earlwood	2, 4 & 6 Unwin STREET	Landfill	Regulation under CLM Act not required	-33.92683423	151.1495176
EAST BALLINA	Caltex East Ballina Service Station	34 Links AVENUE	Service Station	Regulation under CLM Act not required	-28.85009113	153.5829246
EAST GOSFORD	Presbyterian Aged Care Facility	8-18 Enid CRESCENT	Landfill	Regulation under CLM Act not required	-33.4376675	151.3577947
EAST GOSFORD	Mobil Service Station	44 Victoria STREET	Service Station	Contamination formerly regulated under the CLM Act	-33.43804781	151.353303
EAST GOSFORD	Hylton Moore Park	Althrop STREET	Landfill	Under assessment	-33.43521607	151.3600229
EAST MAITLAND	United Service Station East Maitland	164 (also known as 250) Newcastle STREET	Service Station	Regulation under CLM Act not required	-32.75248998	151.5869338
EAST MAITLAND	Woolworths Caltex Green Hills	14 Mitchell DRIVE	Service Station	Regulation under CLM Act not required	-32.76182386	151.5927863
EAST MAITLAND	Former Gasworks Site	Corner Melbourne Street and Brisbane STREET	Gasworks	Regulation under CLM Act not required	-32.74939199	151.5788783
EAST MAITLAND	Caltex East Maitland Service Station	Newcastle Road, Corner William STREET	Service Station	Regulation under CLM Act not required	-32.74883712	151.5829296
EAST TAMWORTH	Caltex Service Station	350-362 Armidale ROAD	Service Station	Regulation under CLM Act not required	-31.11401974	150.9613327
EASTERN CREEK	Caltex Service Station	M4 (Eastbound) MOTORWAY	Service Station	Regulation under CLM Act not required	-33.801607	150.8857989
EASTERN CREEK	Caltex Service Station M4 Motorway Westbound	M4 (Westbound) MOTORWAY	Service Station	Regulation under CLM Act not required	-33.80255701	150.8829211
EASTERN CREEK	Fulton Hogan Industries (formerly Pioneer Road Services)	Honeycomb DRIVE	Other Industry	Regulation under CLM Act not required	-33.80231274	150.8288299
EASTGARDENS	130-150 Bunnerong Road Eastgardens	130 - 150 Bunnerong ROAD	Other Industry	Regulation under CLM Act not required	-33.94230414	151.2248138
EASTLAKES	Former Shell Rosebery service station and adjacent land	275-279 Gardeners ROAD	Service Station	Contamination formerly regulated under the CLM Act	-33.92470279	151.2100722
EASTLAKES	Eastlakes Reserve	Evans AVENUE	Service Station	Contamination formerly regulated under the CLM Act	-33.92497291	151.2102725
EASTLAKES	Budget Petroleum Eastlakes	102 Maloney STREET	Service Station	Contamination formerly regulated under the CLM Act	-33.93096702	151.2056606
EASTLAKES	Budget Petroleum Eastlakes	102 Maloney STREET	Service Station	Contamination formerly regulated under the CLM Act	-33.93120382	151.2054267
EASTLAKES	73 Gardeners Road	73 Gardeners ROAD	Unclassified	Regulation under CLM Act not required	-33.92541594	151.2182856
EASTWOOD	Former Mobil Service Station Eastwood	3-5 Trelawney (Cnr Rutledge St) STREET	Service Station	Regulation under CLM Act not required	-33.79273381	151.079584
EDEN	Caltex Service Station	159 Imlay STREET	Service Station	Regulation under CLM Act not required	-37.06324099	149.9044022
EDEN	Former Caltex Eden Depot	80-82 Imlay STREET	Service Station	Contamination currently regulated under CLM Act	-37.0570984	149.9038538
EDENSOR PARK	Caltex Bonnyrigg Service Station, Edensor Park	549 Elizabeth DRIVE	Service Station	Regulation under CLM Act not required	-33.88840816	150.8822609
EDENSOR PARK	7-Eleven (former Mobil) Service Station	615-621 Cowpasture Road (Cnr Elizabeth) DRIVE	Service Station	Regulation under CLM Act not required	-33.88326139	150.865591
EDGECLIFF	BP-branded (former Coles Express) Service Station	73-85A New South Head ROAD	Service Station	Regulation under CLM Act not required	-33.8769602	151.2311617
EDGEWORTH	Caltex Service Station	662 Main ROAD	Service Station	Regulation under CLM Act not required	-32.92566329	151.6278888
EDGEWORTH	Caltex-Woolworths Branded Service Station Edgeworth	738-742 Main ROAD	Service Station	Under assessment	-32.92455492	151.6202897
EMERALD BEACH	Shell Coles Express Woolgoolga Service Station	1850 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-30.16450856	153.1826673
EMERTON	7-Eleven Emerton	135-137 Popondetta ROAD	Service Station	Regulation under CLM Act not required	-33.74463908	150.8102251
EMU HEIGHTS	7-Eleven Service Station	126 Old Bathurst ROAD	Service Station	Regulation under CLM Act not required	-33.74299098	150.6547098
EMU HEIGHTS	Woolworths Service Station	132 Old Bathurst ROAD	Service Station	Regulation under CLM Act not required	-33.7429739	150.6559655
EMU PLAINS	Woolworths Service Station	283 Great Western HIGHWAY	Service Station	Regulation under CLM Act not required	-33.75371349	150.6530165
ENGADINE	Former Caltex Service Station	995 Old Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.06413459	151.0155734
ENGADINE	BP Service Station	1234 Princes HIGHWAY	Service Station	Contamination currently regulated under CLM Act	-34.07735416	151.01121
ENGADINE	BP Branded Service Station	963 Old Princes HIGHWAY	Service Station	Contamination currently regulated under CLM Act	-34.06428454	151.0167121

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
EPPING	7-Eleven (former Mobil) Service Station	246 Beecroft ROAD	Service Station	Regulation under CLM Act not required	-33.77073552	151.080581
ERINA	Coles Express Service Station Erina	211 The Entrance ROAD	Service Station	Regulation under CLM Act not required	-33.43547804	151.3850522
ERINA	7-Eleven Erina	214 The Entrance ROAD	Service Station	Regulation under CLM Act not required	-33.43494257	151.3879511
ERINA	7-Eleven Service Station	96 The Entrance ROAD	Service Station	Regulation under CLM Act not required	-33.43786868	151.3729331
ERINA	Former Frozen Food Distribution Depot	1 Aston ROAD	Other Petroleum	Contamination currently regulated under CLM Act	-33.434878	151.3845431
ERINA	Caltex Service Station	155 The Entrance ROAD	Service Station	Regulation under CLM Act not required	-33.43824871	151.3801096
ERMINGTON	Blue Star Ermington	700 Victoria ROAD	Service Station	Regulation under CLM Act not required	-33.80859566	151.0660133
ERMINGTON	Caltex Service Station	562 Victoria ROAD	Service Station	Regulation under CLM Act not required	-33.81392814	151.0547543
ERSKINE PARK	Western Sydney Service Centre	25-55 Templar ROAD	Other Industry	Regulation under CLM Act not required	-33.81897822	150.7937394
ERSKINEVILLE	Redevelopment Site (Former Industrial Park) Erskineville	36/1A Coulson STREET	Other Industry	Regulation under CLM Act not required	-33.90325501	151.1855668
ERSKINEVILLE	Department of Housing	52 John STREET	Other Industry	Regulation under CLM Act not required	-33.8982925	151.1840284
ERSKINEVILLE	RailCorp land	Coulson STREET	Other Industry	Regulation under CLM Act not required	-33.90279502	151.1846827
ERSKINEVILLE	Lot 4/1A Coulson Street	Coulson STREET	Other Industry	Regulation under CLM Act not required	-33.90316549	151.1867963
ERSKINEVILLE	Area B - Public Domain / The Roadway	1A Coulson STREET	Other Petroleum	Regulation under CLM Act not required	-33.90479634	151.1871194
EUABALONG WEST	BP Euabalong West Depot (Reliance Petroleum)	12 Illewong STREET	Other Petroleum	Regulation under CLM Act not required	-33.05720426	146.3946386
EVANS HEAD	Evans Head Aerodrome	Memorial Airport DRIVE	Other Industry	Regulation under CLM Act not required	-29.10389976	153.4216791
EVANS HEAD	Bundjalung National Park	The Gap ROAD	Unclassified	Regulation under CLM Act not required	-29.24433977	153.3626472
EVANS HEAD	Evans Head Residential subdivision	Bounded by Currajong, Woodburn, Carrabeen Streets and Tuckeroo CRESCENT	Unclassified	Regulation under CLM Act not required	-29.1080969	153.4243577
EVELEIGH	Macdonaldtown Triangle	Burren STREET	Gasworks	Contamination being managed via the planning process (EP&A Act)	-33.89803492	151.186059
EVELEIGH	Australian Technology Park	Henderson ROAD	Other Industry	Regulation under CLM Act not required	-33.89634136	151.1944915
FAIRFIELD	Endeavour Energy Fairfield Zone Substation	22 Hedges STREET	Other Industry	Regulation under CLM Act not required	-33.86133019	150.9555899
FAIRFIELD EAST	Speedway-Branded Service Station Fairfield	251 The Horsley DRIVE	Service Station	Regulation under CLM Act not required	-33.8711661	150.9630077
FAIRFIELD HEIGHTS	7-Eleven Fairfield Heights	234 Hamilton (Cnr The Boulevarde) ROAD	Service Station	Regulation under CLM Act not required	-33.87208474	150.9373134
FAIRY MEADOW	Woolworths Petrol Service Station	47 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.39399705	150.8925369
FAIRY MEADOW	Caltex Fuel Depot and adjoining land	46 Montague STREET	Service Station	Contamination formerly regulated under the CLM Act	-34.40050499	150.8953125
FAIRY MEADOW	Deynal (Seeman)	51-59 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.39437085	150.8924666
FARLEY	Farley Wastewater Treatment Works	Owlpen LANE	Other Industry	Regulation under CLM Act not required	-32.74431314	151.5194217
FASSIFERN	Newstan Colliery	Fassifern ROAD	Other Industry	Regulation under CLM Act not required	-32.97942521	151.5660046
FASSIFERN	Former Arsenic Smelter	Fassifern ROAD	Other Industry	Regulation under CLM Act not required	-32.99649819	151.5618283
FEDERAL	Federal General Store	3-6 Federal DRIVE	Service Station	Contamination formerly regulated under the CLM Act	-28.65190728	153.4552976
FERN BAY	Former service station	37 Fullerton (1006 Nelson Bay Road) STREET	Service Station	Regulation under CLM Act not required	-32.87245004	151.7939904
FIVE DOCK	7-Eleven Five Dock Service Station	231-235 Great North ROAD	Service Station	Regulation under CLM Act not required	-33.86488376	151.130002
FIVE DOCK	Caltex Five Dock Service Station	47 Ramsay Road, corner Fairlight STREET	Service Station	Regulation under CLM Act not required	-33.87002804	151.1301835
FORBES	BP (Former Mobil) Depot Forbes	3-15 Union STREET	Other Petroleum	Regulation under CLM Act not required	-33.37751977	148.0101422
FORBES	Former Gasworks	24-26 Union STREET	Gasworks	Contamination currently regulated under CLM Act	-33.37752036	148.0090064
FORBES	Woolworths (Former Save on Fuel) Service Station	26 Dowling STREET	Service Station	Regulation under CLM Act not required	-33.38148764	148.0109845
FORBES	BP Service Station Forbes	29 Dowling STREET	Other Petroleum	Regulation under CLM Act not required	-33.38121776	148.0100351

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
FORBES	Former Shell Depot	Stephen STREET	Other Petroleum	Regulation under CLM Act not required	-33.37704755	148.0103001
FORBES	Caltex Service Station Forbes	Parkes ROAD	Service Station	Regulation under CLM Act not required	-33.36333714	148.0223727
FORESTVILLE	BP Service Station	632 Warringah ROAD	Service Station	Contamination currently regulated under CLM Act	-33.75997969	151.2142944
FORESTVILLE	Shell Service Station	667 Warringah ROAD	Service Station	Regulation under CLM Act not required	-33.76035336	151.2184929
FORRESTERS BEACH	Caltex Service Station	The Entrance Rd Cnr Bellevue ROAD	Service Station	Regulation under CLM Act not required	-33.40057818	151.4687631
FORSTER	Caltex Service Station	16-18 Lake STREET	Service Station	Regulation under CLM Act not required	-32.18306967	152.5162492
FORSTER	Shell (Kneebone's) Service Station	2-6 The Lakes WAY	Service Station	Regulation under CLM Act not required	-32.1946108	152.5145662
FORSTER	Enhance (Former Mobil) Service Station	86-88 Macintosh STREET	Service Station	Regulation under CLM Act not required	-32.19079468	152.5154847
FREDERICKTON	Former Service station	2-4 Great North ROAD	Service Station	Regulation under CLM Act not required	-31.03513998	152.8794105
FRENCHS FOREST	Former BP Service Station	Russell AVENUE	Service Station	Regulation under CLM Act not required	-33.75018093	151.2245005
FRENCHS FOREST	Former 7-Eleven / Mobil Beacon Hill Service Station, Frenchs Forest	312 Warringah ROAD	Service Station	Regulation under CLM Act not required	-33.75129647	151.2469656
FRESHWATER	Prime Service Station Freshwater	117 Harbord ROAD	Service Station	Regulation under CLM Act not required	-33.77286748	151.2794354
GEORGETOWN	Former Caltex Service Station	4 Georgetown ROAD	Service Station	Regulation under CLM Act not required	-32.91121105	151.7319693
GERRINGONG	Gerringong Cooperative	18 Belinda STREET	Other Petroleum	Regulation under CLM Act not required	-34.74518835	150.8181054
GILGANDRA	United (Former Mobil) Service Station	13 Castlereagh STREET	Service Station	Regulation under CLM Act not required	-31.71715641	148.6581574
GILGANDRA	Former Mobil Depot	2 Federation STREET	Other Petroleum	Regulation under CLM Act not required	-31.70937362	148.6522102
GILGANDRA	Former Mobil Depot	20 Federation STREET	Other Petroleum	Regulation under CLM Act not required	-31.70771744	148.6514198
GILGANDRA	Caltex Service Station Gilgandra	6425 Newell HIGHWAY	Service Station	Regulation under CLM Act not required	-31.72545524	148.65281
GILLENBAH	Caltex (Former Mobil) Narrandera Service Station	16321 - 16335 Newell HIGHWAY	Service Station	Regulation under CLM Act not required	-34.76124219	146.5398604
GIRRAWEEN	Industrial Galvanizers site	20-22 Amax AVENUE	Metal Industry	Contamination currently regulated under POEO Act	-33.80500693	150.9396743
GIRRAWEEN	Caltex Pendle Hill Service Station Girraween	602 Great Western HIGHWAY	Service Station	Regulation under CLM Act not required	-33.80827518	150.9421511
GLADESVILLE	Caltex Service Station	287-295 Victoria ROAD	Service Station	Regulation under CLM Act not required	-33.8285374	151.1268639
GLADESVILLE	Road Reserve	Pittwater ROAD	Other Industry	Regulation under CLM Act not required	-33.81603924	151.1355085
GLADESVILLE	Caltex Service Station	116 Victoria ROAD	Service Station	Regulation under CLM Act not required	-33.83575319	151.1277863
GLADESVILLE	Glade View Business Park	436-484 Victoria ROAD	Other Industry	Under assessment	-33.82382382	151.1223941
GLEBE	The Hill and Jubilee Embankment	12 Maxwell ROAD	Other Industry	Regulation under CLM Act not required	-33.87573032	151.1776027
GLEN INNES	Ambulance Station	106 Bourke STREET	Unclassified	Regulation under CLM Act not required	-29.73805854	151.7313138
GLEN INNES	Telstra Depot Glen Innes	126 Lambeth STREET	Unclassified	Regulation under CLM Act not required	-29.73565341	151.7278271
GLEN INNES	Caltex Glen Innes Service Station	Meade Street, corner Church STREET	Service Station	Regulation under CLM Act not required	-29.73699014	151.7379335
GLEN INNES	Former Shell Depot	Lambeth STREET	Other Petroleum	Regulation under CLM Act not required	-29.7376309	151.7276309
GLEN INNES	Former Caltex Depot, Glen Innes	Lot 1 DP785636 Lambeth STREET	Other Petroleum	Regulation under CLM Act not required	-29.73525485	151.7279167
GLEN INNES	Council-owned Laneway	Lot 2 Lang STREET	Gasworks	Regulation under CLM Act not required	-29.74385432	151.7323049
GLEN INNES	Caltex Service Station	Cnr Taylor Street & Church STREET	Service Station	Regulation under CLM Act not required	-29.73289036	151.739653
GLEN INNES	Caltex Glen Innes Paddock	9979 New England HIGHWAY	Service Station	Regulation under CLM Act not required	-29.75608853	151.7344106
GLENBROOK	Caltex Service Station Glenbrook	78 Great Western HIGHWAY	Service Station	Regulation under CLM Act not required	-33.76545234	150.6215447
GLENDALE	Coles Express Glendale	593 Main ROAD	Service Station	Regulation under CLM Act not required	-32.92709242	151.637946
GLENDALE	Settlement Pond	65 Glendale DRIVE	Unclassified	Regulation under CLM Act not required	-32.93411399	151.6483695

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
GLENDALE	Former Service Station	334-342 Lake ROAD	Unclassified	Regulation under CLM Act not required	-32.92775076	151.6433463
GLENDALE	Woolworths Service Station	Stockland DRIVE	Service Station	Regulation under CLM Act not required	-32.93250548	151.6404097
GLENDENNING	7-Eleven Plumpton Service Station Glendenning	1 Dublin Street, corner Richmond ROAD	Service Station	Regulation under CLM Act not required	-33.73988232	150.8603323
GLENORIE	Caltex Glenorie Service Station	912 Old Northern ROAD	Service Station	Regulation under CLM Act not required	-33.60550946	151.0126731
GLENTHORNE	Caltex Taree Service Station	Manning River DRIVE	Service Station	Regulation under CLM Act not required	-31.94415251	152.4703511
GLOUCESTER	Caltex Service Station	141 Church STREET	Service Station	Regulation under CLM Act not required	-32.01222514	151.9579521
GOOLMANGAR	Goolmangar General Store	851 Nimbin ROAD	Service Station	Regulation under CLM Act not required	-28.74694441	153.225401
GOONELLABAH	Former Invercauld Road Cattle Dip	161 Invercauld ROAD	Cattle Dip	Contamination formerly regulated under the CLM Act	-28.8308417	153.3098878
GOSFORD	United (former Mobil) Depot	Corner Merinee Road and Bowen CRESCENT	Other Petroleum	Regulation under CLM Act not required	-33.41523225	151.3257069
GOULBURN	Former Goulburn Gasworks	1 Blackshaw ROAD	Gasworks	Contamination currently regulated under CLM Act	-34.75237525	149.725507
GOULBURN	Goulburn Tannery	13 Gibson STREET	Other Industry	Regulation under CLM Act not required	-34.73756525	149.72059
GOULBURN	Caltex Depot	13 Sloane STREET	Other Petroleum	Regulation under CLM Act not required	-34.77423152	149.7088626
GOULBURN	Metro Goulburn Depot	23 Braidwood ROAD	Other Petroleum	Regulation under CLM Act not required	-34.76217302	149.7170897
GOULBURN	Caltex Service Station	72-74 Clinton STREET	Service Station	Regulation under CLM Act not required	-34.75728157	149.7135824
GOULBURN	Caltex Service Station	68 Goldsmith STREET	Service Station	Regulation under CLM Act not required	-34.75054432	149.7192098
GOULBURN	Former Shell Autoport Service Station	Corner Bruce Street and Lagoon STREET	Service Station	Regulation under CLM Act not required	-34.74807885	149.7266246
GOULBURN	Coles Express Service Station	90 Cowper (Corner Clinton Street) STREET	Service Station	Regulation under CLM Act not required	-34.75566648	149.7107831
GOULBURN	Mobil Service Station	129 Lagoon STREET	Service Station	Contamination formerly regulated under the CLM Act	-34.74618793	149.7330484
GOULBURN	Caltex Service Station	315 Auburn, corner Bradley STREET	Service Station	Regulation under CLM Act not required	-34.74942293	149.7232692
GOULBURN	Former Mobil Service Station Goulburn	422-426 Auburn STREET	Service Station	Regulation under CLM Act not required	-34.74869879	149.7229392
GRAFTON	Former General Store and Service Station Grafton	161 Turf STREET	Service Station	Regulation under CLM Act not required	-29.67412811	152.9336609
GRAFTON	Lowes Petroleum (BP-Branded) Depot, Grafton	13 Orara STREET	Other Petroleum	Regulation under CLM Act not required	-29.67016421	152.918161
GRAFTON	Former Shell Depot	2 Milton STREET	Other Petroleum	Regulation under CLM Act not required	-29.67723019	152.9205374
GRAFTON	Grafton Works Depot	26-28 Bruce STREET	Other Petroleum	Regulation under CLM Act not required	-29.67975507	152.9249357
GRAFTON	Former BP Service Station (Reliance Petroleum)	202 Queen STREET	Service Station	Regulation under CLM Act not required	-29.67645469	152.9423977
GRAFTON	Woolworths Petrol	75 - 77 Fitzroy Street Cnr of Duke STREET	Service Station	Regulation under CLM Act not required	-29.69221713	152.9343562
GRAFTON	Caltex Service Station	Corner Villiers St and Fitzroy STREET	Service Station	Regulation under CLM Act not required	-29.69296308	152.9366431
GRAFTON	BP Service Station (Reliance Petroleum)	14 Villiers (Cnr Fitzroy) STREET	Service Station	Regulation under CLM Act not required	-29.69345456	152.9373123
GRAFTON	Former Mobil Depot Grafton	2-16 Bruce STREET	Other Petroleum	Regulation under CLM Act not required	-29.68093591	152.9231289
GRAFTON	Caltex Service Station	179 Prince STREET	Service Station	Regulation under CLM Act not required	-29.68600117	152.9371093
GRANVILLE	Caltex Service Station	144 Parramatta ROAD	Service Station	Regulation under CLM Act not required	-33.83039605	151.0109216
GRANVILLE	Australand	15-17 Berry STREET	Other Industry	Regulation under CLM Act not required	-33.83600073	151.0211988
GRANVILLE	Woolworths Service Station Granville	158 Clyde STREET	Service Station	Regulation under CLM Act not required	-33.84623338	151.0124885
GRANVILLE	Commercial Property	2B Factory STREET	Other Industry	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.84173556	151.0165687
GRANVILLE	Old Granville Depot	23 Elizabeth STREET	Unclassified	Regulation under CLM Act not required	-33.83765925	151.008528
GRANVILLE	7-Eleven Service Station	154-160 Parramatta ROAD	Service Station	Regulation under CLM Act not required	-33.83022685	151.0101322
GRANVILLE	A'Becketts Creek	Albert STREET	Unclassified	Under assessment	-33.82735397	151.0113643

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
GREENACRE	Former Plating Works	12 Claremont STREET	Unclassified	Regulation under CLM Act not required	-33.89992254	151.0386128
GREENACRE	7-Eleven (former Mobil) Service Station	301-305 Hume HIGHWAY	Service Station	Regulation under CLM Act not required	-33.90524488	151.0419971
GREENACRE	Caltex Service Station	87 - 91 Roberts ROAD	Service Station	Regulation under CLM Act not required	-33.90461089	151.0648581
GREENACRE	Coles Greenacre	13-19 Boronia ROAD	Other Industry	Under assessment	-33.9061123	151.0561759
GREENWICH	Gore Creek Reserve - Drainage Line	St Vincents ROAD	Other Industry	Regulation under CLM Act not required	-33.82888693	151.1819101
GRENFELL	Former SRA Fuel Depot	Grafton STREET	Other Petroleum	Regulation under CLM Act not required	-33.89351237	148.1560188
GRENFELL	Grenfell Gasworks	Corner Goolooogong Road & Bourke STREET	Gasworks	Regulation under CLM Act not required	-33.89006016	148.1615443
GRETA	Coles Express Greta	122 New England HIGHWAY	Service Station	Regulation under CLM Act not required	-32.67656357	151.3872818
GRETA	redevelopment site	112-114 High STREET	Other Industry	Regulation under CLM Act not required	-32.67706709	151.3876682
GRETA	Former landfill	Hollingshed ROAD	Landfill	Regulation under CLM Act not required	-32.66705287	151.3923474
GREYSTANES	Metro Branded (former Mobil) Service Station	73 Ettalong ROAD	Service Station	Regulation under CLM Act not required	-33.81822648	150.9513946
GRIFFITH	Liberty Depot (former Shell CVRO) Griffith	6-10 Mackay AVENUE	Other Petroleum	Regulation under CLM Act not required	-34.2910045	146.063824
GRIFFITH	Former Murrumbidgee Irrigation Depot	55-77 Banna AVENUE	Other Industry	Regulation under CLM Act not required	-34.28858242	146.0567509
GRIFFITH	Mobil Depot - Griffith Airport	Off Rememberance DRIVE	Other Petroleum	Regulation under CLM Act not required	-34.25618872	146.0620449
GRIFFITH	Former Ampol Depot	32-34 Mackay AVENUE	Other Petroleum	Regulation under CLM Act not required	-34.2933331	146.0679503
GRIFFITH	Caltex Service Station and Depot	2-4 Mackay AVENUE	Service Station	Regulation under CLM Act not required	-34.2908766	146.0630815
GRIFFITH	Former Landmark Fertiliser Storage Facility	2-8 Jensen ROAD	Chemical Industry	Regulation under CLM Act not required	-34.29365599	146.0536413
GRIFFITH	Belford Petroleum (former Mobil) Depot	30 Banna AVENUE	Service Station	Regulation under CLM Act not required	-34.29042827	146.0595497
GRIFFITH	Former BP Service Station (Reliance Petroleum)	81 Banna AVENUE	Service Station	Regulation under CLM Act not required	-34.28851251	146.0540815
GUILDFORD	7-Eleven Service Station Guildford West	176 Fowler ROAD	Service Station	Regulation under CLM Act not required	-33.85149493	150.9722491
GULGONG	Lowes Petroleum (former BP) Depot Gulgong	6 Railway STREET	Other Petroleum	Regulation under CLM Act not required	-32.35950625	149.5461499
GULGONG	The Oval Site	Queen STREET	Unclassified	Regulation under CLM Act not required	-32.36169815	149.531075
GULMARRAD	BP Service Station Maclean	3976 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-29.48537407	153.2004311
GUMLY GUMLY	Caltex Service Station	3723 Sturt HIGHWAY	Service Station	Regulation under CLM Act not required	-35.13590309	147.4424551
GUMLY GUMLY	Brick Kiln Reserve	Eunony Bridge ROAD	Landfill	Regulation under CLM Act not required	-35.12098411	147.4196309
GUNDAGAI	Former Mobil Depot	98 Mount STREET	Other Petroleum	Regulation under CLM Act not required	-35.08206783	148.096221
GUNNEDAH	Caltex Service Station	21 Abbott STREET	Service Station	Regulation under CLM Act not required	-30.98021001	150.2561856
GUNNEDAH	Former Shell Depot Gunnedah	85-89 Barber STREET	Other Petroleum	Regulation under CLM Act not required	-30.97949284	150.2507401
GUNNEDAH	Mobil Gunnedah Depot	16-24 Wentworth STREET	Other Petroleum	Regulation under CLM Act not required	-30.98428725	150.260609
GUNNEDAH	BP Depot Gunnedah	103 Mathias ROAD	Other Petroleum	Regulation being finalised	-30.96665001	150.2326526
GUNNEDAH	BP Service Station	Corner Conadilly Street & Henry STREET	Service Station	Contamination formerly regulated under the CLM Act	-30.98116266	150.2583066
GUNNEDAH	Mobil Service Station	341 Conadilly STREET	Service Station	Contamination formerly regulated under the CLM Act	-30.9807394	150.2578428
GUNNEDAH	Property NSW Site	35-37 Abbott STREET	Other Petroleum	Regulation under CLM Act not required	-30.9789841	150.25737
GUNNEDAH	Former Telstra Line Depot	81 Barber STREET	Other Petroleum	Regulation under CLM Act not required	-30.97933809	150.2503121
GUNNEDAH	Adjacent to Service Station	Intersection of Henry Street and Conadilly STREET	Service Station	Contamination formerly regulated under the CLM Act	-30.98072588	150.2582802
GUNNEDAH	Former Caltex Depot	61 Railway AVENUE	Other Petroleum	Contamination formerly regulated under the CLM Act	-30.97953242	150.2494457
GUNNING	Gunning Motors	56 Yass STREET	Service Station	Regulation under CLM Act not required	-34.78159326	149.2684791

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
GUYRA	Guyra Fourways Service Centre	87-89 Bradley STREET	Service Station	Regulation under CLM Act not required	-30.24580085	151.6701156
GUYRA	Caltex-branded Service Station	4352 New England HIGHWAY	Service Station	Regulation under CLM Act not required	-30.20601937	151.6757291
GUYRA	StateRail land leased to Incitec	Starr ROAD	Other Industry	Regulation under CLM Act not required	-30.23157011	151.6707135
GWANDALAN	Metro Petroleum Gwandalan (Formerly Gwandalan Auto Care)	47 Orana ROAD	Service Station	Regulation under CLM Act not required	-33.13632941	151.5813396
GWANDALAN	Former Gwandalan Landfill	Kanangra DRIVE	Landfill	Regulation under CLM Act not required	-33.17497722	151.5917107
GYMEA	7-Eleven (former Mobil) Gymea Service Station	110 Gymea Bay ROAD	Service Station	Regulation under CLM Act not required	-34.03745848	151.0848547
GYMEA	Coles Express Kirrawee	470 Princes (Cnr The Boulevarde) HIGHWAY	Service Station	Contamination currently regulated under CLM Act	-34.02735302	151.0845079
GYMEA	Former Shell Service Station Gymea	Gymea Bay ROAD	Service Station	Regulation under CLM Act not required	-34.04129676	151.0841328
HABERFIELD	7-Eleven Haberfield	25-35 Parramatta ROAD	Service Station	Contamination currently regulated under CLM Act	-33.88794591	151.14287
HALEKULANI	Former Halekulani Landfill	Macleay DRIVE	Landfill	Regulation under CLM Act not required	-33.21446301	151.5527625
HAMILTON	SRA Land	10 Maitland ROAD	Unclassified	Regulation under CLM Act not required	-32.91994358	151.7512417
HAMILTON	Taxi Services	116 Tudor STREET	Service Station	Contamination formerly regulated under the CLM Act	-32.92351606	151.7454742
HAMILTON	Caltex Hamilton	59-63 Tudor STREET	Service Station	Regulation under CLM Act not required	-32.92498593	151.7509313
HAMILTON	Newcastle Toyota	65 Tudor STREET	Other Petroleum	Regulation under CLM Act not required	-32.925171	151.7504048
HAMILTON	Hamilton Bus Depot	Cnr Denison Street and Gordon AVENUE	Other Petroleum	Regulation under CLM Act not required	-32.92687413	151.7501743
HAMILTON NORTH	Shell Newcastle Terminal	5 Chatham ROAD	Other Petroleum	Contamination currently regulated under CLM Act	-32.91630469	151.7408712
HAMILTON NORTH	Former Black and Decker Site	56 Clyde STREET	Metal Industry	Contamination currently regulated under CLM Act	-32.91080413	151.7358236
HAMILTON NORTH	Hamilton Gasworks	1 Chatham ROAD	Gasworks	Contamination currently regulated under CLM Act	-32.91362741	151.7406241
HAMILTON NORTH	Former ELMA Site	54 Clyde STREET	Other Industry	Contamination currently regulated under CLM Act	-32.91145768	151.7367691
HARBORD	Former Dry Cleaners	121 Wyndora AVENUE	Other Industry	Regulation under CLM Act not required	-33.77425321	151.2821553
HARDEN	SRA Site	31 Aurvill ROAD	Unclassified	Regulation under CLM Act not required	-34.54998656	148.3689577
HARDEN	SRA Site	51 Whitton LANE	Unclassified	Contamination formerly regulated under the CLM Act	-34.55396035	148.3713349
HARDEN	South West Fuel Harden	294 Albury STREET	Service Station	Regulation under CLM Act not required	-34.55007021	148.3513821
HARRIS PARK	Dalley Street Reserve	2A Dalley STREET	Other Industry	Regulation under CLM Act not required	-33.82749118	151.0097545
HARTLEY VALE	Former Shale Oil Refinery	Lot 52 Hartley Vale ROAD	Unclassified	Contamination currently regulated under CLM Act	-33.52925119	150.24216
HASTINGS POINT	Coles Express Hastings Point	99 Tweed Coast ROAD	Service Station	Regulation under CLM Act not required	-28.36914103	153.5725676
HAY	SRA Land	429, 431, 435, 437 & 439 Murray STREET	Other Industry	Regulation under CLM Act not required	-34.49965611	144.840976
HAY	SRA Land	443 Murray STREET	Other Industry	Contamination formerly regulated under the CLM Act	-34.49966753	144.8410778
HAY	Former Shell Hay Depot	391 Murray STREET	Other Petroleum	Regulation under CLM Act not required	-34.50028195	144.8463999
HAY	Former Mobil Depot Hay	397-399 Murray STREET	Other Petroleum	Regulation under CLM Act not required	-34.50019184	144.8456578
HAY SOUTH	Caltex Service Station	429-431 Moama STREET	Service Station	Regulation under CLM Act not required	-34.52001427	144.8380121
HAZELBROOK	Caltex Service Station Hazelbrook	198 Great Western HIGHWAY	Service Station	Regulation under CLM Act not required	-33.72106175	150.4520976
HEATHCOTE	Caltex Service Station	1344 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.08841066	151.0072048
HEATHCOTE	Caltex Service Station	1403 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.09059834	151.003752
HEATHCOTE	Shell Coles Express Service Station	1355 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.08780042	151.0069741
HEATHERBRAE	Bogas (Former Caltex) Service Station	3 Speedy Lock LANE	Service Station	Regulation under CLM Act not required	-32.78057822	151.7372135
HEATHERBRAE	Shell Coles Express Motto Farm Service Station	2137 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-32.79835449	151.7176284

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
HEXHAM	QR National - Hexham Precinct	179 & 3/67 Maitland ROAD	Other Industry	Regulation under CLM Act not required	-32.83474038	151.6821895
HEXHAM	Caltex Diesel Stop	360 Maitland ROAD	Service Station	Regulation under CLM Act not required	-32.82844873	151.6851063
HEXHAM	Cummins Newcastle Facility Hexham	21 Galleghan STREET	Other Industry	Regulation under CLM Act not required	-32.83186739	151.686709
HEXHAM	BP Service Station (Reliance Petroleum)	Corner Pacific Highway and Old Maitland ROAD	Service Station	Regulation under CLM Act not required	-32.82756403	151.6846929
HEXHAM	Former Forgacs Site	21 Sparke STREET	Chemical Industry	Contamination currently regulated under CLM Act	-32.85464558	151.6988053
HEXHAM	Caltex-Bogas Warehouse	239 Old Maitland ROAD	Service Station	Regulation under CLM Act not required	-32.82899942	151.6861849
HEXHAM	Industrial Galvanizers	312 Pacific HIGHWAY	Metal Industry	Contamination currently regulated under POEO Act	-32.83457186	151.6884941
HEXHAM	14 Sparke St Hexham	14 Sparke STREET	Metal Industry	Under assessment	-32.85394328	151.6960863
HILLSTON	Former BP Depot Hillston	141-143 Cowper STREET	Other Petroleum	Regulation under CLM Act not required	-33.48823546	145.5381623
HOLBROOK	Caltex Truckstop	Hume HIGHWAY	Service Station	Regulation under CLM Act not required	-35.71332625	147.3207237
HOMEBUSH	Ausgrid Mason Park Substation	1 Underwood ROAD	Other Industry	Regulation under CLM Act not required	-33.85674677	151.0747044
HOMEBUSH BAY	SUEZ Waste Recycling Centre (WRC) and Cleanaway Liquid Waste Treatment Plant (LWTP)	Corner Pondage Link and Hill ROAD	Landfill	Regulation under CLM Act not required	-33.84359299	151.0593656
HOMEBUSH WEST	Caltex Service Station Homebush West	334-336 Parramatta ROAD	Service Station	Regulation under CLM Act not required	-33.8581543	151.0681261
HOMEBUSH WEST	Former Ford Landfill	22 Mandemar AVENUE	Landfill	Under preliminary investigation order	-33.86180526	151.0635664
HORNSBY	Midas Car Care Centre Hornsby	2A Linda STREET	Unclassified	Regulation under CLM Act not required	-33.70052215	151.1004786
HORNSBY	Coles Express Hornsby	194- 206 Pacific HIGHWAY	Service Station	Contamination currently regulated under CLM Act	-33.7071993	151.0991452
HORNSBY	Hornsby Train Maintenance Centre	1B Stephen STREET	Other Industry	Regulation under CLM Act not required	-33.69342449	151.1035295
HOXTON PARK	Endeavour Energy Hoxton Park	490 Hoxton Park ROAD	Other Industry	Regulation under CLM Act not required	-33.92766437	150.8689069
HUNTERS HILL	Coles Express Hunters Hill	4 Ryde ROAD	Service Station	Regulation under CLM Act not required	-33.8317985	151.141655
HUNTERS HILL	Foreshore Land	Rear of 7, 9 & 11 Nelson PARADE	Other Industry	Contamination currently regulated under CLM Act	-33.84248362	151.1649249
HUNTERS HILL	7, 9 and 11 Nelson Parade Hunters Hill	7, 9 and 11 Nelson PARADE	Other Industry	Regulation under CLM Act not required	-33.84218911	151.164968
HURLSTONE PARK	Former Telstra Depot	82 Canterbury ROAD	Service Station	Regulation under CLM Act not required	-33.90803171	151.1258121
HURLSTONE PARK	Former Speedway Petroleum Service Station	610 - 618 New Canterbury ROAD	Service Station	Contamination formerly regulated under the CLM Act	-33.90541228	151.1322009
HURLSTONE PARK	7-Eleven Hurlstone Park	670 New Canterbury ROAD	Service Station	Regulation under CLM Act not required	-33.90510388	151.1299825
HURSTVILLE GROVE	Moore Reserve	Morshead DRIVE	Landfill	Contamination currently regulated under CLM Act	-33.97920603	151.0873578
INGLEBURN	7-Eleven Ingleburn	72 Cumberland Road, corner Oxford ROAD	Service Station	Under assessment	-34.00041505	150.8679742
INVERELL	Former Shell Depot	25 Edward STREET	Other Petroleum	Regulation under CLM Act not required	-29.76151684	151.1182033
INVERELL	Former Service Station	20 Oliver STREET	Service Station	Regulation under CLM Act not required	-29.77229743	151.1152692
INVERELL	Former Caltex Depot Inverell	4 Edward STREET	Service Station	Regulation under CLM Act not required	-29.76123104	151.1147983
INVERELL	Former Mobil Inverell Depot	29-33 Edward STREET	Other Petroleum	Regulation under CLM Act not required	-29.76135322	151.1171412
INVERELL	Caltex Service Station	55-59 Ring STREET	Service Station	Regulation under CLM Act not required	-29.76204512	151.1141737
INVERELL	Former Mobil Service Station	Corner Otho Street and Henderson STREET	Service Station	Regulation under CLM Act not required	-29.7786926	151.1149921
INVERELL	Former Caltex Service Station	141 Otho STREET	Service Station	Regulation under CLM Act not required	-29.77819403	151.1145699
ISLINGTON	Caltex Service Station	240 Maitland ROAD	Service Station	Regulation under CLM Act not required	-32.91138644	151.7457701
ISLINGTON	Shell Pipeline Easement (vacant land)	24 Fern STREET	Other Petroleum	Regulation under CLM Act not required	-32.91706254	151.7473809
JAMISONTOWN	BP Service Station Jamisontown	124 - 128 Mulgoa ROAD	Service Station	Regulation under CLM Act not required	-33.76978323	150.6764977
JAMISONTOWN	Former Caltex Jamisontown	229-231 Mulgoa ROAD	Service Station	Regulation under CLM Act not required	-33.76661447	150.6784735

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
JAMISONTOWN	7-Eleven Service Station	92 Mulgoa ROAD	Service Station	Contamination currently regulated under CLM Act	-33.7667231	150.6796488
JANNALI	Former Mobil Service Station	121 Georges River ROAD	Service Station	Regulation under CLM Act not required	-34.01614613	151.0681921
JANNALI	Former IGA	541 Box ROAD	Other Industry	Regulation under CLM Act not required	-34.01602134	151.0660384
JENNINGS	Jennings Former Arsenic Poison Factory	Duke Street, Manor Street, and Ballandean STREET	Chemical Industry	Contamination currently regulated under CLM Act	-28.929342	151.9298622
JESMOND	Caltex Service Station	27 Bluegum ROAD	Service Station	Regulation under CLM Act not required	-32.9029287	151.691164
JINDABYNE	BP Service Station (Reliance Petroleum)	8 Kosciuszko ROAD	Service Station	Regulation under CLM Act not required	-36.41478692	148.6178882
JINDABYNE	Caltex Service Station	50 Kosciuszko ROAD	Service Station	Regulation under CLM Act not required	-36.41395847	148.6225113
JINGELLIC	Former Jingellic School	3179 River ROAD	Other Industry	Regulation under CLM Act not required	-35.926501	147.701011
JUNEE	Subdivision Proposal	5858 Gundagai ROAD	Unclassified	Regulation under CLM Act not required	-34.87783587	147.6067578
KANAHOOKA	Former Smelter Site	Kanahooka ROAD	Metal Industry	Under assessment	-34.49406369	150.8227583
KANDOS	Cement Australia Kandos Cement Works	1 Jamison STREET	Other Industry	Regulation under CLM Act not required	-32.86399912	149.9779259
KANWAL	Kanwal General Store and Fuel Supplies and Adjacent Land	68 and part of 70 Craigie AVENUE	Service Station	Contamination currently regulated under CLM Act	-33.263026	151.482125
KANWAL	Former Bus and Truck Rental Yard	645-647 Pacific Highway HIGHWAY	Other Petroleum	Regulation under CLM Act not required	-33.26233802	151.4825469
KARIONG	Coles Express Kariong	6 Central Coast HIGHWAY	Service Station	Regulation under CLM Act not required	-33.43443192	151.2963401
KARIONG	Caltex Service Station	Lot 2 Langford DRIVE	Service Station	Regulation under CLM Act not required	-33.43934827	151.2935447
KARUAH	BP Roadhouse Karuah	403 Tarean ROAD	Service Station	Regulation under CLM Act not required	-32.65371781	151.9629963
KATOOMBA	Aldi Stores	201 Katoomba STREET	Service Station	Regulation under CLM Act not required	-33.71756625	150.3101649
KATOOMBA	Former Katoomba/Leura Gasworks	Megalong STREET	Gasworks	Contamination currently regulated under CLM Act	-33.71318559	150.3187284
KELLYVILLE	Caltex Service Station	3-5 Windsor ROAD	Service Station	Regulation under CLM Act not required	-33.71436125	150.9602175
KELLYVILLE	BP Service Station Kellyville	19-23 Windsor ROAD	Service Station	Regulation under CLM Act not required	-33.71280997	150.9590756
KELSO	Caltex Service Station Kelso	19 Sydney ROAD	Service Station	Regulation under CLM Act not required	-33.41904247	149.6023985
KELSO	BP Service Station (Reliance Petroleum)	63 Sydney ROAD	Service Station	Regulation under CLM Act not required	-33.41925328	149.6076677
KEMBLA GRANGE	ShawCor Australia	66 West Dapto ROAD	Other Petroleum	Regulation under CLM Act not required	-34.46875328	150.8106326
KEMBLAWARRA	Griffins Bay, Lake Illawarra	Shellharbour ROAD	Landfill	Regulation under CLM Act not required	-34.49653984	150.8943776
KEMPS CREEK	Caltex-branded Service Station	1163 Mamre ROAD	Service Station	Regulation under CLM Act not required	-33.86972102	150.7966074
KEMPSEY	Kempsey Showground	19 Sea STREET	Unclassified	Contamination being managed via the planning process (EP&A Act)	-31.07334836	152.8308795
KEMPSEY	Former Shell Depot	43-51 Gladstone STREET	Other Petroleum	Regulation under CLM Act not required	-31.07500944	152.8346699
KEMPSEY	Former Mobil Depot	14 Hopetoun STREET	Other Petroleum	Regulation under CLM Act not required	-31.07603107	152.8350132
KEMPSEY	Shell Coles Express Service Station Kempsey	165 Smith STREET	Service Station	Regulation under CLM Act not required	-31.07036743	152.8461571
KEMPSEY	Mobil Depot	154 Belgrave STREET	Service Station	Regulation under CLM Act not required	-31.07965043	152.8326303
KEMPSEY	Liberty (Former Mobil) Service Station	108-112 Smith STREET	Service Station	Regulation under CLM Act not required	-31.07492508	152.8431945
KENSINGTON	7-Eleven Kensington	135 Anzac PARADE	Service Station	Regulation under CLM Act not required	-33.91035885	151.2228537
KENSINGTON	Former Ampol Service Station	76-82 Anzac PARADE	Service Station	Regulation under CLM Act not required	-33.9059246	151.2242891
KENSINGTON	Footpath adjacent to 10-20 Anzac Parade	10-20 Anzac PARADE	Service Station	Regulation under CLM Act not required	-33.9032124	151.2237836
KENSINGTON	Caltex Service Station	211-213 Anzac PARADE	Service Station	Regulation under CLM Act not required	-33.91460752	151.2251266
KENTHURST	Vacant Land	259 McCylmonts ROAD	Unclassified	Regulation under CLM Act not required	-33.61283529	150.9425303
KHANCOBAN	Khancoban Tip	Alpine WAY	Landfill	Regulation under CLM Act not required	-36.21994191	148.1542718

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
KIAMA	Former Gasworks	105 to 109 and 113 Shoalhaven STREET	Gasworks	Regulation under CLM Act not required	-34.67416881	150.8504143
KIAMA HEIGHTS	Former Mobil Service Station Kiama	7-9 South Kiama DRIVE	Service Station	Regulation under CLM Act not required	-34.69553931	150.8437977
KILLARA	7-Eleven Service Station (Former Mobil)	496 Pacific HIGHWAY	Service Station	Contamination currently regulated under CLM Act	-33.77146554	151.1606903
KILLARA	Former Caltex Service Station	692B-694 Pacific HIGHWAY	Service Station	Contamination formerly regulated under the CLM Act	-33.76306802	151.1550109
KILLARA	Killara Garage	544 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.76974164	151.1599696
KILLARA	Former BP Service Station Lindfield	478 Pacific HIGHWAY	Service Station	Contamination currently regulated under CLM Act	-33.7719298	151.1613874
KILLARA	Land Adjacent to Former Service Station Site	684-684a, 690, 692 and 696 Pacific HIGHWAY	Service Station	Contamination formerly regulated under the CLM Act	-33.76312226	151.1549237
KINCUMBER	Frost Reserve	Avoca DRIVE	Landfill	Under assessment	-33.47065695	151.3909044
KINGS PARK	Multi-Fill	14 Garling ROAD	Unclassified	Regulation being finalised	-33.74478046	150.9111964
KINGS PARK	Former Dow Corning Factory	21 Tattersall ROAD	Chemical Industry	Regulation under CLM Act not required	-33.75012653	150.9138477
KINGSFORD	Caltex Service Station	603-611 Anzac PARADE	Service Station	Regulation under CLM Act not required	-33.93435787	151.2371198
KINGSFORD	Coles Express Service Station Kingsford	58 Gardeners ROAD	Service Station	Regulation under CLM Act not required	-33.9250054	151.2257601
KINGSGROVE	Shell Coles Express Service Station	137 Kingsgrove ROAD	Service Station	Regulation under CLM Act not required	-33.93276948	151.099026
KINGSGROVE	Caltex Kingsgrove	351-357 Stoney Creek ROAD	Service Station	Regulation under CLM Act not required	-33.95132175	151.0926872
KINGSGROVE	State Transit Authority Depot	17-23 Richland STREET	Other Petroleum	Regulation under CLM Act not required	-33.93646086	151.0973617
KIRRAWEE	Ingal Civil Products	127-141 Bath ROAD	Metal Industry	Regulation under CLM Act not required	-34.03029516	151.0754469
KIRRAWEE	7-Eleven (former Mobil) Service Station	542-546 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.03238179	151.0758071
KIRRAWEE	Caltex-branded Kirrawee Service Station	(1-3 Waratah Street) 487 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.02915971	151.0808279
KOGARAH	Scarborough Park South	184R Production AVENUE	Landfill	Regulation being finalised	-33.97922253	151.140276
KOGARAH	Caltex Service Station	29 President AVENUE	Service Station	Regulation under CLM Act not required	-33.96516866	151.141145
KOGARAH	7-Eleven Service Station	736 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-33.96406472	151.1376011
KOGARAH	Woolworths Petrol Service Station	69 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-33.96330397	151.1371182
KOOLKHAN	Former Koolkhan Power Station	Summerland WAY	Other Industry	Regulation under CLM Act not required	-29.61688704	152.9300645
KOORAGANG	NPC, berths 2 and 3	Heron ROAD	Metal Industry	Regulation being finalised	-32.89260063	151.7742527
KOORAGANG	Kooragang Island Waste Facility	Off Cormorant ROAD	Metal Industry	Contamination currently regulated under POEO Act	-32.86901125	151.7377773
KOORAGANG	Orica Kooragang Island	15 Greenleaf ROAD	Chemical Industry	Contamination currently regulated under CLM Act	-32.89654619	151.7771372
KOORAGANG	Former Boral Timber Export Facility	16 Heron ROAD	Other Industry	Regulation under CLM Act not required	-32.89710295	151.7739966
KOORAGANG	Cleanaway Technical Services	19 Egret STREET	Other Industry	Regulation under CLM Act not required	-32.8812145	151.766282
KOORAGANG	Industrial Facility	39 Heron ROAD	Chemical Industry	Under assessment	-32.89106439	151.7784064
KOORAGANG	Vacant Land	Raven Street and Cormorant ROAD	Unclassified	Regulation under CLM Act not required	-32.88410199	151.7701334
KOORAGANG	Linx Logistics	240 Cormorant ROAD	Other Industry	Regulation under CLM Act not required	-32.87480951	151.7757352
KOORINGAL	Former Shell Wagga Depot	11-15 Lake Albert ROAD	Other Petroleum	Regulation under CLM Act not required	-35.12273113	147.3786005
KOORINGAL	Caltex Service Station	265-267 Lake Albert ROAD	Service Station	Regulation under CLM Act not required	-35.14078443	147.3755442
KOORINGAL	Caltex-branded (former Mobil) Service Station	24 Lake Albert ROAD	Service Station	Regulation under CLM Act not required	-35.12239591	147.3769936
KOSCIUSZKO	Smiggin Holes Snow Clearing Shed	Link ROAD	Landfill	Regulation under CLM Act not required	-36.39098211	148.4304981
KOSCIUSZKO	Khancoban Spoil Dump	Alpine WAY	Landfill	Regulation under CLM Act not required	-36.21982803	148.1527401
KOSCIUSZKO	Sawpit Creek landfill	13km from Jindabyne, off Kosciuszko ROAD	Landfill	Regulation under CLM Act not required	-36.34858097	148.5673374

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
KURMOND	BP Service Station	501 Bells Line of road ROAD	Service Station	Contamination formerly regulated under the CLM Act	-33.55096662	150.6911676
KURNELL	Former Phillips Imperial Chemicals site	260 Captain Cook DRIVE	Chemical Industry	Regulation under CLM Act not required	-34.02493837	151.1952149
KURNELL	Caltex Kurnell Terminal (refer also to ID23868)	2 Solander STREET	Other Petroleum	Contamination currently regulated under POEO Act	-34.0175214	151.2159572
KURNELL	Abbott Australasia	Captain Cook DRIVE	Chemical Industry	Contamination formerly regulated under the CLM Act	-34.02339937	151.19921
KURNELL	Former Caltex Kurnell Service Station	Corner Captain Cook Drive and Solander STREET	Service Station	Regulation under CLM Act not required	-34.01269846	151.2094347
KURRI KURRI	United Petroleum Service Station Kurri Kurri	279-281 Lang STREET	Service Station	Contamination currently regulated under CLM Act	-32.82047175	151.477646
KURRI KURRI	Kurri Kurri Smelter	Hart ROAD	Metal Industry	Regulation under CLM Act not required	-32.7873063	151.4828827
KYOGLE	Caltex Service Station	22-24 Summerland WAY	Service Station	Regulation under CLM Act not required	-28.61806766	153.003862
LAKE HAVEN	Caltex Service Station	Goobarabah Ave Cnr Gorokan DRIVE	Service Station	Regulation under CLM Act not required	-33.24337276	151.5065335
LAKEMBA	Former Lakemba Police Station	59 Quigg STREET	Unclassified	Regulation under CLM Act not required	-33.92199239	151.079412
LAKEMBA	Caltex Service Station - Corner Punchbowl Rd and Wangee Rd	81 Wangee ROAD	Service Station	Regulation under CLM Act not required	-33.91153044	151.073306
LAKEMBA	Caltex Service Station	961-967 Canterbury ROAD	Service Station	Regulation under CLM Act not required	-33.92671102	151.0814905
LAMBTON	Caltex Service Station	422 Newcastle ROAD	Service Station	Regulation under CLM Act not required	-32.9095592	151.7109684
LANE COVE	7-Eleven Service Station	203 Burns Bay ROAD	Service Station	Regulation under CLM Act not required	-33.81458334	151.1543844
LANE COVE	BP-branded Jasbe Service Station	62-70 Epping ROAD	Service Station	Regulation under CLM Act not required	-33.81108427	151.1641531
LANE COVE	Pacific Power	Sirius ROAD	Landfill	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.80701776	151.1449658
LANE COVE	Coles Express Service Station Burns Bay	254 Burns Bay ROAD	Service Station	Regulation under CLM Act not required	-33.81719214	151.1518774
LANE COVE NORTH	Former Caltex Service Station	428-432 Mowbray ROAD	Service Station	Regulation under CLM Act not required	-33.80804563	151.1721538
LANE COVE NORTH	BP Artarmon Service Station, Lane Cove North	432 Pacific HIGHWAY	Service Station	Contamination currently regulated under CLM Act	-33.8112038	151.175547
LANE COVE WEST	Caltex Lane Cove West	235-245 Burns Bay ROAD	Service Station	Regulation under CLM Act not required	-33.81719214	151.1518774
LANE COVE WEST	Ventemans Reach Bushland	Off Mars ROAD	Unclassified	Regulation under CLM Act not required	-33.80615015	151.1451474
LANSVALE	Mobil Service Station	44 Hume HIGHWAY	Service Station	Regulation under CLM Act not required	-33.89172416	150.9656537
LAURIETON	Camden Haven Tyre and Brake Centre (Former Caltex Service Station)	461 Ocean DRIVE	Service Station	Regulation under CLM Act not required	-31.64367775	152.7977735
LAVENDER BAY	SRA Land	French STREET	Unclassified	Regulation under CLM Act not required	-33.84560621	151.2030148
LAVINGTON	Former Caltex Service Station	373-375 Wagga ROAD	Service Station	Regulation under CLM Act not required	-36.04797551	146.9385325
LAVINGTON	Caltex Service Station	436 Wagga (corner Dick Road) ROAD	Service Station	Regulation under CLM Act not required	-36.04500034	146.9444932
LAVINGTON	Former ERS liquid waste treatment and storage facility	819 Knights ROAD	Other Industry	Regulation under CLM Act not required	-36.06763885	146.942143
LEETON	Former Mobil Depot	108 Calrose STREET	Other Petroleum	Regulation under CLM Act not required	-34.55813326	146.3921296
LEETON	Caltex Service Station	1 Belah STREET	Service Station	Regulation under CLM Act not required	-34.55421752	146.3998431
LEETON	Yenda Producers (formerly Incitec) Leeton	1 - 2 Canal STREET	Other Petroleum	Regulation under CLM Act not required	-34.55184684	146.3862573
LEETON	Former Fuel Depot, Leeton	1-3 Short STREET	Other Petroleum	Regulation under CLM Act not required	-34.55253237	146.3864507
LEICHHARDT	SRA Land	10-11 Balmain ROAD	Other Industry	Contamination formerly regulated under the CLM Act	-33.87774852	151.1590952
LEICHHARDT	Former Kolotex site	22 George STREET	Other Industry	Contamination currently regulated under CLM Act	-33.88855307	151.1482106
LEICHHARDT	Former Labelcraft Site	30-40 George STREET	Chemical Industry	Contamination currently regulated under CLM Act	-33.88778798	151.1484773
LEICHHARDT	Leichhardt Bus Depot Area E	240 Balmain Road, corner City West LINK	Other Industry	Regulation under CLM Act not required	-33.87589727	151.1598073
LEICHHARDT	RailCorp Leichhardt	7 Darley ROAD	Other Industry	Regulation under CLM Act not required	-33.87520846	151.1539012
LENNOX HEAD	Former Caltex Lennox Head	Byron STREET	Service Station	Regulation under CLM Act not required	-28.79189328	153.5883225

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
LENNOX HEAD	Spoors Dip	13 Fig Tree Hill DRIVE	Cattle Dip	Contamination formerly regulated under the CLM Act	-28.78258175	153.5752527
LEPPINGTON	Coles Express Leppington	1443 Camden Valley WAY	Service Station	Regulation under CLM Act not required	-33.96631609	150.8154793
LEUMEAH	Caltex Service Station	6 Rudd ROAD	Service Station	Regulation under CLM Act not required	-34.05398325	150.8299209
LEURA	Former Leura Garage	126-128 Leura MALL	Service Station	Regulation under CLM Act not required	-33.7125311	150.3315386
LIDCOMBE	Metro Lidcombe (former Liberty)	134 John STREET	Service Station	Contamination currently regulated under POEO Act	-33.85466534	151.04675
LIDDELL	Liddell Power Station	New England HIGHWAY	Other Industry	Regulation under CLM Act not required	-32.37393962	150.9756283
LIDSDALE	Angus Place Colliery	Wolgan ROAD	Other Industry	Regulation under CLM Act not required	-33.35274573	150.0996773
LIDSDALE	Kerosene Vale Colliery	Wolgan ROAD	Other Industry	Regulation under CLM Act not required	-33.38145755	150.0940097
LIGHTNING RIDGE	Former Ambulance Station	18 - 42 Pandora STREET	Other Industry	Regulation under CLM Act not required	-29.43133877	147.9812981
LIGHTNING RIDGE	Caltex Service Station	Onyx Street, corner Morilla STREET	Service Station	Regulation under CLM Act not required	-29.42922885	147.9747954
LILLIAN ROCK	Former 'Peters Dip' Cattle Tick Dip Site	427 Lillian Rock ROAD	Cattle Dip	Regulation under CLM Act not required	-28.5314327	153.1556392
LINDFIELD	7-Eleven (former Mobil) Service Station	238 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.7788603	151.1689594
LISAROW	OneSteel Recycling	902A Pacific HIGHWAY	Metal Industry	Regulation under CLM Act not required	-33.38420179	151.3655856
LISMORE	Caltex Lismore Service Station	136 Woodlark STREET	Service Station	Regulation under CLM Act not required	-28.80807597	153.2807591
LISMORE	Shell Coles Express Service Station	100 Dawson STREET	Service Station	Regulation under CLM Act not required	-28.81140865	153.2800472
LISMORE	Former Shell Depot	116 Wilson STREET	Other Petroleum	Regulation under CLM Act not required	-28.81070081	153.2621577
LISMORE	Caltex Service Station	73-75 Dawson STREET	Service Station	Regulation under CLM Act not required	-28.80894415	153.2809619
LISMORE	Lismore Gasworks	Cnr John Street & Keen STREET	Gasworks	Contamination formerly regulated under the CLM Act	-28.81764489	153.2710196
LISMORE	SRA Land	Norco LANE	Unclassified	Regulation under CLM Act not required	-28.810742	153.2702306
LISMORE HEIGHTS	Coles Express Lismore Heights	426 Ballina ROAD	Service Station	Contamination currently regulated under CLM Act	-28.81068067	153.3053065
LISMORE HEIGHTS	Beardow Street Road Reserve	22 New Ballina ROAD	Unclassified	Under assessment	-28.804051	153.291801
LITHGOW	Former Shell CVRO and Depot	77 Bridge Street and 6 Gas Works LANE	Other Petroleum	Regulation under CLM Act not required	-33.47995091	150.162216
LITHGOW	Lithgow Thales	4 Martini PARADE	Metal Industry	Contamination formerly regulated under the CLM Act	-33.49012248	150.1415389
LITHGOW	Former Mobil Depot	353 Main STREET	Other Petroleum	Regulation under CLM Act not required	-33.48235166	150.1383012
LITHGOW	Former Gasworks	Mort STREET	Gasworks	Regulation under CLM Act not required	-33.47995167	150.1635401
LITHGOW	Jasbe BP-branded Service Station (Former Reliance Petroleum)	1106 Great Western HIGHWAY	Service Station	Regulation under CLM Act not required	-33.48426647	150.134992
LITHGOW	Caltex Lithgow (Quota Park)	Adjacent to 1131 Great Western HIGHWAY	Unclassified	Regulation under CLM Act not required	-33.47927554	150.1366238
LIVERPOOL	AC McGrath (Wholesale) Pty Ltd	20 Shepherd Street and 6A & 6B Atkinson STREET	Other Industry	Regulation under CLM Act not required	-33.9320192	150.9236862
LIVERPOOL	Former Car Park	4 - 6 Rose STREET	Unclassified	Regulation under CLM Act not required	-33.93258955	150.9157936
LIVERPOOL	Woolworths Service Station	59-67 Orange Grove ROAD	Service Station	Regulation under CLM Act not required	-33.90711248	150.9178855
LIVERPOOL	68 Speed Street, Liverpool NSW	68 Speed STREET	Gasworks	Under assessment	-33.929889	150.92243
LOFTUS	BP Freedom Fuel Service Station Loftus	127 Loftus AVENUE	Service Station	Regulation under CLM Act not required	-34.04570765	151.0508004
LONG JETTY	Metro Petroleum Service Station Long Jetty	326 The Entrance ROAD	Service Station	Under assessment	-33.35897356	151.4847709
LONG JETTY	Caltex Service Station	431 The Entrance ROAD	Service Station	Regulation under CLM Act not required	-33.36022468	151.4826553
LONG JETTY	Westside Petroleum Service Station	290-294 The Entrance ROAD	Service Station	Contamination currently regulated under CLM Act	-33.35688982	151.4862246
LONG JETTY	7-Eleven (former Mobil) Service Station	184-186 The Entrance ROAD	Service Station	Regulation under CLM Act not required	-33.35089363	151.4924904
LONGUEVILLE	Caltex Service Station	5 Northwood ROAD	Service Station	Regulation under CLM Act not required	-33.82427366	151.1724497

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
LUCAS HEIGHTS	Harringtons Quarry	access from Little Forest ROAD	Landfill	Contamination currently regulated under CLM Act	-34.03555347	150.9751826
LUCAS HEIGHTS	IWC landfill	Little Forest ROAD	Landfill	Contamination currently regulated under CLM Act	-34.03214889	150.9753474
LUDDENHAM	Caltex Service Station	3019-3035 The Northern ROAD	Service Station	Regulation under CLM Act not required	-33.87536093	150.6888872
MACKSVILLE	Caltex Service Station	Pacific (22-24 Cooper Street) HIGHWAY	Service Station	Regulation under CLM Act not required	-30.70977455	152.9198448
MACLEAN	MacLean Outdoors	255 River STREET	Service Station	Regulation under CLM Act not required	-29.45782683	153.1970725
MACQUARIE FIELDS	Caltex Service Station	68 Harold STREET	Service Station	Regulation under CLM Act not required	-33.98557276	150.8933681
MACQUARIE PARK	Caltex North Ryde Service Station	41-43 Epping ROAD	Service Station	Regulation under CLM Act not required	-33.79138236	151.1312248
MACQUARIE PARK	1-7 Waterloo Road, Macquarie Park	1-7 Waterloo ROAD	Other Petroleum	Regulation under CLM Act not required	-33.78806877	151.1332148
MACQUARIE PARK	Porters Creek Depot - Proposed Operations Centre Site	160 Wicks ROAD	Landfill	Regulation under CLM Act not required	-33.785348	151.13663
MACQUARIE PARK	De Burghs Cycleway - Lane Cove National Park	Riverside DRIVE	Other Petroleum	Regulation under CLM Act not required	-33.77802854	151.1367529
MAITLAND	Maitland Gasworks	Charles STREET	Gasworks	Contamination currently regulated under CLM Act	-32.73603658	151.5578926
MAITLAND	Hannan and High Street	Hannan Street and High STREET	Service Station	Regulation under CLM Act not required	-32.72731682	151.5515673
MAITLAND	Coles Express Service Station	235 High STREET	Service Station	Regulation under CLM Act not required	-32.73923807	151.5620399
MALABAR	ANZAC Rifle Range former landfill	Franklin STREET	Landfill	Regulation being finalised	-33.95792671	151.2566373
MANDALONG	Mandalong Mine	Mandalong ROAD	Other Industry	Regulation under CLM Act not required	-33.11725583	151.4616452
MANGROVE MOUNTAIN	Poultry Litter Containment Pit site	258 Waratah ROAD	Unclassified	Regulation under CLM Act not required	-33.28917277	151.167235
MANILLA	Tamworth Regional Council Works Depot - Manilla	73 River STREET	Other Petroleum	Regulation under CLM Act not required	-30.74879943	150.7181011
MANLY	Caltex Service Station	86 Pittwater ROAD	Service Station	Regulation under CLM Act not required	-33.79306889	151.2858638
MANLY	Former Little Manly Point Gasworks	End of Stuart STREET	Gasworks	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.80842005	151.2877784
MANLY	St Patrick's Estate	151 Darley ROAD	Unclassified	Regulation under CLM Act not required	-33.8044568	151.2938595
MANLY	Little Manly Point	Stuart STREET	Gasworks	Contamination formerly regulated under the CLM Act	-33.80814626	151.2876245
MANLY VALE	Caltex Service Station Manly Vale	236-238 Condamine STREET	Service Station	Regulation under CLM Act not required	-33.78508231	151.2674386
MANLY VALE	Former Landfill Addiscombe Road	Addiscombe ROAD	Landfill	Contamination currently regulated under CLM Act	-33.78307439	151.2747846
MANNERING PARK	Parkview General Store (a former service station)	2 Vales ROAD	Service Station	Regulation under CLM Act not required	-33.14753814	151.5387832
MANNERING PARK	Mannering Park Mini Mart	70 Vales ROAD	Service Station	Regulation under CLM Act not required	-33.15236501	151.5371767
MARAYONG	7-Eleven (former Mobil Blacktown West) Service Station Marayong	173 Richmond ROAD	Service Station	Regulation under CLM Act not required	-33.75472796	150.8913605
MARAYONG	Woolworths Petrol Service Station Marayong	Corner Vardys Road and Turbo ROAD	Service Station	Regulation under CLM Act not required	-33.7452356	150.9041601
MARDI	Former Mardi Landfill	70-90 McPherson ROAD	Landfill	Regulation under CLM Act not required	-33.29273289	151.4100941
MARKS POINT	Former Mobil Service Station (now 7-Eleven)	770-772 Pacific HIGHWAY	Service Station	Contamination formerly regulated under the CLM Act	-33.05646268	151.6533795
MARKS POINT	Former Mobil Aviation Depot Belmont Airport	864 Pacific HIGHWAY	Other Petroleum	Regulation under CLM Act not required	-33.06657244	151.6497674
MAROUBRA	Coles Express Pagewood Service Station, Maroubra	299 Bunnerong PARADE	Service Station	Regulation under CLM Act not required	-33.94071282	151.2285063
MARRANGAROO	United (Former Mobil) Service Station Marrangaroo	394-398 Great Western HIGHWAY	Service Station	Regulation under CLM Act not required	-33.45253322	150.1181023
MARRICKVILLE	Former Mobil Service Station	384 Illawarra ROAD	Service Station	Regulation under CLM Act not required	-33.91534969	151.1506717
MARRICKVILLE	TRW Steering and Suspension	22-28 Carrington ROAD	Other Industry	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.92012667	151.1566181
MARRICKVILLE	Woolworths Petrol Service Station Marrickville	490 Illawarra ROAD	Service Station	Regulation under CLM Act not required	-33.91845177	151.1459951
MARRICKVILLE	RailCorp	361 Victoria ROAD	Other Industry	Regulation under CLM Act not required	-33.91404835	151.1557132
MARRICKVILLE	Mackey Park	Cnr Richardsons Crescent and Carrington ROAD	Landfill	Regulation under CLM Act not required	-33.9220263	151.1547903

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
MARRICKVILLE	Cooks River Aqueduct	Thornley STREET	Unclassified	Contamination formerly regulated under the CLM Act	-33.92204604	151.1480332
MARRICKVILLE	2 Carrington Road	2 Carrington ROAD	Unclassified	Regulation under CLM Act not required	-33.91596071	151.1597199
MARRICKVILLE	Former Dry Cleaners and Loading Dock	Smidmore STREET	Other Industry	Contamination currently regulated under CLM Act	-33.90707592	151.171701
MARSDEN PARK	226 Grange Avenue	226 Grange AVENUE	Unclassified	Regulation under CLM Act not required	-33.70259609	150.83825
MARSFIELD	Coles Express Service Station Marsfield	189 Epping ROAD	Service Station	Regulation under CLM Act not required	-33.77519246	151.1053691
MARULAN	BP Express Marulan (Northbound)	(Northbound) Hume HIGHWAY	Service Station	Regulation under CLM Act not required	-34.7188332	149.9949547
MARULAN	BP Service Station	(Southbound) Hume HIGHWAY	Service Station	Regulation under CLM Act not required	-34.71932066	150.0014827
MARYVILLE	7-Eleven Service Station	184-188 Hannell STREET	Service Station	Contamination currently regulated under CLM Act	-32.91336028	151.7579315
MASCOT	Former Zinc Smelter and Paint Manufacturing Facility	163 O'Riordan STREET	Metal Industry	Regulation under CLM Act not required	-33.92526513	151.1892582
MASCOT	Caltex Service Station	125 O'Riordan STREET	Service Station	Regulation under CLM Act not required	-33.92309169	151.1911539
MASCOT	Mascot Pioneer Plating	25-29 Ricketty STREET	Metal Industry	Contamination currently regulated under CLM Act	-33.92075288	151.1824801
MASCOT	Heritage Business Centre	5-9 Ricketty STREET	Unclassified	Regulation under CLM Act not required	-33.92029202	151.1816656
MASCOT	Telstra Exchange	904-922 Botany ROAD	Other Industry	Regulation under CLM Act not required	-33.9293166	151.1942777
MASCOT	Former Shell Service Station Mascot	746 Botany ROAD	Service Station	Contamination currently regulated under CLM Act	-33.92352295	151.1955852
MASCOT	ING Industrial Fund (unoccupied Land and General Parking)	19-33 Kent ROAD	Landfill	Regulation under CLM Act not required	-33.9227711	151.1854202
MASCOT	Former Mascot Galvanising	336-348 King STREET	Metal Industry	Contamination currently regulated under CLM Act	-33.92902126	151.185874
MASCOT	Sokol Corporation	50-56 Robey STREET	Other Industry	Regulation under CLM Act not required	-33.93162265	151.1904955
MASCOT	Linear Park	Off O'Riordan STREET	Landfill	Regulation under CLM Act not required	-33.92278693	151.1904751
MATRAVILLE	Port Botany Bus Depot	7 Bumborah Point ROAD	Other Petroleum	Regulation under CLM Act not required	-33.96880413	151.2255889
MATRAVILLE	Former Golden Fleece Terminal No2	151 Beauchamp ROAD	Other Petroleum	Contamination formerly regulated under the CLM Act	-33.95719404	151.2259884
MATRAVILLE	Former Rieco Incinerator	Kain AVENUE	Other Industry	Contamination being managed via the planning process (EP&A Act)	-33.95980534	151.2423679
MATRAVILLE	7-Eleven Service Station Matraville	515 Bunnerong ROAD	Service Station	Contamination currently regulated under CLM Act	-33.95943536	151.2317598
MATRAVILLE	Former Golden Fleece Terminal No1	133 -149 Beauchamp ROAD	Other Petroleum	Contamination formerly regulated under the CLM Act	-33.95776666	151.2248518
MATRAVILLE	Vacant Lot	3 Wilkes AVENUE	Other Industry	Regulation under CLM Act not required	-33.96006406	151.2431087
MATRAVILLE	Eastern Suburbs Memorial Park	12 Military ROAD	Chemical Industry	Under assessment	-33.9719906	151.2274386
MAYFIELD	7-Eleven (Former Mobil) Service Station	412-416 Maitland ROAD	Service Station	Regulation under CLM Act not required	-32.89292005	151.7300948
MAYFIELD	Shell Coles Express Service Station	63-69 Maud STREET	Service Station	Regulation under CLM Act not required	-32.89358962	151.7221298
MAYFIELD	BHP Closure Site (Hunter River Sediments)	Bed Sediments of the Hunter adjacent to Lot 221 DP1013964 RIVER	Metal Industry	Contamination formerly regulated under the CLM Act	-32.89203741	151.7646702
MAYFIELD	Australian Tube Mills Newcastle Site	Industrial DRIVE	Metal Industry	Under assessment	-32.88835767	151.7450751
MAYFIELD	BHP Steel River	directly adjacent to the Hunter River; near the Tourle Street Bridge STREET	Metal Industry	Contamination currently regulated under CLM Act	-32.8773556	151.7252427
MAYFIELD	BHPB Supply site	Lot 223 South and West - Industrial DRIVE	Metal Industry	Contamination currently regulated under CLM Act	-32.88583041	151.7388423
MAYFIELD	Waratah Steel Mill	23 Frith STREET	Metal Industry	Regulation under CLM Act not required	-32.89426592	151.7257429
MAYFIELD	OneSteel (BHP)	Industrial DRIVE	Metal Industry	Contamination currently regulated under CLM Act	-32.88366987	151.7449491
MAYFIELD NORTH	OneSteel - Newcastle Wire, Rod and Bar Mills	141 & 151 Ingall STREET	Metal Industry	Under assessment	-32.89008485	151.752949
MAYFIELD WEST	Stevenson Park landfill	2/559 Maitland ROAD	Landfill	Regulation under CLM Act not required	-32.88472556	151.7224791
MAYFIELD WEST	Koppers Coal Tar	East of Woodstock Street and Tourle STREET	Other Industry	Contamination currently regulated under CLM Act	-32.88554791	151.7368545
MAYFIELD WEST	Tourle Street Bridge Project	Tourle STREET	Landfill	Regulation under CLM Act not required	-32.88075518	151.7330073

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
MCDOUGALLS HILL	Caltex Service Station	4949 New England HIGHWAY	Service Station	Regulation under CLM Act not required	-32.54484714	151.1490757
MEADOWBANK	Former Council Works Depot	2 Parsonage STREET	Unclassified	Regulation under CLM Act not required	-33.82191421	151.0951974
MENAI	7-Eleven (Former Mobil) Service Station Menai	289 Menai ROAD	Service Station	Regulation under CLM Act not required	-34.01579095	151.0131737
MENAI	Caltex Service Station Menai	1 Carter Road ROAD	Service Station	Regulation under CLM Act not required	-34.01654043	151.0124133
MEREWETHER	Merewether Childcare Centre	2/23 Caldwell STREET	Unclassified	Regulation under CLM Act not required	-32.94249653	151.7504279
MERIMBULA	Caltex Service Station	19-25 Merimbula DRIVE	Service Station	Regulation under CLM Act not required	-36.88757881	149.9089159
MERIMBULA	Former Mobil Service Station	27 Market STREET	Service Station	Regulation under CLM Act not required	-36.88941693	149.9103485
MERRYLANDS	Former Timber Yard and Hardware	11-19 Centenary ROAD	Other Petroleum	Regulation under CLM Act not required	-33.83083025	150.9698915
MERRYLANDS	Caltex Service Station	229 Woodville ROAD	Service Station	Regulation under CLM Act not required	-33.84547463	150.9983413
MERRYLANDS	Caltex Service Station Merrylands	148 Woodville ROAD	Service Station	Regulation under CLM Act not required	-33.83818499	150.9997199
MERRYLANDS	Stockland Merrylands Court	249-259 Merrylands ROAD	Service Station	Regulation under CLM Act not required	-33.83560037	150.9869735
MERRYLANDS	7-Eleven Merrylands Service Station	295-297 Merrylands Road, corner Windsor ROAD	Service Station	Regulation under CLM Act not required	-33.83533205	150.9851801
MERRYLANDS	Former Stockfeed Manufacturing Site	1-7 & 9-11 Neil STREET	Other Petroleum	Regulation under CLM Act not required	-33.83390257	150.9947449
MERRYLANDS WEST	Former Mobil Service Station	3 Centenary ROAD	Service Station	Regulation under CLM Act not required	-33.83214226	150.9698958
MILLER	Caltex Service Station	86 Cartwright AVENUE	Service Station	Regulation under CLM Act not required	-33.91878146	150.8827514
MILLERS FOREST	Chichester Trunk Gravity Main	water pipeline	Other Industry	Contamination currently regulated under POEO Act	-32.772877	151.6826841
MILLERS POINT	Former AGL Gasworks	30 - 34 Hickson ROAD	Gasworks	Regulation under CLM Act not required	-33.86179594	151.2031726
MILLERS POINT	Moores Wharf UPSS	4 Towns PLACE	Other Petroleum	Regulation under CLM Act not required	-33.85581123	151.2024759
MILLERS POINT	Former AGL Gasworks	38 Hickson and road reserve ROAD	Gasworks	Contamination being managed via the planning process (EP&A Act)	-33.86280104	151.2032452
MILLERS POINT	Former AGL Gasworks	Berths 5, 6 and 7 (already demolished) and part Hickson ROAD	Gasworks	Contamination currently regulated under CLM Act	-33.86053571	151.2015022
MILLERS POINT	Former AGL Gasworks	Road reserve fronting 30-38 Hickson ROAD	Gasworks	Contamination currently regulated under CLM Act	-33.86241531	151.2024634
MILLERS POINT	Former AGL Gasworks 36 Hickson Road	36 Hickson ROAD	Gasworks	Contamination formerly regulated under the CLM Act	-33.86243824	151.2032514
MILPERRA	Heatcraft Australia Pty Ltd	286 Horsley ROAD	Other Industry	Regulation under CLM Act not required	-33.94031556	150.9958606
MILPERRA	United Group Rail Pty Limited	373 Horsley ROAD	Landfill	Regulation under CLM Act not required	-33.93286283	150.9934071
MILPERRA	Caltex Service Station	264 Milperra ROAD	Service Station	Regulation under CLM Act not required	-33.93018101	150.9910964
MILPERRA	Former Landfill	479 Henry Lawson DRIVE	Landfill	Regulation under CLM Act not required	-33.933968	150.977629
MILTON	Former Sanitary Depot	Slaughterhouse ROAD	Other Industry	Regulation under CLM Act not required	-35.33819825	150.4471917
MILTON	Caltex Milton Service Station and Depot	331 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-35.33154474	150.4492852
MINCHINBURY	7-Eleven (former Mobil) Service Station	815 Great Western HIGHWAY	Service Station	Regulation under CLM Act not required	-33.78812909	150.8495992
MINCHINBURY	BP Service Station	1055 Great Western Highway corner Archbold ROAD	Service Station	Regulation under CLM Act not required	-33.78211857	150.8244185
MINTO	Land adjacent to Former Shell depot	Airds Road and Essex STREET	Other Petroleum	Regulation under CLM Act not required	-34.02140447	150.8415134
MINTO	Shell Coles Express Service Station	73 Pembroke STREET	Service Station	Regulation under CLM Act not required	-34.02316454	150.8503118
MINTO	Former Endeavour Energy Depot	Pembroke ROAD	Other Petroleum	Regulation under CLM Act not required	-34.0408973	150.8451837
MINTO	Logistics Hub - Culverston Road, Minto	Culverston ROAD	Other Petroleum	Regulation under CLM Act not required	-34.0421711	150.833825
MIRANDA	Woolworth's Service Station	455 Kingsway OTHER	Service Station	Contamination currently regulated under CLM Act	-34.03492814	151.1124681
MITTAGONG	Enhance (former Coles Express) Service Station	224 Old Hume HIGHWAY	Service Station	Regulation under CLM Act not required	-34.44746118	150.4326183
MITTAGONG	Lots 1 and 2 Alfred St.	Alfred STREET	Other Petroleum	Contamination formerly regulated under the CLM Act	-34.44738105	150.4565159

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
MITTAGONG	Caltex Mittagong Service Station	65 Bowral ROAD	Service Station	Regulation under CLM Act not required	-34.45245915	150.4381291
MOAMA	Caltex Moama Service Station	73 Meninya (Cnr Regent St) STREET	Service Station	Regulation under CLM Act not required	-36.10815134	144.752849
MOLONG	Cabonne BP Service Station	2 Gidley STREET	Service Station	Contamination currently regulated under CLM Act	-33.09026307	148.8695809
MOLONG	Former Gasworks	Hill STREET	Gasworks	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.09074595	148.8703262
MONA VALE	Mona Vale Bus Depot	58 Darley STREET	Other Petroleum	Contamination currently regulated under CLM Act	-33.67452414	151.3074246
MONA VALE	Former Caltex service station and adjacent properties	79 Barrenjoey Road, 2 Polo Avenue, 6 Polo Avenue, 45 Bassett STREET	Service Station	Contamination formerly regulated under the CLM Act	-33.6743659	151.3096932
MONA VALE	7-Eleven (former Mobil) Service Station	24 Barrenjoey ROAD	Service Station	Regulation under CLM Act not required	-33.676909	151.3082515
MONA VALE	BP Peninsula Express Service Station	Corner Barrenjoey Road and Darley Street East STREET	Service Station	Regulation under CLM Act not required	-33.67670799	151.3090068
MONA VALE	BP Service Station Mona Vale	1721 Pittwater ROAD	Service Station	Regulation under CLM Act not required	-33.68043443	151.3023553
MONA VALE	Caltex Investigation Area	Polo Ave, Perak STREET	Service Station	Contamination formerly regulated under the CLM Act	-33.67431333	151.3091148
MOOBALL	Mooball General Store	5913 Tweed Valley WAY	Service Station	Regulation under CLM Act not required	-28.44204594	153.4887648
MOONBI	Caltex Moonbi Service Station	New England HIGHWAY	Service Station	Regulation under CLM Act not required	-31.02264369	151.069094
MOORE PARK	Area 2, Moore Park	Driver AVENUE	Unclassified	Regulation under CLM Act not required	-33.89426868	151.2226839
MOOREBANK	Caltex Service Station	216 Newbridge ROAD	Service Station	Regulation under CLM Act not required	-33.92930835	150.9551469
MOOREBANK	Joyce Foam Products	5-9 Bridges ROAD	Chemical Industry	Regulation under CLM Act not required	-33.92596302	150.9335273
MOOREBANK	ABB Australia Pty Ltd	(a) 1 Bapaume ROAD	Other Industry	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.94143741	150.9208754
MOOREBANK	Caltex Service Station Moorebank	2 Bridges ROAD	Service Station	Regulation under CLM Act not required	-33.92839682	150.9327012
MOOREBANK	Former Concrete Recyclers property, Newbridge Road, Moorebank	Newbridge ROAD	Landfill	Under assessment	-33.938825	150.965169
MOORLAND	Caltex Service Station	99 Jericho ROAD	Service Station	Regulation under CLM Act not required	-31.79436622	152.6514849
MOREE	Former Freedom Service Station Site Moree	1 Dover STREET	Service Station	Contamination currently regulated under CLM Act	-29.4715814	149.8440279
MOREE	Caltex Depot	101 Gosport STREET	Other Petroleum	Regulation under CLM Act not required	-29.47603684	149.8476728
MOREE	Former Golden Fleece Depot	Gosport STREET	Other Petroleum	Contamination formerly regulated under the CLM Act	-29.47698315	149.8477108
MOREE	Former Mobil Depot	Gosport STREET	Other Petroleum	Contamination formerly regulated under the CLM Act	-29.47771921	149.8478438
MOREE	Moree Airport Evaporation Pond	Newell HIGHWAY	Unclassified	Regulation under CLM Act not required	-29.50289837	149.8411301
MOREE	Caltex Service Station	54 Alice STREET	Service Station	Contamination currently regulated under CLM Act	-29.47158492	149.8433182
MOREE	Former Shell Depot	Adelaide STREET	Other Petroleum	Contamination formerly regulated under the CLM Act	-29.47655335	149.8465698
MOREE	Shell Coles Express Service Station	Corner Gwydir and Balo STREET	Service Station	Regulation under CLM Act not required	-29.46081826	149.8419975
MOREE	BP Truckstop and Depot Moree	Newell Highway - 423 Frome STREET	Service Station	Regulation under CLM Act not required	-29.48223274	149.8463679
MOREE	Sunnyside Road	Sunnyside ROAD	Unclassified	Regulation under CLM Act not required	-29.456633	149.8225
MORISSET	Railcorp Station Masters Cottage	24 Dora STREET	Unclassified	Regulation under CLM Act not required	-33.10849681	151.4880317
MORISSET	Morisset High School	Bridge STREET	Unclassified	Regulation under CLM Act not required	-33.10475221	151.4866482
MORPETH	Telstra Cable Installation and RTA Bridge work	Northumberland STREET	Other Petroleum	Regulation under CLM Act not required	-32.72489729	151.6266795
MORPETH	Former Service Station	Swan STREET	Service Station	Regulation under CLM Act not required	-32.72477413	151.6250642
MORTLAKE	Former Petroleum Storage Site	108-116 Tennyson ROAD	Other Petroleum	Regulation under CLM Act not required	-33.83979033	151.1064889
MORTLAKE	Kendall Bay Sediments	Kendall BAY	Gasworks	Contamination currently regulated under CLM Act	-33.83905999	151.1120458
MORTLAKE	Former AGL site	Tennyson ROAD	Gasworks	Contamination formerly regulated under the CLM Act	-33.84287407	151.1109313
MORTLAKE	Majors Bay Redevelopment	14-22 Hilly STREET	Other Industry	Regulation under CLM Act not required	-33.839553	151.105554

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
MORUYA	Former Fuel Depot Moruya	11 to 13 Ford STREET	Other Petroleum	Regulation under CLM Act not required	-35.9112243	150.0826475
MORUYA	Caltex Service Station Moruya	80-84 Campbell STREET	Service Station	Regulation under CLM Act not required	-35.91195596	150.0824213
MORUYA	Caltex Service Station	26 Campbell STREET	Service Station	Regulation under CLM Act not required	-35.9104985	150.0711419
MOSMAN	7-Eleven Mosman	162A Spit Road Corner Mitchell ROAD	Service Station	Regulation under CLM Act not required	-33.81747016	151.2433633
MOSMAN	BP Service Station	175 Ourimbah ROAD	Service Station	Regulation under CLM Act not required	-33.82106757	151.233291
MOSMAN	7-Eleven Service Station Mosman	45 Spit ROAD	Service Station	Regulation under CLM Act not required	-33.82302718	151.2435627
MOSMAN	Allan Border Oval	Myahgah ROAD	Landfill	Regulation under CLM Act not required	-33.82685	151.241919
MOSS VALE	Woolworths Service Station Moss Vale	609 Argyle STREET	Service Station	Regulation under CLM Act not required	-34.55409411	150.3609797
MOSS VALE	Coles Express Service Station	579 Argyle STREET	Service Station	Regulation under CLM Act not required	-34.55313422	150.364684
MOSS VALE	Moss Vale Refuelling Facility	Lackey ROAD	Other Petroleum	Regulation under CLM Act not required	-34.54662421	150.3721525
MOUNT ANNAN	Woolworths Caltex Mount Annan	157 Narellan (Corner Smeaton Grange Road) ROAD	Service Station	Under assessment	-34.04685527	150.7610434
MOUNT ANNAN	Great Southern Railways Aqueduct	Off Narellan ROAD	Unclassified	Regulation under CLM Act not required	-34.07308479	150.7707436
MOUNT COLAH	Caltex Service Station Mount Colah	603 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.67034662	151.1151861
MOUNT COLAH	Foxglove Oval	Mount Colah ROAD	Landfill	Regulation being finalised	-33.65829855	151.1229638
MOUNT DRUITT	Caltex (former Mobil) Service Station	17 Mount STREET	Service Station	Regulation under CLM Act not required	-33.76567994	150.8244544
MOUNT HUTTON	Woolworths Service Station	46 Wilsons ROAD	Service Station	Regulation under CLM Act not required	-32.9836378	151.67309
MOUNT PRITCHARD	7-Eleven Service Station	352 Elizabeth DRIVE	Service Station	Regulation under CLM Act not required	-33.90260656	150.8963326
MOUNT THORLEY	Bulga Surface Operations	Broke ROAD	Other Industry	Regulation under CLM Act not required	-32.68325751	151.1206158
MOUNT THORLEY	Lowes Petroleum (Former BP) Depot Mount Thorley	74 Mount Thorley ROAD	Other Petroleum	Regulation under CLM Act not required	-32.62443074	151.1025122
MOUNT VICTORIA	Former Mobil Service Station	81 Great Western HIGHWAY	Service Station	Regulation under CLM Act not required	-33.5889727	150.2511783
MOUNT VICTORIA	Caltex Service Station	36a Great Western HIGHWAY	Service Station	Regulation under CLM Act not required	-33.58436517	150.2465528
MUDGEE	Caltex Service Station	114-116 Church STREET	Service Station	Regulation under CLM Act not required	-32.59428029	149.5876199
MUDGEE	Shell Coles Express Service Station	47 Church STREET	Service Station	Regulation under CLM Act not required	-32.59347493	149.5884623
MUDGEE	BP Service Station Mudgee	77 Church STREET	Service Station	Regulation under CLM Act not required	-32.59545872	149.588123
MUDGEE	Mobil Depot	47 Douro STREET	Other Petroleum	Contamination currently regulated under CLM Act	-32.60023979	149.5823448
MUDGEE	Mudgee Gasworks	Mortimer Street and Court STREET	Gasworks	Regulation under CLM Act not required	-32.59168859	149.5817705
MUDGEE	Former Essential Energy Depot	27-31 Inglis STREET	Other Industry	Regulation under CLM Act not required	-32.60076552	149.5858905
MUDGEE	Former Caltex Depot Mudgee	cnr Nicholson Street & Atkinson STREET	Other Petroleum	Regulation under CLM Act not required	-32.60125298	149.5851398
MULGRAVE	7-Eleven (former Mobil) Service Station	Corner Windsor Road and Mulgrave ROAD	Service Station	Regulation under CLM Act not required	-33.61687781	150.8341809
MULWALA	Mulwala ADI Explosives Factory	Bayly STREET	Other Industry	Regulation being finalised	-35.97572689	145.9809786
MURWILLUMBAH	Puma Murwillumbah (formerly Matilda)	182 Tweed Valley WAY	Service Station	Contamination currently regulated under CLM Act	-28.3263681	153.4103824
MURWILLUMBAH	Murwillumbah Ambulance Depot	27 Queen STREET	Other Petroleum	Regulation under CLM Act not required	-28.32552576	153.4000182
MURWILLUMBAH SOUTH	Former Norco Butter Factory (Eastern Portion)	230 Tweed Valley WAY	Other Petroleum	Regulation under CLM Act not required	-28.32791359	153.4073052
MUSWELLBROOK	Former Caltex Depot	1 Lower William STREET	Other Petroleum	Regulation under CLM Act not required	-32.26614257	150.8865136
MUSWELLBROOK	Vacant Rail Land	27 Brook STREET	Unclassified	Regulation under CLM Act not required	-32.26346086	150.8873181
MUSWELLBROOK	United Branded (Former Mobil) Service Station Muswellbrook	49-51 Maitland STREET	Service Station	Regulation under CLM Act not required	-32.27218162	150.8900206
MUSWELLBROOK	Former Mobil Depot Muswellbrook	43-51 Ford STREET	Other Petroleum	Regulation under CLM Act not required	-32.2599725	150.887573

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
MUSWELLBROOK	Woolworths Petrol	72 Brook STREET	Service Station	Regulation under CLM Act not required	-32.26325377	150.8905966
MUSWELLBROOK	Caltex Muswellbrook Service Station	84-86 Maitland STREET	Service Station	Regulation under CLM Act not required	-32.27793094	150.8980938
MUSWELLBROOK	Former Gasworks	Corner Carl Street and Foley STREET	Gasworks	Regulation under CLM Act not required	-32.26672337	150.8935982
MUSWELLBROOK	Bayswater Power Station	New England HIGHWAY	Other Industry	Regulation under CLM Act not required	-32.3954046	150.9502683
MUSWELLBROOK	Former Industrial Site	Lot 89 Rathmore STREET	Other Industry	Regulation under CLM Act not required	-32.30544071	150.8823657
MUSWELLBROOK	Caltex Service Station	12-16 Sydney STREET	Service Station	Regulation under CLM Act not required	-32.26785559	150.8879601
MUSWELLBROOK	Former Caltex Depot	47-50 Victoria STREET	Service Station	Regulation under CLM Act not required	-32.26788823	150.8930609
MUSWELLBROOK	Former Pit Top No. 1 Colliery Muswellbrook Coal	Corner Clendinning Street and Victoria STREET	Other Industry	Regulation under CLM Act not required	-32.27031992	150.9009981
NABIAC	Caltex Service Station Nabiac	3964 Wallanbah (Cnr Wallanbah Rd and Pacific Hwy) ROAD	Service Station	Regulation under CLM Act not required	-32.09864883	152.3754346
NAMBUCCA HEADS	Former Mobil Service Station	6 Bowra STREET	Service Station	Regulation under CLM Act not required	-30.64282127	153.0035884
NARELLAN	Caltex Service Station Narellan	1 George Hunter DRIVE	Service Station	Regulation under CLM Act not required	-34.03963992	150.7432386
NARELLAN	Former Landfill	1 Elyard STREET	Landfill	Regulation under CLM Act not required	-34.043474	150.7393256
NAROOMA	Narooma Service Station	60 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-36.21617955	150.126261
NAROOMA	Former Caltex - Narooma	82 Princes HIGHWAY	Service Station	Contamination formerly regulated under the CLM Act	-36.21711766	150.1279305
NARRABEEN	Caltex Service Station	1509-1511 Pittwater ROAD	Service Station	Regulation under CLM Act not required	-33.70455756	151.2969352
NARRABEEN	Shell Coles Express Service Station	1418 Pittwater ROAD	Service Station	Regulation under CLM Act not required	-33.70013931	151.3002782
NARRABEEN	Narrabeen Shotgun Range Sydney Academy of Sport	Wakehurst PARKWAY	Unclassified	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.72138423	151.2642798
NARRABEEN	7-Eleven Service Station	1234 Pittwater ROAD	Service Station	Regulation under CLM Act not required	-33.71958892	151.298272
NARRABRI	Caltex Service Station	13 Doyle STREET	Service Station	Regulation under CLM Act not required	-30.3239182	149.7843052
NARRABRI	Lowes Petroleum (Former Mobil) Narrabri Depot	3 Old Gunnedah ROAD	Other Petroleum	Regulation under CLM Act not required	-30.33473586	149.789587
NARRABRI	Caltex Service Station	31-35 Cooma ROAD	Service Station	Regulation under CLM Act not required	-30.33968576	149.7657241
NARRABRI	Caltex Narrabri Service Station	31 Dangar (Cnr Anne and Dangar) STREET	Service Station	Regulation under CLM Act not required	-30.32989667	149.7756598
NARRABRI	Caltex Service Station	12 Reid STREET	Other Petroleum	Regulation under CLM Act not required	-30.32282764	149.7901182
NARRABRI	Cargill Soapstock Disposal Site	Westport ROAD	Unclassified	Contamination formerly regulated under the CLM Act	-30.4698458	149.6981931
NARRABRI	Caltex Service Station	7-13 James STREET	Service Station	Regulation under CLM Act not required	-30.33016168	149.7940732
NARRANDERA	Former Mobil Narrandera Depot	24 Whitton STREET	Other Petroleum	Regulation under CLM Act not required	-34.7410523	146.5620667
NARRANDERA	Former Mobil Emoleum Narrandera Depot	5-7 Margaret STREET	Other Petroleum	Regulation under CLM Act not required	-34.74105391	146.5628144
NARROMINE	Narromine Fuel (Former Caltex) Service Station	Cnr Burraway Street and Algalah STREET	Service Station	Regulation under CLM Act not required	-32.23565321	148.2454259
NELLIGEN	Former Clay Target Shooting Range	1398 Kings Highway and adjoining land on Old Bolaro Mountain ROAD	Unclassified	Contamination currently regulated under CLM Act	-35.64392469	150.0955224
NELLIGEN	Lot 2 Old Bolaro Road	Old Bolaro ROAD	Unclassified	Contamination formerly regulated under the CLM Act	-35.64485609	150.0937341
NELSON BAY	Shell Coles Express Service Station	25 Stockton STREET	Service Station	Regulation under CLM Act not required	-32.72265762	152.1437317
NELSON BAY	Former Caltex Service Station Nelson Bay	38 Stockton STREET	Service Station	Regulation under CLM Act not required	-32.72335662	152.1429384
NEMINGHA	Caltex Service Station and Depot Nemingha	428 Armidale (previously 16 New England Highway) ROAD	Service Station	Regulation under CLM Act not required	-31.12425169	150.9909054
NEUTRAL BAY	Caltex Service Station	16-38 Military ROAD	Service Station	Regulation under CLM Act not required	-33.82907162	151.2163342
NEUTRAL BAY	Shell Coles Express Service Station	200-204 Ben Boyd ROAD	Service Station	Regulation under CLM Act not required	-33.82915781	151.219437
NEW LAMBTON	Caltex Service Station New Lambton	144 Bridges ROAD	Service Station	Regulation under CLM Act not required	-32.93283668	151.7141748
NEW LAMBTON	BP Service Station	105 St James ROAD	Service Station	Regulation under CLM Act not required	-32.92910325	151.7155801

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
NEW LAMBTON	7-Eleven (former Mobil) Service Station	291 Turton ROAD	Service Station	Regulation under CLM Act not required	-32.91773864	151.7243096
NEWCASTLE	Reclaimed Land	26-28 Honeysuckle DRIVE	Unclassified	Contamination formerly regulated under the CLM Act	-32.92604705	151.7649508
NEWCASTLE	Wharf Road Newcastle Car Park	313-317 Wharf ROAD	Unclassified	Regulation under CLM Act not required	-32.92570385	151.7744076
NEWCASTLE	Newcastle Foreshore	40 Stevenson Place STREET	Other Industry	Regulation under CLM Act not required	-32.92556503	151.7876742
NEWCASTLE	BHP Steelworks (Closure site)	Bound by Hunter River, Selwyn Street & Industrial DRIVE	Metal Industry	Ongoing maintenance required to manage residual contamination (CLM Act)	-32.89436064	151.7590762
NEWCASTLE	SRA Land	Scott STREET	Gasworks	Regulation under CLM Act not required	-32.92641425	151.7837817
NEWCASTLE WEST	Former Mobil Service Station	113 Parry STREET	Service Station	Regulation under CLM Act not required	-32.92560628	151.7558542
NEWPORT	7-Eleven (former Mobil) Service Station	307 Barrenjoey ROAD	Service Station	Regulation under CLM Act not required	-33.65632902	151.3182089
NEWPORT	Former Caltex Service Station Newport	316-324 Barrenjoey ROAD	Service Station	Regulation under CLM Act not required	-33.65634516	151.3191571
NEWTOWN	Caltex Service Station Newtown	26 - 36 Enmore ROAD	Service Station	Regulation under CLM Act not required	-33.89851331	151.17714
NEWTOWN	Former Service Station	81 Wilson STREET	Service Station	Contamination formerly regulated under the CLM Act	-33.89626791	151.1827556
NEWTOWN	Aluminium Enterprises	66 Brocks LANE	Metal Industry	Contamination was addressed via the planning process (EP&A Act)	-33.89467126	151.1847528
NEWTOWN	Adjacent to Former Service Station	79 Wilson STREET	Service Station	Contamination formerly regulated under the CLM Act	-33.89630155	151.1826567
NORAVILLE	Former Toukley Landfill	Wilfred Barrett DRIVE	Landfill	Regulation under CLM Act not required	-33.27734185	151.5537784
NORTH ALBURY	Caltex Service Station and Diesel Stop	79 Union ROAD	Service Station	Regulation under CLM Act not required	-36.05496713	146.9487635
NORTH BOAMBEE VALLEY	Caltex Service Station	Cnr Pacific Hwy & Halls ROAD	Service Station	Regulation under CLM Act not required	-30.30639482	153.1007996
NORTH BONDI	Caltex Service Station North Bondi	321 Old South Head ROAD	Service Station	Regulation under CLM Act not required	-33.88463526	151.268551
NORTH NARRABEEN	7-Eleven Service Station	1501-1503 Pittwater ROAD	Service Station	Regulation under CLM Act not required	-33.70749859	151.296351
NORTH RICHMOND	Caltex Service Station	50 Bells Line Of ROAD	Service Station	Regulation under CLM Act not required	-33.57991338	150.7202346
NORTH ROCKS	7-Eleven Service Station North Rocks	340 North Rocks ROAD	Service Station	Regulation under CLM Act not required	-33.76895144	151.0305952
NORTH ST MARYS	BP Service Station	76 Glossop STREET	Service Station	Regulation under CLM Act not required	-33.76020183	150.7818149
NORTH STRATHFIELD	Budget Service Station	143 Concord ROAD	Service Station	Regulation under CLM Act not required	-33.85945248	151.0927853
NORTH STRATHFIELD	Former Caltex Service Station	92a Concord ROAD	Service Station	Regulation under CLM Act not required	-33.86244297	151.0932434
NORTH SYDNEY	Iora Complex	1 Kiara PLACE	Gasworks	Regulation under CLM Act not required	-33.843145	151.2161142
NORTH SYDNEY	Neutral Bay Sediments	Adjacent to Sub Base Platypus, High STREET	Gasworks	Contamination formerly regulated under the CLM Act	-33.842724	151.2174523
NORTH SYDNEY	Sub Base Platypus (previously HMAS Platypus)	High STREET	Gasworks	Contamination formerly regulated under the CLM Act	-33.84325935	151.2170347
NORTH WOLLONGONG	Former Mobil Depot	122-126 Montague STREET	Other Petroleum	Regulation under CLM Act not required	-34.40988259	150.8939374
NORTHMEAD	Former Prestige Plastics	1C Redbank ROAD	Other Industry	Regulation under CLM Act not required	-33.79716925	150.989926
NORTHMEAD	Coles Express Service Station Northmead	197 Windsor ROAD	Service Station	Regulation under CLM Act not required	-33.77741733	151.0001719
NORTHMEAD	Sydney Water Land	51c Hammers ROAD	Landfill	Regulation under CLM Act not required	-33.7887535	150.9858088
NORTHMEAD	Caltex Service Station	98-100 Windsor ROAD	Service Station	Regulation under CLM Act not required	-33.78786563	150.9945909
NORTHMEAD	7-Eleven Service Station Northmead	56 Windsor ROAD	Service Station	Regulation under CLM Act not required	-33.79090731	150.9967332
NOWRA	Former Gasworks Managers Residence	24 Osborne STREET	Gasworks	Regulation under CLM Act not required	-34.8708875	150.5992586
NOWRA	Fire Station	69 Bridge ROAD	Gasworks	Regulation under CLM Act not required	-34.87081582	150.6004881
NOWRA	Historically Filled Land	70 Bridge ROAD	Unclassified	Regulation under CLM Act not required	-34.87081809	150.6013231
NOWRA	Shell Coles Express Service Station	55 Kinghorne STREET	Service Station	Regulation under CLM Act not required	-34.87633757	150.6023481
NOWRA	Former gasworks	Lamonds LANE	Gasworks	Contamination currently regulated under CLM Act	-34.87111182	150.6000803

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
NOWRA	Former Hollingworth Scrap Yard	72-74 Jervis and 117 East STREET	Other Industry	Regulation under CLM Act not required	-34.88324216	150.6034361
NOWRA	Woolworths Service Station	60 North Street STREET	Service Station	Under assessment	-34.87266278	150.6014052
NOWRA	Harry Sawkins Park	Bounded by Princes Hwy, Graham St & McGrath AVENUE	Gasworks	Regulation under CLM Act not required	-34.87093993	150.6037157
NOWRA EAST	Mobil Service Station	Lot 3 Kalandar STREET	Service Station	Contamination formerly regulated under the CLM Act	-34.88850535	150.6093504
NYNGAN	Caltex Service Station	39-41 Pangee STREET	Service Station	Regulation under CLM Act not required	-31.56101006	147.1914997
NYNGAN	Caltex Service Station	126 Pangee STREET	Service Station	Regulation under CLM Act not required	-31.56482841	147.2002892
OAK FLATS	Shellharbour City Works Depot	132 Industrial ROAD	Other Industry	Regulation under CLM Act not required	-34.56546013	150.8087225
OBERON	Caltex Service Station and Depot	Lowes Mount ROAD	Service Station	Regulation under CLM Act not required	-33.69509055	149.8570553
OBERON	Oberon Timber Complex	Lowes Mount ROAD	Other Industry	Regulation under CLM Act not required	-33.69264862	149.8564588
OBERON	Former Shell Depot	32 O'Connell ROAD	Other Petroleum	Regulation under CLM Act not required	-33.6997172	149.8450057
OBERON	CSR Ltd Property and King's Stockyard Creek	Off Endeavour STREET	Other Industry	Contamination formerly regulated under the CLM Act	-33.6922152	149.8686909
OCEAN SHORES	Former Ocean Shores Service Station	Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-28.51270299	153.5301496
OLD GUILDFORD	Caltex Service Station	636-644 Woodville ROAD	Service Station	Regulation under CLM Act not required	-33.86670857	150.9879189
ORANGE	Former Fuel Depot	24-28 Peisley STREET	Other Petroleum	Contamination currently regulated under CLM Act	-33.29624293	149.1017277
ORANGE	Caltex Orange Depot	184 Byng STREET	Service Station	Regulation under CLM Act not required	-33.28285589	149.1050273
ORANGE	Woolworths Orange Service Station	357-361 Summer Street, corner William STREET	Service Station	Regulation under CLM Act not required	-33.28445811	149.1053604
ORANGE	BP Orange Service Station (Reliance Petroleum)	81 Summer STREET	Service Station	Regulation under CLM Act not required	-33.2825884	149.0951535
ORANGE	BP-Branded Lowes Petroleum Depot	197 - 201 Margaret STREET	Other Petroleum	Regulation under CLM Act not required	-33.27145977	149.1078103
ORANGE	Caltex Summer Street Service Station Orange	70-74 Summer Street, corner Hill STREET	Service Station	Regulation under CLM Act not required	-33.28311722	149.0940712
ORANGE	Lowes Petroleum (BP-branded) Service Station	76 Peisley STREET	Service Station	Regulation under CLM Act not required	-33.29025034	149.1027194
ORANGE	Former Mobil Service Station	24-28 Bathurst ROAD	Service Station	Regulation under CLM Act not required	-33.2866912	149.1066505
ORANGE	BP (Reliance Petroleum) Service Station Orange	56-60 Bathurst ROAD	Service Station	Regulation under CLM Act not required	-33.28980053	149.1086212
ORANGE	Former Mobil Service Station	168 Peisley STREET	Service Station	Regulation under CLM Act not required	-33.28525478	149.1037259
ORANGE	5-7 Edward St Orange	5-7 Edward STREET	Other Industry	Contamination currently regulated under CLM Act	-33.29874849	149.1038449
OURIMBAH	Palmdale Service Centre Pty Ltd	3130 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.3381336	151.374586
OURIMBAH	Shell Coles Express Service Station	78-80 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.3468202	151.3710098
OXLEY VALE	Hayes Transport Services	10 Manilla ROAD	Other Petroleum	Regulation under CLM Act not required	-31.06991417	150.9101381
OYSTER BAY	Shell Coles Express Service Station	20 Carvers ROAD	Service Station	Contamination currently regulated under CLM Act	-34.00934475	151.0758626
OYSTER COVE	Cove Marine Pty Ltd	60 Frederick STREET	Unclassified	Contamination currently regulated under POEO Act	-32.73549959	151.952446
PADDINGTON	7-Eleven Service Station	59 Oxford STREET	Service Station	Contamination currently regulated under CLM Act	-33.88322921	151.2205024
PADDINGTON	Former Workshop	52 Hopewell STREET	Other Industry	Regulation under CLM Act not required	-33.881947	151.222074
PADSTOW	Caltex Padstow	115 Fairford ROAD	Service Station	Regulation under CLM Act not required	-33.9434571	151.0345671
PADSTOW	Selleys / Dulux	1-29 Gow STREET	Chemical Industry	Regulation under CLM Act not required	-33.93904125	151.0381725
PADSTOW	Former Exide Battery Manufacturing & Recycling	55 Bryant STREET	Other Industry	Contamination currently regulated under CLM Act	-33.94265241	151.0378986
PADSTOW	Galvatech	49 Gow STREET	Metal Industry	Contamination currently regulated under POEO Act	-33.93808679	151.0346862
PADSTOW	Foseco Australia	7 Stuart STREET	Chemical Industry	Regulation under CLM Act not required	-33.94342957	151.0377316
PADSTOW	Sebel Furniture	Parts 64 and 92 Gow STREET	Other Industry	Regulation under CLM Act not required	-33.93606752	151.0322057

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
PAGEWOOD	Former Email Site	Corner of Page Street and Holloway STREET	Metal Industry	Contamination currently regulated under CLM Act	-33.94302462	151.2132036
PAMBULA	Offsite area (roadways) adjacent to United Service Station Pambula (former Shell)	Corner Quondola Street and Bullara STREET	Service Station	Regulation under CLM Act not required	-36.93104481	149.8746763
PARKES	Caltex Service Station Parkes	352-360 Clarinda STREET	Service Station	Regulation under CLM Act not required	-33.13317454	148.173643
PARKES	Former Caltex Parkes (Mugincoble) Depot - Eugowra Rd, Mugincoble	Eugowra ROAD	Service Station	Regulation under CLM Act not required	-33.19007031	148.224822
PARKES	BP Truckstop	(Newell Highway) 1 Forbes ROAD	Other Petroleum	Regulation under CLM Act not required	-33.14309226	148.1710282
PARKES	Former BP Telescope Service Station	339-341 Clarinda STREET	Service Station	Regulation under CLM Act not required	-33.13216152	148.1743239
PARKES	BP Reliance East End Service Station Parkes	46 Clarinda STREET	Service Station	Regulation under CLM Act not required	-33.14243539	148.1846227
PARKES	Parkes Steel Products formerly Parkes Gas Works (including Rail Corridor)	1A East STREET	Gasworks	Under assessment	-33.143041	148.182984
PARKLEA	Caltex Parklea Service Station	Old Windsor (north of Miami Street) ROAD	Service Station	Regulation under CLM Act not required	-33.72427108	150.9388531
PARRAMATTA	BP Service Station	435 Church STREET	Service Station	Regulation under CLM Act not required	-33.80498714	151.0056151
PARRAMATTA	Coleman Oval Embankment	Cnr of Pitt STREET and Maquarie STREET	Unclassified	Regulation under CLM Act not required	-33.80441625	150.9954841
PARRAMATTA	7-Eleven (former Mobil) Service Station	81 Victoria ROAD	Service Station	Regulation under CLM Act not required	-33.80919769	151.0142894
PARRAMATTA	Parramatta Park Toilet Block Demolition	The Cresent Toilet Block Parramatta PARK	Unclassified	Regulation under CLM Act not required	-33.81054034	150.9961968
PAUPONG	Former Timber Treatment Plant	Off Paupong ROAD	Other Industry	Regulation under CLM Act not required	-36.57657408	148.6624998
PENDLE HILL	7-Eleven Service Station	217 Wentworth AVENUE	Service Station	Regulation under CLM Act not required	-33.8017814	150.9577994
PENNANT HILLS	Shell Coles Express Pennant Hills West	386 Pennant Hills ROAD	Service Station	Contamination currently regulated under CLM Act	-33.73928611	151.0679704
PENRITH	Mirvac Industrial Site	2101 Castlereagh ROAD	Other Industry	Regulation under CLM Act not required	-33.73497514	150.6954097
PENRITH	7-Eleven (former Mobil) Service Station	212-222 Andrews ROAD	Service Station	Regulation under CLM Act not required	-33.73059678	150.6952571
PENRITH	Lowes Petroleum (Former Mobil) Depot Penrith	174 Coreen AVENUE	Other Petroleum	Regulation under CLM Act not required	-33.74484268	150.6980504
PENRITH	Caltex Service Station	Castlereagh Rd Cnr Lugard STREET	Service Station	Regulation under CLM Act not required	-33.73426843	150.6933382
PENRITH	BP Express Service Station	Corner Coreen Avenue and Castlereagh ROAD	Service Station	Regulation under CLM Act not required	-33.74385498	150.6925743
PENRITH	Crane Enfield Metals	Castlereagh ROAD	Metal Industry	Contamination currently regulated under CLM Act	-33.73734959	150.696442
PENRITH	7-Eleven Service Station Penrith	30 Henry STREET	Service Station	Regulation under CLM Act not required	-33.75408799	150.7045594
PENRITH	Caltex Penrith Service Station	153 Coreen AVENUE	Service Station	Regulation under CLM Act not required	-33.74287244	150.6927071
PENRITH	Jet 60 Dry Cleaners	Shop 3 134-138 Henry STREET	Unclassified	Regulation under CLM Act not required	-33.75231953	150.6964541
PENRITH	St Mary's Shopping Village	Charles Hackett DRIVE	Other Industry	Regulation under CLM Act not required	-33.766814	150.770363
PENRITH	Former Dry Cleaners	Shop 3, 134-138 Henry STREET	Other Industry	Regulation under CLM Act not required	-33.75231953	150.6964541
PENSHURST	7-Eleven Service Station	612 Forest ROAD	Service Station	Regulation under CLM Act not required	-33.96153533	151.0793525
PENSHURST	Caltex Service Station	641 King Georges ROAD	Service Station	Regulation under CLM Act not required	-33.95985335	151.0891118
PERISHER VALLEY	Perisher Centre Loading Dock	Kosciuszko ROAD	Other Petroleum	Regulation under CLM Act not required	-36.40392862	148.4111593
PERISHER VALLEY	Perisher Ski Resort	Kosciuszko ROAD	Other Petroleum	Regulation under CLM Act not required	-36.41106374	148.4005469
PETERSHAM	Fanny Durack Aquatic Centre	Station STREET	Unclassified	Regulation under CLM Act not required	-33.89194583	151.151824
PHEASANTS NEST	7-Eleven Service Station	(Southbound) Hume HIGHWAY	Service Station	Regulation under CLM Act not required	-34.28291571	150.6394606
PHEASANTS NEST	7-Eleven (former Mobil) Service Station	(Northbound) Hume HIGHWAY	Service Station	Regulation under CLM Act not required	-34.28303112	150.6363145
PICTON	Coles Express Picton	93-99 Argyle STREET	Service Station	Regulation under CLM Act not required	-34.16844337	150.6114236
PICTON	McDonalds	69 -71 Argyle STREET	Service Station	Regulation under CLM Act not required	-34.16711877	150.6121524
PITT TOWN	Whites Water Service	1 Canning PLACE	Other Industry	Under assessment	-33.574095	150.881258

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
PLUMPTON	Woolworths Service Station Plumpton (Plumpton Marketplace Shops)	260 Jersey ROAD	Service Station	Regulation under CLM Act not required	-33.74478874	150.8369408
PORT BOTANY	Vopak B	20 Friendship ROAD	Chemical Industry	Regulation under CLM Act not required	-33.97946548	151.2121752
PORT BOTANY	Vopak A	49 Friendship ROAD	Chemical Industry	Regulation under CLM Act not required	-33.97426175	151.2206228
PORT BOTANY	Terminals	45 Friendship ROAD	Chemical Industry	Regulation under CLM Act not required	-33.97609287	151.2174402
PORT BOTANY	Bunnerong Canal	Between Brotherson Dock and Bumborah Point ROAD	Unclassified	Regulation under CLM Act not required	-33.96798227	151.2230052
PORT BOTANY	Bulk Liquids Berth UPSS, Port Botany	Charlotte ROAD	Other Petroleum	Regulation under CLM Act not required	-33.97386329	151.2120157
PORT BOTANY	Port Operations Centre UPSS, Port Botany	Penrhyn ROAD	Other Petroleum	Regulation under CLM Act not required	-33.96803686	151.2205968
PORT BOTANY	Port Botany Railway Corridors	Friendship ROAD	Other Industry	Regulation under CLM Act not required	-33.95467008	151.2178012
PORT BOTANY	Smith Bros	4 Bumborah Point ROAD	Other Petroleum	Regulation under CLM Act not required	-33.9681757	151.2239505
PORT BOTANY	Vopak Terminals	21 Fishburn ROAD	Other Industry	Under assessment	-33.978961	151.217144
PORT KEMBLA	Coates Hire Facility (Eastern Portion)	1 Flinders STREET	Other Industry	Regulation under CLM Act not required	-34.47104817	150.89162
PORT KEMBLA	Shell Port Kembla CVRO	87-89 Flinders STREET	Other Petroleum	Regulation under CLM Act not required	-34.46964995	150.8953859
PORT KEMBLA	Darcy Road Rail Sidings	Darcy ROAD	Other Industry	Regulation under CLM Act not required	-34.47792834	150.9105503
PORT KEMBLA	No 2 Steelworks	Five Islands ROAD	Metal Industry	Regulation under CLM Act not required	-34.45965024	150.8844432
PORT KEMBLA	Port Kembla Orica	Foreshore Road and Darcy ROAD	Other Industry	Contamination currently regulated under CLM Act	-34.47773583	150.9054545
PORT KEMBLA	Port Kembla, Auszinc Metals and Alloys	Lot 2 Shellharbour ROAD	Metal Industry	Regulation under CLM Act not required	-34.49335414	150.8961205
PORT KEMBLA	South Yard Rail Sidings	Lot 3 Old Port ROAD	Unclassified	Regulation under CLM Act not required	-34.47500551	150.8951759
PORT KEMBLA	Manildra Park	Flinders STREET	Other Petroleum	Contamination formerly regulated under the CLM Act	-34.46946878	150.8935731
PORT KEMBLA	Port Kembla Copper Smelter	Military ROAD	Metal Industry	Contamination currently regulated under POEO Act	-34.4810006	150.9063426
PORT KEMBLA	Caltex Service Station	16 Flinders STREET	Service Station	Regulation under CLM Act not required	-34.47058088	150.8945864
PORT KEMBLA	BHP Area 21	Springhill ROAD	Metal Industry	Contamination formerly regulated under the CLM Act	-34.45244614	150.8676517
PORT KEMBLA	Port Kembla Steelworks Recycling Area	Springhill ROAD	Unclassified	Regulation under CLM Act not required	-34.45271181	150.8677127
PORT KEMBLA	Commonwealth Rolling Mills (CRM)	Old Port ROAD	Metal Industry	Regulation under CLM Act not required	-34.47476117	150.8974746
PORT KEMBLA	Port Kembla, Former Electricity Commission Site	Old Port Road/Christie Drive ROAD	Other Industry	Regulation under CLM Act not required	-34.46899143	150.8982854
PORT KEMBLA	Port Kembla Steelworks - Steelhaven	Five Islands ROAD	Other Industry	Regulation under CLM Act not required	-34.47605247	150.891144
PORT KEMBLA	Port Kembla Steelworks - No.1 Works Site	Five Islands ROAD	Metal Industry	Regulation under CLM Act not required	-34.47386606	150.8794912
PORT KEMBLA	Port Kembla Springhill Works	Springhill ROAD	Metal Industry	Regulation under CLM Act not required	-34.45905808	150.8749558
PORT MACQUARIE	Former Mobil Depot	211 Lake ROAD	Other Petroleum	Regulation under CLM Act not required	-31.44688513	152.8864499
PORT MACQUARIE	Caltex Service Station	112-114 Gordon STREET	Service Station	Regulation under CLM Act not required	-31.43491709	152.9047618
PORT MACQUARIE	Caltex Port Macquarie Service Station	29 Lord STREET	Service Station	Regulation under CLM Act not required	-31.43326436	152.9169873
PORT MACQUARIE	Coles Myer	43 John Oxley DRIVE	Service Station	Regulation under CLM Act not required	-31.45741442	152.8739626
PORT MACQUARIE	Air BP Avgas Facility	Oliver DRIVE	Other Petroleum	Regulation under CLM Act not required	-31.43227222	152.8681083
PORT MACQUARIE	Former Mobil Service Station	Corner Oxley Highway and Major Innes DRIVE	Service Station	Regulation under CLM Act not required	-31.45738931	152.873956
PORT MACQUARIE	Port Macquarie Council Depot	Koala STREET	Unclassified	Regulation under CLM Act not required	-31.45341586	152.9032764
PORT MACQUARIE	Shell Coles Express Port Macquarie Service Station	121 Gordon STREET	Service Station	Regulation under CLM Act not required	-31.4343131	152.9046869
PORT MACQUARIE	Caltex Service Station	92 Hastings River DRIVE	Service Station	Regulation under CLM Act not required	-31.42934052	152.8830188
PORT MACQUARIE	Caltex Service Station	12-14 Bolwarra ROAD	Service Station	Regulation under CLM Act not required	-31.45015286	152.8854769

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
PORT MACQUARIE	Car park	28 Hayward STREET	Other Industry	Regulation under CLM Act not required	-31.43385131	152.9072399
PORTLAND	Ivanhoe Colliery	Pipers Flat ROAD	Other Industry	Regulation under CLM Act not required	-33.36595748	150.0099577
PORTLAND	Mt Piper Power Station	350 Boulder ROAD	Other Petroleum	Regulation under CLM Act not required	-33.35581541	150.0350801
PRAIRIEWOOD	7-Eleven (former Caltex) Service Station	485-487 Smithfield ROAD	Service Station	Regulation under CLM Act not required	-33.87102509	150.9031383
PROSPECT	7-Eleven (former Mobil) Service Station Prospect	354 Flushcombe ROAD	Service Station	Regulation under CLM Act not required	-33.79541624	150.9049417
PROSPECT	Pincott's Cottage, Gate C1	Off Reservoir ROAD	Unclassified	Regulation under CLM Act not required	-33.81589773	150.9144343
PROSPECT	Gatehouse, 544 Reservoir Road	544 Reservoir ROAD	Unclassified	Regulation under CLM Act not required	-33.81049244	150.9157439
PROSPECT	Cottage 3, William Lawson Drive	William Lawson DRIVE	Unclassified	Regulation under CLM Act not required	-33.81490331	150.9149885
PUNCHBOWL	Former BP Service Station	1375 Canterbury Road, corner Victoria ROAD	Service Station	Regulation under CLM Act not required	-33.93170424	151.0537302
PUNCHBOWL	Punchbowl Laundry	42-44 Belmore ROAD	Chemical Industry	Contamination currently regulated under CLM Act	-33.93582701	151.0562638
PUNCHBOWL	Caltex Service Station Punchbowl	1285-1289 Canterbury ROAD	Service Station	Regulation under CLM Act not required	-33.93146308	151.0596348
PUTNEY	Putney Marina	20 Waterview STREET	Other Industry	Regulation under CLM Act not required	-33.82608091	151.1003966
PYMBLE	Caltex Service Station	1089 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.74102977	151.1385257
PYMBLE	Shell Coles Express Service Station	21 Ryde ROAD	Service Station	Regulation under CLM Act not required	-33.75198512	151.1438115
PYMBLE	Former 3M site	950 Pacific HIGHWAY	Gasworks	Regulation under CLM Act not required	-33.75050288	151.1460578
PYMBLE	Pymble West Dry Cleaners	6 Philip MALL	Other Industry	Under preliminary investigation order	-33.76109009	151.1284329
PYRMONT	Former Council Works Depot (Fig and Wattle Depot)	14-26 Wattle STREET	Other Industry	Regulation under CLM Act not required	-33.8752655	151.1942645
QUAKERS HILL	7-Eleven (former Mobil) Service Station	83 Lalor ROAD	Service Station	Regulation under CLM Act not required	-33.72759077	150.8966764
QUAKERS HILL	BP Branded Parkway (Former Caltex) Service Station Quakers Hill	450 Quakers Hill PARKWAY	Service Station	Regulation under CLM Act not required	-33.72998613	150.9023617
QUEANBEYAN	Former Mobil Service Station	153 Uriarra ROAD	Service Station	Regulation under CLM Act not required	-35.34425514	149.2148687
QUEANBEYAN	Bill Lilley Automotive	169 Crawford STREET	Service Station	Regulation under CLM Act not required	-35.35138121	149.232486
QUEANBEYAN	Woolworths Queanbeyan Service Station	196 Crawford (Cnr Morisset St) STREET	Service Station	Regulation under CLM Act not required	-35.35163055	149.2335759
QUEANBEYAN	Caltex Queanbeyan Service Station	88 Macquoid (also known as Bungendore Rd) STREET	Service Station	Regulation under CLM Act not required	-35.34930535	149.2438607
QUEANBEYAN	Former Mobil Emoleum Depot	109-111 High STREET	Other Petroleum	Regulation under CLM Act not required	-35.3396115	149.237556
QUEANBEYAN	Former Caltex Depot	20-30 Railway STREET	Other Petroleum	Regulation under CLM Act not required	-35.34187485	149.2247277
QUEANBEYAN EAST	BP-Branded Service Station Queanbeyan	50 Yass ROAD	Service Station	Regulation under CLM Act not required	-35.34126641	149.2445103
QUEANBEYAN WEST	Caltex Service Station	Lanyon Dr Cnr Mccrae St (1 Suraci Place) STREET	Service Station	Regulation under CLM Act not required	-35.36372923	149.2067531
QUIRINDI	Former Mobil Depot Quirindi	4-6 Cross STREET	Other Petroleum	Regulation under CLM Act not required	-31.49903355	150.681972
QUIRINDI	Tamarang ServiCentre Quirindi	113-117 Station (also known as 119-121 Nowland) STREET	Service Station	Under assessment	-31.50179204	150.6814611
QUIRINDI	Caltex Service Station, Quirindi	199-201 George STREET	Service Station	Regulation under CLM Act not required	-31.5068778	150.6805874
RAMSGATE	Shell Coles Express Service Station	Grand Parade cnr Ramsgate ROAD	Service Station	Regulation under CLM Act not required	-33.98537988	151.1471234
RANDWICK	7-Eleven Service Station	126-130 Barker STREET	Service Station	Contamination currently regulated under CLM Act	-33.92096152	151.2355927
RANDWICK	Caltex Service Station	2 Alison ROAD	Service Station	Regulation under CLM Act not required	-33.9065752	151.2320697
RANDWICK	Metro Petroleum	345 Avoca STREET	Service Station	Regulation under CLM Act not required	-33.92544832	151.2396799
RANDWICK	Service Station, Randwick	33-37 Carrington ROAD	Service Station	Contamination currently regulated under CLM Act	-33.90655015	151.2525065
RAVENSWORTH	Ravensworth Operations Narama Mine	Lemington ROAD	Other Industry	Regulation under CLM Act not required	-32.47115903	151.0359579
RAVENSWORTH	Cumnock Colliery	Pikes Gully ROAD	Other Industry	Regulation under CLM Act not required	-32.40218281	150.9960082

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
RAYMOND TERRACE	Shell Coles Express Raymond Terrace	107 Adelaide (formerly Pacific Highway) STREET	Service Station	Regulation under CLM Act not required	-32.76110922	151.7492847
RAYMOND TERRACE	Caltex Service Station Raymond Terrace	136 Adelaide Street, corner Glenelg STREET	Service Station	Regulation under CLM Act not required	-32.76503842	151.7425264
RAYMOND TERRACE	Former Motor Registry	53 William STREET	Other Petroleum	Regulation under CLM Act not required	-32.76286473	151.7445839
RAYMOND TERRACE	Raymond Terrace Wastewater Treatment Works	22 Elizabeth AVENUE	Other Industry	Regulation under CLM Act not required	-32.774658	151.749978
REDFERN	BP Service Station	116 Regent STREET	Service Station	Regulation under CLM Act not required	-33.89367876	151.1995256
REDFERN	Former Printing Works	101a Marriott STREET	Other Industry	Regulation under CLM Act not required	-33.89512556	151.2113422
REDFERN	BP-branded Jasbe Surry Hills	411 Cleveland STREET	Service Station	Regulation under CLM Act not required	-33.89183974	151.2132466
REDFERN	Surry Hills Shopping Village	397-399 Cleveland & 2-38 Baptist STREET	Other Industry	Regulation under CLM Act not required	-33.89229521	151.2119397
REVESBY	Dorf Clark Industries	184-194 Milperra ROAD	Metal Industry	Regulation under CLM Act not required	-33.93387149	151.000553
REVESBY	Bituminous Products	33-35 Violet STREET	Chemical Industry	Contamination currently regulated under CLM Act	-33.93702092	151.0067896
REVESBY	Mirotone Pty Ltd	21 Marigold STREET	Chemical Industry	Contamination currently regulated under POEO Act	-33.93559608	151.0002207
REVESBY	Caltex Service Station Revesby	181 The River ROAD	Service Station	Regulation under CLM Act not required	-33.95573605	151.0171779
RHODES	Homebush Bay Sediments adjoining the former UCAL and Allied Feeds sites	Homebush BAY	Chemical Industry	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.8263749	151.0839216
RHODES	Former Glad factory site	10-16 Marquet STREET	Chemical Industry	Regulation under CLM Act not required	-33.82884048	151.0848716
RHODES	Former Allied Feeds site	Walker STREET	Other Industry	Contamination was addressed via the planning process (EP&A Act)	-33.82465376	151.0870401
RHODES	Former UCAL site	Walker STREET	Chemical Industry	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.82727505	151.0853195
RHODES	Homebush Bay sediments adjoining former Berger Paint factory	Oulton AVENUE	Chemical Industry	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.83535308	151.083238
RICHMOND	Caltex Richmond Service Station	98 March (Cnr East Market St) STREET	Service Station	Regulation under CLM Act not required	-33.59937996	150.7514483
RIVERSTONE	Axalta Coating Systems	15-23 Melbourne ROAD	Other Industry	Regulation under CLM Act not required	-33.6636649	150.8557519
RIVERSTONE	7-Eleven Riverstone	55 Garfield ROAD	Service Station	Regulation under CLM Act not required	-33.67802232	150.8635246
RIVERSTONE	Woolworths Vineyard Service Station, Riverstone	1 Woodland Street, corner of Windsor ROAD	Service Station	Regulation under CLM Act not required	-33.65607641	150.8724067
RIVERSTONE	Vacant Commercial Land	88-94 Junction ROAD	Unclassified	Regulation under CLM Act not required	-33.66226398	150.8789967
RIVERWOOD	7-Eleven Riverwood	30 Bonds ROAD	Service Station	Regulation under CLM Act not required	-33.9523701	151.0583887
ROCKDALE	7-Eleven (former Mobil) Service Station	293 West Botany STREET	Service Station	Regulation under CLM Act not required	-33.94995672	151.1484667
ROCKDALE	7-Eleven Service Station	99 Railway STREET	Service Station	Regulation under CLM Act not required	-33.95247322	151.1356785
ROCKDALE	Lindsay St, Rockdale	7 Lindsay STREET	Other Industry	Under assessment	-33.95900867	151.1436466
ROOTY HILL	7-Eleven (former Mobil) Service Station	106 Rooty Hill Road South ROAD	Service Station	Regulation under CLM Act not required	-33.78036181	150.8501998
ROOTY HILL	7-Eleven (former Mobil) Service Station	1042 Great Western HIGHWAY	Service Station	Regulation under CLM Act not required	-33.78214955	150.8287656
ROOTY HILL	Infrabuild NSW Pty Ltd (formerly OneSteel NSW Pty Ltd)	22 Kellogg ROAD	Other Industry	Under assessment	-33.76664143	150.8493465
ROSE BAY	Caltex Rose Bay Service Station	488 Old South Head ROAD	Service Station	Regulation under CLM Act not required	-33.87475145	151.2723847
ROSE BAY	Rose Bay Budget Service station	638 -646 New South Head ROAD	Service Station	Contamination currently regulated under CLM Act	-33.87062149	151.2677617
ROSEBERY	Autofoil P/L	2 Mentmore AVENUE	Other Industry	Regulation under CLM Act not required	-33.91121318	151.2054882
ROSEBERY	Caltex Rosebery Service Station	321 Gardeners (Cnr Macquarie St) ROAD	Service Station	Contamination currently regulated under CLM Act	-33.92302898	151.2059541
ROSEBERY	Former Industrial Site (Former Electroplating Facility)	108 Dunning AVENUE	Other Industry	Regulation under CLM Act not required	-33.91630811	151.201557
ROSEBERY	Rosebery Service Station	395 Gardeners ROAD	Service Station	Contamination formerly regulated under the CLM Act	-33.92246784	151.2024589
ROSEHILL	James Hardie Australia and former James Hardie lands	Devon STREET	Landfill	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.82539019	151.0339466
ROSEHILL	2 Ritchie Street, Rosehill	2 Ritchie STREET	Unclassified	Contamination formerly regulated under the CLM Act	-33.82691192	151.0154948

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
ROSEHILL	James Hardie Factory (former, western portion)	181 James Ruse DRIVE	Other Industry	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.81605834	151.0238145
ROSELANDS	Roselands Shopping Centre	24 Roseland AVENUE	Service Station	Regulation under CLM Act not required	-33.93499281	151.0691284
ROSELANDS	Woolworths Caltex Petrol Service Station Roselands	218 King Georges ROAD	Service Station	Regulation under CLM Act not required	-33.93303118	151.0735036
ROSELANDS	7-Eleven (former Mobil) Service Station	91 Canary's ROAD	Service Station	Regulation under CLM Act not required	-33.93356078	151.0736274
ROSEVILLE	Mobil Service Station	2 Boundary STREET	Service Station	Regulation under CLM Act not required	-33.78769177	151.1796011
ROSEVILLE CHASE	Coles Express Roseville Chase	388 Eastern Valley WAY	Service Station	Regulation under CLM Act not required	-33.78337722	151.1973901
ROZELLE	Caltex Service Station	121 Victoria ROAD	Service Station	Regulation under CLM Act not required	-33.86252996	151.168497
ROZELLE	7-Eleven (former Mobil) Service Station	178-180 (176-184) Victoria ROAD	Service Station	Regulation under CLM Act not required	-33.8630268	151.1680857
ROZELLE	Kennards Rozelle	15-39 Wellington STREET	Other Petroleum	Regulation under CLM Act not required	-33.86176757	151.1686519
ROZELLE	White Bay Power Station	Robert STREET	Other Industry	Regulation under CLM Act not required	-33.86674636	151.1772204
ROZELLE	BP Service Station	Corner Darling Street and Thornton STREET	Service Station	Regulation under CLM Act not required	-33.8591647	151.1716591
RUFUS RIVER	SA Water Depot - Rufus River	Old Wentworth STREET	Other Petroleum	Regulation under CLM Act not required	-34.04191512	141.2679475
RUSHCUTTERS BAY	d'Albora Marinas	1b New Beach ROAD	Other Industry	Contamination currently regulated under POEO Act	-33.87351297	151.2345082
RUTHERFORD	Rutherford Transpacific	11 Kyle STREET	Other Industry	Regulation under CLM Act not required	-32.71105203	151.500311
RUTHERFORD	Shell Coles Express Service Station Rutherford	118 New England HIGHWAY	Service Station	Regulation under CLM Act not required	-32.7208703	151.5394595
RUTHERFORD	Caltex Service Station	134-138 New England HIGHWAY	Service Station	Regulation under CLM Act not required	-32.7202589	151.5381526
RUTHERFORD	Transpacific Industrial Services/Nationwide Oil Pty Ltd	99 Kyle STREET	Chemical Industry	Regulation under CLM Act not required	-32.71262159	151.5013865
RYDALMERE	Caltex Service Station	309 Victoria ROAD	Service Station	Regulation under CLM Act not required	-33.81196193	151.0371185
RYDALMERE	Mitsubishi Electric	348 Victoria ROAD	Other Industry	Contamination currently regulated under CLM Act	-33.81040138	151.0392812
RYDALMERE	Rheem Australia	1 Alan STREET	Other Industry	Contamination formerly regulated under the CLM Act	-33.81545013	151.0295476
RYDALMERE	BP Service Station	265 Victoria ROAD	Service Station	Regulation under CLM Act not required	-33.8109483	151.0328101
RYDALMERE	Hunter Douglas	Victoria ROAD	Chemical Industry	Regulation under CLM Act not required	-33.81009112	151.0384732
RYDALMERE	United Petroleum (former 7-Eleven) Service Station Rydalmere	262-272 Victoria ROAD	Service Station	Regulation under CLM Act not required	-33.81006724	151.032377
RYDE	Shell Coles Express Ryde	45 Lane Cove ROAD	Service Station	Regulation under CLM Act not required	-33.80726028	151.109981
RYDE	Caltex Service Station	110 Lane Cove ROAD	Service Station	Regulation under CLM Act not required	-33.80142973	151.1137925
RYDE	7-Eleven (former Mobil) Service Station	326-328 Blaxland ROAD	Service Station	Regulation under CLM Act not required	-33.80242183	151.1004278
RYDE	Ryde Bus Depot	51 - 75 Buffalo ROAD	Other Petroleum	Regulation under CLM Act not required	-33.81679771	151.1225255
SANCTUARY POINT	United Service Station, Sanctuary Point	147 Larmer AVENUE	Service Station	Regulation under CLM Act not required	-35.09918861	150.6329537
SANDGATE	Caltex Service Station Sandgate	162 Maitland ROAD	Service Station	Regulation under CLM Act not required	-32.86501596	151.706161
SANDGATE	North Limited Storage Handling facility	Maitland ROAD	Other Industry	Contamination formerly regulated under the CLM Act	-32.86598453	151.7012866
SANS SOUCI	7-Eleven (Former Mobil) Service Station	474 Rocky Point ROAD	Service Station	Regulation under CLM Act not required	-33.99088939	151.1333779
SANS SOUCI	BP Sans Souci	520 Rocky Point ROAD	Service Station	Under assessment	-33.99246353	151.1323243
SANS SOUCI	Kendall Street Reserve	Lawson Street and Kendall STREET	Landfill	Under preliminary investigation order	-33.99966431	151.13005
SANS SOUCI	Former Service Station	542-544 Rocky Point ROAD	Service Station	Contamination was addressed via the planning process (EP&A Act)	-33.99376148	151.1316131
SANS SOUCI	Former 7-Eleven Ramsgate	368 Rocky Point ROAD	Service Station	Contamination formerly regulated under the CLM Act	-33.98615125	151.1359961
SCONE	Shell Coles Express Service Station	91- 93 Kelly STREET	Service Station	Contamination currently regulated under CLM Act	-32.04715941	150.8676346
SCONE	Scone Works Depot	220 Susan STREET	Other Petroleum	Regulation under CLM Act not required	-32.04444892	150.879152

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
SCONE	Mobil Scone Airport Elt	8 Walter Pye AVENUE	Other Petroleum	Regulation under CLM Act not required	-32.03596733	150.8323698
SCONE	BP - Former Depot	Scone St, Guernsey St & Susan STREET	Service Station	Contamination formerly regulated under the CLM Act	-32.04599284	150.8662046
SCONE	BP Scone	23 Kelly STREET	Service Station	Under assessment	-32.040304	150.864603
SEVEN HILLS	7-Eleven (Former Mobil) Service Station Seven Hills	151 Prospect HIGHWAY	Service Station	Regulation under CLM Act not required	-33.76894646	150.9427004
SEVEN HILLS	Australia Post	3 Powers ROAD	Unclassified	Regulation under CLM Act not required	-33.77434009	150.9395495
SEVEN HILLS	Car Park (Former Brickworks / Warehouse)	1 Powers ROAD	Other Industry	Regulation under CLM Act not required	-33.77387442	150.9379787
SEVEN HILLS	BP-branded Jasbe Petroleum Service Station	156 Prospect HIGHWAY	Service Station	Regulation under CLM Act not required	-33.76906502	150.9414821
SEVEN HILLS	Caltex Service Station	38 Abbott ROAD	Service Station	Regulation under CLM Act not required	-33.76692649	150.9548271
SEVEN HILLS	Caltex Service Station Seven Hills	105 Station ROAD	Service Station	Regulation under CLM Act not required	-33.77435881	150.9448733
SEVEN HILLS	Former Australian Waste Oil Refineries Site	27 Powers ROAD	Other Industry	Contamination formerly regulated under the CLM Act	-33.77536127	150.9511122
SHELLY BEACH	Former Shelly Beach Landfill	Oaks AVENUE	Landfill	Regulation under CLM Act not required	-33.36700551	151.4913631
SHORTLAND	Former Astra St landfill	2 (part) & 28 (part) Astra STREET	Landfill	Contamination currently regulated under CLM Act	-32.86716222	151.6966948
SHORTLAND	Tuxford Park landfill	10 King STREET	Landfill	Regulation under CLM Act not required	-32.87721139	151.6936837
SHORTLAND	Former Lorna St landfill	8/475 Sandgate ROAD	Landfill	Regulation under CLM Act not required	-32.87888726	151.7023245
SHORTLAND	7-Eleven (Former BP) Service Station	298-302 Sandgate ROAD	Service Station	Regulation under CLM Act not required	-32.8861645	151.6953912
SILVERWATER	Former Silverwater Landfill	Carnarvon ROAD	Landfill	Contamination currently regulated under CLM Act	-33.83506394	151.033214
SILVERWATER	Vacant property	103-105 Silverwater ROAD	Other Industry	Regulation under CLM Act not required	-33.83831374	151.0472576
SILVERWATER	Storage Facility	54-58 Derby STREET	Unclassified	Under assessment	-33.83855869	151.0478649
SILVERWATER	Former Printing Facility	46-58 Derby STREET	Unclassified	Under assessment	-33.83855869	151.0478649
SILVERWATER	Silverwater Correctional Complex	Holker STREET	Landfill	Regulation under CLM Act not required	-33.82944797	151.0567486
SINGLETON	BP Service Station Singleton	53 George (Cnr Macquarie St) STREET	Other Petroleum	Regulation under CLM Act not required	-32.56182325	151.1748054
SINGLETON	Singleton Gasworks	55-57 John STREET	Gasworks	Contamination formerly regulated under the CLM Act	-32.56774715	151.1658188
SINGLETON	Shell Coles Express Service Station	69-73 George STREET	Service Station	Regulation under CLM Act not required	-32.56297156	151.1755215
SINGLETON	Mobil Singleton Airport Elt	74B Range ROAD	Other Petroleum	Regulation under CLM Act not required	-32.60270846	151.1944828
SINGLETON	Putty Saw Mill	(via Singleton) Putty ROAD	Other Industry	Contamination currently regulated under CLM Act	-32.99958725	150.7111684
SINGLETON	NSW Mines Rescue Services - Singleton	6 Lachlan AVENUE	Other Industry	Regulation under CLM Act not required	-32.54537821	151.156584
SMITHFIELD	Caltex Smithfield	16-18 Tait STREET	Service Station	Regulation under CLM Act not required	-33.84596441	150.9435497
SMITHFIELD	Freestones	1 Hume ROAD	Other Petroleum	Regulation under CLM Act not required	-33.83577694	150.9310112
SMITHFIELD	Liquip International	13 Hume ROAD	Other Industry	Regulation under CLM Act not required	-33.83802635	150.9319034
SMITHFIELD	Coles Express (former Mobil) Service Station	678 The Horsley Drive, corner Smithfield ROAD	Service Station	Regulation under CLM Act not required	-33.85376154	150.9400104
SMITHFIELD	Former Landfill	Little STREET	Landfill	Contamination being managed via the planning process (EP&A Act)	-33.85025253	150.9411561
SOUTH ALBURY	BP Border Service Station	Corner Ebden Street and Wodonga PLACE	Service Station	Contamination currently regulated under CLM Act	-36.08875942	146.9093882
SOUTH BOWENFELS	Shell Coles Express Service Station	Lot 1 Great Western HIGHWAY	Service Station	Regulation under CLM Act not required	-33.50589001	150.1238487
SOUTH COOGEE	Caltex South Coogee Service Station	169-173 Malabar ROAD	Service Station	Regulation under CLM Act not required	-33.93233184	151.2574377
SOUTH GRAFTON	Shell Coles Express Service Station	91 Bent STREET	Service Station	Regulation under CLM Act not required	-29.70605829	152.9400329
SOUTH GRAFTON	Former United (former Mobil) Service Station	Corner Pacific Highway and Charles STREET	Service Station	Regulation under CLM Act not required	-29.70814828	152.9412928
SOUTH GRAFTON	Former Caltex Service Station	46-58 Schwinghammer STREET	Service Station	Regulation under CLM Act not required	-29.71149672	152.9453337

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
SOUTH GRAFTON	Former Caltex Depot South Grafton	72-82 Swallow ROAD	Other Petroleum	Regulation under CLM Act not required	-29.73168549	152.944024
SOUTH GRAFTON	Caltex Service Station	Pacific Hwy Cnr Gwyder HIGHWAY	Service Station	Regulation under CLM Act not required	-29.70739015	152.9425508
SOUTH GRANVILLE	Enhance Service Station south Granville	2 Rawson ROAD	Service Station	Regulation under CLM Act not required	-33.86366193	151.0088768
SOUTH KEMPSEY	Caltex Service Station	52 Lachlan STREET	Service Station	Regulation under CLM Act not required	-31.09361084	152.8370796
SOUTH LISMORE	North Coast Petroleum (Former Mobil) Depot Lismore	19-21 Elliot ROAD	Other Petroleum	Regulation under CLM Act not required	-28.81212046	153.2661935
SOUTH LISMORE	Former Mobil Service Station	126 - 128 Union STREET	Service Station	Regulation under CLM Act not required	-28.81242175	153.267541
SOUTH LISMORE	Caltex Service Station	237 Union STREET	Service Station	Regulation under CLM Act not required	-28.82052708	153.2648111
SOUTH LISMORE	Former Mobil Depot	26-32 Phyllis STREET	Other Petroleum	Regulation under CLM Act not required	-28.81005206	153.2660073
SOUTH MURWILLUMBAH	Former Caltex Depot	39 Lundberg DRIVE	Service Station	Regulation under CLM Act not required	-28.332622	153.4212884
SOUTH MURWILLUMBAH	Caltex Service Station	1-7 Buchanan (Cnr Tweed Valley Way) STREET	Service Station	Regulation under CLM Act not required	-28.32687988	153.4093274
SOUTH MURWILLUMBAH	Former Mobil Depot	45 Wardrop STREET	Other Petroleum	Regulation under CLM Act not required	-28.33421395	153.3993772
SOUTH NOWRA	Caltex South Nowra	100 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.90516081	150.6029621
SOUTH PENRITH	7-Eleven Service Station	45 Aspen STREET	Service Station	Regulation under CLM Act not required	-33.77727694	150.7107228
SOUTH TAMWORTH	Coles Express Tamworth	251 - 253 Goonoo Goonoo ROAD	Service Station	Contamination currently regulated under CLM Act	-31.1118945	150.9228523
SOUTH TAMWORTH	Caltex Service Station	2 Kathleen Street, corner Kent STREET	Service Station	Regulation under CLM Act not required	-31.10361712	150.9186343
SOUTH WENTWORTHVILLE	Aldi Stores Development	331-339 Great Western HIGHWAY	Metal Industry	Regulation under CLM Act not required	-33.81605854	150.9697429
SOUTH WENTWORTHVILLE	Caltex Service Station	313 Great Western HIGHWAY	Service Station	Regulation under CLM Act not required	-33.81643692	150.9718802
SOUTH WEST ROCKS	Former Trial Bay Caltex Depot	Phillip DRIVE	Other Petroleum	Regulation under CLM Act not required	-30.89190078	153.0573056
SOUTH WEST ROCKS	Former Shell Trial Bay Depot	Phillip DRIVE	Other Petroleum	Regulation under CLM Act not required	-30.89273836	153.0612772
SOUTH WEST ROCKS	Residential area and Reserve opposite Former Caltex terminal	Phillip DRIVE	Other Petroleum	Regulation under CLM Act not required	-30.89172594	153.0573164
SPRINGVALE	Springvale Colliery	Castlereagh HIGHWAY	Other Industry	Regulation under CLM Act not required	-33.40334736	150.1070462
ST CLAIR	7-Eleven (former Mobil) Service Station	4 Endeavour AVENUE	Service Station	Regulation under CLM Act not required	-33.79430926	150.7885793
ST IVES	7-Eleven (former Mobil) St Ives Service Station	157-159 Mona Vale Road, corner Putarri AVENUE	Service Station	Regulation under CLM Act not required	-33.73265301	151.1563899
ST IVES	Caltex Service Station	452 Mona Vale ROAD	Service Station	Regulation under CLM Act not required	-33.70752272	151.187545
ST IVES	Caltex Service Station	164 Mona Vale ROAD	Service Station	Regulation under CLM Act not required	-33.7307595	151.1570462
ST IVES	Caltex Service Station St Ives	363 Mona Vale ROAD	Service Station	Regulation under CLM Act not required	-33.7168971	151.1735263
ST IVES	Shell Service Station	179-181 Mona Vale ROAD	Service Station	Contamination formerly regulated under the CLM Act	-33.73124859	151.1575827
ST LEONARDS	Telstra Data Centre	4A Herbert STREET	Other Petroleum	Regulation under CLM Act not required	-33.81873741	151.1914222
ST MARYS	Former Woolworths Service Station	120-128 Forrester ROAD	Service Station	Regulation under CLM Act not required	-33.75525115	150.7752897
ST MARYS	7-Eleven (former Mobil) Service Station	2 Christie STREET	Service Station	Regulation under CLM Act not required	-33.74790843	150.7767667
ST MARYS	7-Eleven (former Mobil) Service Station	2 Wilson STREET	Service Station	Regulation under CLM Act not required	-33.77790415	150.771689
ST MARYS	Solveco	38 LINKS ROAD	Other Industry	Contamination currently regulated under CLM Act	-33.738673	150.771554
ST MARYS	Integral Energy Mt Druitt Transmission Substation	69 Kurrajong North ROAD	Other Industry	Regulation under CLM Act not required	-33.76376093	150.7921691
ST MARYS	Caltex St Marys Service Station	Wordoo St Cnr Forrester ROAD	Service Station	Regulation under CLM Act not required	-33.75334263	150.7755489
ST MARYS	Chemcolour Industries	19-25 Anne STREET	Chemical Industry	Regulation under CLM Act not required	-33.75027071	150.7725397
ST MARYS	Old Drycleaning location	1-7 Queen STREET	Other Industry	Under assessment	-33.73873	150.771747
ST PETERS	Cooks River Rail Terminal	20 Canal ROAD	Unclassified	Regulation under CLM Act not required	-33.91943986	151.1726689

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
ST PETERS	Camdenville Park	May STREET	Other Industry	Regulation under CLM Act not required	-33.90911815	151.176951
ST PETERS	Former Tidyburn Facility	53 Barwon Park ROAD	Chemical Industry	Contamination formerly regulated under the CLM Act	-33.9130091	151.1809912
ST PETERS	BP Express Service Station	2 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-33.90982281	151.1809936
ST PETERS	Former Industrial Manufacturing Facility (Taubman's Paints)	75 Mary STREET	Other Industry	Regulation under CLM Act not required	-33.91307297	151.1731383
STANMORE	125 Corunna Road	125 Corunna ROAD	Unclassified	Regulation under CLM Act not required	-33.88937382	151.1644589
STOCKTON	Former Coroba Landfill	310 Fullerton STREET	Landfill	Under assessment	-32.89807537	151.7896891
STRATHFIELD	7-Eleven (former Mobil) Service Station	577 Liverpool ROAD	Service Station	Regulation under CLM Act not required	-33.88736091	151.0743474
STRATHFIELD SOUTH	Former Landfill Site	7-9 Dunlop STREET	Landfill	Regulation under CLM Act not required	-33.89509698	151.0796751
STROUD	Stroud Fuel Supplies (Former Caltex) Service Station	1 Cowper STREET	Service Station	Regulation under CLM Act not required	-32.39092749	151.9563089
SUFFOLK PARK	BP Service Station	207-209 Broken Head ROAD	Service Station	Regulation under CLM Act not required	-28.68800088	153.6083821
SUFFOLK PARK	Suffolk Park dip site	Cnr Broken Head Road & Beech DRIVE	Cattle Dip	Regulation under CLM Act not required	-28.6874242	153.6072824
SURRY HILLS	Woolworths Petrol Surry Hills	475 Cleveland STREET	Service Station	Regulation under CLM Act not required	-33.89223271	151.2161434
SURRY HILLS	Former Legion Cabs (Trading) Cooperative	81 & 81A (Formerly 69 - 81) Foveaux STREET	Service Station	Regulation under CLM Act not required	-33.88470082	151.2107944
SURRY HILLS	Ausgrid Road Reserve	Mary STREET	Other Industry	Regulation under CLM Act not required	-33.88292195	151.2095176
SUTHERLAND	United Service Station and Sutherland Reservoir	1 to 3 Oxford STREET	Service Station	Contamination currently regulated under CLM Act	-34.029532	151.0579906
SUTHERLAND	7-Eleven Service Station	693 Old Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.02976735	151.0588789
SUTTON FOREST	Coles Express Sutton Forest West	Hume HIGHWAY	Service Station	Regulation under CLM Act not required	-34.60808989	150.2250592
SWANSEA	Caltex Service Station	126 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.08811841	151.6381764
SWANSEA	Swansea 1 - Wastewater Pumping Station	137 and 137a Northcote AVENUE	Other Industry	Under assessment	-33.09745672	151.6473257
SYDENHAM	SRA Land	117 Railway PARADE	Other Industry	Regulation under CLM Act not required	-33.91560723	151.1656846
SYDENHAM	Sydenham XPT Maintenance Facility	Way STREET	Other Industry	Regulation under CLM Act not required	-33.91698468	151.1614089
SYDNEY	Interpro House (OSP 46581)	447 Kent STREET	Other Petroleum	Regulation under CLM Act not required	-33.87225413	151.204761
SYDNEY	Eurostar Dry Cleaners	100 Oxford STREET	Chemical Industry	Regulation under CLM Act not required	-33.879333	151.215668
SYDNEY OLYMPIC PARK	RMS Western Precinct	14A-14E and 16 Hill ROAD	Other Petroleum	Regulation under CLM Act not required	-33.82239777	151.0758664
SYDNEY OLYMPIC PARK	Haslams Creek South Area 3	At Kronos Hill, Kevin Coombes AVENUE	Landfill	Contamination formerly regulated under the CLM Act	-33.84113059	151.0602966
SYDNEY OLYMPIC PARK	Bicentennial Park	Bicentennial DRIVE	Landfill	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.84456248	151.0788116
SYDNEY OLYMPIC PARK	Former Golf Driving Range Landfill	Sarah Durack AVENUE	Landfill	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.85358517	151.0713987
SYDNEY OLYMPIC PARK	Kronos Hill Landfill	Kevin Coombes AVENUE	Landfill	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.84014442	151.0649521
SYDNEY OLYMPIC PARK	Wilson Park (Former oil gas plant site)	Newington ROAD	Gasworks	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.82633586	151.0534322
SYDNEY OLYMPIC PARK	Woo-la-ra Landfill	Hill ROAD	Landfill	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.82695807	151.07282
SYDNEY OLYMPIC PARK	Aquatic Centre Carpark Landfill	Shane Gould AVENUE	Landfill	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.85093439	151.0656713
SYDNEY OLYMPIC PARK	Blaxland Common Landfill	Jamieson STREET	Landfill	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.82638382	151.05972
SYLVANIA	Caltex Service Station - Sylvania Heights	414-416 Princes HIGHWAY	Service Station	Contamination currently regulated under CLM Act	-34.02361051	151.0895394
SYLVANIA	Caltex Service Station	61 Port Hacking ROAD	Service Station	Regulation under CLM Act not required	-34.0140089	151.104212
TALBINGO	Old Town Landfill	Bridle STREET	Landfill	Regulation under CLM Act not required	-35.59018237	148.3041771
TALBINGO	T3 Spoil dump and adjoining river sediments	Off Snowy Mountains HIGHWAY	Landfill	Contamination formerly regulated under the CLM Act	-35.6177268	148.2926158
TALBINGO	Former grit blasting site	Old Damsite ROAD	Other Industry	Regulation under CLM Act not required	-35.60894551	148.3030165

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
TAMINDA	Mobil Depot	9 Hinkler ROAD	Other Petroleum	Regulation under CLM Act not required	-31.09584286	150.9040493
TAMWORTH	Caltex Tamworth Service Station	109 Gunnedah ROAD	Service Station	Regulation under CLM Act not required	-31.09723226	150.8955299
TAMWORTH	Curlew Crescent	19-29 Curlew CRESCENT	Metal Industry	Regulation under CLM Act not required	-31.06963607	150.9069306
TAMWORTH	Former Service Station, Fitzpatrick Super Fund, Tamworth	210 Goonoo Goonoo ROAD	Service Station	Regulation under CLM Act not required	-31.10613594	150.9234143
TAMWORTH	Gunnedah Road Site	49 GUNNEDAH ROAD	Other Industry	Contamination formerly regulated under the CLM Act	-31.09574904	150.9021583
TAMWORTH	Elovera Former Sheep Dip	730 Ascot Calala ROAD	Cattle Dip	Regulation under CLM Act not required	-31.1801846	150.962897
TAMWORTH	Housing NSW	29 -33 White STREET	Other Petroleum	Regulation under CLM Act not required	-31.0915651	150.9357811
TAMWORTH	BP Tamworth Service Station and Depot	27-29 Gunnedah ROAD	Other Petroleum	Under assessment	-31.09642128	150.9058193
TAMWORTH	Former Mobil Service Station	373-375 Armidale ROAD	Service Station	Regulation under CLM Act not required	-31.10122679	150.9441341
TAMWORTH	Kensell's Mitsubishi	11-14 Kable AVENUE	Other Petroleum	Regulation under CLM Act not required	-31.08921565	150.9273063
TAMWORTH	Caltex Star Tamworth	21 White STREET	Service Station	Regulation under CLM Act not required	-31.09255137	150.9341709
TAMWORTH	Former Service Station Tamworth	(Cnr Scott Rd) 254-256 Goonoo Goonoo ROAD	Service Station	Regulation under CLM Act not required	-31.1118945	150.9228523
TAMWORTH	Cleanaway Operations Pty Ltd	31 Gunnedah ROAD	Other Industry	Under assessment	-31.09621029	150.9051567
TAMWORTH	Elgas Depot (former gasworks)	115 Marius STREET	Gasworks	Under assessment	-31.085682	150.926088
TAMWORTH	Proposed ALDI Store Tamworth	194-196 Peel STREET	Other Industry	Under assessment	-31.08522053	150.9260054
TARAGO	Tarago Railway Siding	Goulburn STREET	Other Industry	Under assessment	-35.06584801	149.6507827
TARCUTTA	Mobil Service Station	(Hume Highway) 32 Sydney STREET	Service Station	Contamination formerly regulated under the CLM Act	-35.2772942	147.73574
TAREE	Caltex Taree	12 Pitt STREET	Service Station	Regulation under CLM Act not required	-31.90551738	152.4783334
TAREE	Former Caltex Depot	44 Stevenson STREET	Other Petroleum	Regulation under CLM Act not required	-31.90563595	152.4640848
TAREE	Former BP Service Station (Reliance Petroleum)	150 Manning River DRIVE	Service Station	Regulation under CLM Act not required	-31.93842026	152.4682056
TAREE	Former Shell Depot	53-55 Stevenson STREET	Other Petroleum	Regulation under CLM Act not required	-31.90514622	152.4649706
TAREE	United Service Station and Former Mobil Depot	85 Muldoon Street, corner Grey Gum ROAD	Service Station	Regulation under CLM Act not required	-31.89744109	152.4508569
TAREE	Caltex Service Station	104-106 Commerce STREET	Service Station	Regulation under CLM Act not required	-31.90720519	152.4500926
TAREE	Footpath in front of the former BP service station	53-55 Victoria STREET	Service Station	Regulation under CLM Act not required	-31.91015653	152.4659073
TAREN POINT	Former Oyster Farm	Part 2R Alexander Avenue and part 98 Woodlands ROAD	Other Industry	Contamination was addressed via the planning process (EP&A Act)	-34.01714802	151.1252694
TAREN POINT	Former Oyster Farmer	1A Atkinson ROAD	Other Industry	Regulation under CLM Act not required	-34.02081803	151.1283282
TAREN POINT	Former manufacturing site	46-50 Bay ROAD	Other Industry	Regulation under CLM Act not required	-34.0236184	151.1231649
TAREN POINT	Mangrove Lane Cycle pathway	Mangrove LANE	Unclassified	Regulation under CLM Act not required	-34.02404025	151.1324783
TAREN POINT	Caltex Service Station	114 Taren Point ROAD	Service Station	Regulation under CLM Act not required	-34.02065958	151.1218938
TAREN POINT	Shell Coles Express Service Station	99-103 Parraweena ROAD	Service Station	Regulation under CLM Act not required	-34.02630233	151.1200897
TAREN POINT	Redevelopment Site	25 Bay ROAD	Landfill	Under assessment	-34.02119591	151.1274727
TELARAH	Former Ausgrid Depot	Green STREET	Other Industry	Regulation under CLM Act not required	-32.7276446	151.5269745
TELARAH	ACIRL	5 Junction STREET	Other Industry	Regulation under CLM Act not required	-32.73457183	151.5400128
TEMORA	Woolworths Caltex Temora	98-100 Hoskins STREET	Service Station	Regulation under CLM Act not required	-34.44324584	147.5318667
TEMPE	Tempe Depot	1a Gannon STREET	Other Petroleum	Regulation under CLM Act not required	-33.92408255	151.1596469
TEMPE	Caltex Service Station	775 Princes HIGHWAY	Service Station	Contamination currently regulated under CLM Act	-33.9253681	151.1596532
TEMPE	Former Tempe Tip	South STREET	Landfill	Contamination currently regulated under CLM Act	-33.9255792	151.1668117

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
TEMPE	Railcorp Site Renwick Street	Renwick STREET	Other Industry	Regulation under CLM Act not required	-33.91997709	151.1576058
TERALBA	Lake Macquarie Teralba Sanitary Depot	Griffen ROAD	Landfill	Regulation under CLM Act not required	-32.9372059	151.6214528
TERALBA	Lucky's Scrap Metal Yard	21 Racecourse ROAD	Metal Industry	Contamination currently regulated under CLM Act	-32.946805	151.61698
TERANIA CREEK	Former Izzards Cattle Tick Dip	Wallace ROAD	Cattle Dip	Contamination formerly regulated under the CLM Act	-28.65425776	153.2767438
THIRLMERE	Thirlmere Rail Heritage Museum	10 Barbour ROAD	Other Industry	Regulation under CLM Act not required	-34.20689245	150.5693902
THORNLEIGH	Caltex Thornleigh Service Station	192-198 Pennant Hills (Cnr Duffy Ave) ROAD	Service Station	Regulation under CLM Act not required	-33.72660793	151.08364
THORNLEIGH	Coles Express Service Station Thornleigh	188 - 190 Pennant Hills ROAD	Service Station	Regulation under CLM Act not required	-33.72502184	151.0850569
THORNTON	Energy Australia Thornton Pole Yard	55 Weakleys DRIVE	Other Industry	Regulation under CLM Act not required	-32.79973875	151.6374998
TIGHES HILL	Holcim Australia Cement Batching Plant	340 Industrial DRIVE	Other Industry	Regulation under CLM Act not required	-32.90532418	151.7574857
TIGHES HILL	SRA Land	73 Elizabeth STREET	Unclassified	Regulation under CLM Act not required	-32.90795794	151.754631
TIGHES HILL	Former Ampol Depot	94 Elizabeth STREET	Other Petroleum	Regulation under CLM Act not required	-32.90658137	151.757239
TIGHES HILL	Former Mobil Terminal	110 Elizabeth STREET	Other Petroleum	Contamination formerly regulated under the CLM Act	-32.90600406	151.7586907
TOCUMWAL	Former Mobil Depot	250 Murray STREET	Other Petroleum	Regulation under CLM Act not required	-35.79180653	145.5648214
TOCUMWAL	Former Mobil Depot	79-83 Deniliquin ROAD	Other Petroleum	Regulation under CLM Act not required	-35.80914914	145.5585528
TOMAGO	Balcombe Sweat Furnace	26 Laverick AVENUE	Metal Industry	Regulation under CLM Act not required	-32.82557395	151.7056416
TOMAGO	Former Hydromet Site	25 School DRIVE	Metal Industry	Under assessment	-32.8301553	151.7300603
TOMAGO	RZM Site - Tomago	1877 Pacific HIGHWAY	Other Industry	Regulation under CLM Act not required	-32.81419433	151.6985159
TOMERONG	Log Cabin Service Station (United Petroleum)	D1300 Princes HIGHWAY	Service Station	Under assessment	-35.01820959	150.5779687
TOONGABBIE	7-Eleven (Former Mobil) Service Station Toongabbie	3 Metella ROAD	Service Station	Regulation under CLM Act not required	-33.78692357	150.9462837
TOORMINA	Caltex Service Station	2 Minorca PLACE	Service Station	Regulation under CLM Act not required	-30.35229568	153.0906606
TORONTO	Coles XP (Former Mobil) Toronto Service Station	133 - 137 Cary (Cnr Thorne St) STREET	Service Station	Regulation under CLM Act not required	-33.01187681	151.5930879
TORONTO	BP Toronto Service Station	132 Cary (Cnr Donnelly Ave) STREET	Service Station	Regulation under CLM Act not required	-33.01144673	151.5937863
TORONTO	Toronto Hotel	74 Victory PARADE	Unclassified	Regulation under CLM Act not required	-33.01214835	151.5958127
TORONTO	Caltex Service Station	147 Cary STREET	Service Station	Regulation under CLM Act not required	-33.01288007	151.5928388
TOUKLEY	Former Shell Toukley Autoport	211 Main ROAD	Service Station	Regulation under CLM Act not required	-33.26383791	151.5386268
TOUKLEY	7-Eleven Australia	287 Main ROAD	Service Station	Regulation under CLM Act not required	-33.26469166	151.5462414
TRANGIE	Caltex Service Station	(Mitchell Hwy) 76 Narromine STREET	Service Station	Regulation under CLM Act not required	-32.03234676	147.985164
TUGGERAH	BP Tuggerah	100 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.30578167	151.4198083
TUMBARUMBA	Former Caltex Depot	150 Albury STREET	Other Petroleum	Regulation under CLM Act not required	-35.77024081	147.9927182
TUMBI UMBI	Former Tumbi Landfill	140 Bellevue ROAD	Landfill	Regulation under CLM Act not required	-33.3993472	151.456471
TUMUT	CSR Blue Dam	Jepsen AVENUE	Other Industry	Regulation being finalised	-35.30098337	148.1958308
TUMUT	CSR Railway cutting	Jepsen AVENUE	Unclassified	Regulation being finalised	-35.30422002	148.1942579
TUMUT	Former Telstra Depot	22-26 Carey STREET	Other Industry	Regulation under CLM Act not required	-35.29873079	148.2191122
TUROSS HEAD	Tern Inn Restaurant (abandoned UPSS)	2 Trafalgar ROAD	Service Station	Regulation under CLM Act not required	-36.05871059	150.1308443
TURRAMURRA	7-Eleven (former Mobil) Service Station Turramurra	1408 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.73326389	151.1264194
TURRAMURRA	Woolworths Service Station	1233 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.73317594	151.1313195
TURRELLA	Tulloch Australia Pty Limited	61 Turrella STREET	Chemical Industry	Contamination currently regulated under CLM Act	-33.92857213	151.1475387

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
TWEED HEADS	Former Mobil Quix Service Station	60 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-28.20143775	153.5445381
TWEED HEADS	Francis Street Road Reserve adjacent to 79-81 Wharf Street, Tweed Heads	79-81 Wharf STREET	Other Petroleum	Regulation under CLM Act not required	-28.17351959	153.542262
TWEED HEADS SOUTH	Former BP Depot	142 Minjungbal DRIVE	Other Petroleum	Regulation under CLM Act not required	-28.20860702	153.5455932
TWEED HEADS SOUTH	Coles Express Service Station	Corner Minjungbal Drive and Heffron STREET	Service Station	Regulation under CLM Act not required	-28.19459987	153.5419978
TWEED HEADS SOUTH	Woolworths Plus Petrol	98-102 Pacific (100 Minjungbal Drive) HIGHWAY	Service Station	Regulation under CLM Act not required	-28.20488521	153.5448675
TWEED HEADS WEST	Caltex Service Station	96 to 98 Kennedy DRIVE	Service Station	Regulation being finalised	-28.1871486	153.5229866
TYAGARAH	Tyagarah Airstrip	25 Staceys WAY	Other Petroleum	Regulation under CLM Act not required	-28.59553079	153.5469165
ULAN	Ulan Coal Mine	4505 Ulan ROAD	Other Industry	Regulation under CLM Act not required	-32.25620603	149.7558075
ULLADULLA	Coles Express Ulladulla	153 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-35.36288274	150.47272
ULLADULLA	Woolworths Petrol Station	155-157 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-35.36316263	150.4725668
ULLADULLA	Caltex Service Station	62A Deering Street, corner Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-35.36276828	150.473578
ULTIMO	Shell Coles Express Service Station	387-429 Wattle STREET	Service Station	Regulation under CLM Act not required	-33.88138825	151.1966791
UNANDERRA	Endeavour Energy Springhill Field Service Centre	195 Five Island ROAD	Other Industry	Regulation under CLM Act not required	-34.45837706	150.8598825
UNANDERRA	BlueScope Stainless Steel	13 Marley PLACE	Metal Industry	Contamination currently regulated under CLM Act	-34.44959798	150.8571632
UNANDERRA	Unanderra Weekend Detention Centre	34-40 Lady Penryhn DRIVE	Landfill	Regulation under CLM Act not required	-34.4620226	150.8473821
UNANDERRA	Veolia Environmental Services	9 Waynote PLACE	Other Industry	Regulation under CLM Act not required	-34.46042393	150.863232
UNANDERRA	Caltex Service Station	86-98 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-34.45414951	150.845165
UNANDERRA	Former Prime Service Station and adjoining lands	41-49 Princes HIGHWAY	Service Station	Contamination formerly regulated under the CLM Act	-34.45056105	150.8490833
URALLA	Caltex Service Station	103 Bridge STREET	Service Station	Regulation under CLM Act not required	-30.64524911	151.4934484
URALLA	Phoenix Foundry	44 Duke STREET	Metal Industry	Regulation under CLM Act not required	-30.65093272	151.5004479
URANQUINTY	Former Caltex Depot Kapooka (Wagga Wagga)	6876 Olympic (Uranquinty Rd) HIGHWAY	Service Station	Regulation under CLM Act not required	-35.15319793	147.3085469
URUNGA	Former Antimony Process plant	Hillside DRIVE	Chemical Industry	Contamination currently regulated under CLM Act	-30.50422942	153.0132011
VALENTINE	BP Express Service Station	855 Macquarie DRIVE	Service Station	Regulation under CLM Act not required	-33.00801109	151.6425806
VALENTINE	Valentine Public School	Tallawalla ROAD	Unclassified	Regulation under CLM Act not required	-33.0091613	151.6423231
VILLAWOOD	Nepotian (Former Toll) Site	110A Christina ROAD	Other Industry	Under preliminary investigation order	-33.87919117	150.9812193
VILLAWOOD	Former Defence Site	29 Biloela STREET	Landfill	Regulation under CLM Act not required	-33.88782978	150.9886275
VILLAWOOD	Former Siemens/Westinghouse	49 Miowera ROAD	Other Industry	Contamination formerly regulated under the CLM Act	-33.87641909	150.9836746
VILLAWOOD	Former Orica Crop Care	2 Christina ROAD	Chemical Industry	Contamination currently regulated under CLM Act	-33.880329	150.9896329
VILLAWOOD	PPG Industries	9 Birmingham AVENUE	Chemical Industry	Regulation under CLM Act not required	-33.87800757	150.9887929
VILLAWOOD	Former Electrical Component Manufacturer	66 Christina ROAD	Other Industry	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.88018315	150.9838773
VILLAWOOD	Ettason Villawood Site	2A Birmingham AVENUE	Chemical Industry	Under preliminary investigation order	-33.878734	150.98259
VINEYARD	Shell Coles Express Service Station	731 Windsor ROAD	Service Station	Regulation under CLM Act not required	-33.65780463	150.8753245
WAGGA WAGGA	Caltex Service Station	170 Fitzmaurice STREET	Service Station	Regulation under CLM Act not required	-35.10289587	147.3679002
WAGGA WAGGA	Former BP Service Station	31 Bourke STREET	Service Station	Regulation under CLM Act not required	-35.12626628	147.3547199
WAGGA WAGGA	Caltex (former Mobil) Service Station	106 Edward STREET	Service Station	Regulation under CLM Act not required	-35.11910909	147.3682364
WAGGA WAGGA	Former Caltex Depot	60 Lake Albert DRIVE	Service Station	Regulation under CLM Act not required	-35.12316794	147.37724
WAGGA WAGGA	Former Mobil Depot Wagga Wagga	97-99 Coleman STREET	Other Petroleum	Regulation under CLM Act not required	-35.12173871	147.3576651

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
WAGGA WAGGA	Ashmont Autoport	Cnr Tobruk Street and Bardia STREET	Service Station	Regulation under CLM Act not required	-35.12517373	147.329919
WAGGA WAGGA	Former Caltex Service Station	343 Hammond AVENUE	Service Station	Regulation under CLM Act not required	-35.12420793	147.4157959
WAGGA WAGGA	Caltex Service Station	56 - 60 Docker St STREET	Service Station	Regulation under CLM Act not required	-35.11737947	147.3558145
WAGGA WAGGA	Former Iron Foundry	212-230 Hammond STREET	Metal Industry	Regulation under CLM Act not required	-35.12605478	147.4045461
WAGGA WAGGA	Coles Express Wagga Wagga	353-355 Edward STREET	Service Station	Regulation under CLM Act not required	-35.11606625	147.3509339
WAGGA WAGGA	Former Wiradjuri landfill	Narrung STREET	Landfill	Under assessment	-35.09628532	147.3619535
WAGGA WAGGA	Former Gasworks	54 Chaston STREET	Gasworks	Contamination currently regulated under CLM Act	-35.12262069	147.3482778
WAGGA WAGGA	Former Gasworks	Cnr Tarcutta Street and Cross STREET	Gasworks	Contamination currently regulated under CLM Act	-35.10871183	147.3737933
WAGGA WAGGA	BP Wagga Wagga	180 Edward STREET	Service Station	Regulation under CLM Act not required	-35.11850802	147.3639619
WAGGA WAGGA	Former Dry Cleaning Facility	183 Fitzmaurice STREET	Other Industry	Contamination currently regulated under CLM Act	-35.10209987	147.3683852
WAHROONGA	Coles Express Wahroonga	1601 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.71945571	151.1163002
WAHROONGA	7-Eleven Service Station	1579 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.71974617	151.1168106
WAITARA	Caltex Service Station	59-61 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.71064349	151.1024644
WALGETT	Former Shell Depot	Castlereagh HIGHWAY	Other Petroleum	Regulation under CLM Act not required	-30.00861179	148.1239938
WALLERAWANG	Wallerawang Power Station	1 Main STREET	Other Petroleum	Regulation under CLM Act not required	-33.40339296	150.0855101
WALLERAWANG	Lidsdale Coal Loading Facility	Main STREET	Other Industry	Regulation under CLM Act not required	-33.39996523	150.0737717
WALLSEND	Caltex Maryland Service Station Wallsend	41 Minmi ROAD	Service Station	Regulation under CLM Act not required	-32.88967866	151.6619253
WALLSEND	Coles Express Wallsend East	15 Thomas STREET	Service Station	Regulation under CLM Act not required	-32.90719444	151.6693426
WALLSEND	OneSteel Recycling	64-80 Sandgate ROAD	Metal Industry	Regulation under CLM Act not required	-32.89425477	151.6799648
WALLSEND	Ausgrid Wallsend Depot	Abbott STREET	Other Industry	Regulation under CLM Act not required	-32.90162796	151.6857267
WALLSEND	Cnr of Douglas Street and 111 Newcastle Road Wallsend	111 Newcastle ROAD	Metal Industry	Regulation under CLM Act not required	-32.90414175	151.6830784
WAMBERAL	Caltex Service Station	654 The Entrance ROAD	Service Station	Regulation under CLM Act not required	-33.42338668	151.4375685
WANGI WANGI	Myuna Colliery	Wangi Point ROAD	Other Industry	Regulation under CLM Act not required	-33.06139532	151.5697186
WARATAH	Waratah Area Health	Turton ROAD	Unclassified	Regulation under CLM Act not required	-32.90961233	151.7260867
WARATAH	Waratah former Gasworks	Turton and Georgetown ROADS	Gasworks	Regulation being finalised	-32.9057763	151.7270033
WARDELL	Nancy's Cattle Dip, Thurgates Lane, Wardell	Thurgates LANE	Cattle Dip	Regulation under CLM Act not required	-28.954176	153.427349
WARILLA	Woolworths Petrol Warilla	43 -57 Shellharbour ROAD	Service Station	Regulation under CLM Act not required	-34.5470966	150.863748
WARKWORTH	Emulsion Plant, Dyno Nobel Asia Pacific Pty Ltd	186 Long Point ROAD	Chemical Industry	Regulation under CLM Act not required	-32.5781708	151.0834387
WARKWORTH	United Colliery	Jerrys Plains ROAD	Other Industry	Regulation under CLM Act not required	-32.5654356	150.9916698
WARNERS BAY	Caltex Service Station	55 King STREET	Service Station	Regulation under CLM Act not required	-32.97418806	151.6476184
WARNERS BAY	7-Eleven (former Mobil) Service Station	393 Hillsborough ROAD	Service Station	Regulation under CLM Act not required	-32.9659363	151.6543264
WARNERS BAY	Historically Filled Land	41-43 Charles STREET	Unclassified	Regulation under CLM Act not required	-32.97340461	151.6464383
WARNERVALE	Former Timber Treatment Plant	Aldenham and Railway ROADS	Other Industry	Contamination formerly regulated under the CLM Act	-33.24732018	151.4469037
WARRAGAMBA	Warragamba Dam Viewing Platform	Eighteenth STREET	Unclassified	Regulation under CLM Act not required	-33.88546354	150.6024501
WARRAGAMBA	Megarrity's Creek Site	Weir ROAD	Unclassified	Regulation under CLM Act not required	-33.885049	150.597628
WARRAWONG	Caltex Service Station	75-77 King STREET	Service Station	Regulation under CLM Act not required	-34.49037817	150.888802
WARREN	Former Shell Depot	8 Dubbo STREET	Other Petroleum	Regulation under CLM Act not required	-31.69379262	147.8308088

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
WARREN	Caltex Warren Service Station	1 Coonamble ROAD	Service Station	Regulation under CLM Act not required	-31.69508383	147.8405578
WARREN	Former Mobil Warren Depot	16 Dubbo STREET	Other Petroleum	Contamination currently regulated under CLM Act	-31.6943058	147.8314606
WARWICK FARM	Warwick Farm Public School	95 Lawrence Hargrave ROAD	Landfill	Regulation under CLM Act not required	-33.91050532	150.9302197
WATERLOO	Proposed Construction Site	2 John STREET	Other Industry	Regulation under CLM Act not required	-33.89989686	151.2010324
WATERLOO	Waverley Woollahra Process Plant	355 Botany ROAD	Other Industry	Regulation under CLM Act not required	-33.9063092	151.2042672
WATERLOO	Shell Coles Express Service Station	867-877 South Dowling STREET	Service Station	Regulation under CLM Act not required	-33.90179774	151.2143789
WATERLOO	Lawrence Dry Cleaners	887-893 Bourke STREET	Unclassified	Contamination currently regulated under CLM Act	-33.89897433	151.2101436
WATERLOO	Divercity Waterloo Blocks C & D and adjacent plaza / park	1, 9, 13, 13A, 13B and 23 Archibald Avenue, 20 Dunkerley Place and 850 Bourke STREET	Other Industry	Regulation under CLM Act not required	-33.90200158	151.2098496
WATERLOO	Iconic (Former Chubb Factory) Waterloo	830-838 Elizabeth STREET	Other Industry	Regulation under CLM Act not required	-33.90227718	151.2060305
WATERLOO	22-24 Archibald Avenue	22-24 Archibald AVENUE	Other Petroleum	Regulation under CLM Act not required	-33.90263766	151.2132105
WAUCHOPE	Expressway Spares UST	3 Sancrox ROAD	Other Petroleum	Regulation under CLM Act not required	-31.44163879	152.8231104
WAUCHOPE	Former Shell Depot	56-64 High STREET	Other Petroleum	Regulation under CLM Act not required	-31.45804845	152.7314151
WAUCHOPE	Wauchope Service Station	57 High STREET	Service Station	Regulation under CLM Act not required	-31.45737022	152.7305018
WAUCHOPE	Former Timber Treatment Site	Blackbutt DRIVE	Other Industry	Regulation under CLM Act not required	-31.46575645	152.7228555
WAUCHOPE	Shell Coles Express Service Station	64 High STREET	Service Station	Regulation under CLM Act not required	-31.45764495	152.7315975
WAUCHOPE	Wauchope Public Primary School	2 Waugh STREET	Unclassified	Regulation under CLM Act not required	-31.4556387	152.7295455
WAVERTON	SRA Land	95 Bay ROAD	Unclassified	Contamination formerly regulated under the CLM Act	-33.83716728	151.1969497
WAVERTON	Berry's Bay Woodley's Marina	1 Balls Head DRIVE	Other Industry	Contamination formerly regulated under the POEO Act	-33.84441851	151.1947433
WAVERTON	Oyster Cove AGL	2 King STREET	Gasworks	Ongoing maintenance required to manage residual contamination (CLM Act)	-33.83637995	151.193541
WEE JASPER	Wee Jasper Tavern	6499 Wee Jasper ROAD	Other Industry	Regulation under CLM Act not required	-35.110374	148.679405
WELLINGTON	Former Caltex Service Station	124-128 Lee STREET	Service Station	Regulation under CLM Act not required	-32.55082729	148.9411537
WELLINGTON	BP Wellington Service Station	35A Maxwell STREET	Service Station	Under assessment	-32.55835121	148.9447284
WELLINGTON	Woolworths Petrol Wellington	79 Lee STREET	Service Station	Regulation under CLM Act not required	-32.54874227	148.9408531
WENTWORTH	Caltex - Wentworth	110 Adams STREET	Service Station	Regulation under CLM Act not required	-34.1024927	141.9160539
WENTWORTH FALLS	Bodington Hospital	Bodington DRIVE	Unclassified	Contamination formerly regulated under the CLM Act	-33.73201608	150.3874102
WENTWORTH POINT	RMS Eastern Precinct	3-7 Burroway ROAD	Other Petroleum	Regulation under CLM Act not required	-33.8233882	151.0815668
WENTWORTH POINT	Former TNT Express	23 Bennelong PARKWAY	Other Petroleum	Regulation under CLM Act not required	-33.83115118	151.0726636
WENTWORTHVILLE	Former Workshop	2 Rawson Rd and 8 Barfil CRESCENT	Unclassified	Regulation under CLM Act not required	-33.81568808	150.9671853
WERRINGTON	Caltex Service Station	Cnr Dunheved Rd and Henry Lawson DRIVE	Service Station	Regulation under CLM Act not required	-33.74577725	150.7409877
WERRINGTON	Claremont Meadows Former landfill	Gipps STREET	Landfill	Regulation under CLM Act not required	-33.77341076	150.7557628
WERRINGTON COUNTY	7-Eleven Werrington	Lot 122 Dunheved ROAD	Service Station	Regulation under CLM Act not required	-33.74699408	150.7428609
WEST BALLINA	Caltex Big Prawn Service Station	Pacific HIGHWAY	Service Station	Contamination formerly regulated under the CLM Act	-28.86374913	153.5321482
WEST GOSFORD	Caltex Service Station	283 Manns ROAD	Service Station	Regulation under CLM Act not required	-33.41659727	151.325219
WEST GOSFORD	Caltex Service Station	69-71 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.42729985	151.3214621
WEST GOSFORD	Caltex Service Station	30a Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.42778813	151.3190581
WEST GOSFORD	Adcock Memorial Park	Central Coast HIGHWAY	Landfill	Under assessment	-33.42963075	151.3273331
WEST NOWRA	Endeavour Energy Nowra Field Service Centre	20 Depot ROAD	Other Industry	Regulation under CLM Act not required	-34.88993085	150.5878854

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
WEST PENNANT HILLS	7-Eleven (former Mobil) Service Station	552 Pennant Hills ROAD	Service Station	Regulation under CLM Act not required	-33.74686545	151.0508067
WEST RYDE	7-Eleven (former Mobil) Service Station	917 Victoria ROAD	Service Station	Regulation under CLM Act not required	-33.80921103	151.0932917
WEST RYDE	Pfizer Australia Pty Ltd	38-42 Wharf ROAD	Chemical Industry	Regulation under CLM Act not required	-33.81021085	151.0693631
WEST RYDE	Reckitt Benckiser	44 Wharf ROAD	Chemical Industry	Regulation under CLM Act not required	-33.81172205	151.0692752
WEST RYDE	JHM Property Development	2A Mellor STREET	Other Industry	Regulation under CLM Act not required	-33.81207534	151.094598
WEST TAMWORTH	Woolworths Petrol	119 Bridge STREET	Service Station	Regulation under CLM Act not required	-31.09358262	150.9167693
WEST WYALONG	Lowes Petroleum (Former BP) Depot West Wyalong	Compton (formerly known as Town Bypass/Railway Road) ROAD	Other Petroleum	Regulation under CLM Act not required	-33.93440247	147.2154596
WEST WYALONG	Caltex Depot	(Wyalong By-pass Rd) Lot 1-3 Showground ROAD	Service Station	Regulation under CLM Act not required	-33.92580863	147.1978504
WEST WYALONG	Former Mobil Depot	104 Compton ROAD	Other Petroleum	Regulation under CLM Act not required	-33.93449194	147.2147948
WESTON	Illegal Dumping Site	Corner Kline Street & First STREET	Unclassified	Regulation under CLM Act not required	-32.81367986	151.4551507
WETHERILL PARK	Former Fuel Storage Depot	200-212 Cowpasture ROAD	Other Petroleum	Regulation under CLM Act not required	-33.84568871	150.8764012
WETHERILL PARK	Sims Wetherill Park	35-37 Frank STREET	Metal Industry	Regulation under CLM Act not required	-33.84056122	150.9086265
WETHERILL PARK	Shell Coles Express Service Station	565 Polding STREET	Service Station	Regulation under CLM Act not required	-33.8569731	150.8992804
WETHERILL PARK	Cleanaway (Formerly Nationwide Oil) Wetherill Park	6 Davis ROAD	Other Industry	Regulation under CLM Act not required	-33.83770038	150.9045197
WETHERILL PARK	BOC Sydney Operations Centre	428-440 Victoria STREET	Chemical Industry	Under assessment	-33.84375988	150.8960027
WETHERILL PARK	Camide Former Landfill	Newton ROAD	Landfill	Regulation under CLM Act not required	-33.83898879	150.8963813
WICKHAM	Caltex Terminal and "Building 33" on offsite adjacent land	156 Hannell Street and 33 Annie STREET	Other Petroleum	Contamination currently regulated under CLM Act	-32.9153413	151.7560062
WICKHAM	Former Warehouse	10 Dangar STREET	Unclassified	Regulation under CLM Act not required	-32.92383206	151.759761
WICKHAM	Former Factory	57 Annie STREET	Other Industry	Regulation under CLM Act not required	-32.91524827	151.7539893
WICKHAM	Railcorp Wickham	50 Railway STREET	Other Industry	Regulation under CLM Act not required	-32.9210433	151.7544687
WICKHAM	Fuchs Lubricants Wickham	2 Holland STREET	Other Industry	Under assessment	-32.9214709	151.7556928
WILBERFORCE	Former Drum Reconditioners	12-14 Box AVENUE	Other Industry	Contamination formerly regulated under the CLM Act	-33.5453884	150.8587934
WILBERFORCE	Former Solvent Recycling Site	13 Box AVENUE	Chemical Industry	Regulation under CLM Act not required	-33.54557427	150.8577006
WILEY PARK	Sydney Water Property	1B Hillcrest STREET	Other Industry	Regulation under CLM Act not required	-33.92391634	151.0676256
WILLIAMTOWN	Hunter Land Effluent Pond	38 Cabbage Tree ROAD	Other Industry	Regulation under CLM Act not required	-32.80750069	151.8310107
WILLOUGHBY	Shell Coles Express Service Station	616-626 Willoughby ROAD	Service Station	Regulation under CLM Act not required	-33.80593769	151.1988559
WILLOUGHBY	Caltex Service Station	157 Penhur STREET	Service Station	Regulation under CLM Act not required	-33.79793513	151.1981926
WILLOUGHBY	BP Express Tower	498 Willoughby STREET	Service Station	Contamination currently regulated under POEO Act	-33.81022918	151.199315
WILLOUGHBY EAST	Willoughby Bus Depot	Corner Ann Street and Stan STREET	Other Industry	Regulation under CLM Act not required	-33.7982569	151.2038993
WILTON	Condell Park Homestead	(Part Lot 17 DP 270536) Condell Park ROAD	Unclassified	Regulation under CLM Act not required	-34.21910141	150.6837962
WINDANG	Caltex Service Station	244-248 Windang ROAD	Service Station	Regulation under CLM Act not required	-34.5274434	150.8691161
WINDSOR	Former Caltex Service Station	46-52 Macquarie STREET	Service Station	Regulation under CLM Act not required	-33.60783315	150.8213428
WINDSOR	Former Caltex Windsor Depot and Service Station	48-50 Mileham STREET	Service Station	Regulation under CLM Act not required	-33.61538627	150.8157517
WINDSOR	Woolworths (former Caltex) Service Station	Cnr Macquarie Street & Baker STREET	Service Station	Regulation under CLM Act not required	-33.60569346	150.8232803
WINDSOR	Former Fire Station Windsor	19 Fitzgerald STREET	Other Industry	Under assessment	-33.606474	150.819908
WINGHAM	Former Caltex Service Station	1036-1038 Wingham ROAD	Service Station	Regulation under CLM Act not required	-31.86236594	152.3805752
WINGHAM	Bogas Service Station	Cnr Primrose Street and Isabella STREET	Service Station	Regulation under CLM Act not required	-31.86833656	152.3716346

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
WINMALEE	Prime Winmalee Service Station	281 Hawkesbury ROAD	Service Station	Regulation under CLM Act not required	-33.68223276	150.5997203
WIRLINGA	Former Liquid Waste Disposal Facility	704 Riverina ROAD	Unclassified	Regulation under CLM Act not required	-36.07103958	147.0193522
WOLLI CREEK	Former Ausgrid Substation 10061	13 Gertrude STREET	Other Industry	Regulation under CLM Act not required	-33.93364031	151.1543818
WOLLONGONG	Redevelopment site	33 - 39 Beatson STREET	Other Petroleum	Regulation under CLM Act not required	-34.43196083	150.8976661
WOLLONGONG	Caltex Service Station	9 Flinders STREET	Service Station	Regulation under CLM Act not required	-34.41505616	150.8932515
WOLLONGONG	Greenhouse Park	Springhill ROAD	Landfill	Contamination currently regulated under CLM Act	-34.44119949	150.8931764
WOLLONGONG	Former Wollongong Gasworks	120 and 122 Smith STREET	Gasworks	Regulation under CLM Act not required	-34.42030173	150.8906745
WOLLONGONG	Woolworths Service Station	425 Crown STREET	Service Station	Contamination currently regulated under CLM Act	-34.42637378	150.8799288
WOLLONGONG	Wollongong Harbour Central Spur	Off Endeavour DRIVE	Other Petroleum	Regulation under CLM Act not required	-34.42066879	150.906821
WOODBURN	Caltex Service Station	129 River STREET	Service Station	Regulation under CLM Act not required	-29.07206887	153.3409769
WOODBURN	Crown Reserve 88037 Woodburn	Pacific HIGHWAY	Landfill	Regulation under CLM Act not required	-29.06580577	153.3541886
WOOLGOOLGA	Caltex Woolgoolga Service Station	16 Bosworth ROAD	Service Station	Regulation under CLM Act not required	-30.12569561	153.1946006
WOOLGOOLGA	United Petroleum Service Station	56 Clarence STREET	Service Station	Regulation under CLM Act not required	-30.11045544	153.1904609
WOOLLAHRA	Former Service Station	20 Wallis STREET	Service Station	Regulation under CLM Act not required	-33.8901965	151.2372752
WOOLLAHRA	Proposed Jewish Care Centre	7-21 Saber STREET	Unclassified	Regulation under CLM Act not required	-33.8904055	151.2480062
WOOLLAHRA	Caltex Woollahra Service Station	116 Old South Head ROAD	Service Station	Contamination formerly regulated under the CLM Act	-33.88959697	151.2553736
WOOLLOOMOOLOO	Former BP Service Station	2 Dowley STREET	Service Station	Contamination being managed via the planning process (EP&A Act)	-33.86940191	151.2218741
WOOLOMIN	Woolomin Gold Rush Store	65 Nundle ROAD	Other Petroleum	Contamination formerly regulated under the CLM Act	-31.30415134	151.149729
WOOLOOWARE	Caltex Service Station	100 Woolooware ROAD	Service Station	Regulation under CLM Act not required	-34.05274635	151.1408413
WOOLOOWARE	Oyster Farm	Captain Cook DRIVE	Other Industry	Under assessment	-34.03807914	151.1476055
WOONGARRAH	Former Warnervale Landfill	236-264 Hakone ROAD	Landfill	Regulation under CLM Act not required	-33.2376313	151.464362
WOOTTON	Former Chemical Spill Site	11859 Pacific HIGHWAY	Chemical Industry	Regulation under CLM Act not required	-32.28168548	152.3117819
WOY WOY	Mobil Former Woy Woy Service Station and adjacent land	177-181 Blackwall ROAD	Service Station	Contamination formerly regulated under the CLM Act	-33.49254403	151.3270829
WOY WOY	Barry Robertson Holden	231 Blackwall ROAD	Service Station	Regulation under CLM Act not required	-33.49621068	151.3285128
WOY WOY	Bogas Service Station	66 Memorial AVENUE	Service Station	Contamination currently regulated under CLM Act	-33.5069738	151.3315579
WOY WOY	Rogers Park	Dunban ROAD	Landfill	Regulation under CLM Act not required	-33.50009693	151.3181347
WOY WOY	Austin Butler Memorial Oval	Blackwall ROAD	Landfill	Regulation under CLM Act not required	-33.48626871	151.3276042
WOY WOY	James Browne Oval	Welcome STREET	Landfill	Regulation under CLM Act not required	-33.49756053	151.3234871
WYALONG	Caltex Service Station	50 Neeld (Newell Highway) STREET	Service Station	Regulation under CLM Act not required	-33.92665025	147.2446546
WYOMING	Caltex Service Station Wyoming	465 Pacific HIGHWAY	Service Station	Regulation under CLM Act not required	-33.40945391	151.3499812
WYONG	Wyong Bayer/Kemcon	16 Lucca ROAD	Chemical Industry	Contamination formerly regulated under the CLM Act	-33.26192339	151.4429446
WYONG	Caltex Service Station	M1 Pacific (Northbound) MOTORWAY	Service Station	Regulation under CLM Act not required	-33.25641477	151.4024821
WYONG	Caltex Service Station	M1 Pacific (Southbound) MOTORWAY	Service Station	Regulation under CLM Act not required	-33.25330747	151.4053862
WYONG	IXOM Facility	8 Pavitt CRESCENT	Other Industry	Regulation under CLM Act not required	-33.26379108	151.4485113
YAGOONA	Galserv Galvanising Services	117-153 Rookwood ROAD	Metal Industry	Contamination currently regulated under POEO Act	-33.89493085	151.0388013
YAGOONA	BP Service Station Potts Hill (Yagoona)	155 Rookwood ROAD	Service Station	Regulation under CLM Act not required	-33.89330525	151.0390969
YAGOONA	7-Eleven (former Mobil) Service Station	519 Hume HIGHWAY	Service Station	Regulation under CLM Act not required	-33.90760623	151.0207783

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
YAGOONA	Shell Coles Express Service Station	112 Rookwood ROAD	Service Station	Regulation under CLM Act not required	-33.89856213	151.0370458
YAGOONA	Sydney Water Corporation Potts Hill Complex	91 Brunker ROAD	Other Industry	Regulation under CLM Act not required	-33.89887589	151.0289165
YALLAH	Tallawarra Power Station site	Princes HIGHWAY	Unclassified	Ongoing maintenance required to manage residual contamination (CLM Act)	-34.52412143	150.8062159
YAMBA	Caltex Service Station	22 Treelands DRIVE	Service Station	Regulation under CLM Act not required	-29.42701701	153.3279204
YANCO	Former Service Station	14 Main AVENUE	Service Station	Contamination formerly regulated under the CLM Act	-34.60356494	146.4105016
YASS	Caltex Service Station	228 Comur STREET	Service Station	Regulation under CLM Act not required	-34.84440036	148.9140179
YASS	Caltex Service Station	1715 Yass Valley WAY	Service Station	Regulation under CLM Act not required	-34.80708856	148.8824228
YASS	Former Mobil Depot Yass and adjacent land	54-58 Laidlaw STREET	Service Station	Contamination currently regulated under CLM Act	-34.83252976	148.9068888
YASS	Former Gasworks	Dutton STREET	Gasworks	Contamination currently regulated under CLM Act	-34.83982614	148.9060029
YASS	Transgrid Depot Yass	Perry STREET	Unclassified	Under assessment	-34.86238341	148.9052809
YENNORA	Former Alcoa Australia Rolled Products Facility - Area 3	1 Kiora CRESCENT	Metal Industry	Regulation under CLM Act not required	-33.86568158	150.9649297
YENNORA	Spicer Axle Australia Manufacturing Facility	205-231 Fairfield ROAD	Other Industry	Regulation under CLM Act not required	-33.85655114	150.9579167
YENNORA	Former Caltex Service Station	137-141 Fairfield STREET	Service Station	Regulation under CLM Act not required	-33.86824768	150.9706137
YENNORA	Former Metal Plant	44 Larra STREET	Metal Industry	Contamination formerly regulated under the CLM Act	-33.86340576	150.9764349
YENNORA	TetraPak Site	6 Foray STREET	Other Industry	Contamination formerly regulated under the CLM Act	-33.8557183	150.9561605
YENNORA	19 Pine Road, Yennora	Pine ROAD	Metal Industry	Contamination currently regulated under CLM Act	-33.86713232	150.9621172
YETHOLME	Yetholme CCA Timber Treatment Plant	351 Eusdale ROAD	Other Industry	Contamination formerly regulated under the CLM Act	-33.45386256	149.8537787
YOUNG	Former Mobil Depot and Service Station Young	149 Lovell STREET	Service Station	Regulation under CLM Act not required	-34.31024587	148.290424
YOUNG	Former Shell Depot	166 Nasmyth STREET	Other Petroleum	Regulation under CLM Act not required	-34.31025192	148.2931008
YOUNG	Former battery recycler	45 Nasmyth STREET	Metal Industry	Contamination currently regulated under CLM Act	-34.31201571	148.306772
YOUNG	Adjacent to former battery recycler	47 Nasmyth STREET	Metal Industry	Contamination formerly regulated under the CLM Act	-34.31176273	148.3064765
YOUNG	Mobil Depot	186 Nasmyth STREET	Other Petroleum	Contamination currently regulated under CLM Act	-34.30954389	148.2908476
YOUNG	Former Caltex Depot	95 Lovell STREET	Service Station	Regulation under CLM Act not required	-34.31127119	148.2955092
ZETLAND	Energy Australia/ Ausgrid Zetland Depot	122 - 138 Joynton AVENUE	Other Industry	Regulation under CLM Act not required	-33.90883116	151.2101184
ZETLAND	Former Goodrich Control Systems, Zetland	84 - 92 Epsom ROAD	Other Industry	Regulation under CLM Act not required	-33.91025707	151.2078048

Appendix C Heritage Records

Search Results

No results found.

Enter at least one search criterion.

Search Hints

Search Reset form

Place name

Street name
gardeners road

Town or suburb
alexandria

State
New South Wales

Country

Advanced search options

List
All Lists
Different lists will provide different status and class options

Local Government Area

Place ID number

Legal status
--All--

Class
--All--

Keyword Search

Description Statement of Significance Place history

Latitude/Longitude

N

Latitude 1

Longitude 1 S Longitude 2

W E Latitude 2 E **E**

S

S

Wholly within region
Wholly or partially within region

Longitude coordinates should be entered as ddd.mmss
Latitude coordinates should be entered as dd.mmss

Map Ref No

1:100,000 eg 2357
1:250,000 eg SF-50-01

Search Hints

- Not all fields need to be filled in. The fewer you fill in the more results you will get.
- If you cannot find a place, check spelling and try alternative names. Reduce the number of words that you include and use fewer fields.
- The Local Government field used on its own will provide a comprehensive list of places in an area.

Report Produced: Wed Jan 29 08:07:18 2020

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NSW GOVERNMENT

NSW Department of Planning, Industry and Environment

Home > Topics > Heritage places and items > Search for heritage

Search for NSW heritage

Your search did not return any matching results. Please refine your search and try again.

Here you can search the State Heritage Inventory. The State Heritage Inventory is a database of heritage items in New South Wales which includes:

- declared Aboriginal Places
- items listed on the State Heritage Register
- listed Interim Heritage Orders
- items on State Agency Heritage Registers, and,
- items listed of local heritage significance on a local council's Local Environmental Plan.

NSW's maritime heritage, that is not a site listed on the State Heritage Register, is held in a separate database. You can search for shipwrecks, submerged aircraft and other maritime heritage sites in the **Maritime Heritage Database.**

For more information about Aboriginal Places and other sites of significance refer to **Aboriginal Heritage Information Management System.**

We work to keep the State Heritage Inventory up to date. We rely on State agencies and local councils to provide updated information when applicable. It's recommended that you check with the relevant State agency or local council for the most up-to-date information.

Basic search criteria

Item name/database ID:

Street name: gardeners road

Suburb/town: alexandria

Local Government Area: Sydney

Local Aboriginal Land Council (LALC): Please Choose...
(For Aboriginal Place and State Heritage Register only)

Heritage listings: Please Choose...

SHR number:

Additional search criteria

NOTE: For items listed by local councils, there may not be information in the additional search criteria fields.

Owner organisation*:

Designer/builder:

Year of construction: from

to:

Item type: Please Choose...

Item group: Please Choose...

Item category: Please Choose...

Australian historic theme: Please Choose...

NSW historic theme: Please Choose...

Significance, description, historical notes:

Information complete: ☐

Search

Reset

***View owner organisation names for section 170 heritage and conservation registers**

Search Aboriginal Places & State Heritage Register

The map below shows declared Aboriginal Places and items listed on the State Heritage Register. It does not include listed Interim Heritage Orders, items on State Agency Heritage Registers or Local Environmental Plans.

The location of Aboriginal Places and State Heritage Register items are marked on the map as a single approximation point for general identification and research purposes only.

Location information for some Aboriginal Places (e.g. burial grounds and sacred sites) has been generalised because of their cultural sensitivity. Location information for restricted Aboriginal Places is not shown at all. If a proposed activity or development could potentially impact or harm (i.e. damage, deface or destroy) an Aboriginal Place, the people responsible for the proposed development must undertake a search for the exact boundaries of Aboriginal Places through **Aboriginal Heritage Information Management System.**

State Heritage Register spatial datasets and associated metadata into a Geographical Information System (GIS) software package is available through **Data NSW**.

Listing Type: ◉ All ○ Aboriginal Places ○ State Heritage Register

Local government area: Please Choose...

Item name/Database ID:

SHR number:

Location:

Local Aboriginal Land Council (LALC): Please Choose...

State theme: Please Choose...

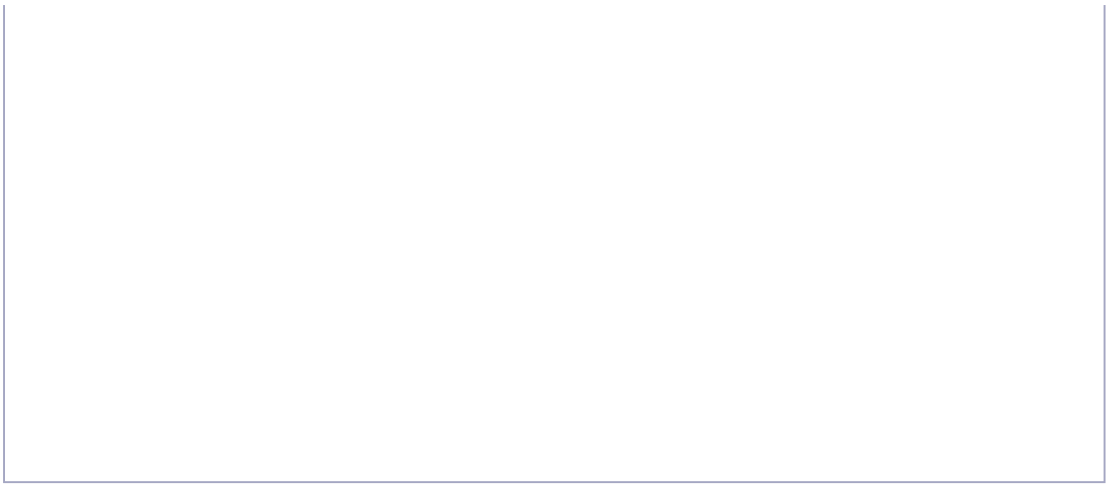
Item type: Please Choose...

Item Group: Please Choose...

Item category: Please Choose...

Search

Reset



Appendix D Aerial Photographs



Legend:

Approximate Site Boundary

JBS&G

Job No: 58167

Client: Charter Hall

Version: R01 Rev A | Date 30/01/2020

Drawn By: JZ | Checked By: CB

Scale 1:1,500

0 25 50

metres

Coord. Sys. GDA 1994 MGA Zone 56

520-530 Gardeners Rd, Alexandria NSW 2015

HISTORICAL SITE LAYOUT - 1943

FIGURE 3

File Name: \\JBSG-NSW-FS01\Company Data\Projects\Charter Hall\58167 Mascot DD\GIS\Maps\R01 Rev A\58167_Fig3_HisAerial_1943.mxd
Reference: Historical aerials



Legend:

Approximate Site Boundary

JBS&G

Job No: 58167	
Client: Charter Hall	
Version: R01 Rev A	Date 22/01/2020
Drawn By: JZ	Checked By: CB

Scale 1:1,500

0 25 50

metres

Coord. Sys. GDA 1994 MGA Zone 56

520-530 Gardeners Rd, Alexandria NSW 2015

HISTORICAL SITE LAYOUT - 1950

FIGURE 4

File Name: N:\Projects\Charter Hall\58167 Mascot DD\GIS\Maps\R01 Rev A\58167_Fig4_HisAerial_1950.mxd
Reference: Historical aerials



Legend:

Approximate Site Boundary

JBS&G

Job No: 58167	
Client: Charter Hall	
Version: R01 Rev A	Date 30/01/2020
Drawn By: JZ	Checked By: CB
Scale 1:1,500	

0 25 50

metres

Coord. Sys. GDA 1994 MGA Zone 56

520-530 Gardeners Rd, Alexandria NSW 2015

HISTORICAL SITE LAYOUT - 1961

FIGURE 5

File Name: \\JBSG-NSW-FS01\Company Data\Projects\Charter Hall\58167 Mascot DD\GIS\Maps\R01 Rev A\58167_Fig5_HisAerial_1961.mxd
Reference: Historical aerials



Legend:

Approximate Site Boundary

JBS&G

Job No: 58167	
Client: Charter Hall	
Version: R01 Rev A	Date 30/01/2020
Drawn By: JZ	Checked By: CB
Scale 1:1,500	

0 25 50

metres

Coord. Sys. GDA 1994 MGA Zone 56

520-530 Gardeners Rd, Alexandria NSW 2015

HISTORICAL SITE LAYOUT - 1978

FIGURE 6

File Name: \\JBSG-NSW-FS01\Company Data\Projects\Charter Hall\58167 Mascot DD\GIS\Maps\R01 Rev A\58167_Fig6_HisAerial_1978.mxd
Reference: Historical aerials



Legend:

Approximate Site Boundary

JBS&G

Job No: 58167	
Client: Charter Hall	
Version: R01 Rev A	Date 30/01/2020
Drawn By: JZ	Checked By: CB
Scale 1:1,500	

0 25 50

metres

Coord. Sys. GDA 1994 MGA Zone 56

520-530 Gardeners Rd, Alexandria NSW 2015

HISTORICAL SITE LAYOUT - 1986

FIGURE 7

File Name: \\JBSG-NSW-FS01\Company Data\Projects\Charter Hall\58167 Mascot DD\GIS\Maps\R01 Rev A\58167_Fig7_HisAerial_1986.mxd
Reference: Historical aerials



Legend:

Approximate Site Boundary

JBS&G

Job No: 58167	
Client: Charter Hall	
Version: R01 Rev A	Date 30/01/2020
Drawn By: JZ	Checked By: CB
Scale 1:1,500	

0 25 50

metres

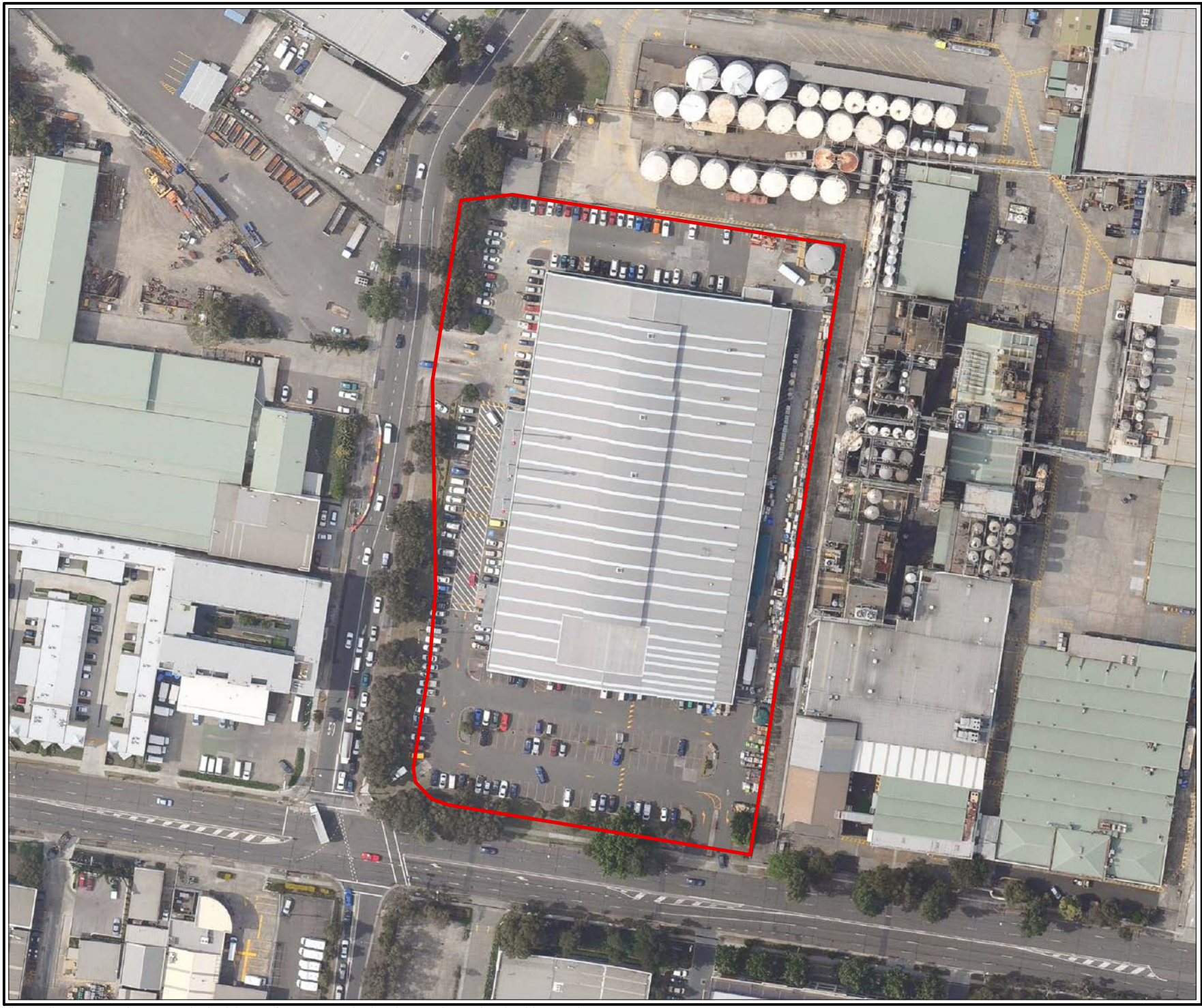
Coord. Sys. GDA 1994 MGA Zone 56

520-530 Gardeners Rd, Alexandria NSW 2015

HISTORICAL SITE LAYOUT - 1998

FIGURE 8

File Name: \\JBSG-NSW-FS01\Company Data\Projects\Charter Hall\58167 Mascot DD\GIS\Maps\R01 Rev A\58167_Fig8_HisAerial_1998.mxd
Reference: Historical aerials



Legend:

Approximate Site Boundary

JBS&G

Job No: 58167	
Client: Charter Hall	
Version: R01 Rev A	Date 30/01/2020
Drawn By: JZ	Checked By: CB
Scale 1:1,500	

0 25 50

metres

Coord. Sys. GDA 1994 MGA Zone 56

520-530 Gardeners Rd, Alexandria NSW 2015

HISTORICAL SITE LAYOUT - 2009

FIGURE 9

File Name: \\JBSG-NSW-FS01\Company Data\Projects\Charter Hall\58167 Mascot DD\GIS\Maps\R01 Rev A\58167_Fig9_HisAerial_2009.mxd
Reference: www.nearmap.com - Imagery: 14/11/2009



Legend:

Approximate Site Boundary

JBS&G

Job No: 58167	
Client: Charter Hall	
Version: R01 Rev A	Date 30/01/2020
Drawn By: JZ	Checked By: CB
Scale 1:1,500	

0 25 50

metres

Coord. Sys. GDA 1994 MGA Zone 56

520-530 Gardeners Rd, Alexandria NSW 2015

HISTORICAL SITE LAYOUT - 2019

FIGURE 10

File Name: \\JBSG-NSW-FS01\Company Data\Projects\Charter Hall\58167 Mascot DD\GIS\Maps\R01 Rev A\58167_Fig10_HisAerial_2019.mxd
Reference: www.nearmap.com - Imagery: 22/10/2019

Appendix E Section 10.7 Planning Certificates

City of Sydney
Town Hall House
456 Kent Street
Sydney NSW 2000

Telephone +61 2 9265 9333
Fax +61 2 9265 9222
council@cityofsydney.nsw.gov.au

GPO Box 1591 Sydney NSW 2001
cityofsydney.nsw.gov.au

JBS & G AUSTRALIA PTY LTD
Suite 1
Level 1 50 Margaret St
SYDNEY NSW 2000

PLANNING CERTIFICATE

Under Section 10.7 of the Environmental Planning and Assessment Act, 1979

Applicant:	JBS & G AUSTRALIA PTY LTD
Your reference:	ALEXANDRIA DD
Address of property:	520-530 Gardeners Road , ALEXANDRIA NSW 2015
Owner:	SOUTH SYDNEY CENTRAL PTY LIMITED and ROADS AND MARITIME SERVICES
Description of land:	Lot 302 DP 1231238
Certificate No.:	2020300321
Certificate Date:	21/01/20
Receipt No:	0148810
Fee:	$80.00
Paid:	21/01/20

Title information and description of land are provided from data supplied by the Valuer General and shown where available.

Issuing Officer
per **Monica Barone**
Chief Executive Officer

CERTIFICATE ENQUIRIES:
Ph: 9265 9333
Fax: 9265 9415

Sydney2030/Green/Global/Connected

PLANNING CERTIFICATE UNDER SECTION 10.7 (2) OF THE ENVIRONMENTAL PLANNING AND ASSESSMENT ACT, 1979

MATTERS AFFECTING THE LAND AS PRESCRIBED BY SCHEDULE 4 - ENVIRONMENTAL PLANNING & ASSESSMENT REGULATION, 2000, CLAUSES (1) - (2).

DEVELOPMENT CONTROLS

The following information must be read in conjunction with and subject to all other provisions of the environmental planning instruments specified in this certificate.

ZONING

Zone IN1 General Industrial (Sydney Local Environmental Plan 2012)

1 Objectives of zone
• To provide a wide range of industrial and warehouse land uses.
• To encourage employment opportunities.
• To minimise any adverse effect of industry on other land uses.
• To support and protect industrial land for industrial uses.
• To ensure uses support the viability of nearby centres.

2 Permitted without consent
Nil

3 Permitted with consent
Agricultural produce industries; Boat building and repair facilities; Depots; Food and drink premises; Freight transport facilities; Garden centres; General industries; Hardware and building supplies; Horticulture; Industrial training facilities; Kiosks; Light industries; Neighbourhood shops; Places of public worship; Roads; Roadside stalls; Timber yards; Warehouse or distribution centres; Any other development not specified in item 2 or 4

4 Prohibited
Agriculture; Air transport facilities; Airstrips; Amusement centres; Animal boarding or training establishments; Boat launching ramps; Boat sheds; Camping grounds; Car parks; Caravan parks; Cemeteries; Centre-based child care facilities; Charter and tourism boating facilities; Commercial premises; Community facilities; Correctional centres; Eco-tourist facilities; Educational establishments; Entertainment facilities; Exhibition homes; Exhibition villages; Extractive industries; Farm buildings; Forestry; Function centres; Health services facilities; Heavy industries; Helipads; Highway service centres; Home-based child care; Home businesses; Home occupations; Home occupations (sex services); Information and education facilities; Jetties; Marinas; Mooring pens; Moorings; Passenger Transport facilities; Places of public worship; Recreation facilities (indoor); Recreation facilities (major); Recreation facilities (outdoor); Registered clubs; Residential accommodation; Respite day care centres; Restricted premises; Rural industries; Self-storage units; Sex services premises; Tourist and visitor accommodation; Veterinary hospitals; Water recreation structures; Wholesale supplies

Zone SP2 Infrastructure (Sydney Local Environmental Plan 2012)

1 Objectives of zone
• To provide for infrastructure and related uses.
• To prevent development that is not compatible with or that may detract from the provision of infrastructure.

2 Permitted without consent
Nil

3 Permitted with consent

Horticulture; Roads; Water storage facilities; Water treatment facilities; The purpose shown on the Land Zoning Map, including any development that is ordinarily incidental or ancillary to development for that purpose.

4 Prohibited
Any development not specified in item 2 or 3

PROPOSED ZONING

This property is not affected by a draft zone.

LOCAL PLANNING CONTROLS

Sydney Local Environmental Plan 2012 (as amended) – Published 14 December 2012 NSW Legislation Website.

Sydney Development Control Plan 2012 (as amended) - (commenced 14.12.2012)

HERITAGE

State Heritage Register (Amendment To Heritage Act, 1977 Gazetted 2/4/99)
This property may be identified as being of state heritage significance, and entered on the State Heritage Register.

To confirm whether the site is listed under the Heritage Act 1977 a Section 167 Certificate should be obtained from the NSW Heritage Office by contacting the NSW Heritage office on (02) 9873 8500 for an application from or by downloading the application form from www.heritage.nsw.gov.au

STATE PLANNING INSTRUMENTS

Full copies of State Environmental Planning Policies are available online at www.planning.nsw.gov.au.

State Environmental Planning Policy No. 19 – Bushland in Urban Areas
This is a policy to protect and preserve bushland within certain urban areas, as part of the natural heritage or for recreational, educational and scientific purposes. This policy is designed to protect bushland in public open space zones and reservations, and to ensure that bush preservation is given a high priority when local environmental plans for urban development are prepared.

State Environmental Planning Policy No. 33 – Hazardous and Offensive Development
This policy aims to amend the definitions of hazardous and offensive industries; to render ineffective any environmental planning instruments not defining hazardous or offensive as per this policy; to control development of hazardous and offensive industries.

State Environmental Planning Policy No. 55 – Remediation of Land
This policy provides planning controls for the remediation of contaminated land. The policy states that land must not be developed if it is unsuitable for a proposed use because it is contaminated. If the land is unsuitable, remediation must take place before the land is developed. The policy makes remediation permissible across the State, defines when consent is required, requires all remediation to comply with standards, ensures land is investigated if contamination is suspected, and requires councils to be notified of all remediation proposals. To assist councils and developers, the Department, in conjunction with the Environment Protection Authority, has prepared Managing Land Contamination: Planning Guidelines.

State Environmental Planning Policy No. 64 – Advertising and Signage
This policy aims to ensure that signage (including advertising):
Is compatible with the desired amenity and visual character of an area, and

- Provides effective communications in suitable locations, and
- Is of a high quality design and finish.

To this end the policy regulates signage (but not content) under Part 4 of the Act and provides limited time consents for the display of certain advertisements. The policy does not apply to signage that is exempt development under an environmental planning instrument. It does apply to all signage that can be displayed with or without consent and is visible from any public place or reserve, except as provided by the policy.

This policy should be read in conjunction with the Sydney Local Environmental Plan 2005, the City of Sydney Signage and Advertising Structures Development Control Plan 2005 and State Environmental Planning Policy No. 60 where these apply.

State Environmental Planning Policy No. 65 – Design Quality of Residential Apartment Development
This policy aims to improve the design quality of flats of three or more storeys with four or more self contained dwellings. The policy sets out a series of design principles for local councils to consider when assessing development proposals for residential flat development. The policy also creates a role for an independent design review panel and requires the involvement of a qualified designer in the design and approval process.

State Environmental Planning Policy No.70 – Affordable Housing (Revised Schemes) (Gazetted 31.05.02)
The policy identifies that there is a need for affordable housing in the City of Sydney, describes the kinds of households for which affordable housing may be provided and makes a requirement with respect to the imposition of conditions relating to the provision of affordable housing (provided other requirements under the Act are met).

State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004
This Policy does not apply to land described in Schedule 1 (Environmentally sensitive land), or land that is zoned for industrial purposes, or land to which an interim heritage order made under the *Heritage Act 1997* by the Minister administering that Act applies, or land to which a listing on the State Heritage Register kept under the *Heritage Act 1997* applies.

The Policy aims to encourage the provision of housing (including residential care facilities) that will increase the supply and diversity of residences that meet the needs of seniors or people with a disability, and make efficient use of existing infrastructure and services, and be of good design.

State Environmental Planning Policy (Building Sustainability Index: BASIX) 2004
Aims to ensure consistency in the implementation of the BASIX scheme throughout the State. This Policy achieves its aim by overriding provisions of other environmental planning instruments and development control plans that would otherwise add to, subtract from or modify any obligations arising under the BASIX scheme.

State Environmental Planning Policy (State Significant Precincts) 2005
This Policy aims to identify development of economic, social or environmental significance to the State or regions of the State so as to provide a consistent and comprehensive assessment and decision making process for that development.
NB: This SEPP also contains exempt & complying provisions

State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007
This Policy aims to provide for the proper management and development of mineral, petroleum and extractive material resources for the social and economic welfare of the State.

State Environmental Planning Policy (Miscellaneous Consent Provisions) 2007
This Policy aims to ensure that suitable provision is made for ensuring the safety of persons using temporary structures or places of public entertainment.

State Environmental Planning Policy (Infrastructure) 2007
This Policy aims to facilitate the effective delivery of infrastructure across the state.
NB: This SEPP also contains exempt & complying provisions

State Environmental Planning Policy (Exempt and Complying Development Codes) 2008
This Policy Streamlines assessment processes for development that complies with specified development standards. The policy provides exempt and complying development codes that have State-wide application, identifying, in the General Exempt Development Code, types of development that are of minimal environmental impact that may be carried out without the need for development consent; and, in the General Housing Code, types of complying

development that may be carried out in accordance with a complying development certificate as defined in the Environmental Planning and Assessment Act 1979.

State Environmental Planning Policy (Affordable Rental Housing) 2009
Establishes a consistent planning regime for the provision of affordable rental housing. The policy provides incentives for new affordable rental housing, facilitates the retention of existing affordable rentals, and expands the role of not-for-profit providers. It also aims to support local centres by providing housing for workers close to places of work, and facilitate development of housing for the homeless and other disadvantaged people. NOTE: Does not apply to land at Green Square or at Ultimo Pyrmont, or on southern employment land.

State Environmental Planning Policy (Urban Renewal) 2010
The aims of this Policy are as follows:
(a) to establish the process for assessing and identifying sites as urban renewal precincts,
(b) to facilitate the orderly and economic development and redevelopment of sites in and around urban renewal precincts,
(c) to facilitate delivery of the objectives of any applicable government State, regional or metropolitan strategies connected with the renewal of urban areas that are accessible by public transport.

State Environmental Planning Policy (State and Regional Development) 2011
The aims of this Policy are as follows:
(a) to identify development that is State significant development,
(b) to identify development that is State significant infrastructure and critical State significant infrastructure,
(c) to confer functions on joint regional planning panels to determine development applications.

State Environmental Planning Policy (Vegetation in Non-Rural Areas) 2017
The aims of this Policy are:
(a) to protect the biodiversity values of trees and other vegetation in non-rural areas of the State, and
(b) to preserve the amenity of non-rural areas of the State through the preservation of trees and other vegetation.

State Environmental Planning Policy (Educational Establishments and Child Care Facilities) 2017
The aim of this Policy is to facilitate the effective delivery of educational establishments and early education and care facilities across the state.

State Environmental Planning Policy (Coastal Management) 2018
The aim of this Policy is to promote an integrated and co-ordinated approach to land use planning in the coastal zone in a manner consistent with the objects of the Coastal Management Act 2016, including the management objectives for each coastal management area, by:
(a) managing development in the coastal zone and protecting the environmental assets of the coast, and
(b) establishing a framework for land use planning to guide decision-making in the coastal zone, and
(c) mapping the 4 coastal management areas that comprise the NSW coastal zone for the purpose of the definitions in the Coastal Management Act 2016.

Sydney Regional Environmental Plan (Sydney Harbour Catchment) 2005
This plan applies to land within the Sydney Harbour Catchment, as shown edged heavy black on the Sydney Harbour Catchment Map, being part of the Sydney Region declared by order published in Gazette No 38 of 7 April 1989 at page 1841.

This plan has the following aims with respect to the Sydney Harbour Catchment:

to ensure that the catchment, foreshores, waterways and islands of Sydney Harbour are recognised, protected and maintained: as outstanding natural asset, and as a public asset of national and heritage significance, for existing and future generations; to ensure a healthy, sustainable environment on land and water; to achieve a high quality urban environment; to ensure a prosperous working waterfront and an effective transport corridor, to encourage a culturally rich and vibrant place for people; to ensure accessibility to and along Sydney Harbour and its foreshores; to ensure the protection, maintenance and rehabilitation of watercourses, wetlands, riparian lands, remnant vegetation and ecological connectivity, to provide a consolidated, simplified and updated legislative framework for future planning.

OTHER MATTERS AFFECTING THE LAND AS PRESCRIBED BY SCHEDULE 4 - E. P. & A. REGULATION, 2000. CLAUSES (2A) - (10)

(2A) Zoning and land use under *State Environmental Planning Policy (Sydney Region Growth Centres) 2006*

This SEPP does not apply to the land.

(3) Complying Development

(1) The extent to which the land is land on which complying development may be carried out under each of the codes for complying development because of the provisions of clauses 1.17A (1) (c) to (e), (2), (3) and (4),1.18(1)(c3) and 1.19 of *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008*.

(2) The extent to which complying development may not be carried out on that land because of the provisions of clauses 1.17A (1) (c) to (e), (2), (3) and (4),1.18(1)(c3) and 1.19 of that Policy and the reasons why it may not be carried out under those clauses.

(3) If the council does not have sufficient information to ascertain the extent to which complying development may or may not be carried out on the land, a statement that a restriction applies to the land, but it may not apply to all of the land, and that council does not have sufficient information to ascertain the extent to which complying development may or may not be carried out on the land.

Note: All Exempt and Complying Development Codes: Council does not have sufficient information to ascertain the extent of a land based exclusion on a property. Despite any statement preventing the carrying out of complying development in the Codes listed below, complying development may still be carried out providing the development is not on the land affected by the exclusion and meets the requirements and standards of *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008*.

General Housing Code & Commercial and Industrial (New Buildings and Additions) Code

Complying development **may not** be carried out on the land under the General Housing Code & the Commercial and Industrial (New Buildings and Additions) Code if because of the provisions of clause 1.17A, 1.18(1)(c3) & 1.19 (Land-based requirements for exempt and complying development) any of the following statements are **YES**

▪ Clause 1.19(5)d. Land that is significantly contaminated land within the meaning of the Contaminated Land Management Act 1997. (Applies only to the Commercial and Industrial (New Buildings and Additions) Code.	NO
▪ Clause 1.17A(d). Has been identified as a property that comprises, or on which there is, an item that is listed on the State Heritage Register under the *Heritage Act 1977* or that is subject to an interim heritage order under the *Heritage Act 1977*.	NO
▪ Clause 1.17A(d) & 1.18(1)(c3). Has been identified as a property that comprises, or on which there is, a heritage item or draft heritage item.	**NO**
▪ Clause 1.17A(c). Has been identified as being within a wilderness area (identified under the *Wilderness Act 1987*.	**NO**
▪ Clause 1.17A(e) & 1.19(1)e or 1.19(5)f. Has been identified as land that is within an environmentally sensitive area or by an environmental planning instrument as being within a buffer area, a river front area, an ecologically sensitive area, environmentally sensitive land or a protected area	**NO**
▪ Clause 1.19(1)a.or 1.19(5)a Has been identified as being within a heritage conservation area or a draft heritage conservation area.	**NO**
▪ Clause 1.19(1)b or 1.19(5)b. Has been identified as being land that is reserved for a public purpose in an environmental planning instrument.	**NO**
▪ Clause 1.19(1)c or 1.19(5)c. Has been identified as being on an Acid Sulfate Soils Map as being Class 1 or Class 2.	**NO**
▪ Clause 1.19(1)d or 1.19(5)e. Has been identified as land that is subject to a biobanking agreement under part 7A of the threatened Species Conservation Act 1995 or a property vegetation plan under the Native Vegetation Act 2003.	**NO**
▪ Clause 1.19(1)f or 1.19(5)g. Has been identified by an environmental planning instrument, a development control plan or a policy adopted by the Council as being or affected by a coastline hazard, a coastal hazard or a coastal erosion hazard.	**NO**
▪ Clause 1.19(1)g or 1.19(5)h. Has been identified as being land in a foreshore area.	**NO**
▪ Clause 1.19(1)h. Has been identified as land that is in the 25 ANEF contour or a higher ANEF contour. (Applies only to the General Housing Code)	**NO**
▪ Clause 1.19(1)j or 1.19(5)i. Has been identified as unsewered land within a drinking water catchment.	**NO**
▪ Clause 1.19(1)i. Has been identified as land that is declared to be a special area under the Sydney Water Catchment Management Act 1998.	**NO**

Housing Alterations Code
Complying development under the Housing Alterations Code **may** be carried out on the land.

Commercial and Industrial Alterations Code
Complying development under the Commercial and Industrial Alterations Code **may** be carried out on the land.

Subdivisions Code

Complying development under the Subdivisions Code **may** be carried out on the land.

Rural Housing Code
The Rural Housing Code does not apply to this Local Government Area.

General Development Code
Complying development under the General Development Code **may** be carried out on the land.

Demolition Code
Complying development under the Demolition Code **may** be carried out on the land.

Low Rise Medium Density Housing Code
This Code does not apply to this Local Government Area.

(4B) Annual charges under Local Government Act 1993 for coastal protection services that relate to existing coastal protection works

In relation to a coastal council : The owner (or any previous owner) of the land has not consented in writing to the land being subject to annual charges under section 496B of the Local Government Act 1993 for coastal protection services that relate to existing coastal protection works (within the meaning of section 553B of that Act).

Note. "Existing coastal protection works" are works to reduce the impact of coastal hazards on land (such as seawalls, revetments, groynes and beach nourishment) that existed before the commencement of section 553B of the Local Government Act 1993.

(5) Mine Subsidence District

This land has not been proclaimed to be a mine subsidence district within the meaning of section 15 of the mine subsidence compensation act, 1961.

(6) Road Widening and/or Road Realignment affected by (a) Division 2 of Part 3 of the Roads act 1993 or (c) any resolution of council or other authority.

This land **is not** affected by road widening and/or road realignment under section 25 of the Roads Act, 1993 and/or resolution of Council or any other authority.

(6) Road Widening and/or Road Realignment Affected by (b) any environmental planning instrument.

This land **is** affected by road widening or a road realignment under a planning instrument.

(7) Council and other public authorities policies on hazard risk restrictions:

(a) The land **is not** affected by a policy adopted by the Council that that restricts the development of the land because of the likelihood of land slip, bushfire, flooding, tidal inundation, subsidence, acid sulphate soils or any other risk; and

(b) The land **is not** affected by a policy adopted by any other public authority and notified to the council for the express purpose of its adoption by that authority being referred to on planning certificate issued by Council, that restricts the development of the land because of the likelihood of land slip, bushfire, flooding, tidal inundation, subsidence, acid sulphate soils or any other risk.

(7A) Flood related development controls information.

The development on this land or part of this land is subject to flood related development controls refer to Clause 7.15 of Sydney Local Environment Plan 2012 and Section 3.7 of Sydney Development Control Plan 2012.

(8) Land reserved for acquisition

An environmental planning instrument or a proposed environmental planning instrument applying to this land provides for the acquisition or part acquisition of the land by a public authority, as referred to in section 3.15 of the Act. Contact Council's Strategic Planning Section for more information.

(9) Contribution plans

The following Contributions Plans apply to properties within the City of Sydney local government area. Contributions plans marked **YES** may apply to this property:

▪ Central Sydney Development Contributions Plan 2013 – in operation 9th July 2013	**NO**
▪ City of Sydney Development Contributions Plan 2015 – in operation 1st July 2016	**YES**
▪ Redfern Waterloo Authority Contributions Plan 2006 – in operation 16th May 2007 ▪ Redfern Waterloo Authority Affordable Housing Contributions Plan – in operation 16th May 2007	**NO**

(9A) Biodiversity certified land

The land has not been certified as biodiversity certified land.

(10) Biodiversity Conservation Act 2016

Not Applicable.

(10A) Native vegetation clearing set asides

Not Applicable.

(11) Bush fire prone land

The land has not been identified as Bush fire prone land.

(12) Property vegetation plans

Not Applicable.

(13) Orders under Trees (Disputes Between Neighbours) Act 2006

Council has not been notified of an order which as been made under the *Trees (Disputes Between Neighbours) Act 2006* to carry out work in relation to a tree on the land.

(14) Directions under Part 3A

Not Applicable.

(15) Site compatibility certificates and conditions for seniors housing

(a) The land to which the certificate relates is not subject to a current site compatibility certificate (seniors housing), of which Council is aware, in respect of proposed development on the land.

(b) The land to which the certificate relates is not subject to any condition of consent to a development application granted after 11 October 2007 required by State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004.

(16) Site compatibility certificates for infrastructure, schools or TAFE establishments

The land to which the certificate relates is not subject to a valid site compatibility certificate (infrastructure), of which Council is aware, in respect of proposed development on the land.

(17) Site compatibility certificates and conditions for affordable rental housing

(a) The land to which the certificate relates is not subject to a current site compatibility certificate (affordable rental housing), of which Council is aware, in respect of proposed development on the land.

(b) The land to which the certificate relates is not subject to any terms of a kind referred to in clause 17(1) or 37(1) of State Environmental Planning Policy (Affordable Rental Housing) 2009 that have been imposed as a condition of consent to a development application in respect of the land.

(18) Paper subdivision information

Not Applicable.

(19) Site verification certificates

The land to which the certificate relates is not subject to a valid site verification certificate of which Council is aware.

(20) Loose-fill asbestos insulation

Not Applicable

(21) Affected building notices and building product rectification orders

(1)The land to which the certificate relates is not subject to any affected building notice of which Council is aware.

(2) (a) The land to which the certificate relates is not subject to any building product rectification order of which Council is aware and has not been fully complied with.

(b) The land to which the certificate relates is not subject to any notice of intention to make a building product rectification order of which Council is aware and is outstanding.

(3) In this clause:
affected building notice has the same meaning as in Part 4 of the Building Products (Safety) Act 2017.
building product rectification order has the same meaning as in the Building Products (Safety) Act 2017.

Note. The following matters are prescribed by section 59 (2) of the *Contaminated Land Management Act 1997* as additional matters to be specified in a planning certificate:

(a) The land to which the certificate relates **is not** declared to be **significantly contaminated land** within the meaning of that act as at the date when the certificate is issued.

(b) The land to which the certificate relates **is not** subject to a **management order** within the meaning of that act as at the date when the certificate is issued.

(c) The land to which the certificate relates **is not** the subject of an **approved voluntary management proposal** within the meaning of that act at the date the certificate is issued.

(d) The land to which the certificate relates **is not** the subject of an **ongoing maintenance order** within the meaning of that act as at the date when the certificate is issued.

(e) As at the date when the certificate is issued, Council **has not** identified that a **site audit statement** within the meaning of that act has been received in respect of the land the subject of the certificate.

PLANNING CERTIFICATE SECTION 10.7 (2) INFORMATION:
Information provided in accordance with planning certificate section 10.7 (2) has been taken from council's records and advice from other authorities but council disclaims all liability for any omission or inaccuracy in the information. Specific inquiry should be made where doubt exists.

PLANNING CERTIFICATE UNDER SECTION 10.7 (5) OF THE ENVIRONMENTAL PLANNING AND ASSESSMENT ACT, 1979

PLANNING CERTIFICATE SECTION 10.7 (5) ADVICE is current as at 12:00 noon two working days prior to the date of issue of this certificate. The following matters have been considered & details provided where information exists: easements in favour of council; parking permit scheme; heritage floor space restrictions; low-rental residential building; foreshore building line; tree preservation order.

Contaminated Land Potential:
Council records do not have sufficient information about the uses (including previous uses) of the land which is the subject of this section 10.7 certificate to confirm that the land has not been used for a purpose which would be likely to have contaminated the land. Parties should make their own enquiries as to whether the land may be contaminated.

Hazard Risk Restriction:
Some City of Sydney Local Environmental Plans incorporate Acid Sulfate soil maps. Development on the land identified in those maps should have regard to the acid sulfate soil clause within the relevant Local Environmental Plan.

Construction Noise and View Loss Advice:
Intending purchasers are advised that the subject property may be affected by construction noise and loss or diminution of views as a result of surrounding development.

Outstanding Notice & Order information
In relation to this property, there **is not** an outstanding Order or Notice of Intention to issue an Order relating to Fire Safety (being an Order or Notice of Intention to issue an Order under Part 2 of Schedule 5 of the Environmental Planning and Assessment Act, 1979). Further information about the Order or Notice of Intention to issue an Order may be obtained by applying for a certificate under clause 41 of Schedule 5 of the Environmental Planning and Assessment Act and Section 735A of the Local Government Act.

In relation to this property, there **is not** an outstanding Order or Notice of Intention to issue an Order (being an Order or Notice of Intention to issue an Order of a type other than relating to fire safety). Further information about the Order or Notice of Intention to issue an Order may be obtained by applying for a certificate under clause 41 of Schedule 5 of the Environmental Planning and Assessment Act and Section 735A of the Local Government Act.

Neighbourhood Parking Policy
The City of Sydney co-ordinates a Resident Permit Parking Scheme and a Visitor Permit Parking scheme. This property may be restricted from participating in either scheme. Eligibility may change after the date of this certificate, as parking supply and other traffic demands change. For more information contact Council's call centre on 9265 9333.

ADVICE FROM OTHER BODIES

Advice provided in accordance with planning certificate section 10.7 (5) is supplied in good faith. Council accepts no liability for the validity of the advice given. (see section 10.7 (6) of the Environmental Planning and Assessment Act, 1979).

Planning certificate section 10.7 (2), local planning controls are available are available online at www.cityofsydney.nsw.gov.au

General Enquiries:
Telephone: 02 9265 9333

Town Hall House
Level 2
Town Hall House
456 Kent Street
Sydney
8am – 6pm Monday - Friday

State planning controls are available online at www.legislation.nsw.gov.au

Where planning certificate section 10.7 (5) matters are supplied, complete details are available by writing to:
Chief Executive Officer
City of Sydney
G.P.O. Box 1591
Sydney NSW 2000

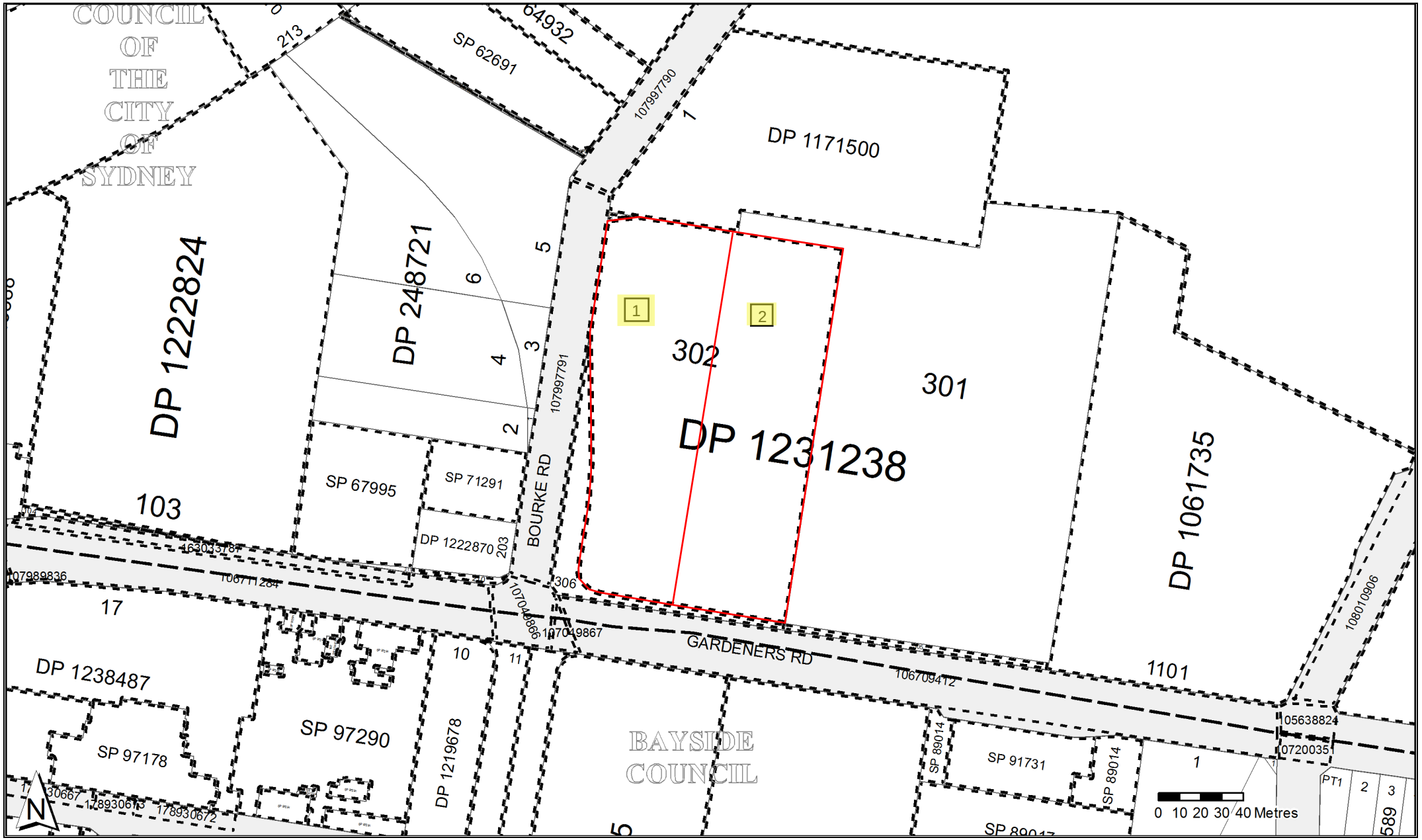
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Appendix F Title Records

Cadastral Records Enquiry Report : Lot 302 DP 1231238

Ref : nascot bunnings

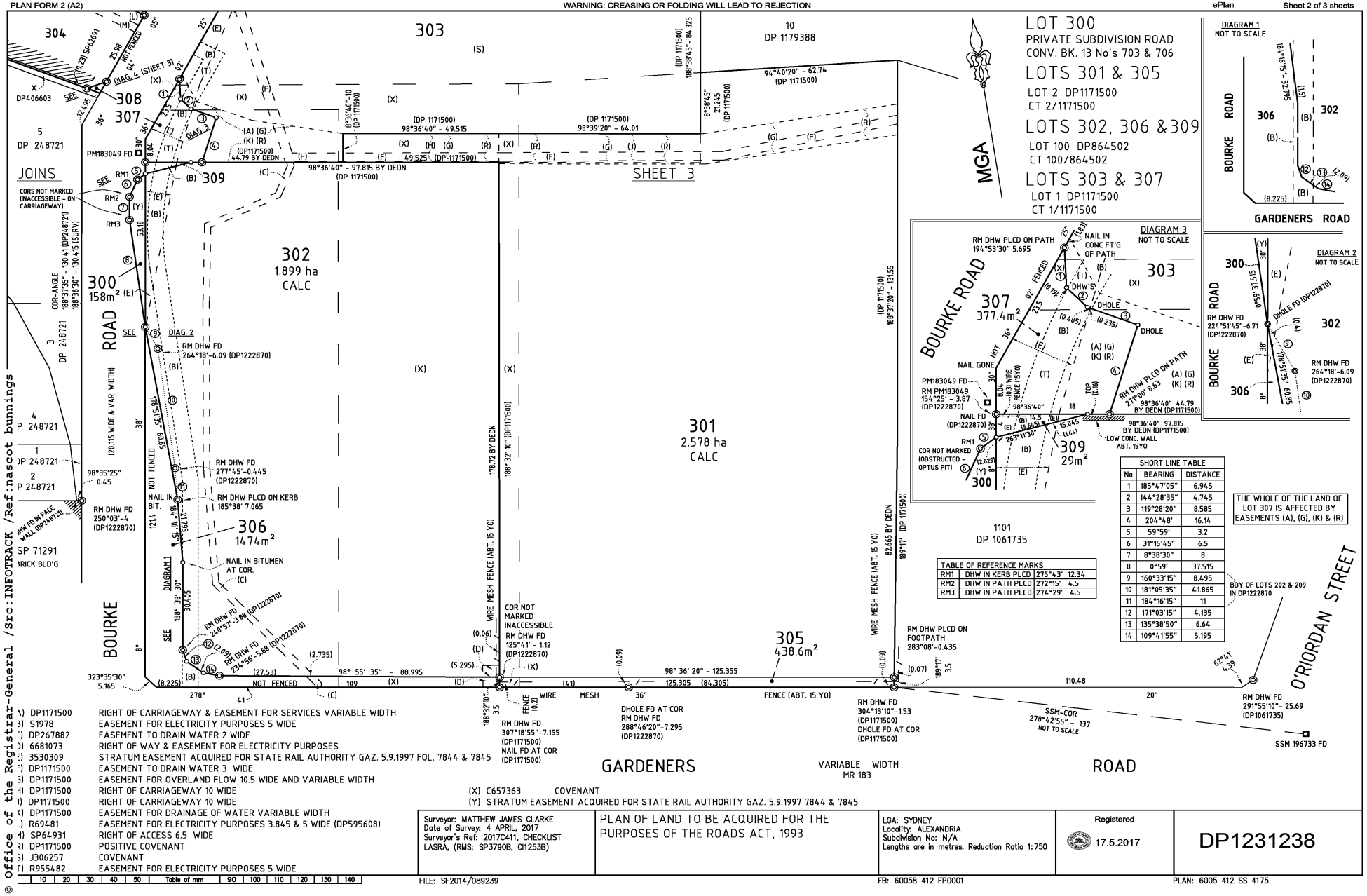
Locality : ALEXANDRIA
Parish : ALEXANDRIA
LGA : SYDNEY
County : CUMBERLAND



Report Generated 3:46:20 PM, 17 January, 2020
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This information is provided as a searching aid only.Whilst every endeavour is made to ensure that current map, plan and titling information is accurately reflected, the Registrar General cannot guarantee the information provided. For ALL ACTIVITY PRIOR TO SEPTEMBER 2002 you must refer to the RGs Charting and Reference Maps

Req:R497363 /Doc:DP 1231238 P /Rev:19-May-2017 /NSW LRS /Pgs:ALL /Prt:17-Jan-2020 15:46 /Seq:2 of 5
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A) DP1171500 RIGHT OF CARRIAGEWAY & EASEMENT FOR SERVICES VARIABLE WIDTH
B) S1978 EASEMENT FOR ELECTRICITY PURPOSES 5 WIDE
C) DP267882 EASEMENT TO DRAIN WATER 2 WIDE
D) 6681073 RIGHT OF WAY & EASEMENT FOR ELECTRICITY PURPOSES
E) 3530309 STRATUM EASEMENT ACQUIRED FOR STATE RAIL AUTHORITY GAZ. 5.9.1997 FOL. 7844 & 7845
F) DP1171500 EASEMENT TO DRAIN WATER 3 WIDE
G) DP1171500 EASEMENT FOR OVERLAND FLOW 10.5 WIDE AND VARIABLE WIDTH
H) DP1171500 RIGHT OF CARRIAGEWAY 10 WIDE
I) DP1171500 RIGHT OF CARRIAGEWAY 10 WIDE
J) DP1171500 EASEMENT FOR DRAINAGE OF WATER VARIABLE WIDTH
K) R69481 EASEMENT FOR ELECTRICITY PURPOSES 3.845 & 5 WIDE (DP595608)
L) SP64931 RIGHT OF ACCESS 6.5 WIDE
M) DP1171500 POSITIVE COVENANT
N) J306257 COVENANT
O) R955482 EASEMENT FOR ELECTRICITY PURPOSES 5 WIDE

(X) C657363 COVENANT
(Y) STRATUM EASEMENT ACQUIRED FOR STATE RAIL AUTHORITY GAZ. 5.9.1997 7844 & 7845

Surveyor: MATTHEW JAMES CLARKE
Date of Survey: 4 APRIL, 2017
Surveyor's Ref: 2017C411, CHECKLIST
LASRA, (RMS: SP3790B, C11253B)

PLAN OF LAND TO BE ACQUIRED FOR THE PURPOSES OF THE ROADS ACT, 1993

LGA: SYDNEY
Locality: ALEXANDRIA
Subdivision No: N/A
Lengths are in metres. Reduction Ratio 1:750

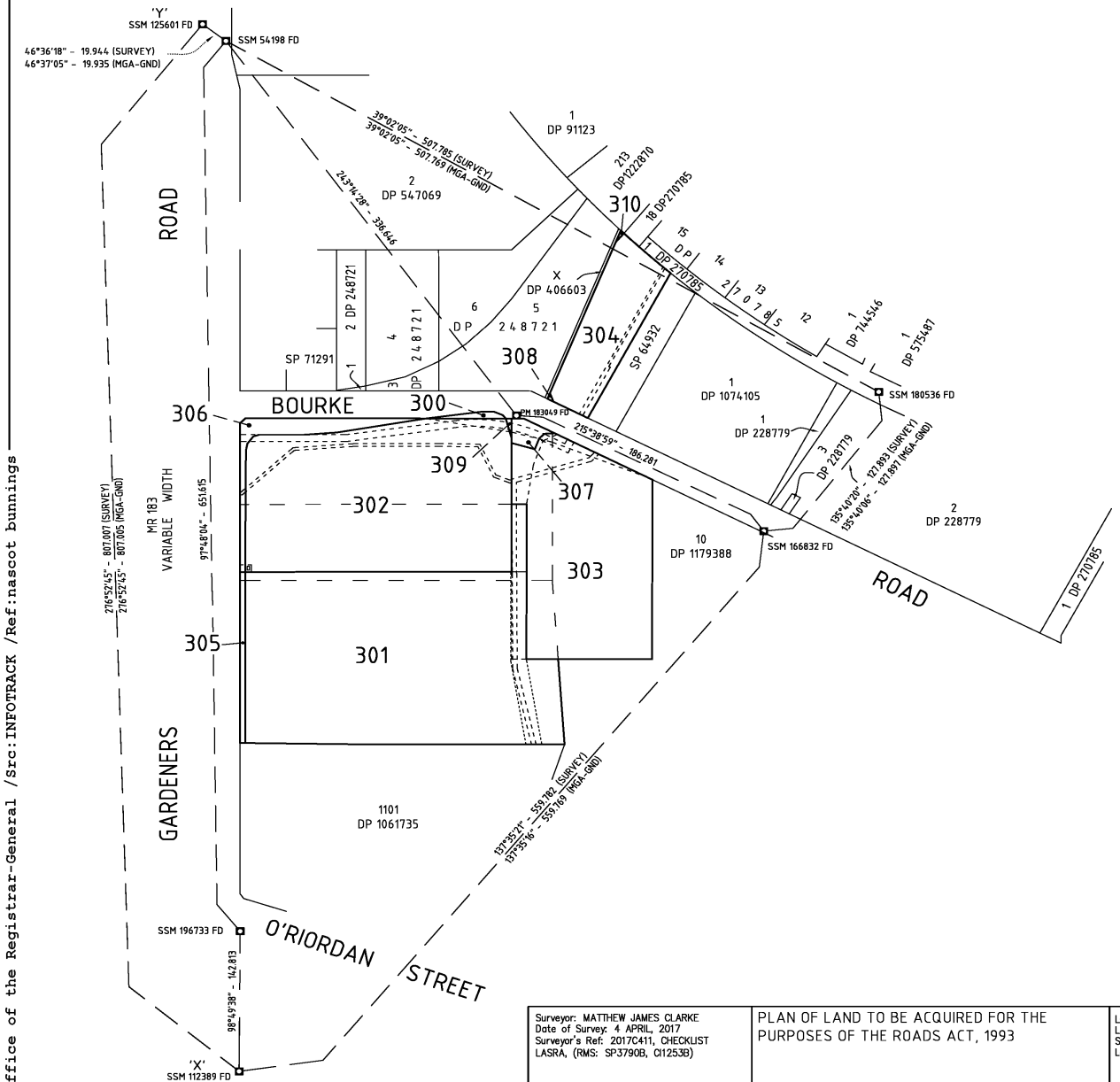
Registered 17.5.2017

DP1231238

FILE: SF2014/089239 FB: 60058 412 FP0001 PLAN: 6005 412 SS 4175

InfoTrack

Req:R497363 /Doc:DP 1231238 P /Rev:19-May-2017 /NSW LRS /Pgs:ALL /Prt:17-Jan-2020 15:46 /Seq:1 of 5
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SURVEYING & SPATIAL INFORMATION REGULATION 2012
CLAUSE 35(1)(B) & CLAUSE 61(2)
MGA COORDINATES (ZONE 56)

MARK	EASTING	NORTHING	CLASS	ORD	METHOD	ORIGIN
SSM 54198	332 216.987	6245 250.381	B	2	SCIMS	SCIMS
SSM 112389	333 003.648	6245 140.034	B	2	SCIMS	SCIMS
SSM 125601	332 202.499	6245 236.689	B	2	SCIMS	SCIMS
SSM 166832	332 626.128	6245 553.294	C	3	SCIMS	SCIMS
SSM 180536	332 536.757	6245 644.775	C	3	SCIMS	SCIMS
SSM 196733	332 863.	6245 162.	U	U	SCIMS	SCIMS
PM 183049	332 518.	6245 401.	U	U	SCIMS	SCIMS

SOURCE: LAND AND PROPERTY INFORMATION (SCIMS) - 7/4/2017
COMBINED SEA LEVEL & SCALE FACTOR 0.999942

SEE SHEETS 2 & 3 FOR DETAIL

10 20 30 40 50 Table of mm 90 100 110 120 130 140

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LGA: SYDNEY
Locality: ALEXANDRIA
Subdivision No: N/A
Lengths are in metres. Reduction Ratio 1:2000

Registered
17.5.2017

DP1231238

FILE: SF2014/089239 FB: 60058 412 FP0001 PLAN: 6005 412 SS 4175

PLAN FORM 2 (A2) | WARNING: CREASING OR FOLDING WILL LEAD TO REJECTION | ePlan | Sheet 3 of 3 sheets

Req:R497363 /Doc:DP 1231238 P /Rev:19-May-2017 /NSW LRS /Pgs:ALL /Prt:17-Jan-2020 15:46 /Seq:3 of 5
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(A) DP1171500	RIGHT OF CARRIAGEWAY & EASEMENT FOR SERVICES VARIABLE WIDTH
(B) S1978	EASEMENT FOR ELECTRICITY PURPOSES 5 WIDE
(C) DP267882	EASEMENT TO DRAIN WATER 2 WIDE
(E) 3530309	STRATUM EASEMENT ACQUIRED FOR STATE RAIL AUTHORITY GAZ. 5.9.1997 FOL. 7844
(F) DP1171500	EASEMENT TO DRAIN WATER 3 WIDE
(G) DP1171500	EASEMENT FOR OVERLAND FLOW 10.5 WIDE AND VARIABLE WIDTH
(H) DP1171500	RIGHT OF CARRIAGEWAY 10 WIDE
(J) DP1171500	RIGHT OF CARRIAGEWAY 10 WIDE
(K) DP1171500	EASEMENT FOR DRAINAGE OF WATER VARIABLE WIDTH
(L) R69481	EASEMENT FOR ELECTRICITY PURPOSES 3.845 & 5 WIDE (DP595608)
(M) SP64931	RIGHT OF ACCESS 6.5 WIDE
(R) DP1171500	POSITIVE COVENANT
(S) J306257	COVENANT
(T) R955482	EASEMENT FOR ELECTRICITY PURPOSES 5 WIDE
(X) C657363	COVENANT

CURVED LINES				
No	BEARING	DISTANCE	ARC	RADIUS
15	(52°41' 50")	(14.07)	(14.07)	717.805
16	51°33'20"	42.720	42.725	717.805

LOTS 303 & 307
LOT 1 IN DP1171500
CT 1/1171500

LOTS 304, 308 & 310
SP62691 (LOT C IN DP347291)
CT CP/SP62691

THE WHOLE OF THE LAND OF LOT 307 IS AFFECTED BY EASEMENTS (A) (G) (K) & (R)

DIAGRAM 5
NOT TO SCALE

DIAGRAM 4
SCALE 1:200

Surveyor: MATTHEW JAMES CLARKE
Date of Survey: 4 APRIL, 2017
Surveyor's Ref: 2017C411, CHECKLIST
LASRA, (RMS: SP3790B, C11253B)

PLAN OF LAND TO BE ACQUIRED FOR THE PURPOSES OF THE ROADS ACT, 1993

LGA: SYDNEY
Locality: ALEXANDRIA
Subdivision No: N/A
Lengths are in metres. Reduction Ratio 1:750

Registered 17.5.2017

DP1231238

FILE: SF2014/089239 | FB: 60058 412 FP0001 | PLAN: 6005 412 SS 4175

Req:R497363 /Doc:DP 1231238 P /Rev:19-May-2017 /NSW LRS /Pgs:ALL /Prt:17-Jan-2020 15:46 /Seq:4 of 5
© Office of the Registrar-General /Src:INFOTRACK /Ref:nascot bunnings

PLAN FORM 6 (2012) **WARNING: Creasing or folding will lead to rejection** ePlan

DEPOSITED PLAN ADMINISTRATION SHEET

Office Use Only

Registered: 17.5.2017

Title System: TORRENS & OLD SYSTEM

Purpose: ROADS ACT,1993

Office Use Only

DP1231238

PLAN OF LAND TO BE ACQUIRED FOR THE PURPOSES OF THE ROADS ACT, 1993.

LGA: SYDNEY

Locality: ALEXANDRIA

Parish: ALEXANDRIA

County: CUMBERLAND

Crown Lands NSW/Western Lands Office Approval

I, ... (Authorised Officer) in approving this plan certify that all necessary approvals in regard to the allocation of the land shown herein have been given.

Signature: .....

Date: .....

File Number: .....

Office: .....

Subdivision Certificate

I, ...

*Authorised Person/*General Manager/*Accredited Certifier, certify that the provisions of s.109J of the *Environmental Planning and Assessment Act 1979* have been satisfied in relation to the proposed subdivision, new road or reserve set out herein.

Signature: .....

Accreditation number: .....

Consent Authority: .....

Date of endorsement: .....

Subdivision Certificate number: .....

File number: .....

*Strike through if inapplicable.

Survey Certificate

I, MATTHEW JAMES CLARKE .....

of LYNTON SURVEYS PTY LTD .....

a surveyor registered under the *Surveying and Spatial Information Act 2002*, certify that:

*(a) The land shown in the plan was surveyed in ~~accordance with the~~ *Surveying and Spatial Information Regulation 2012*, is accurate ~~and the survey~~ was completed on .....

*(b) The part of the land shown in the plan (*being Lots 300, 304 to 310 inclusive and connections .....

.....)

was surveyed in accordance with the *Surveying and Spatial Information Regulation 2012*, is accurate and the survey was completed on, 4 APRIL, 2017 the part not surveyed was compiled in accordance with that Regulation.

*(c) ~~The land shown in this plan was~~ compiled in accordance with the *Surveying and Spatial Information Regulation 2012*.

Signature: ..... Dated: 25/4/2017

Surveyor ID: 8247.....

Datum Line: X- Y .....

Type: *Urban/*~~Rural~~

The terrain is *Level-Undulating /*~~Steep-Mountainous~~

*Strike through if inapplicable.

^Specify the land actually surveyed or specify any land shown in the plan that is not the subject of the survey.

Statements of intention to dedicate public roads, public reserves and drainage reserves.

LOTS 305 TO 310 INCLUSIVE ARE REQUIRED FOR ROAD AND AFTER CONSTRUCTION WILL BE DEDICATED AS PUBLIC ROAD UNDER SECTION 10 OF THE ROADS ACT, 1993.

LOT 300 IS ROAD IN USE WHICH WILL BECOME UNNECESSARY WHEN IT WILL BE ACQUIRED BY THE ROADS AND MARITIME SERVICES AND TRANSFERRED TO THE OWNERS OF THE ADJOINING LAND.

LOTS 301, 302, 304, 305, 306, 308, 309 & 310 SUPERSEDE LOTS 201, 202, 205, 208, 209 & 212, IN DP1222870.

Plans used in the preparation of survey/~~compilation.~~

SP 62691
DP 248721
DP 270785
DP 338072
DP 347291
DP 406603
DP 856809
DP 864502
DP 1171500
DP 1222870

If space is insufficient continue on PLAN FORM 6A

Signatures, Seals and Section 88B Statements should appear on PLAN FORM 6A

Surveyor's Reference: *2017C411 , CHECKLIST, LASRA, (RMS:SP3790B, CI1253B)*

FILE : SF2014/089239 FIELD BOOK: 6005 412 FP 0001 PLAN: 6005 412 SS 4175

Req:R497363 /Doc:DP 1231238 P /Rev:19-May-2017 /NSW LRS /Pgs:ALL /Prt:17-Jan-2020 15:46 /Seq:5 of 5
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PLAN FORM 6A (2012) WARNING: Creasing or folding will lead to rejection ePlan

DEPOSITED PLAN ADMINISTRATION SHEET

Office Use Only

Registered: 17.5.2017

Office Use Only

DP1231238

PLAN OF LAND TO BE ACQUIRED FOR THE PURPOSES OF THE ROADS ACT, 1993.

Subdivision Certificate number: .....

Date of Endorsement: .....

This sheet is for the provision of the following information as required:

- A schedule of lots and addresses - See 60(c) *SSI Regulation 2012*
- Statements of intention to create and release affecting interests in accordance with section 88B *Conveyancing Act 1919*
- Signatures and seals- see 195D *Conveyancing Act 1919*
- Any information which cannot fit in the appropriate panel of sheet 1 of the administration sheets.

Schedule of lots and addresses

Lot	Street number	Street name	Street type	Locality
300	N/A	N/A	N/A	Alexandria
301	506-518	Gardeners	Road	Alexandria
302	520-530	Gardeners	Road	Alexandria
303	506-518	Gardeners	Road	Alexandria
304	79	Bourke	Road	Alexandria

APPROVED

.....

A PRINCIPAL SURVEYOR
ROADS AND MARITIME SERVICES

If space is insufficient use additional annexure sheet

Surveyor's Reference: *2017C411 , CHECKLIST, LASRA, (RMS:SP3790B, CI1253B)*

FILE : SF2014/089239 FIELD BOOK: 6005 412 FP 0001 PLAN: 6005 412 SS 4175

Historical Title

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE
17/1/2020 3:48PM

FOLIO: 1/153878

First Title(s): SEE PRIOR TITLE(S)
Prior Title(s): VOL 6086 FOL 214

Recorded	Number	Type of Instrument	C.T. Issue
5/11/1988		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
8/8/1989		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
7/5/1991	Z576858	TRANSFER	
7/5/1991	Z576859	LEASE	EDITION 1
2/1/1992	E122183	LEASE	EDITION 2
11/10/1993	I705876	CHANGE OF NAME	EDITION 3
15/11/1993	I796120	SURRENDER OF LEASE	EDITION 4
28/4/1994	U189075	LEASE	EDITION 5
28/2/1995	O42087	LEASE	EDITION 6
26/11/1996	2643310	SURRENDER OF LEASE	
3/12/1996	DP864502	DEPOSITED PLAN	FOLIO CANCELLED
3/9/1997		AMENDMENT: LOCAL GOVT AREA	
14/3/2004	AA472866	DEPARTMENTAL DEALING	

*** END OF SEARCH ***

nascot bunnings PRINTED ON 17/1/2020

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Req:R497393 /Doc:DL Z576858 /Rev:30-Jun-2010 /NSW LRS /Pgs:ALL /Prt:17-Jan-2020 15:48 /Seq:1 of 1
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RP 13 STAMP DUTY

B

Z 576858 P

OFFICE OF STATE REVENUE (N.S.W. TREASURY) 1990/91 P19 NO STAMP DUTY IS PAYABLE ON THIS INSTRUMENT

TRANSFER

REAL PROPERTY ACT, 1900

T A 1 of 2 $ 47 R 1/2

Torrens Title Reference	If Part Only, Delete Whole and Give Details	Location
DESCRIPTION OF LAND Note (a)	WHOLE	
Ø Volume 14025 Folio 162 Ø Now being 2/153878 # Volume 6086 Folio 214 # Now being 1/153878		Ph. Alexandria Co. Cumberland

TRANSFEROR Note (b)

GOODMAN FIELDER MILLS LIMITED (formerly Allied Mills Industries Pty Limited)

ESTATE Note (c)

(the abovenamed TRANSFEROR) hereby acknowledges receipt of the consideration of $ 8,700,000.00 and transfers an estate in fee simple in the land above described to the TRANSFEREE

TRANSFEREE Note (d)

GOODMAN FIELDER INDUSTRIES LIMITED
a Company incorporated in Queensland and having its registered Office at 43 Curzon Street, Tennyson

OFFICE USE ONLY S

TENANCY Note (e)

as joint tenants/tenants in common

PRIOR ENCUMBRANCES Note (f)

subject to the following PRIOR ENCUMBRANCES 1. T 783810 2. ..... 3. .....

D

DATE 12 December 1990

We hereby certify this dealing to be correct for the purposes of the Real Property Act, 1900.

EXECUTION Note (g)

~~Signed in my presence by the transferor who is personally known to me~~
THE COMMON SEAL of GOODMAN FIELDER MILLS LIMITED was hereunto affixed by authority of the Board of Directors in the presence of:
~~Signature of Witness~~
~~Name of Witness (BLOCK LETTERS)~~
~~Address and occupation of Witness~~

Secretary

GOODMAN FIELDER MILLS LIMITED Common Seal

Director ~~Signature of Transferor~~

Note (g)

~~Signed in my presence by the transferee who is personally known to me~~
THE COMMON SEAL of GOODMAN FIELDER INDUSTRIES LIMITED was hereunto affixed by authority of the Board of Directors in the presence of:
~~Signature of Witness~~
~~Name of Witness (BLOCK LETTERS)~~
~~Address and occupation of Witness~~
182

Secretary

Common GOODMAN FIELDER INDUSTRIES LIMITED Seal

Director ~~Signature of Transferee~~

TO BE COMPLETED BY LODGING PARTY Notes (h) and (i)

LODGED BY BLAKE DAWSON WALDRON 238 N
Ref:
Delivery Box Number

LOCATION OF DOCUMENTS

CT	OTHER	
	Cert. of Inc.	Herewith copy attached
		In L.T.O. with
		Produced by

OFFICE USE ONLY

Checked	Passed	REGISTERED - - -19
Signed	Extra Fee	7 MAY 1991

Secondary Directions			
Delivery Directions			

Evidence re change of name Applied for

Req:R497396 /Doc:CT 14025-162 CT /Rev:13-Jan-2011 /NSW LRS /Pgs:ALL /Prt:17-Jan-2020 15:49 /Seq:1 of 2
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CERTIFICATE OF TITLE

NEW SOUTH WALES

[redacted] PROPERTY ACT, 1900

Vol. 14025 Fol. 162

EDITION ISSUED

26 2 1980

Appln. No. 32863

Prior Title Vol. 4956 Fol. 207

14025 Fol. 162

(Page 1) Vol.

I certify that the person described in the First Schedule is the registered proprietor of the undermentioned estate in the land within described subject nevertheless to such exceptions encumbrances and interests as are shown in the Second Schedule.

CANCELLED

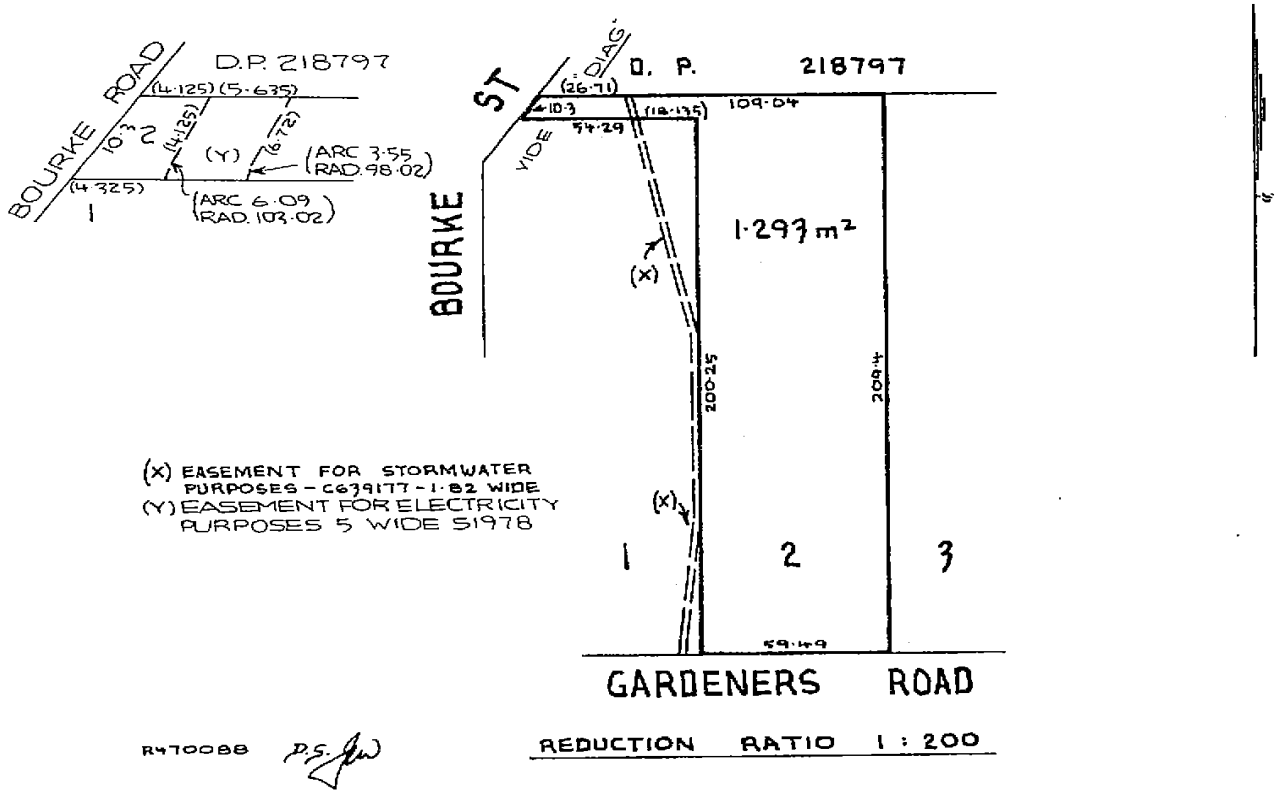
Registrar General.

SEE AUTO FOLIO

PLAN SHOWING LOCATION OF LAND

LENGTHS ARE IN METRES

DIAGRAM
NOT TO SCALE



(X) EASEMENT FOR STORMWATER PURPOSES - C639177 - 1.82 WIDE
(Y) EASEMENT FOR ELECTRICITY PURPOSES 5 WIDE S1978

R470088 P.S.

REDUCTION RATIO 1 : 200

ESTATE AND LAND REFERRED TO

Estate in Fee Simple in Lot 2 in Deposited Plan 153878 in the Municipality of South Sydney Parish of Alexandria and County of Cumberland being part of 566.6 hectares granted to William Hutchinson on 27-5-1823.

FIRST SCHEDULE

ALLIED MILLS INDUSTRIES PTY. LIMITED.

SECOND SCHEDULE

1. Reservations and conditions, if any, contained in the Crown Grant above referred to.
2. C639177P Easement for stormwater purposes affecting the land shown so burdened in the plan hereon.
3. C657363P Covenant.

PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO THIS CERTIFICATE OR ANY NOTIFICATION HEREON

WARNING: THIS DOCUMENT MUST NOT BE REMOVED FROM THE REGISTRAR GENERAL'S OFFICE.

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED

RG 2/62

CT 18 7 8

R974426 LSE 7 ECL

S197870G

C.T. 2.9.8

T785810 Lse P

Vol. 14025 Fol. 162

FIRST SCHEDULE (continued)

REGISTERED PROPRIETOR	INSTRUMENT NATURE	INSTRUMENT NUMBER	REGISTERED	Signature of Registrar General
CANCELLED				
SEE AUTO FOLIO				

SECOND SCHEDULE (continued)

INSTRUMENT NATURE	INSTRUMENT NUMBER	PARTICULARS	REGISTERED	Signature of Registrar General	CANCELLATION	
~~Lease~~	~~R974426~~	~~of sub-station premises No 441 together with a right of way over another part of the land above described, to The Sydney County Council. Expires 1-5-1983.~~	~~29-9-1950.~~		Expired	2-12-1983
Transfer	S197870	Easement for electricity purposes affecting the land shown so burdened in the plan hereon.	29-9-1950.			
T785810P		Lease to The Sydney County Council of Sub-Station premises No.441 as shown in plan with R974426 together with a right of way over another part of the land within described. Expires 1-5-2003. 2-12-1983	Registered			

(Page 2 of 2 pages)

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED

Req:R497396 /Doc:CT 14025-162 CT /Rev:13-Jan-2011 /NSW LRS /Pgs:ALL /Prt:17-Jan-2020 15:49 /Seq:2 of 2
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Historical Title

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE
17/1/2020 3:47PM

FOLIO: 100/864502

First Title(s): OLD SYSTEM
Prior Title(s): 1-2/153878

Recorded	Number	Type of Instrument	C.T. Issue
4/12/1996	DP864502	DEPOSITED PLAN	FOLIO CREATED EDITION 1
11/12/1996	2682244	TRANSFER OF LEASE	
11/12/1996	2682245	TRANSFER	
11/12/1996	2682246	MORTGAGE	EDITION 2
20/12/1996	2709359	REQUEST	EDITION 3
24/12/1996	2720146	CAVEAT	
13/1/1997	2757204	MORTGAGE	
13/1/1997	2757205	POSTPONEMENT OF MORTGAGE	
13/1/1997	2757206	VARIATION OF MORTGAGE	EDITION 4
21/1/1997	2777357	DEPARTMENTAL DEALING	EDITION 5
18/7/1997	DP267882	DEPOSITED PLAN	EDITION 6
4/11/1997	3530309	DEPARTMENTAL DEALING	
6/11/1997	3534982	LEASE	EDITION 7
13/11/1998	5394982	DEPARTMENTAL DEALING	
31/8/2000	6681072	SURRENDER OF LEASE	
31/8/2000	6681073	LEASE	EDITION 8
13/12/2000	DP1015638	DEPOSITED PLAN	
14/3/2004	AA472866	DEPARTMENTAL DEALING	
12/9/2012	AH233775	DISCHARGE OF MORTGAGE	
12/9/2012	AH233776	DISCHARGE OF MORTGAGE	
12/9/2012	AH233777	MORTGAGE	EDITION 9
28/6/2014	AI702528	APPLICATION FOR REPLACEMENT CERTIFICATE OF TITLE	EDITION 10
25/7/2014	AI761079	LEASE	EDITION 11

END OF PAGE 1 - CONTINUED OVER

SEARCH DATE
17/1/2020 3:47PM

FOLIO: 100/864502 PAGE 2

Recorded	Number	Type of Instrument	C.T. Issue
19/3/2015	AJ327884	DEPARTMENTAL DEALING	
23/3/2015	AJ71566	CHANGE OF NAME	
8/5/2015	AJ464566	DISCHARGE OF MORTGAGE	
8/5/2015	AJ464567	SURRENDER OF LEASE	
8/5/2015	AJ464568	LEASE	
8/5/2015	AJ464569	MORTGAGE	EDITION 12
11/8/2015	AJ537019	DEPARTMENTAL DEALING	
11/8/2015	AJ720610	DEPARTMENTAL DEALING	EDITION 13
15/8/2016	DP1222870	DEPOSITED PLAN	
2/9/2016	AK668913	REQUEST	
28/2/2017	AK971351	LEASE	
28/2/2017	AK971352	SUB-LEASE	
28/2/2017	AK971502	MORTGAGE OF LEASE	
28/2/2017	AK971571	CHANGE OF NAME	
28/2/2017	AM136502	DEPARTMENTAL DEALING	
17/5/2017	DP1231238	DEPOSITED PLAN	
20/6/2017	AM483384	REQUEST	
20/7/2017	AM580829	DEPARTMENTAL DEALING	
21/7/2017	AM574272	REQUEST	FOLIO CANCELLED

*** END OF SEARCH ***

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Req:R497385 /Doc:DL 2682245 /Rev:27-Jan-2010 /NSW LRS /Pgs:ALL /Prt:17-Jan-2020 15:47 /Seq:1 of 1
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97-01T

TRANSFER

Real Property Act, 1900

2682245 H

Office

25/11/1996 $2.00 994002259 14
63052 1/153878 (2) TFR
GF FINANCE LTD-SOUTH SYDNEY CENTR 057622
$5300000.00 $0.00 566

(A) **LAND TRANSFERRED**

Show no more than 20 References to Title.
If appropriate, specify the share transferred.

1/153878
2/153878 } now being 100/864502

(B) **LODGED BY**

L.T.O. Box	Name, Address or DX and Telephone
646W.	NORTON SMITH & CO REFERENCE (max. 15 characters): 962447 KAF

(C) **TRANSFEROR** GF FINANCE LIMITED
ACN 009 979 471

(D) acknowledges receipt of the consideration of $5,300,000.00
and as regards the land specified above transfers to the Transferee an estate in fee simple

(E) subject to the following **ENCUMBRANCES** 1. T785810 2. U189075 3.

(F) **TRANSFEREE**

T TS (s713 LGA) TW (Sheriff)	SOUTH SYDNEY CENTRAL PTY LIMITED ACN 072 087 024

(G) **TENANCY:**

(H) We certify this dealing correct for the purposes of the Real Property Act, 1900. **DATED** 9 December 1996

Signed in my presence by the Transferor who is personally known to me.

THE COMMON SEAL OF GF FINANCE LIMITED WAS HEREUNTO AFFIXED BY THE AUTHORITY OF THE BOARD OF DIRECTORS IN THE PRESENCE OF:

GF FINANCE LIMITED A.C.N. 009 979 471 Common Seal

Signature of Witness

R.G. SHAPLAND
Name of Witness (BLOCK LETTERS)

10 Doolette St Concord 2137
Address of Witness

SECRETARY / DIRECTOR
Signature of Transferor

JOHN E HARTIGAN IAN M GILMOUR

Signed in my presence by the Transferee who is personally known to me.

Signature of Witness

Name of Witness (BLOCK LETTERS)

Address of Witness

Signature of Transferee's solicitor

INSTRUCTIONS FOR FILLING OUT THIS FORM ARE AVAILABLE FROM THE LAND TITLES OFFICE

CHECKED BY (office use only)

Ausdoc Commercial and Law Stationers 1991

B + B c K

Historical Title

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE
17/1/2020 3:48PM

FOLIO: 2/153878

First Title(s): SEE PRIOR TITLE(S)
Prior Title(s): VOL 14025 FOL 162

Recorded	Number	Type of Instrument	C.T. Issue
21/8/1988		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
20/2/1989		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
7/5/1991	Z576858	TRANSFER	
7/5/1991	Z576859	LEASE	EDITION 1
2/1/1992	E122183	LEASE	EDITION 2
21/10/1993	I735308	CHANGE OF NAME	EDITION 3
15/11/1993	I796120	SURRENDER OF LEASE	EDITION 4
28/4/1994	U189075	LEASE	EDITION 5
28/2/1995	O42087	LEASE	EDITION 6
26/11/1996	2643310	SURRENDER OF LEASE	
3/12/1996	DP864502	DEPOSITED PLAN	FOLIO CANCELLED
3/9/1997		AMENDMENT: LOCAL GOVT AREA	
14/3/2004	AA472866	DEPARTMENTAL DEALING	

*** END OF SEARCH ***

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Historical Title

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE
17/1/2020 3:47PM

FOLIO: 302/1231238

First Title(s): OLD SYSTEM
Prior Title(s): 100/864502

Recorded	Number	Type of Instrument	C.T. Issue
17/5/2017	DP1231238	DEPOSITED PLAN	LOT RECORDED FOLIO NOT CREATED
21/7/2017	AM574272	REQUEST	FOLIO CREATED CT NOT ISSUED

*** END OF SEARCH ***

nascot bunnings PRINTED ON 17/1/2020

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LAND REGISTRY SERVICES Title Search

NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: 302/1231238

SEARCH DATE	TIME	EDITION NO	DATE
17/1/2020	3:46 PM	-	-

CERTIFICATE OF TITLE HAS NOT ISSUED

LAND

LOT 302 IN DEPOSITED PLAN 1231238
AT ALEXANDRIA
LOCAL GOVERNMENT AREA SYDNEY
PARISH OF ALEXANDRIA COUNTY OF CUMBERLAND
TITLE DIAGRAM DP1231238

FIRST SCHEDULE

SOUTH SYDNEY CENTRAL PTY LIMITED

SECOND SCHEDULE (8 NOTIFICATIONS)

---

1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)

* 2 C657363 COVENANT AFFECTING THE PART SHOWN SO BURDENED IN THE TITLE DIAGRAM.

* 3 S1978 EASEMENT FOR ELECTRICITY PURPOSES 5 WIDE AFFECTING THE PART SHOWN SO BURDENED IN THE TITLE DIAGRAM

* 4 DP267882 EASEMENT TO DRAIN WATER 2 WIDE AFFECTING THE PART SHOWN SO BURDENED IN THE TITLE DIAGRAM

* 5 DP267882 POSITIVE COVENANT

* 6 6681073 LEASE TO AUSGRID (SEE AJ71566) OF SUBSTATION NO 2999 TOGETHER WITH RIGHT OF WAY & EASEMENT FOR ELECTRICITY PURPOSES OVER ANOTHER PART OF THE LAND ABOVE DESCRIBED SHOWN IN PLAN WITH 6681073. EXPIRES: 31/8/2047.

* AK971351 LEASE OF LEASE 6681073 TO BLUE ASSET PARTNER PTY LTD, ERIC ALPHA ASSET CORPORATION 1 PTY LTD, ERIC ALPHA ASSET CORPORATION 2 PTY LTD, ERIC ALPHA ASSET CORPORATION 3 PTY LTD & ERIC ALPHA ASSET CORPORATION 4 PTY LTD EXPIRES: SEE DEALING. CLAUSE 2.3 (b) (ii).

* AK971352 LEASE OF LEASE AK971351 TO BLUE OP PARTNER PTY LTD, ERIC ALPHA OPERATOR CORPORATION 1 PTY LTD, ERIC ALPHA OPERATOR CORPORATION 2 PTY LTD, ERIC ALPHA OPERATOR CORPORATION 3 PTY LTD & ERIC ALPHA OPERATOR CORPORATION 4 PTY LTD EXPIRES: SEE DEALING. CLAUSE 12.1

* AK971502 MORTGAGE OF LEASE AK971351 TO ANZ FIDUCIARY

END OF PAGE 1 - CONTINUED OVER

SECOND SCHEDULE (8 NOTIFICATIONS) (CONTINUED)

SERVICES PTY LTD

* AK971571 CHANGE OF NAME AFFECTING LEASE 6681073 LESSEE NOW ALPHA DISTRIBUTION MINISTERIAL HOLDING CORPORATION

* 7 AJ464568 MORTGAGE TO WESTPAC BANKING CORPORATION

* 8 AJ464569 LEASE TO BUNNINGS GROUP LIMITED EXPIRES: 28/2/2025. OPTION OF RENEWAL: 5 YEARS WITH ONE FURTHER OPTION OF 5 YEARS.

NOTATIONS

CERTIFICATE OF TITLE NOT ISSUED. LODGED DEALINGS MUST BE ACCOMPANIED BY PRIOR CERTIFICATE OF TITLE 100/864502 (EDITION 13)

UNREGISTERED DEALINGS: DD AM585645.

*** END OF SEARCH ***

* Any entries preceded by an asterisk do not appear on the current edition of the Certificate of Title. Warning: the information appearing under notations has not been formally recorded in the Register. InfoTrack an approved NSW Information Broker hereby certifies that the information contained in this document has been provided electronically by the Registrar General in accordance with Section 96B(2) of the Real Property Act 1900.

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Appendix G Borelogs

SB1

Project Number: 58167
Client: Charter Hall
Project Name: Mascot DD
Site Address: 520-530 Gardeners Rd. Mascot

Date: 24/01/2020
Logged By: JDC
Contractor: Terratest
Total Hole Depth (mbgs): 3
Bore Diameter (mm): 50

Eastings (GDA 94):
Northings (GDA 94):
Zone/Area/Permit#:
Reference Level:
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Solid Flight Auger				Fill	Fill- Asphalt		
		0.10		Fill	Silty sand, brown/grey, heterogeneous, very fine, loose	SB1 0.2-0.3 PID = 1.8 ppm	No Odours, Staining or Asbestos
	0.5					SB1 0.5-0.6 PID = 2.3 ppm	No Odours, Staining or Asbestos
	1.0	1.00		SM-SC	Silty clayey sand, brown/grey, homogeneous, increasing moisture with depth	SB1 1.0-1.1 PID = 1.9 ppm	No Odours, Staining or Asbestos
	1.5						
	2.0					SB1 2.0-2.1 PID = 3.8 ppm	No Odours, Staining or Asbestos
	2.5						
	3.0	3.00			Borehole SB1 terminated at 3m	SB1 3.0-3.1 PID = 4.2 ppm	No Odours, Staining or Asbestos

SB2

Project Number: 58167
Client: Charter Hall
Project Name: Mascot DD
Site Address: 520-530 Gardeners Rd. Mascot

Date: 24/01/2020
Logged By: JDC
Contractor: Terratest
Total Hole Depth (mbgs): 3
Bore Diameter (mm): 50

Eastings (GDA 94):
Northings (GDA 94):
Zone/Area/Permit#:
Reference Level:
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Solid Flight Auger				Fill	Fill- Asphalt		
		0.10		Fill	Fill- Reworked clayey silty sand, grey/light brown, very loose, very fine, heterogeneous, dry, with inclusions of brick, concrete, roadbase and sandstone gravels	SB2 0.2-0.3 PID = 5.8 ppm	No Odours, Staining or Asbestos
	0.5					SB2 0.5-0.6 PID = 4.2 ppm	No Odours, Staining or Asbestos
		0.80		Fill	Fill- Old concrete slab		
	1.0						
		1.00		Fill	Fill- Reworked silty clayey sand, dark brown, with inclusions of concrete and sandstone	SB2 1.0-1.1 PID = 1.8 ppm	No Odours, Staining or Asbestos
	1.5						
		1.80		SC-SM	Clayey silty sand, dark brown, homogeneous, very fine, firm		
	2.0					SB2 2.0-2.1 PID = 2.9 ppm	No Odours, Staining or Asbestos
	2.5						
	3.0						
		3.00			Borehole SB2 terminated at 3m	SB2 3.0-3.1 PID = 3.2 ppm	No Odours, Staining or Asbestos

SB3

Project Number: 58167
Client: Charter Hall
Project Name: Mascot DD
Site Address: 520-530 Gardeners Rd. Mascot

Date: 24/01/2020
Logged By: JDC
Contractor: Terratest
Total Hole Depth (mbgs): 3
Bore Diameter (mm): 50

Eastings (GDA 94):
Northings (GDA 94):
Zone/Area/Permit#:
Reference Level:
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Solid Flight Auger				Fill	Fill- Roadbase		
		0.10		Fill	Fill- Reworked clayey silty sand, yellow, with inclusions of pebbles, bitumen and sandstone fragments	SB3 0.2-0.3 PID = 5.3 ppm	No Odours, Staining or Asbestos
		0.30		Fill	Fill- Reworked silty clayey sand, black/grey/white, heterogeneous, with inclusions of gravel and sandstone		
	0.5					SB3 0.5-0.6 PID = 5.4 ppm	No Odours, Staining or Asbestos
	1.0	1.00		SC-SM	Clayey silty sand, light brown, homogeneous, very fine, firm	SB3 1.0-1.1 PID = 6.2 ppm	No Odours, Staining or Asbestos
	1.5						
	2.0					SB3 2.0-2.1 PID = 5 ppm	No Odours, Staining or Asbestos
	2.5						
	3.0						
		3.00			Borehole SB3 terminated at 3m	SB3 3.0-3.1 PID = 4 ppm	No Odours, Staining or Asbestos

SB4

Project Number: 58167
Client: Charter Hall
Project Name: Mascot DD
Site Address: 520-530 Gardeners Rd. Mascot

Date: 24/01/2020
Logged By: JDC
Contractor: Terratest
Total Hole Depth (mbgs): 3
Bore Diameter (mm): 50

Eastings (GDA 94):
Northings (GDA 94):
Zone/Area/Permit#:
Reference Level:
Elevation (m):

Method	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Solid Flight Auger				Fill	Fill- Asphalt		
		0.10		Fill	Fill- Reworked clayey silty sand, brown/white, heterogeneous, dry, very loose, very fine, with inclusions of gravels, brick, concrete	SB4 0.2-0.3 PID = 1.8 ppm	No Odours, Staining or Asbestos
	0.5					SB4 0.5-0.6 PID = 2 ppm	No Odours, Staining or Asbestos
	1.0					SB4 1.0-1.1 PID = 1.6 ppm	No Odours, Staining or Asbestos
	1.5						
		1.70		SM-SC	Silty clayey sand, light brown, homogeneous, very fine, damp, firm	SB4 1.8-1.9 PID = 1.7 ppm	No Odours, Staining or Asbestos
	2.0						
	2.5						
	3.0						
		3.00			Borehole SB4 terminated at 3m	SB4 3.0-3.1 PID = 2 ppm	No Odours, Staining or Asbestos

MW1

Project Number: 58167
Client: Charter Hall
Project Name: Mascot DD
Site Address: 520-530 Gardeners Rd. Mascot

Date: 24/01/2020
Logged By: JDC
Contractor: Terratest
Total Hole Depth (mbgs): 5
Bore Diameter (mm): 50

Eastings (GDA 94):
Northings (GDA 94):
Zone/Area/Permit#:
Reference Level:
Elevation (m):

Water Level Initial (mbgs): 3
Surface Finish: Gatic
Casing / Screen Type: Class 18 PVC - 50mm
Casing Bottom Depth (mbgs): 2
Screen Bottom Depth (mbgs): 5

Method	Depth (mbgs)	Contact (mbgs)	Lithological Class	Lithological Description	Samples / Tests / Remarks	Additional Observations
Solid Flight Auger			Fill	Fill- Asphalt		
		0.10	Fill	Fill- Reworked silty clayey sand, brown, heterogeneous, with inclusions of sandstone cobbles, brick, concrete and road bitumen	MW1 0.1-0.2 PID = 0 ppm	No Odours, Staining or Asbestos
	0.5					
		0.80	Fill	Fill- Reworked silty clayey sand, black, heterogeneous with inclusions of bitumen, brick, sandstone cobbles and gravels		
	1.0				MW1 1.0-1.1 PID = 1.2 ppm	No Odours, Staining or Asbestos
		1.20	SC-SM	Clayey silty sand, dark grey, homogeneous, very fine, firm, increasing moisture with depth		
	1.5					
	2.0				MW1 2.0-2.1 PID = 1.7 ppm	No Odours, Staining or Asbestos
	2.5					
	3.0				MW1 3.0-3.1 PID = 0.6 ppm	No Odours, Staining or Asbestos
	3.5					
	4.0				MW1 4.0-4.1 PID = 0.8 ppm	No Odours, Staining or Asbestos
	4.5					
	5.0					
		5.00		Borehole MW1 terminated at 5m	MW1 5.0-5.1 PID = 1.1 ppm	No Odours, Staining or Asbestos

WELL JBSG WELL - 2017.GPJ GINT STD AUSTRALIA.GDT 29/1/20

MW2

Project Number: 58167
Client: Charter Hall
Project Name: Mascot DD
Site Address: 520-530 Gardeners Rd. Mascot

Date: 24/01/2020
Logged By: JDC
Contractor: Terratest
Total Hole Depth (mbgs): 5
Bore Diameter (mm): 50

Eastings (GDA 94):
Northings (GDA 94):
Zone/Area/Permit#:
Reference Level:
Elevation (m):

Water Level Initial (mbgs): 3
Surface Finish: Gatic
Casing / Screen Type: Class 18 PVC - 50mm
Casing Bottom Depth (mbgs): 2
Screen Bottom Depth (mbgs): 5

Method	Water (mbgs)	Well Details	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Solid Flight Auger						Fill	Fill- Concrete		
				0.18		Fill	Fill- Reworked clayey sand, brown, heterogeneous, with inclusions of roadbase, concrete and sandstone gravels	MW2 0.2-0.3 PID = 0 ppm	No Odours, Staining or Asbestos
			0.5					MW2 0.5-0.6 PID = 1.6 ppm	No Odours, Staining or Asbestos
			1.0					MW2 1.0-1.1 PID = 2 ppm	No Odours, Staining or Asbestos
			1.5	1.50		SC-SM	Clayey silty sand, grey, very fine, firm, increasing moisture with depth		
			2.0					MW2 2.0-2.1 PID = 1.6 ppm	No Odours, Staining or Asbestos
	▼		2.5						
			3.0					MW2 3.0-3.1 PID = 3.5 ppm	No Odours, Staining or Asbestos
			3.5						
			4.0					MW2 4.0-4.1 PID = 0.3 ppm	No Odours, Staining or Asbestos
			4.5						
			5.0						
				5.00			Borehole MW2 terminated at 5m	MW2 5.0-5.1 PID = 1.8 ppm	No Odours, Staining or Asbestos

MW3

Project Number: 58167
Client: Charter Hall
Project Name: Mascot DD
Site Address: 520-530 Gardeners Rd. Mascot

Date: 24/01/2020
Logged By: JDC
Contractor: Terratest
Total Hole Depth (mbgs): 5
Bore Diameter (mm): 50

Eastings (GDA 94):
Northings (GDA 94):
Zone/Area/Permit#:
Reference Level:
Elevation (m):

Water Level Initial (mbgs): 4
Surface Finish: Gatic
Casing / Screen Type: Class 18 PVC - 50mm
Casing Bottom Depth (mbgs): 2
Screen Bottom Depth (mbgs): 5

Method	Depth (mbgs)	Contact (mbgs)	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Solid Flight Auger			Fill	Fill- Asphalt		
		0.10	Fill	Fill- Roadbase, brown, with inclusions of sandstone cobbles, brick, gravel		
		0.20	Fill	Fill- Reworked sandy clay, black/brown, inclusions of brick, bitumen and sandstone	MW3 0.2-0.3 PID = 13.1 ppm	No Odours, Staining or Asbestos
	0.5	0.50	SW	Sand, grey, firm, very fine, increasing moisture with depth	MW3 0.5-0.6 PID = 13.8 ppm	No Odours, Staining or Asbestos
	1.0				MW3 1.0-1.1 PID = 10.7 ppm	No Odours, Staining or Asbestos
	1.5					
	2.0				MW3 2.0-2.1 PID = 12.4 ppm	No Odours, Staining or Asbestos
	2.5					
	3.0				MW3 3.0-3.1 PID = 10.2 ppm	No Odours, Staining or Asbestos
	3.5					
	4.0					
	4.5					
	5.0	5.00		Borehole MW3 terminated at 5m		

WELL_JBSG WELL - 2017.GPJ GINT STD AUSTRALIA.GDT 29/1/20

MW4

Project Number: 58167
Client: Charter Hall
Project Name: Mascot DD
Site Address: 520-530 Gardeners Rd. Mascot

Date: 24/01/2020
Logged By: JDC
Contractor: Terratest
Total Hole Depth (mbgs): 5
Bore Diameter (mm): 50

Eastings (GDA 94):
Northings (GDA 94):
Zone/Area/Permit#:
Reference Level:
Elevation (m):

Water Level Initial (mbgs): 0
Surface Finish: Gatic
Casing / Screen Type: Class 18 PVC - 50mm
Casing Bottom Depth (mbgs): 2
Screen Bottom Depth (mbgs): 5

Method	Water (mbgs)	Well Details	Depth (mbgs)	Contact (mbgs)	Graphic Log	Lithological Class	Lithological Description	Samples Tests Remarks	Additional Observations
Solid Flight Auger	▼					Fill	Fill- Asphalt		
				0.10		Fill	Fill- silty clayey sand, brown, heterogeneous, dry, with inclusions of broken up bitumen, roadbase, sandstone cobbles and gravels	MW4 0.4-0.5 PID = 0.5 ppm	No Odours, Staining or Asbestos
			0.5						
				0.70		Fill	Fill- Old concrete slab		
				0.90		Fill	Fill- Clayey silty sand, black, fine, firm, heterogeneous, with inclusions of road gravel	MW4 1.0-1.1 PID = 0.6 ppm	No Odours, Staining or Asbestos
			1.0						
			1.5	1.50		SC-SM	Clayey silty sand, black, homogeneous, firm, fine		
			2.0					MW4 2.0-2.1 PID = 1 ppm	No Odours, Staining or Asbestos
			2.5						
			3.0					MW4 3.0-3.1 PID = 0.3 ppm	No Odours, Staining or Asbestos
			3.5						
			4.0					MW4 4.0-4.1 PID = 0.5 ppm	No Odours, Staining or Asbestos
			4.5						
			5.0						
				5.00			Borehole MW4 terminated at 5m	MW4 5.0-5.1 PID = 0.8 ppm	No Odours, Staining or Asbestos

MW5

Project Number: 58167
Client: Charter Hall
Project Name: Mascot DD
Site Address: 520-530 Gardeners Rd. Mascot

Date: 24/01/2020
Logged By: JDC
Contractor: Terratest
Total Hole Depth (mbgs): 5
Bore Diameter (mm): 50

Eastings (GDA 94):
Northings (GDA 94):
Zone/Area/Permit#:
Reference Level:
Elevation (m):

Water Level Initial (mbgs): 3
Surface Finish: Gatic
Casing / Screen Type: Class 18 PVC - 50mm
Casing Bottom Depth (mbgs): 1.5
Screen Bottom Depth (mbgs): 5

Method	Depth (mbgs)	Contact (mbgs)	Lithological Class	Lithological Description	Samples / Tests / Remarks	Additional Observations
Solid Flight Auger	0		Fill	Fill- Concrete slab		
		0.20	Fill	Fill- Reworked clayey silty sand, heterogeneous, with inclusions of slag, concrete, brick	MW5 0.2-0.3 PID = 1.8 ppm	No Odours, Staining or Asbestos
	0.5				MW5 0.5-0.6 PID = 2.3 ppm	No Odours, Staining or Asbestos
	1.0	1.00	SM-SC	Silty clayey sand, brown/grey, homogeneous, increasing moisture with depth	MW5 1.0-1.1 PID = 5.2 ppm	No Odours, Staining or Asbestos
	1.5					
	2.0				MW5 2.0-2.1 PID = 1 ppm	No Odours, Staining or Asbestos
	2.5					
	3.0				MW5 3.0-3.1 PID = 2 ppm	No Odours, Staining or Asbestos
	3.5					
	4.0				MW5 4.0-4.1 PID = 0.9 ppm	No Odours, Staining or Asbestos
	4.5					
	5.0	5.00		Borehole MW5 terminated at 5m	MW5 5.0-5.1 PID = 1.3 ppm	No Odours, Staining or Asbestos

Appendix H Field Records

Multi Parameter Water Meter

airmet
Air-Met Scientific Pty Ltd
1300 137 067

Instrument YSI Quatro Pro Plus
Serial No. 11E101629

Item	Test	Pass	Comments
Battery	Charge Condition	✓	
	Fuses	✓	
	Capacity	✓	
Switch/keypad	Operation	✓	
Display	Intensity	✓	
	Operation (segments)	✓	
Grill Filter	Condition	✓	
	Seal	✓	
PCB	Condition	✓	
Connectors	Condition	✓	
Sensor	1. pH	✓	
	2. mV	✓	
	3. EC	✓	
	4. D.O	✓	
	5. Temp	✓	
Alarms	Beeper		
	Settings		
Software	Version		
Data logger	Operation		
Download	Operation		
Other tests:			

Certificate of Calibration

This is to certify that the above instrument has been calibrated to the following specifications:

Sensor	Serial no	Standard Solutions	Certified	Solution Bottle Number	Instrument Reading
1. pH 10.00		pH 10.00		330738	pH 9.55
2. pH 7.00		pH 7.00		330737	pH 6.88
3. pH 4.00		pH 4.00		330734	pH 4.18
4. mV		227.4mV		337308/338782	227.6mV
5. EC		2.76mS		333787	2.74mS
6. Temp		23°C		MultiTherm	23.3°C
7. DO		0.00ppm		329994	0.02ppm

Calibrated by: Sarah Lian

Calibration date: 23/01/2020

Next calibration due: 22/02/2020

Field Reporting Cover Sheet

PROJECT NAME: Mascot	**PROJECT NO:** 58167
FIELD WORK DATES: 25/01/20	**PROJECT MANAGER:** CB
FIELD STAFF: MN	
WEATHER: sunny	
PROPOSED WORKS: GME	

SUMMARY OF FIELD WORK:	Groundwater sample MW1 - - - MW5 Peripump PID wells
IMPORTANT OUTCOMES TO NOTE:	QA/QC @ MW1 wells all were smelly (~~smelly~~ swampy/sulfur)

SAMPLING SUMMARY	
DATE SAMPLES SENT: 28/01/20	COC COMPLETED AND SENT? ☑ YES ☐ NO
PRIMARY LAB: Eurofins	SECONDARY LAB: Envirolab

POST FIELD WORK CHECKLIST	
☑ COC	☑ Site map updated and attached
☑ Field data sheets attached *e.g. bore logs, well monitoring forms, sampling forms*	☑ Calibration and decontamination sheets attached ☑ Photos downloaded to project file
☑ Field notes attached	☐ Field Audit Checklist completed
☑ Electronic bore logs completed and checked	☐ Equipment cleaned and returned as required

OUTSTANDING ACTIONS:

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Field Equipment Calibration and Decontamination

PROJECT NAME: Mascot	**PROJECT NO:** 5
FIELDWORK DATES: 25/01/20	**SAMPLERS:** MN
TYPE OF INVESTIGATION: GME	**PROJECT MANAGER:** CB

CALIBRATION SUMMARY

EQUIPMENT: - Water quality meter Sheet attached - PID
CALIBRATION STANDARD: 100 ppm isobutylene

DATE	TIME	READING (ppm)	COMMENTS
24/01/20	7:00	0	Zero Calibration
↓	7:01	100.4	100 ppm isobutylene
	7:02	100.1	bump test
25/01/20	7:00	0	Zero Calibration
	7:01	100.3	100 ppm isobutylene
	7:02	100.1	bump test

DECONTAMINATION SUMMARY

EQUIPMENT: Interface probe

1	Was the equipment decontaminated appropriately prior to sampling at each location?	(Y)	N	NA
2	Was excess soil removed by scraping, brushing or wiping with disposable towels?	(Y)	N	NA
3	Was the equipment contaminated with grease, tar or similar material?	Y	(N)	NA
	If so, was the equipment steam cleaned or rinsed with pesticide-grade acetone:hexane?	Y	N	NA
4	Was phosphate-free detergent used to wash the equipment?	(Y)	N	NA
5	Was the equipment rinsed with clean water?	(Y)	N	NA
6	Was the equipment then rinsed with deionised water?	(Y)	N	NA
7	Were all sample containers cleaned and acid or solvent washed prior to sample collection?	Y	N	(NA)

WERE ANY ADDITIONAL DECONTAMINATION MEASURES REQUIRED? PROVIDE DETAILS

new pair of nitrile gloves & tubing used for every well

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Groundwater Sampling Form

PROJECT NAME:	Gardners Rd, ~~Alkem~~ Mallot	**PROJECT NO:**	
SAMPLING DATES:	25/1/20	**SAMPLERS:**	MN
TYPE OF INVESTIGATION:	GME	**PROJECT MANAGER:**	CB
WELL ID:	MW1	**WEATHER:**	Overcast

Casing Diameter (mm):	50	**Depth to NAPL (mBTOC):**	
Well Completion:	Flush Mount / Monument	**Depth to SWL (mBTOC):**	2.525
Well Cap Type:	Locking Cap / PVC / Other	**NAPL Thickness (m):**	
Well Condition:	Good / Compromised	**Depth to EoH (mbtoc):**	5.02
Calculated Well Volume (L):	4.99	**Water Column Depth (m):**	2.495
Sampling Method:		**NAPL Visually Verified?**	
Purge Volume	4 Casings Vol. (L)	PID	10.3
Low Flow	Pump Submersion depth (mBTOC)		

TIME	VOLUME PURGED L	DSSOLVED OXYGEN ☐ % ☑ mgL/ppm	TEMP °C	pH pH units	EC µS/cm	ORP mV	Comments Inc SWL for low flow (mBTOC)
7:00		0.65	23.7	7.90	505	-98.6	
7:03		0.35	23.3	7.82	503	-105.6	
7:06		0.36	23.2	7.81	498.5	-108.7	
7:10		0.37	23.2	7.80	496.2	-112.3	
7:12		0.37	23.2	7.80	494.8	-114.7	
							2.53
		A QA/QC					
Acceptable Variations*		+/-10%	+/- 0.2 °C	+/-0.05 pH	+/-3%	+/-10mV	Results Acceptable: YES / NO

LOW FLOW: Typical flow rate = 0.2- 0.4 L/min - Max. drawdown = 0.1 m - Well stable when 3 consecutive readings (either 3min apart or 1L apart)

PURGE: Min. sampling volume is 4 casing volumes or dry twice - 1 casing volume (50mm wells) = 2 L/m - 1 casing volume (100mm wells) = 8 L/m

Clarity:	slight turbid	**Sheen:**	YES / (NO)
Colour:	sulfur / swampy brownish	**Odour:**	(YES) / NO

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Primary sample ID:	~~QA~~ MW1	**No.**	**Container / Preservative**
Duplicate sample:	YES / NO ID: QA		Vials, large Amber, heavy metals
Triplicate sample:	YES / NO ID: QC		↓
Rinsate sample:	YES / NO ID:		
Sample on ice:	YES / NO		
Field Filter Method:	0.45µm filter / not filtered		
Water Quality Metre:	~~MS~~ ~~YSI~~ 11E	101629	
Gauging Equipment:			
Pump Type:	Peri		
NOTES:			

*Calculated Well Volume (L) = Water Column Depth (m) * Conversion Factor (from table)*

Casing Diameter	**25mm**	**50mm**	**100mm**	**150mm**	**300mm**
Conversion Factor	**0.98**	**1.96**	**7.85**	**49.1**	**196.3**

*Volume of water in well (L) = ∏ * radius of gravel pack (m)2 * height of water column (m)*

**SA EPA Guidelines (June 2007) as referenced in NEPM*

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Groundwater Sampling Form

PROJECT NAME:	Maycot	**PROJECT NO:**	
SAMPLING DATES:	25/1/20	**SAMPLERS:**	MN
TYPE OF INVESTIGATION:		**PROJECT MANAGER:**	CP
WELL ID:	MW2	**WEATHER:**	

Casing Diameter (mm):	50	**Depth to NAPL (mBTOC):**	
Well Completion:	Flush Mount / Monument	**Depth to SWL (mBTOC):**	2.663
Well Cap Type:	Locking Cap / PVC / Other	**NAPL Thickness (m):**	
Well Condition:	Good / Compromised	**Depth to EoH (mbtoc):**	3.80
Calculated Well Volume (L):	2.23	**Water Column Depth (m):**	1.137
Sampling Method:		**NAPL Visually Verified?**	
Purge Volume	4 Casings Vol. (L)	PID 9.7	
Low Flow	Pump Submersion depth (mBTOC)		

TIME	VOLUME PURGED L	DSSOLVED OXYGEN ☐ % ☐ mgL/ppm	TEMP °C	pH pH units	EC _S/cm	ORP mV	Comments Inc SWL for low flow (mBTOC)
7:30		0.87	24.6	8.02	644	+55.7	dark brown
7:33		0.54	24.4	7.91	633	+47.7	lighter, brown ↓
7:36		0.50	24.6	7.83	625	-14.7	
7:40		0.49	24.6	7.82	621	-14.4	
7:42		0.48	24.6	7.81	620	-16.9	
							2.73
Acceptable Variations*		+/-10%	+/- 0.2 °C	+/-0.05 pH	+/-3%	+/-10mV	Results Acceptable: YES / NO

LOW FLOW: Typical flow rate = 0.2- 0.4 L/min - Max. drawdown = 0.1 m - Well stable when 3 consecutive readings (either 3min apart or 1L apart)

PURGE: Min. sampling volume is 4 casing volumes or dry twice - 1 casing volume (50mm wells) = 2 L/m - 1 casing volume (100mm wells) = 8 L/m

Clarity:	not clear	**Sheen:**	YES / NO
Colour:	brown	**Odour:**	YES / NO sulfurish swampy

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Primary sample ID:		**No.**	**Container / Preservative**
Duplicate sample:	YES / NO ID:		
Triplicate sample:	YES / NO ID:		
Rinsate sample:	YES / NO ID:		
Sample on ice:	YES / NO		
Field Filter Method:	0.45µm filter / not filtered		
Water Quality Metre:			
Gauging Equipment:			
Pump Type:			
NOTES:			

*Calculated Well Volume (L) = Water Column Depth (m) * Conversion Factor (from table)*

Casing Diameter	**25mm**	**50mm**	**100mm**	**150mm**	**300mm**
Conversion Factor	**0.98**	**1.96**	**7.85**	**49.1**	**196.3**

*Volume of water in well (L) = ∏ * radius of gravel pack (m)2 * height of water column (m)*

**SA EPA Guidelines (June 2007) as referenced in NEPM*

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Groundwater Sampling Form

PROJECT NAME:	Marcot	**PROJECT NO:**	
SAMPLING DATES:	25/11/20	**SAMPLERS:**	MV
TYPE OF INVESTIGATION:		**PROJECT MANAGER:**	[illegible]
WELL ID:	MW3	**WEATHER:**	

Casing Diameter (mm):		**Depth to NAPL (mBTOC):**	
Well Completion:	Flush Mount / Monument	**Depth to SWL (mBTOC):**	2.76
Well Cap Type:	Locking Cap / PVC / Other	**NAPL Thickness (m):**	
Well Condition:	Good / Compromised	**Depth to EoH (mbtoc):**	
Calculated Well Volume (L):	4.516	**Water Column Depth (m):**	~~7.08~~ 5.064 2.304
Sampling Method:		**NAPL Visually Verified?**	
Purge Volume	4 Casings Vol. (L)	PID 14.5	
Low Flow	Pump Submersion depth (mBTOC)		

TIME	VOLUME PURGED L	DSSOLVED OXYGEN ☐ % ☑ mgL/ppm	TEMP °C	pH pH units	EC _S/cm	ORP mV	Comments Inc SWL for low flow (mBTOC)
9:15		0.33	23.4	8.15	828	-172.7	
9:19		0.26	23.5	8.14	830	-185.7	
9:21		0.21	23.4	8.14	825	-187.3	
9:25		0.20	23.3	8.12	820	-189.1	
9:29		0.19	23.3	8.12	820	-190.3	
							2.76
Acceptable Variations*		+/-10%	+/- 0.2 °C	+/-0.05 pH	+/-3%	+/-10mV	Results Acceptable: YES / NO

LOW FLOW: Typical flow rate = 0.2- 0.4 L/min - Max. drawdown = 0.1 m - Well stable when 3 consecutive readings (either 3min apart or 1L apart)

PURGE: Min. sampling volume is 4 casing volumes or dry twice - 1 casing volume (50mm wells) = 2 L/m - 1 casing volume (100mm wells) = 8 L/m

Clarity:	Not clear	**Sheen:**	YES / NO
Colour:	brown	**Odour:**	YES / NO fumey / sulfur

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Primary sample ID:		No.	Container / Preservative
Duplicate sample:	YES / NO ID:		
Triplicate sample:	YES / NO ID:		
Rinsate sample:	YES / NO ID:		
Sample on ice:	YES / NO		
Field Filter Method:	0.45µm filter / not filtered		
Water Quality Metre:			
Gauging Equipment:			
Pump Type:			
NOTES:			

*Calculated Well Volume (L) = Water Column Depth (m) * Conversion Factor (from table)*

Casing Diameter	25mm	50mm	100mm	150mm	300mm
Conversion Factor	0.98	1.96	7.85	49.1	196.3

*Volume of water in well (L) = ∏ * radius of gravel pack (m)2 * height of water column (m)*

**SA EPA Guidelines (June 2007) as referenced in NEPM*

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Groundwater Sampling Form

PROJECT NAME:	Mascot	**PROJECT NO:**	58167
SAMPLING DATES:	25/1/20	**SAMPLERS:**	MV
TYPE OF INVESTIGATION:	GME	**PROJECT MANAGER:**	CB
WELL ID:	MW4	**WEATHER:**	sunny

Casing Diameter (mm):	50	**Depth to NAPL (mBTOC):**	
Well Completion:	Flush Mount / Monument	**Depth to SWL (mBTOC):**	2.43
Well Cap Type:	Locking Cap / PVC / Other	**NAPL Thickness (m):**	
Well Condition:	Good / Compromised	**Depth to EoH (mbtoc):**	4.84
Calculated Well Volume (L):	4.72	**Water Column Depth (m):**	2.41
Sampling Method:		**NAPL Visually Verified?**	
Purge Volume	4 Casings Vol. (L)	DTD	9.8
Low Flow	Pump Submersion depth (mBTOC)		

TIME	VOLUME PURGED L	DSSOLVED OXYGEN ☐ % ☑ mgL/ppm	TEMP °C	pH pH units	EC µS/cm	ORP mV	Comments Inc SWL for low flow (mBTOC)
10:10		0.33	26.2	7.45	728	-203.3	
10:13		0.11	26.2	7.52	750	-212.2	
10:16		0.12	26.1	7.50	745	-216.8	
10:20		0.12	26.1	7.48	742	-219.3	
10:23		0.13	26.0	7.49	739	-221.6	
Acceptable Variations*		+/-10%	+/- 0.2 °C	+/-0.05 pH	+/-3%	+/-10mV	Results Acceptable: YES / NO

LOW FLOW: Typical flow rate = 0.2- 0.4 L/min - Max. drawdown = 0.1 m - Well stable when 3 consecutive readings (either 3min apart or 1L apart)

PURGE: Min. sampling volume is 4 casing volumes or dry twice - 1 casing volume (50mm wells) = 2 L/m - 1 casing volume (100mm wells) = 8 L/m

Clarity:	not clear	**Sheen:**	YES / (NO)
Colour:	brown	**Odour:**	(YES) / NO swampy sulfur

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Primary sample ID:	MW 4	No.	Container / Preservative
Duplicate sample:	YES / NO ID:		vials. Amber(large), metals
Triplicate sample:	YES / NO ID:		
Rinsate sample:	YES / NO ID:		
Sample on ice:	YES / NO		
Field Filter Method:	0.45µm filter / not filtered		
Water Quality Metre:			
Gauging Equipment:			
Pump Type:	Peri		
NOTES:			

*Calculated Well Volume (L) = Water Column Depth (m) * Conversion Factor (from table)*

Casing Diameter	25mm	50mm	100mm	150mm	300mm
Conversion Factor	0.98	1.96	7.85	49.1	196.3

*Volume of water in well (L) = ∏ * radius of gravel pack (m)2 * height of water column (m)*

**SA EPA Guidelines (June 2007) as referenced in NEPM*

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Groundwater Sampling Form

PROJECT NAME:	Mascot	**PROJECT NO:**	58167
SAMPLING DATES:	25/1/20	**SAMPLERS:**	MN
TYPE OF INVESTIGATION:	GME	**PROJECT MANAGER:**	CB
WELL ID:	MW5	**WEATHER:**	Sunny

Casing Diameter (mm):	50	**Depth to NAPL (mBTOC):**	
Well Completion:	Flush Mount / Monument	**Depth to SWL (mBTOC):**	2.595
Well Cap Type:	Locking Cap / PVC / Other	**NAPL Thickness (m):**	2.055
Well Condition:	Good / Compromised	**Depth to EoH (mbtoc):**	4.65
Calculated Well Volume (L):	4.0278	**Water Column Depth (m):**	
Sampling Method:		**NAPL Visually Verified?**	
Purge Volume	4 Casings Vol. (L)	PID	11.0
Low Flow	Pump Submersion depth (mBTOC)		

TIME	VOLUME PURGED L	DSSOLVED OXYGEN ☐ % ☐ mgL/ppm	TEMP °C	pH pH units	EC µS/cm	ORP mV	Comments Inc SWL for low flow (mBTOC)
10:45		10.36	24.0	7.20	655	-178.3	
10:48		0.19	23.9	7.39	658	-199.2	
10:52		0.18	23.9	7.38	659	-199.8	
10:55		0.19	23.9	7.38	657	-200.6	
11:00		0.19	23.9	7.39	657	-200.9	
Acceptable Variations*		+/-10%	+/- 0.2 °C	+/-0.05 pH	+/-3%	+/-10mV	Results Acceptable: YES / NO

LOW FLOW: Typical flow rate = 0.2- 0.4 L/min - Max. drawdown = 0.1 m - Well stable when 3 consecutive readings (either 3min apart or 1L apart)

PURGE: Min. sampling volume is 4 casing volumes or dry twice - 1 casing volume (50mm wells) = 2 L/m - 1 casing volume (100mm wells) = 8 L/m

Clarity:	not	**Sheen:**	YES / NO
Colour:	brown	**Odour:**	YES / NO

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Primary sample ID:	MW5	No.	Container / Preservative
Duplicate sample:	YES / NO ID:		
Triplicate sample:	YES / NO ID:		
Rinsate sample:	YES / NO ID:		
Sample on ice:	YES / NO		
Field Filter Method:	0.45µm filter / not filtered		
Water Quality Metre:			
Gauging Equipment:			
Pump Type:			
NOTES:			

*Calculated Well Volume (L) = Water Column Depth (m) * Conversion Factor (from table)*

Casing Diameter	25mm	50mm	100mm	150mm	300mm
Conversion Factor	0.98	1.96	7.85	49.1	196.3

*Volume of water in well (L) = ∏ * radius of gravel pack (m)2 * height of water column (m)*

**SA EPA Guidelines (June 2007) as referenced in NEPM*

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Vapour Purging Form

JBS&G

Project Number:	Date: 22.1.20	Sampler/s:
Site Address:	Sample Method:	Weather:

Field Measurements

Borehole ID	Time	Oxygen	Carbon Dioxide	PID	Methane	LEL		
SV1	11:00:00	17.6	2.4	2.3	0.0	0.0		pump on: 12:23 12:353
	11:00:30	↓	↓	↓	↓	↓		
	11:01:00							
	11:01:30							
SV2	12 25 00	21.2	0	3.2	0.0	0.0		on 1230 off 1300
	25 30	↓	↓	↓	↓	↓		
	26 00							
	26 30							
SV3	12 [illegible] 00	22.1	[illegible] 0	0.0	0.0	0.0	12 3000	on 1240
	[illegible] 30	20.6	[illegible] 0	0.0	0.0	0.0	30 30	off 1310
	[illegible]	↓	↓	↓	↓	↓	3100	
	[illegible]						3130	
SV4	12 40 00	7.3	0	0.1	0.0	0.0		on 1246
	40 30	↓	↓	↓	↓	↓		off 1316
	41 00							
	41 30							

Vapour Purging Form

JBS&G

Project Number:	Date: 24.1.20	Sampler/s:
Site Address:	Sample Method:	Weather:

Field Measurements

Borehole ID	Time	Oxygen	Carbon Dioxide	PID	Methane	LEL	
SV05	8:50:00	21.1	-0.2	0.0	0.0	0.0	Asphalt.
	8:50:30	↓	↓	↓	↓	↓	
	8:51:00						
	8:51:30						
SV06	~~9~~:9:0~~0~~00	21.3	-0.2	3.4	0.0	0.0	~~QSV01~~
	9:01:30						~~QSV01~~A
	9:02:00						Asphalt
	9:02:30						
SV07	9 40 00	21.2	-0.2	8.4	0.0	0.0	
	40 30	↓	↓	↓	↓	↓	
	41 00						
	41 30						
SV08	9 50 00	3.3	-0.2	2.9	0.0	0.0	Asphalt
	50 30	↓	↓	↓	↓	↓	
	51 00						
	51 30						
SV09	10 55 00	1.9	-0.2	0.0	0.0	0.0	Concrete
	55 30	~~2.0~~	~~-0.1~~	↓	~~0.0~~	0.0	~~QSV01~~
	56 00	↓	↓		↓	↓	~~QSV01A~~
	56 30						
		1.0	0.8				
SV10	11 02 00	~~2.0~~	~~0.6~~	3.0	0.1	0.0	Concrete
	02 30	↓	↓	↓	↓	↓	QSV01
	03 00						QSV01A
	03 30						
		12.8					
SV11	11 ~~38~~:00	~~12.0~~	-0.2	~~3~~4.1	0.0	0.0	Concrete.
	~~38~~ 30	↓	↓	↓	↓	↓	QSV02
	39~~1~~ 00						QSV02A
	39~~1~~ 30						

Pump St: ~~9:00~~ 8:54
end: 924

Start: 9:0~~5~~
Stop: 935

Start: 945
Stop: 10~~0~~5

Start 952
Stop 1005

Start ~~11:00~~ ~~11:10~~ 11:15
Stop

Start 1115
Stop 1145

Start 114~~0~~5

pumps on 30 min timer.

Vapour Purging Form

JBS&G

Project Number:	Date: 24.1.20	Sampler/s:
Site Address:	Sample Method:	Weather:

Field Measurements

Borehole ID	Time	Oxygen	Carbon Dioxide	PID	Methane (CH4)	LEL		
SV14	12 15 00	0.5	-0.2	3.2	0.0	0.0	concrete	start: 1220
	15 30	↓	↓	↓	↓	↓		stop: 1240
	16 00							
	16 30							
						290		
* SV13	13 30 00	0.8	3.4	0.5	7.5	0.0?	unable to read.	
	30 30	↓	↓	↓	↓	↓	concrete	start 1335
	31 00						QSV3	stop 1405
	31 30						QSV3A	
*								
SV12	13 40 00	0.1	-0.1	9.6	4.0	91.5	concrete	start 1345
	40 30	↓	↓	↓	↓	↓		stop 1415
	41 00							
	41 30							
SV15	14 30:00	13.0	6.7	0.3	0.0	0.0	Asphalt	start 1435
	30 30	↓	↓	↓	↓	↓		stop 1505
	31 00							
	31 30							
SV16	15:10 00	11.4	0.8	0.6	0.0	0.0	inside unit	start 1513
	10 30	↓	↓	↓	↓	↓		stop 1543
	11 00							
	11 30							
SV17	15 15 00	12.3	7.8	8.3	0.0	0.0	inside unit	start 1517
	15 30	↓	↓	↓	↓	↓		stop 1547
	16 00							
	16 30							
SV18	15 20 00	15.4	4.3	5.4	0.0	0.0	inside unit	start 1523
	20 30	↓	↓	↓	↓	↓		stop 1553
	21 00							
	21 30							

Vapour Purging Form

JBS&G

Project Number:	Date: 24.1.20	Sampler/s: RG
Site Address: 260 Gardeners Rd	Sample Method: sub slab pins	Weather: Overcast

Field Measurements

Borehole ID	Time	Oxygen	Carbon Dioxide	PID	Methane	LEL	
SV19	1530 00	11.2	7.3	3.6	0.0	0.0	inside unit
	30 30	↓	↓	↓	↓	↓	surface stable
	31 00						
	31 30						
SV20	153500	2.7	8.6	1.3	0.0	0.0	inside unit
	35 30	↓	↓	↓	↓	↓	
	36 00						
	36 30						
SV21	15:45 00	16.5	4.5	3.7	0.0	0.0	inside unit
	45 30	↓	↓	↓	↓	↓	
	46 00						
	46 30						

Start 1533
Stop 1603

Start 1540
Stop 1610

Start 15 48
Stop 1618

Appendix I Laboratory Reports and Chain of Custody Documentation

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
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Chris Bielby**

Report **698725-S**
Project name MASCOT
Project ID 58167
Received Date Jan 28, 2020

Client Sample ID			**MW2_0.5**	**MW2_2.0**	**MW3_0.2**	**MW3_3.0**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**S20-Ja26278**	**S20-Ja26279**	**S20-Ja26280**	**S20-Ja26281**
Date Sampled			**Jan 24, 2020**	**Jan 24, 2020**	**Jan 24, 2020**	**Jan 24, 2020**
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	%	86	88	83	77
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
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

Client Sample ID			MW2_0.5	MW2_2.0	MW3_0.2	MW3_3.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Ja26278	S20-Ja26279	S20-Ja26280	S20-Ja26281
Date Sampled			Jan 24, 2020	Jan 24, 2020	Jan 24, 2020	Jan 24, 2020
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 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	%	69	78	82	80
p-Terphenyl-d14 (surr.)	1	%	79	82	88	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	< 0.5	-	-	-
Endrin ketone	0.05	mg/kg	< 0.05	-	-	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	-	-
Heptachlor	0.05	mg/kg	< 0.05	-	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	-
Methoxychlor	0.2	mg/kg	< 0.2	-	-	-
Toxaphene	1	mg/kg	< 1	-	-	-
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	< 0.5	-	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.5	-	-	-
Dibutylchlorendate (surr.)	1	%	119	-	-	-
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	%	119	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	114	-	-	-

Client Sample ID			MW2_0.5	MW2_2.0	MW3_0.2	MW3_3.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Ja26278	S20-Ja26279	S20-Ja26280	S20-Ja26281
Date Sampled			Jan 24, 2020	Jan 24, 2020	Jan 24, 2020	Jan 24, 2020
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	5.5	< 2	7.2	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	7.0	< 5	10	< 5
Copper	5	mg/kg	6.0	< 5	14	7.1
Lead	5	mg/kg	18	< 5	43	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	< 5	12	6.7
Zinc	5	mg/kg	38	< 5	72	8.5
% Moisture	1	%	15	11	9.9	10

Client Sample ID			MW4_1.0	SB1_0.2	SB1_0.5	SB2_1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Ja26282	S20-Ja26283	S20-Ja26284	S20-Ja26287
Date Sampled			Jan 24, 2020	Jan 24, 2020	Jan 24, 2020	Jan 24, 2020
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	40	46
TRH C15-C28	50	mg/kg	250	220	380	610
TRH C29-C36	50	mg/kg	470	410	380	420
TRH C10-C36 (Total)	50	mg/kg	720	630	800	1076
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	96	84	84
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	69	100
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	69	100
TRH >C16-C34	100	mg/kg	630	500	590	850
TRH >C34-C40	100	mg/kg	230	340	370	240
TRH >C10-C40 (total)*	100	mg/kg	860	840	1029	1190
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	4.0
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	4.2
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	4.5
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	2.6
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	3.0

Client Sample ID			MW4_1.0	SB1_0.2	SB1_0.5	SB2_1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Ja26282	S20-Ja26283	S20-Ja26284	S20-Ja26287
Date Sampled			Jan 24, 2020	Jan 24, 2020	Jan 24, 2020	Jan 24, 2020
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	2.1
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.9
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	3.1
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	2.4
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	5.0
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	1.8
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	2.1
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	5.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	28.5
2-Fluorobiphenyl (surr.)	1	%	80	90	79	104
p-Terphenyl-d14 (surr.)	1	%	132	123	83	136
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	28	< 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	54	0.13	-	< 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	< 0.5	< 1	-	< 1
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Methoxychlor	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
Toxaphene	1	mg/kg	< 1	< 1	-	< 1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	82	0.13	-	< 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	82	< 1	-	< 1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.5	< 1	-	< 1
Dibutylchlorendate (surr.)	1	%	INT	141	-	INT
Tetrachloro-m-xylene (surr.)	1	%	129	117	-	135
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

Client Sample ID			MW4_1.0	SB1_0.2	SB1_0.5	SB2_1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Ja26282	S20-Ja26283	S20-Ja26284	S20-Ja26287
Date Sampled			Jan 24, 2020	Jan 24, 2020	Jan 24, 2020	Jan 24, 2020
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
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	%	INT	141	-	INT
Tetrachloro-m-xylene (surr.)	1	%	129	117	-	135
Heavy Metals						
Arsenic	2	mg/kg	3.7	3.6	5.5	6.0
Cadmium	0.4	mg/kg	0.4	< 0.4	< 0.4	0.4
Chromium	5	mg/kg	29	14	20	20
Copper	5	mg/kg	100	28	52	270
Lead	5	mg/kg	1500	37	69	720
Mercury	0.1	mg/kg	0.1	0.1	< 0.1	0.1
Nickel	5	mg/kg	33	9.5	16	29
Zinc	5	mg/kg	300	58	95	200
% Moisture	1	%	9.4	8.8	6.1	13

Client Sample ID			SB3_0.5	SB4_1.0	MW5_0.5	MW1_0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Ja26289	S20-Ja26291	S20-Ja26294	S20-Ja26295
Date Sampled			Jan 24, 2020	Jan 24, 2020	Jan 24, 2020	Jan 24, 2020
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	80	< 20
TRH C15-C28	50	mg/kg	130	150	1600	99
TRH C29-C36	50	mg/kg	150	63	1000	170
TRH C10-C36 (Total)	50	mg/kg	280	213	2680	269
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	84	79	89	90
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	190	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	190	< 50
TRH >C16-C34	100	mg/kg	220	180	2200	220
TRH >C34-C40	100	mg/kg	120	< 100	360	160
TRH >C10-C40 (total)*	100	mg/kg	340	180	2750	380

Client Sample ID			SB3_0.5	SB4_1.0	MW5_0.5	MW1_0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-Ja26289	S20-Ja26291	S20-Ja26294	S20-Ja26295
Date Sampled			Jan 24, 2020	Jan 24, 2020	Jan 24, 2020	Jan 24, 2020
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	0.7	< 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	0.7	< 0.5
2-Fluorobiphenyl (surr.)	1	%	80	76	95	78
p-Terphenyl-d14 (surr.)	1	%	88	82	93	82
Heavy Metals						
Arsenic	2	mg/kg	4.0	14	4.5	5.3
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	11	5.2	13	15
Copper	5	mg/kg	19	7.2	79	22
Lead	5	mg/kg	230	17	220	29
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	0.2
Nickel	5	mg/kg	< 5	< 5	10	12
Zinc	5	mg/kg	340	51	91	110
% Moisture	1	%	11	8.7	8.6	7.8

Client Sample ID			MW1_1.0	MW1_4.0	QA03
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			S20-Ja26296	S20-Ja26532	S20-Ja26697
Date Sampled			Jan 24, 2020	Jan 24, 2020	Jan 24, 2020
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	-	54	< 50
TRH C10-C36 (Total)	50	mg/kg	-	54	< 50

Client Sample ID			MW1_1.0	MW1_4.0	QA03
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			S20-Ja26296	S20-Ja26532	S20-Ja26697
Date Sampled			Jan 24, 2020	Jan 24, 2020	Jan 24, 2020
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	%	-	114	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	-	< 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	%	96	75	77
p-Terphenyl-d14 (surr.)	1	%	97	84	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

Client Sample ID			MW1_1.0	MW1_4.0	QA03
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			S20-Ja26296	S20-Ja26532	S20-Ja26697
Date Sampled			Jan 24, 2020	Jan 24, 2020	Jan 24, 2020
Test/Reference	LOR	Unit			
Organochlorine Pesticides					
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	-	-	< 1
Endrin ketone	0.05	mg/kg	-	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	-	< 0.05
Heptachlor	0.05	mg/kg	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	< 0.05
Methoxychlor	0.2	mg/kg	-	-	< 0.2
Toxaphene	1	mg/kg	-	-	< 1
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	-	-	< 1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	< 1
Dibutylchlorendate (surr.)	1	%	-	-	103
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	%	-	-	103
Tetrachloro-m-xylene (surr.)	1	%	-	-	107
Heavy Metals					
Arsenic	2	mg/kg	44	12	9.4
Cadmium	0.4	mg/kg	0.8	< 0.4	< 0.4
Chromium	5	mg/kg	91	200	11
Copper	5	mg/kg	100	45	21
Lead	5	mg/kg	380	25	33
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	130	66	9.9
Zinc	5	mg/kg	480	34	63
% Moisture	1	%	10	15	11

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Jan 28, 2020	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Jan 28, 2020	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jan 28, 2020	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jan 28, 2020	
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons	Sydney	Jan 28, 2020	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Metals M8	Sydney	Jan 28, 2020	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Organochlorine Pesticides	Sydney	Jan 28, 2020	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Polychlorinated Biphenyls	Sydney	Jan 28, 2020	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
% Moisture	Sydney	Jan 28, 2020	14 Days
- Method: LTM-GEN-7080 Moisture			

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Project Name: MASCOT
Project ID: 58167

Order No.:
Report #: 698725
Phone: 02 8245 0300
Fax:

Received: Jan 28, 2020 9:47 AM
Due: Jan 29, 2020
Priority: 1 Day
Contact Name: Chris Bielby

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	HOLD	HOLD	TRH C6-C9	Polycyclic Aromatic Hydrocarbons	Metals M8	Eurofins | mgt Suite B13	BTEX and Naphthalene	Moisture Set	Eurofins | mgt Suite B7
Melbourne Laboratory - NATA Site # 1254 & 14271															
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794							X								
Perth Laboratory - NATA Site # 23736															
External Laboratory															
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**										
1	MW2_0.5	Jan 24, 2020		Soil	S20-Ja26278	X						X		X	X
2	MW2_2.0	Jan 24, 2020		Soil	S20-Ja26279									X	X
3	MW3_0.2	Jan 24, 2020		Soil	S20-Ja26280	X								X	X
4	MW3_3.0	Jan 24, 2020		Soil	S20-Ja26281									X	X
5	MW4_1.0	Jan 24, 2020		Soil	S20-Ja26282	X						X		X	X
6	SB1_0.2	Jan 24, 2020		Soil	S20-Ja26283	X						X		X	X
7	SB1_0.5	Jan 24, 2020		Soil	S20-Ja26284	X								X	X
8	SB2_0.2	Jan 24, 2020		Soil	S20-Ja26285	X									
9	SB2_0.5	Jan 24, 2020		Soil	S20-Ja26286	X									
10	SB2_1.0	Jan 24, 2020		Soil	S20-Ja26287							X		X	X

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

Project Name: MASCOT
Project ID: 58167

Order No.:
Report #: 698725
Phone: 02 8245 0300
Fax:

Received: Jan 28, 2020 9:47 AM
Due: Jan 29, 2020
Priority: 1 Day
Contact Name: Chris Bielby

Eurofins Analytical Services Manager : Ursula Long

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Melbourne Laboratory - NATA Site # 1254 & 14271															
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794							X								
Perth Laboratory - NATA Site # 23736															
11	SB3_0.2	Jan 24, 2020		Soil	S20-Ja26288	X									
12	SB3_0.5	Jan 24, 2020		Soil	S20-Ja26289	X								X	X
13	SB4_0.2	Jan 24, 2020		Soil	S20-Ja26290	X									
14	SB4_1.0	Jan 24, 2020		Soil	S20-Ja26291									X	X
15	TS	Jan 24, 2020		Water	S20-Ja26292								X		
16	TB	Jan 24, 2020		Water	S20-Ja26293				X						
17	MW5_0.5	Jan 24, 2020		Soil	S20-Ja26294									X	X
18	MW1_0.2	Jan 24, 2020		Soil	S20-Ja26295	X								X	X
19	MW1_1.0	Jan 24, 2020		Soil	S20-Ja26296					X	X			X	
20	MW1_3.0	Jan 24, 2020		Soil	S20-Ja26297			X							
21	MW2_0.3	Jan 24, 2020		Soil	S20-Ja26503			X							
22	MW2_1.0	Jan 24, 2020		Soil	S20-Ja26504			X							
23	MW2_3.0	Jan 24, 2020		Soil	S20-Ja26505			X							

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Melbourne Laboratory - NATA Site # 1254 & 14271															
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794							X								
Perth Laboratory - NATA Site # 23736															
24	MW2_4.0	Jan 24, 2020		Soil	S20-Ja26506			X							
25	MW2_5.0	Jan 24, 2020		Soil	S20-Ja26507			X							
26	MW3_0.5	Jan 24, 2020		Soil	S20-Ja26508			X							
27	MW3_1.0	Jan 24, 2020		Soil	S20-Ja26509			X							
28	MW3_2.0	Jan 24, 2020		Soil	S20-Ja26510			X							
29	MW4_0.5	Jan 24, 2020		Soil	S20-Ja26511			X							
30	MW4_2.0	Jan 24, 2020		Soil	S20-Ja26512			X							
31	MW4_3.0	Jan 24, 2020		Soil	S20-Ja26513			X							
32	MW4_4.0	Jan 24, 2020		Soil	S20-Ja26514			X							
33	MW4_5.0	Jan 24, 2020		Soil	S20-Ja26515			X							
34	SB1_1.0	Jan 24, 2020		Soil	S20-Ja26516		X								
35	SB1_2.0	Jan 24, 2020		Soil	S20-Ja26517			X							
36	SB1_3.0	Jan 24, 2020		Soil	S20-Ja26518		X								

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Melbourne Laboratory - NATA Site # 1254 & 14271															
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794							X								
Perth Laboratory - NATA Site # 23736															
37	SB2_2.0	Jan 24, 2020		Soil	S20-Ja26519			X							
38	SB2_3.0	Jan 24, 2020		Soil	S20-Ja26520		X								
39	SB3_1.0	Jan 24, 2020		Soil	S20-Ja26521		X								
40	SB3_2.0	Jan 24, 2020		Soil	S20-Ja26522			X							
41	SB3_3.0	Jan 24, 2020		Soil	S20-Ja26523		X								
42	SB4_1.8	Jan 24, 2020		Soil	S20-Ja26524		X								
43	SB4_3.0	Jan 24, 2020		Soil	S20-Ja26525		X								
44	MW5_1.0	Jan 24, 2020		Soil	S20-Ja26526			X							
45	MW5_2.0	Jan 24, 2020		Soil	S20-Ja26527			X							
46	MW5_3.0	Jan 24, 2020		Soil	S20-Ja26528			X							
47	MW5_4.0	Jan 24, 2020		Soil	S20-Ja26529			X							
48	MW5_5.0	Jan 24, 2020		Soil	S20-Ja26530			X							
49	MW1_2.0	Jan 24, 2020		Soil	S20-Ja26531			X							

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Melbourne Laboratory - NATA Site # 1254 & 14271															
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794							X								
Perth Laboratory - NATA Site # 23736															
50	MW1_4.0	Jan 24, 2020		Soil	S20-Ja26532									X	X
51	MW1_5.0	Jan 24, 2020		Soil	S20-Ja26533			X							
52	MW5_0.2	Jan 24, 2020		Soil	S20-Ja26686	X									
53	SB4_0.5	Jan 24, 2020		Soil	S20-Ja26696	X									
54	QA03	Jan 24, 2020		Soil	S20-Ja26697							X		X	X
55	QA01	Jan 24, 2020		Soil	S20-Ja26698	X									
56	QA02	Jan 24, 2020		Soil	S20-Ja26708			X							
57	QC02	Jan 24, 2020		Soil	S20-Ja26709			X							
Test Counts						14	33	33	1	1	1	5	1	15	14

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	< 1			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							
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	%	82			70-130	Pass	
TRH C10-C14	%	80			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	86			70-130	Pass	
Toluene	%	87			70-130	Pass	
Ethylbenzene	%	96			70-130	Pass	
m&p-Xylenes	%	88			70-130	Pass	
o-Xylene	%	91			70-130	Pass	
Xylenes - Total	%	89			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	113			70-130	Pass	
TRH C6-C10	%	84			70-130	Pass	
TRH >C10-C16	%	74			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	103			70-130	Pass	
Acenaphthylene	%	94			70-130	Pass	
Anthracene	%	91			70-130	Pass	
Benz(a)anthracene	%	84			70-130	Pass	
Benzo(a)pyrene	%	82			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Benzo(b&j)fluoranthene	%	99			70-130	Pass	
Benzo(g.h.i)perylene	%	90			70-130	Pass	
Benzo(k)fluoranthene	%	94			70-130	Pass	
Chrysene	%	90			70-130	Pass	
Dibenz(a.h)anthracene	%	101			70-130	Pass	
Fluoranthene	%	89			70-130	Pass	
Fluorene	%	98			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	105			70-130	Pass	
Naphthalene	%	92			70-130	Pass	
Phenanthrene	%	94			70-130	Pass	
Pyrene	%	90			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	88			70-130	Pass	
4.4'-DDD	%	81			70-130	Pass	
4.4'-DDE	%	112			70-130	Pass	
4.4'-DDT	%	98			70-130	Pass	
a-BHC	%	106			70-130	Pass	
Aldrin	%	115			70-130	Pass	
b-BHC	%	119			70-130	Pass	
d-BHC	%	123			70-130	Pass	
Dieldrin	%	123			70-130	Pass	
Endosulfan I	%	108			70-130	Pass	
Endosulfan sulphate	%	96			70-130	Pass	
Endrin aldehyde	%	92			70-130	Pass	
Endrin ketone	%	110			70-130	Pass	
g-BHC (Lindane)	%	130			70-130	Pass	
Heptachlor	%	110			70-130	Pass	
Heptachlor epoxide	%	86			70-130	Pass	
Hexachlorobenzene	%	117			70-130	Pass	
Methoxychlor	%	95			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1260	%	87			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	92			70-130	Pass	
Cadmium	%	89			70-130	Pass	
Chromium	%	93			70-130	Pass	
Copper	%	92			70-130	Pass	
Lead	%	96			70-130	Pass	
Mercury	%	109			70-130	Pass	
Nickel	%	91			70-130	Pass	
Zinc	%	93			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Benzo(g.h.i)perylene	S20-Ja24410	NCP	%	87			70-130	Pass	
Dibenz(a.h)anthracene	S20-Ja24410	NCP	%	96			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S20-Ja24410	NCP	%	94			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
4.4'-DDE	S20-Ja24469	NCP	%	97			70-130	Pass	
a-BHC	S20-Ja24469	NCP	%	90			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Aldrin	S20-Ja24469	NCP	%	102			70-130	Pass	
b-BHC	S20-Ja24469	NCP	%	81			70-130	Pass	
d-BHC	S20-Ja24469	NCP	%	88			70-130	Pass	
Dieldrin	S20-Ja24469	NCP	%	91			70-130	Pass	
Endosulfan I	S20-Ja24469	NCP	%	87			70-130	Pass	
Endrin	S20-Ja24469	NCP	%	128			70-130	Pass	
Endrin ketone	S20-Ja24469	NCP	%	104			70-130	Pass	
g-BHC (Lindane)	S20-Ja24469	NCP	%	92			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1260	S20-Ja24469	NCP	%	91			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Copper	S20-Ja27035	NCP	%	105			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C10-C14	S20-Ja26281	CP	%	71			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S20-Ja26282	CP	%	97			70-130	Pass	
Acenaphthylene	S20-Ja26282	CP	%	98			70-130	Pass	
Anthracene	S20-Ja26282	CP	%	90			70-130	Pass	
Benz(a)anthracene	S20-Ja26282	CP	%	105			70-130	Pass	
Benzo(a)pyrene	S20-Ja26282	CP	%	79			70-130	Pass	
Benzo(b&j)fluoranthene	S20-Ja26282	CP	%	91			70-130	Pass	
Benzo(k)fluoranthene	S20-Ja26282	CP	%	108			70-130	Pass	
Chrysene	S20-Ja26282	CP	%	101			70-130	Pass	
Fluoranthene	S20-Ja26282	CP	%	115			70-130	Pass	
Fluorene	S20-Ja26282	CP	%	91			70-130	Pass	
Naphthalene	S20-Ja26282	CP	%	93			70-130	Pass	
Phenanthrene	S20-Ja26282	CP	%	81			70-130	Pass	
Pyrene	S20-Ja26282	CP	%	113			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S20-Ja26282	CP	%	115			70-130	Pass	
4.4'-DDD	S20-Ja26282	CP	%	128			70-130	Pass	
4.4'-DDT	S20-Ja26282	CP	%	119			70-130	Pass	
Endosulfan II	S20-Ja26282	CP	%	127			70-130	Pass	
Endosulfan sulphate	S20-Ja26282	CP	%	123			70-130	Pass	
Heptachlor	S20-Ja26282	CP	%	110			70-130	Pass	
Heptachlor epoxide	S20-Ja26282	CP	%	113			70-130	Pass	
Hexachlorobenzene	S20-Ja26282	CP	%	108			70-130	Pass	
Methoxychlor	S20-Ja26282	CP	%	119			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S20-Ja26294	CP	%	119			70-130	Pass	
Cadmium	S20-Ja26294	CP	%	107			70-130	Pass	
Chromium	S20-Ja26294	CP	%	111			70-130	Pass	
Mercury	S20-Ja26294	CP	%	117			70-130	Pass	
Nickel	S20-Ja26294	CP	%	99			70-130	Pass	
Zinc	S20-Ja26294	CP	%	109			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S20-Ja26295	CP	%	88			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
BTEX				Result 1					
Benzene	S20-Ja26295	CP	%	90			70-130	Pass	
Toluene	S20-Ja26295	CP	%	82			70-130	Pass	
Ethylbenzene	S20-Ja26295	CP	%	85			70-130	Pass	
m&p-Xylenes	S20-Ja26295	CP	%	79			70-130	Pass	
o-Xylene	S20-Ja26295	CP	%	84			70-130	Pass	
Xylenes - Total	S20-Ja26295	CP	%	81			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S20-Ja26295	CP	%	84			70-130	Pass	
TRH C6-C10	S20-Ja26295	CP	%	93			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C10-C14	S20-Ja26697	CP	%	81			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH >C10-C16	S20-Ja26697	CP	%	75			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	S20-Ja26278	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S20-Ja26278	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S20-Ja26278	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S20-Ja26278	CP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S20-Ja26278	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S20-Ja26278	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S20-Ja26278	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S20-Ja26278	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S20-Ja26278	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total	S20-Ja26278	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S20-Ja26278	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S20-Ja26278	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S20-Ja26278	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S20-Ja26278	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S20-Ja26278	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S20-Ja26278	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S20-Ja26278	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S20-Ja26278	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S20-Ja26278	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S20-Ja26278	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S20-Ja26278	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S20-Ja26278	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S20-Ja26278	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S20-Ja26278	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S20-Ja26278	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S20-Ja26278	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S20-Ja26278	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	S20-Ja26278	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S20-Ja26278	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S20-Ja26278	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S20-Ja26278	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S20-Ja26278	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S20-Ja26278	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S20-Ja26278	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S20-Ja26278	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-BHC	S20-Ja26278	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S20-Ja26278	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	S20-Ja26278	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-BHC	S20-Ja26278	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S20-Ja26278	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S20-Ja26278	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S20-Ja26278	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S20-Ja26278	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S20-Ja26278	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S20-Ja26278	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Endrin ketone	S20-Ja26278	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	S20-Ja26278	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S20-Ja26278	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S20-Ja26278	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S20-Ja26278	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S20-Ja26278	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	S20-Ja26278	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1221	S20-Ja26278	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	S20-Ja26278	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1242	S20-Ja26278	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1248	S20-Ja26278	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1254	S20-Ja26278	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1260	S20-Ja26278	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Total PCB*	S20-Ja26278	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S20-Ja26279	CP	%	11	11	1.0	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S20-Ja26291	CP	mg/kg	14	17	25	30%	Pass	
Cadmium	S20-Ja26291	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S20-Ja26291	CP	mg/kg	5.2	6.1	15	30%	Pass	
Copper	S20-Ja26291	CP	mg/kg	7.2	12	50	30%	Fail	Q15
Lead	S20-Ja26291	CP	mg/kg	17	43	88	30%	Fail	Q15
Mercury	S20-Ja26291	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S20-Ja26291	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Zinc	S20-Ja26291	CP	mg/kg	51	67	27	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S20-Ja26295	CP	%	7.8	7.7	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.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised By

Ursula Long	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)
Gabriele Cordero	Senior Analyst-Metal (NSW)
Nibha Vaidya	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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Certificate of Analysis

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025–Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

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

Attention:	Chris Bielby
Report	698725-AID
Project Name	MASCOT
Project ID	58167
Received Date	Jan 28, 2020
Date Reported	Jan 29, 2020

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
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Project Name MASCOT
Project ID 58167
Date Sampled Jan 24, 2020
Report 698725-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
MW2_0.5	20-Ja26278	Jan 24, 2020	Approximate Sample 485g 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.
MW3_0.2	20-Ja26280	Jan 24, 2020	Approximate Sample 783g 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.
MW4_1.0	20-Ja26282	Jan 24, 2020	Approximate Sample 393g Sample consisted of: Brown coarse-grained sandy soil, rocks cemen, glass and black coal	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
SB1_0.2	20-Ja26283	Jan 24, 2020	Approximate Sample 676g Sample consisted of: Brown coarse-grained sandy soil, rocks bitumen and cement	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
SB1_0.5	20-Ja26284	Jan 24, 2020	Approximate Sample 730g Sample consisted of: Brown coarse-grained sandy soil, rocks bitumen, cement and glass	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
SB2_0.2	20-Ja26285	Jan 24, 2020	Approximate Sample 675g Sample consisted of: Brown coarse-grained sandy soil, rocks bitumen, cement and debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
SB2_0.5	20-Ja26286	Jan 24, 2020	Approximate Sample 446g Sample consisted of: Brown coarse-grained sandy soil, rocks bitumen, cement and glass	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
SB3_0.2	20-Ja26288	Jan 24, 2020	Approximate Sample 552g Sample consisted of: Brown coarse-grained sandy soil, rocks bitumen and cement	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
SB3_0.5	20-Ja26289	Jan 24, 2020	Approximate Sample 565g Sample consisted of: Brown coarse-grained sandy soil, rocks, cement, debris and black coal	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
SB4_0.2	20-Ja26290	Jan 24, 2020	Approximate Sample 627g 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.
MW1_0.2	20-Ja26295	Jan 24, 2020	Approximate Sample 681g Sample consisted of: Brown coarse-grained sandy soil, rocks bitumen, cement and brick	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
MW5_0.2	20-Ja26686	Jan 24, 2020	Approximate Sample 813g Sample consisted of: Brown coarse-grained sandy soil, rocks, debris and black coal	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
SB4_0.5	20-Ja26696	Jan 24, 2020	Approximate Sample 562g Sample consisted of: Brown coarse-grained sandy soil, rocks bitumen, cement and debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
QA01	20-Ja26698	Jan 24, 2020	Approximate Sample 676g Sample consisted of: Brown coarse-grained sandy soil, rocks bitumen, cement and brick	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	Jan 28, 2020	Indefinite

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

Project Name: MASCOT
Project ID: 58167

Order No.:
Report #: 698725
Phone: 02 8245 0300
Fax:

Received: Jan 28, 2020 9:47 AM
Due: Jan 29, 2020
Priority: 1 Day
Contact Name: Chris Bielby

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	HOLD	HOLD	TRH C6-C9	Polycyclic Aromatic Hydrocarbons	Metals M8	Eurofins | mgt Suite B13	BTEX and Naphthalene	Moisture Set	Eurofins | mgt Suite B7
Melbourne Laboratory - NATA Site # 1254 & 14271															
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794							X								
Perth Laboratory - NATA Site # 23736															
External Laboratory															
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**										
1	MW2_0.5	Jan 24, 2020		Soil	S20-Ja26278	X						X		X	X
2	MW2_2.0	Jan 24, 2020		Soil	S20-Ja26279									X	X
3	MW3_0.2	Jan 24, 2020		Soil	S20-Ja26280	X								X	X
4	MW3_3.0	Jan 24, 2020		Soil	S20-Ja26281									X	X
5	MW4_1.0	Jan 24, 2020		Soil	S20-Ja26282	X						X		X	X
6	SB1_0.2	Jan 24, 2020		Soil	S20-Ja26283	X						X		X	X
7	SB1_0.5	Jan 24, 2020		Soil	S20-Ja26284	X								X	X
8	SB2_0.2	Jan 24, 2020		Soil	S20-Ja26285	X									
9	SB2_0.5	Jan 24, 2020		Soil	S20-Ja26286	X									
10	SB2_1.0	Jan 24, 2020		Soil	S20-Ja26287							X		X	X

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Melbourne Laboratory - NATA Site # 1254 & 14271															
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794							X								
Perth Laboratory - NATA Site # 23736															
11	SB3_0.2	Jan 24, 2020		Soil	S20-Ja26288	X									
12	SB3_0.5	Jan 24, 2020		Soil	S20-Ja26289	X								X	X
13	SB4_0.2	Jan 24, 2020		Soil	S20-Ja26290	X									
14	SB4_1.0	Jan 24, 2020		Soil	S20-Ja26291									X	X
15	TS	Jan 24, 2020		Water	S20-Ja26292								X		
16	TB	Jan 24, 2020		Water	S20-Ja26293				X						
17	MW5_0.5	Jan 24, 2020		Soil	S20-Ja26294									X	X
18	MW1_0.2	Jan 24, 2020		Soil	S20-Ja26295	X								X	X
19	MW1_1.0	Jan 24, 2020		Soil	S20-Ja26296					X	X			X	
20	MW1_3.0	Jan 24, 2020		Soil	S20-Ja26297			X							
21	MW2_0.3	Jan 24, 2020		Soil	S20-Ja26503			X							
22	MW2_1.0	Jan 24, 2020		Soil	S20-Ja26504			X							
23	MW2_3.0	Jan 24, 2020		Soil	S20-Ja26505			X							

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Melbourne Laboratory - NATA Site # 1254 & 14271															
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794							X								
Perth Laboratory - NATA Site # 23736															
24	MW2_4.0	Jan 24, 2020		Soil	S20-Ja26506			X							
25	MW2_5.0	Jan 24, 2020		Soil	S20-Ja26507			X							
26	MW3_0.5	Jan 24, 2020		Soil	S20-Ja26508			X							
27	MW3_1.0	Jan 24, 2020		Soil	S20-Ja26509			X							
28	MW3_2.0	Jan 24, 2020		Soil	S20-Ja26510			X							
29	MW4_0.5	Jan 24, 2020		Soil	S20-Ja26511			X							
30	MW4_2.0	Jan 24, 2020		Soil	S20-Ja26512			X							
31	MW4_3.0	Jan 24, 2020		Soil	S20-Ja26513			X							
32	MW4_4.0	Jan 24, 2020		Soil	S20-Ja26514			X							
33	MW4_5.0	Jan 24, 2020		Soil	S20-Ja26515			X							
34	SB1_1.0	Jan 24, 2020		Soil	S20-Ja26516		X								
35	SB1_2.0	Jan 24, 2020		Soil	S20-Ja26517			X							
36	SB1_3.0	Jan 24, 2020		Soil	S20-Ja26518		X								

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Sample Detail						Asbestos - WA guidelines	HOLD	HOLD	TRH C6-C9	Polycyclic Aromatic Hydrocarbons	Metals M8	Eurofins | mgt Suite B13	BTEX and Naphthalene	Moisture Set	Eurofins | mgt Suite B7
Melbourne Laboratory - NATA Site # 1254 & 14271															
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794							X								
Perth Laboratory - NATA Site # 23736															
37	SB2_2.0	Jan 24, 2020		Soil	S20-Ja26519			X							
38	SB2_3.0	Jan 24, 2020		Soil	S20-Ja26520		X								
39	SB3_1.0	Jan 24, 2020		Soil	S20-Ja26521		X								
40	SB3_2.0	Jan 24, 2020		Soil	S20-Ja26522			X							
41	SB3_3.0	Jan 24, 2020		Soil	S20-Ja26523		X								
42	SB4_1.8	Jan 24, 2020		Soil	S20-Ja26524		X								
43	SB4_3.0	Jan 24, 2020		Soil	S20-Ja26525		X								
44	MW5_1.0	Jan 24, 2020		Soil	S20-Ja26526			X							
45	MW5_2.0	Jan 24, 2020		Soil	S20-Ja26527			X							
46	MW5_3.0	Jan 24, 2020		Soil	S20-Ja26528			X							
47	MW5_4.0	Jan 24, 2020		Soil	S20-Ja26529			X							
48	MW5_5.0	Jan 24, 2020		Soil	S20-Ja26530			X							
49	MW1_2.0	Jan 24, 2020		Soil	S20-Ja26531			X							

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Melbourne Laboratory - NATA Site # 1254 & 14271															
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794							X								
Perth Laboratory - NATA Site # 23736															
50	MW1_4.0	Jan 24, 2020		Soil	S20-Ja26532									X	X
51	MW1_5.0	Jan 24, 2020		Soil	S20-Ja26533			X							
52	MW5_0.2	Jan 24, 2020		Soil	S20-Ja26686	X									
53	SB4_0.5	Jan 24, 2020		Soil	S20-Ja26696	X									
54	QA03	Jan 24, 2020		Soil	S20-Ja26697							X		X	X
55	QA01	Jan 24, 2020		Soil	S20-Ja26698	X									
56	QA02	Jan 24, 2020		Soil	S20-Ja26708			X							
57	QC02	Jan 24, 2020		Soil	S20-Ja26709			X							
Test Counts						14	33	33	1	1	1	5	1	15	14

Internal Quality Control Review and Glossary

General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with 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

S20-Ja26278, S20-Ja26282, S20-Ja26286: 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.

Eurofins shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

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NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Chris Bielby**

Report **698725-W**
Project name MASCOT
Project ID 58167
Received Date Jan 28, 2020

Client Sample ID			R20 **TS**	**TB**
Sample Matrix			**Water**	**Water**
Eurofins Sample No.			**S20-Ja26292**	**S20-Ja26293**
Date Sampled			**Jan 24, 2020**	**Jan 24, 2020**
Test/Reference	LOR	Unit		
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				
Naphthalene N02	0.01	mg/L	130	-
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				
TRH C6-C9	0.02	mg/L	-	< 0.02
BTEX				
Benzene	0.001	mg/L	93	-
Toluene	0.001	mg/L	94	-
Ethylbenzene	0.001	mg/L	96	-
m&p-Xylenes	0.002	mg/L	90	-
o-Xylene	0.001	mg/L	100	-
Xylenes - Total	0.003	mg/L	95	-
4-Bromofluorobenzene (surr.)	1	%	117	-

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	Jan 28, 2020	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Jan 28, 2020	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			

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Melbourne Laboratory - NATA Site # 1254 & 14271															
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794							X								
Perth Laboratory - NATA Site # 23736															
External Laboratory															
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**										
1	MW2_0.5	Jan 24, 2020		Soil	S20-Ja26278	X						X		X	X
2	MW2_2.0	Jan 24, 2020		Soil	S20-Ja26279									X	X
3	MW3_0.2	Jan 24, 2020		Soil	S20-Ja26280	X								X	X
4	MW3_3.0	Jan 24, 2020		Soil	S20-Ja26281									X	X
5	MW4_1.0	Jan 24, 2020		Soil	S20-Ja26282	X						X		X	X
6	SB1_0.2	Jan 24, 2020		Soil	S20-Ja26283	X						X		X	X
7	SB1_0.5	Jan 24, 2020		Soil	S20-Ja26284	X								X	X
8	SB2_0.2	Jan 24, 2020		Soil	S20-Ja26285	X									
9	SB2_0.5	Jan 24, 2020		Soil	S20-Ja26286	X									
10	SB2_1.0	Jan 24, 2020		Soil	S20-Ja26287							X		X	X

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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: MASCOT
Project ID: 58167

Order No.:
Report #: 698725
Phone: 02 8245 0300
Fax:

Received: Jan 28, 2020 9:47 AM
Due: Jan 29, 2020
Priority: 1 Day
Contact Name: Chris Bielby

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Asbestos - WA guidelines	HOLD	HOLD	TRH C6-C9	Polycyclic Aromatic Hydrocarbons	Metals M8	Eurofins | mgt Suite B13	BTEX and Naphthalene	Moisture Set	Eurofins | mgt Suite B7
Melbourne Laboratory - NATA Site # 1254 & 14271															
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794							X								
Perth Laboratory - NATA Site # 23736															
11	SB3_0.2	Jan 24, 2020		Soil	S20-Ja26288	X									
12	SB3_0.5	Jan 24, 2020		Soil	S20-Ja26289	X								X	X
13	SB4_0.2	Jan 24, 2020		Soil	S20-Ja26290	X									
14	SB4_1.0	Jan 24, 2020		Soil	S20-Ja26291									X	X
15	TS	Jan 24, 2020		Water	S20-Ja26292								X		
16	TB	Jan 24, 2020		Water	S20-Ja26293				X						
17	MW5_0.5	Jan 24, 2020		Soil	S20-Ja26294									X	X
18	MW1_0.2	Jan 24, 2020		Soil	S20-Ja26295	X								X	X
19	MW1_1.0	Jan 24, 2020		Soil	S20-Ja26296					X	X			X	
20	MW1_3.0	Jan 24, 2020		Soil	S20-Ja26297			X							
21	MW2_0.3	Jan 24, 2020		Soil	S20-Ja26503			X							
22	MW2_1.0	Jan 24, 2020		Soil	S20-Ja26504			X							
23	MW2_3.0	Jan 24, 2020		Soil	S20-Ja26505			X							

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Site # 1254 & 14271

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Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

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NATA # 1261 Site # 20794

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Melbourne Laboratory - NATA Site # 1254 & 14271															
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794							X								
Perth Laboratory - NATA Site # 23736															
24	MW2_4.0	Jan 24, 2020		Soil	S20-Ja26506			X							
25	MW2_5.0	Jan 24, 2020		Soil	S20-Ja26507			X							
26	MW3_0.5	Jan 24, 2020		Soil	S20-Ja26508			X							
27	MW3_1.0	Jan 24, 2020		Soil	S20-Ja26509			X							
28	MW3_2.0	Jan 24, 2020		Soil	S20-Ja26510			X							
29	MW4_0.5	Jan 24, 2020		Soil	S20-Ja26511			X							
30	MW4_2.0	Jan 24, 2020		Soil	S20-Ja26512			X							
31	MW4_3.0	Jan 24, 2020		Soil	S20-Ja26513			X							
32	MW4_4.0	Jan 24, 2020		Soil	S20-Ja26514			X							
33	MW4_5.0	Jan 24, 2020		Soil	S20-Ja26515			X							
34	SB1_1.0	Jan 24, 2020		Soil	S20-Ja26516		X								
35	SB1_2.0	Jan 24, 2020		Soil	S20-Ja26517			X							
36	SB1_3.0	Jan 24, 2020		Soil	S20-Ja26518		X								

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Melbourne Laboratory - NATA Site # 1254 & 14271															
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794							X								
Perth Laboratory - NATA Site # 23736															
37	SB2_2.0	Jan 24, 2020		Soil	S20-Ja26519			X							
38	SB2_3.0	Jan 24, 2020		Soil	S20-Ja26520		X								
39	SB3_1.0	Jan 24, 2020		Soil	S20-Ja26521		X								
40	SB3_2.0	Jan 24, 2020		Soil	S20-Ja26522			X							
41	SB3_3.0	Jan 24, 2020		Soil	S20-Ja26523		X								
42	SB4_1.8	Jan 24, 2020		Soil	S20-Ja26524		X								
43	SB4_3.0	Jan 24, 2020		Soil	S20-Ja26525		X								
44	MW5_1.0	Jan 24, 2020		Soil	S20-Ja26526			X							
45	MW5_2.0	Jan 24, 2020		Soil	S20-Ja26527			X							
46	MW5_3.0	Jan 24, 2020		Soil	S20-Ja26528			X							
47	MW5_4.0	Jan 24, 2020		Soil	S20-Ja26529			X							
48	MW5_5.0	Jan 24, 2020		Soil	S20-Ja26530			X							
49	MW1_2.0	Jan 24, 2020		Soil	S20-Ja26531			X							

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Melbourne Laboratory - NATA Site # 1254 & 14271															
Sydney Laboratory - NATA Site # 18217						X		X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794							X								
Perth Laboratory - NATA Site # 23736															
50	MW1_4.0	Jan 24, 2020		Soil	S20-Ja26532									X	X
51	MW1_5.0	Jan 24, 2020		Soil	S20-Ja26533			X							
52	MW5_0.2	Jan 24, 2020		Soil	S20-Ja26686	X									
53	SB4_0.5	Jan 24, 2020		Soil	S20-Ja26696	X									
54	QA03	Jan 24, 2020		Soil	S20-Ja26697							X		X	X
55	QA01	Jan 24, 2020		Soil	S20-Ja26698	X									
56	QA02	Jan 24, 2020		Soil	S20-Ja26708			X							
57	QC02	Jan 24, 2020		Soil	S20-Ja26709			X							
Test Counts						14	33	33	1	1	1	5	1	15	14

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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 - 2013 NEPM Fractions							
Naphthalene	mg/L	< 0.01			0.01	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	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 - 2013 NEPM Fractions							
Naphthalene	%	104			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	92			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	80			70-130	Pass	
Toluene	%	90			70-130	Pass	
Ethylbenzene	%	93			70-130	Pass	
m&p-Xylenes	%	86			70-130	Pass	
o-Xylene	%	94			70-130	Pass	
Xylenes - Total	%	88			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S20-Ja14168	NCP	%	95			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S20-Ja14168	NCP	%	90			70-130	Pass	
Toluene	S20-Ja14168	NCP	%	95			70-130	Pass	
Ethylbenzene	S20-Ja14168	NCP	%	95			70-130	Pass	
m&p-Xylenes	S20-Ja14168	NCP	%	91			70-130	Pass	
o-Xylene	S20-Ja14168	NCP	%	95			70-130	Pass	
Xylenes - Total	S20-Ja14168	NCP	%	92			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S20-Ja14168	NCP	%	98			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S20-Ja18704	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	

Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S20-Ja18704	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Toluene	S20-Ja18704	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Ethylbenzene	S20-Ja18704	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
m&p-Xylenes	S20-Ja18704	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
o-Xylene	S20-Ja18704	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Xylenes - Total	S20-Ja18704	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S20-Ja18704	NCP	mg/L	< 0.02	< 0.02	<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
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.
R20	This sample is a Trip Spike and therefore all results are reported as a percentage

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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Sample Receipt Advice

Company name: **JBS & G Australia (NSW) P/L**

Contact name: Chris Bielby
Project name: MASCOT
Project ID: 58167
COC number: Not provided
Turn around time: 1 Day
Date/Time received: Jan 28, 2020 9:47 AM
Eurofins reference: **698725**

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 : 1.7 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

Bag received for sample ID SB2_1.0. Sample jars; QA02 and QC02 received extra - analysis on hold.

Contact notes

If you have any questions with respect to these samples please contact:

Ursula Long on Phone : or by e.mail: UrsulaLong@eurofins.com

Results will be delivered electronically via e.mail to Chris Bielby - cbielby@jbsg.com.au.

Note: A copy of these results will also be delivered to the general JBS & G Australia (NSW) P/L email address.

Soil 1/1

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 58167 58167

PROJECT NAME: MASCOT

DATE NEEDED BY: 24 hr

LABORATORY BATCH NO.: 693725

SAMPLERS: PG / JD

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) [illegible]@jbsg.com.au; (3) [illegible]@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

pls put everything on hold. updated COC will be emailed

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	PAHs	TPH/BTEX	OCP/PCBs	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
MW2 - 0.3	Soil	[illegible]		Jar + bag								
- 0.5				↓								
- 1.0				Jar		✓	✓	✓	✓			
- 2.0										✓		
- 3.0						✓	✓	✓				
- 4.0												
- 5.0				↓								
MW3 - 0.2				Jar + bag								
- 0.5				Jar + bag		✓	✓	✓				
- 1.0				Jar		[illegible]				✓		
- 2.0												
- 3.0				↓								
MW4 - 0.4				Jar + bag		✓	✓	✓				
- 1.0				[illegible]								
- 2.0				Jar		✓	✓	✓	✓			
- 3.0										✓		
- 4.0												
- 5.0												

RELINQUISHED BY:

NAME: [illegible] DATE: [illegible]

OF: JBS&G

NAME: DATE:

OF:

METHOD OF SHIPMENT:

CONSIGNMENT NOTE NO.

TRANSPORT CO.

CONSIGNMENT NOTE NO.

TRANSPORT CO

RECEIVED BY:

NAME: [illegible]

DATE: 30/7/2020 9:47 AM

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 Forms013 - Chain of Custody - Generic

SOIL 21

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 53167

PROJECT NAME: MAJCOT GARDENER RD

DATE NEEDED BY:

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) [illegible]@jbsg.com.au; (3) [illegible]@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	PAHs	TPH/BTEX	OCP/PCBs	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM WA	NOTES:
SB1 - 0.2	SOIL	7/10/20		Jar + bag		✓	✓	✓	✓		✓	
0.5				↓								
1.0				Jar + bag (spoons)		✓	✓	✓				
2.0				Jar								
3.0				Jar + bag (spoons)								
SB2 - 0.2				Jar + bag								
0.5				↓							✓	
1.0				Jar		✓	✓	✓	✓			
2.0				↓								
3.0				Jar + bag (spoons)								
SB3 - 0.2				Jar + bag								
0.5				Jar + bag		✓	✓	✓			✓	
1.0				Jar + bag (spoons)							✓	
2.0				Jar								
3.0				Jar + bag (spoons)								
SB4 - 0.2				Jar + bag								
0.5				↓							✓	
1.0				Jar		✓	✓					
[illegible]				Jar + bag (spoons)								

RELINQUISHED BY:

NAME: DATE:

OF: JBS&G

NAME: DATE:

OF:

METHOD OF SHIPMENT:

CONSIGNMENT NOTE NO.

TRANSPORT CO.

CONSIGNMENT NOTE NO.

TRANSPORT CO

RECEIVED BY:

NAME: [illegible]

DATE: 14/7/2020 9:44AM

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

TMSO Forms013 - Chain of Custody - Generic

SOIL 3/:

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 58167
PROJECT NAME: MAJECT WAGGONERS CD
DATE NEEDED BY:
PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....@jbsg.com.au; (3) .....@jbsg.com.au

LABORATORY BATCH NO.:
SAMPLERS:
QC LEVEL: NEPM (2013)

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	TRH & C6	BTEX	Heavy Metals	PAHs	TPH/BTEX	OCP/PCBs	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	NEPM/WA	NOTES:
SA1-0.0-0.1	Soil	4/10		J QR				/	/	/	/			
BH5 0.0-0.1				BAG									/	
DUP														
SB4-3 C				Jar + bag (spugs)										
TS	Water	23/10		2x vial										
TB	Water	↓		2x vial		X	X							
MW1 - 0.1				Jar + bag										
- 0.5				Jar				/	/	/			/	
- 1.0														
- 2.0														
- 3.0														
- 4.0														
- 5.0				↓										
MW1 - 0.2				Jar + bag		X	X	/	/	/				
- 1.0				Jar + bag		X	X	/	/	/			/	
- 2.0				Jar + bag										
- 3.0				Jar				/	/	/				
- 4.0				Jar										
- 5.0				Jar										

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE:	CONSIGNMENT NOTE NO	NAME: Stephanie Ford	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 28/1/2020 9:47am	
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 Forms013 - Chain of Custody - Generic

#AU04_Enviro_Sample_NSW

To: Chris Bielby
Subject: RE: ATTENTION:Eurofins Sample Receipt Advice - Report 698725 : Site MASCOT (58167)

From: Chris Bielby [mailto:CBielby@jbsg.com.au]
Sent: Tuesday, 28 January 2020 5:08 PM
To: #AU04_Enviro_Sample_NSW
Cc: Justin Da Costa; Rachel Gray
Subject: Re: ATTENTION:Eurofins Sample Receipt Advice - Report 698725 : Site MASCOT (58167)

Please analyse MW1 4.0 instead.

Sent from my iPhone

On 28 Jan 2020, at 4:23 pm, "EnviroSampleNSW@eurofins.com" <EnviroSampleNSW@eurofins.com> wrote:

> Dear Valued Client,
>
> Two sample jars received for sample ID; MW1_3.0 - logged for analysis, please advise otherwise.
> Bag received for sample ID SB2_1.0. Sample jars; QA02 and QC02 received extra - analysis 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 | mgt Analytical Services Manager as soon as possible to make certain that they get changed.
>
> Regards
>
> Suzanne Ford
> **Sample Receipt**
>
> **Eurofins | Environment Testing**
> Unit F3, Parkview Building
> 16 Mars Road
> LANE COVE WEST NSW 2066
> AUSTRALIA
> Phone: +61 29900 8492
> Email: EnviroSampleNSW@eurofins.com
> Website:environment.eurofins.com.au
>
> EnviroNote 1079 - PFAS Fingerprinting
> EnviroNote 1080 - Total Organofluorine Analysis & PFAS Investigations
> EnviroNote 1079 - PFAS Fingerprinting
> EnviroNote 1080 - Total Organofluorine Analysis & PFAS Investigations
>
> <698725_COC.pdf>
>
> <698725_sample_receipt_coc.pdf>

<698725_summary.pdf>

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

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Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Chris Bielby**

Report **698721-W**
Project name MASCOT
Project ID 58167
Received Date Jan 28, 2020

Client Sample ID			**MW1**	**MW2**	**MW3**	**MW4**
Sample Matrix			**Water**	**Water**	**Water**	**Water**
Eurofins Sample No.			**S20-Ja26115**	**S20-Ja26116**	**S20-Ja26117**	**S20-Ja26118**
Date Sampled			**Jan 25, 2020**	**Jan 25, 2020**	**Jan 25, 2020**	**Jan 25, 2020**
Test/Reference	LOR	Unit				
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	< 0.05
TRH >C10-C16 less Naphthalene (F2)[N01]	0.05	mg/L	< 0.05	< 0.05	< 0.05	< 0.05
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	< 0.1
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	< 0.1	< 0.1	0.2	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	0.2	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	%	128	122	76	124
Volatile Organics						
1.1-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.1-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.1.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.2-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.1.2.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dibromoethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2.3-Trichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.2.4-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001

Client Sample ID			MW1	MW2	MW3	MW4
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-Ja26115	S20-Ja26116	S20-Ja26117	S20-Ja26118
Date Sampled			Jan 25, 2020	Jan 25, 2020	Jan 25, 2020	Jan 25, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
1.3-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.3-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.3.5-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
1.4-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
2-Butanone (MEK)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
2-Propanone (Acetone)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
4-Chlorotoluene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
4-Methyl-2-pentanone (MIBK)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Allyl chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromochloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromodichloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromoform	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Bromomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Carbon disulfide	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Carbon Tetrachloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chloroform	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Chloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
cis-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	0.004	< 0.001
cis-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dibromochloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dibromomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dichlorodifluoromethane	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
Iodomethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Isopropyl benzene (Cumene)	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
Methylene Chloride	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
o-Xylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Styrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Tetrachloroethene	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
trans-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
trans-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Trichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Trichlorofluoromethane	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Vinyl chloride	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
Total MAH*	0.003	mg/L	< 0.003	< 0.003	< 0.003	< 0.003
Vic EPA IWRG 621 CHC (Total)*	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Vic EPA IWRG 621 Other CHC (Total)*	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
4-Bromofluorobenzene (surr.)	1	%	128	122	76	124
Toluene-d8 (surr.)	1	%	99	91	85	87

Client Sample ID			MW1	MW2	MW3	MW4
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-Ja26115	S20-Ja26116	S20-Ja26117	S20-Ja26118
Date Sampled			Jan 25, 2020	Jan 25, 2020	Jan 25, 2020	Jan 25, 2020
Test/Reference	LOR	Unit				
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
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	%	50	66	75	73
p-Terphenyl-d14 (surr.)	1	%	57	70	99	104
Heavy Metals						
Arsenic (filtered)	0.001	mg/L	0.038	0.006	0.011	0.018
Cadmium (filtered)	0.0002	mg/L	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Chromium (filtered)	0.001	mg/L	0.001	< 0.001	0.001	< 0.001
Copper (filtered)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Lead (filtered)	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Mercury (filtered)	0.0001	mg/L	0.0001	< 0.0001	< 0.0001	< 0.0001
Nickel (filtered)	0.001	mg/L	0.001	0.004	0.028	0.013
Zinc (filtered)	0.005	mg/L	< 0.005	0.008	< 0.005	< 0.005

Client Sample ID			MW5	QA	R20TS	TB
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-Ja26119	S20-Ja26120	S20-Ja26121	S20-Ja26122
Date Sampled			Jan 25, 2020	Jan 25, 2020	Jan 25, 2020	Jan 25, 2020
Test/Reference	LOR	Unit				
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	-	-
TRH >C10-C16 less Naphthalene (F2)[N01]	0.05	mg/L	< 0.05	< 0.05	-	-
TRH >C16-C34	0.1	mg/L	< 0.1	< 0.1	-	-
TRH >C34-C40	0.1	mg/L	< 0.1	< 0.1	-	-
TRH >C10-C40 (total)*	0.1	mg/L	< 0.1	< 0.1	-	-
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	-	-
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	-	-

Client Sample ID			MW5	QA	R20TS	TB
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-Ja26119	S20-Ja26120	S20-Ja26121	S20-Ja26122
Date Sampled			Jan 25, 2020	Jan 25, 2020	Jan 25, 2020	Jan 25, 2020
Test/Reference	LOR	Unit				
BTEX						
Benzene	0.001	mg/L	< 0.001	< 0.001	98	< 0.001
Toluene	0.001	mg/L	< 0.001	< 0.001	99	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001	100	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002	< 0.002	98	< 0.002
o-Xylene	0.001	mg/L	< 0.001	< 0.001	110	< 0.001
Xylenes - Total	0.003	mg/L	< 0.003	< 0.003	100	< 0.003
4-Bromofluorobenzene (surr.)	1	%	116	109	116	111
Volatile Organics						
1.1-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	-	-
1.1-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	-	-
1.1.1-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	-	-
1.1.1.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	-	-
1.1.2-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	-	-
1.1.2.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	-	-
1.2-Dibromoethane	0.001	mg/L	< 0.001	< 0.001	-	-
1.2-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	-	-
1.2-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	-	-
1.2-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	-	-
1.2.3-Trichloropropane	0.001	mg/L	< 0.001	< 0.001	-	-
1.2.4-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	-	-
1.3-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	-	-
1.3-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	-	-
1.3.5-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	-	-
1.4-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	-	-
2-Butanone (MEK)	0.001	mg/L	< 0.001	< 0.001	-	-
2-Propanone (Acetone)	0.001	mg/L	< 0.001	< 0.001	-	-
4-Chlorotoluene	0.001	mg/L	< 0.001	< 0.001	-	-
4-Methyl-2-pentanone (MIBK)	0.001	mg/L	< 0.001	< 0.001	-	-
Allyl chloride	0.001	mg/L	< 0.001	< 0.001	-	-
Benzene	0.001	mg/L	< 0.001	< 0.001	-	-
Bromobenzene	0.001	mg/L	< 0.001	< 0.001	-	-
Bromochloromethane	0.001	mg/L	< 0.001	< 0.001	-	-
Bromodichloromethane	0.001	mg/L	< 0.001	< 0.001	-	-
Bromoform	0.001	mg/L	< 0.001	< 0.001	-	-
Bromomethane	0.001	mg/L	< 0.001	< 0.001	-	-
Carbon disulfide	0.001	mg/L	< 0.001	< 0.001	-	-
Carbon Tetrachloride	0.001	mg/L	< 0.001	< 0.001	-	-
Chlorobenzene	0.001	mg/L	< 0.001	< 0.001	-	-
Chloroethane	0.001	mg/L	< 0.001	< 0.001	-	-
Chloroform	0.005	mg/L	< 0.005	< 0.005	-	-
Chloromethane	0.001	mg/L	< 0.001	< 0.001	-	-
cis-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	-	-
cis-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	-	-
Dibromochloromethane	0.001	mg/L	< 0.001	< 0.001	-	-
Dibromomethane	0.001	mg/L	< 0.001	< 0.001	-	-
Dichlorodifluoromethane	0.001	mg/L	< 0.001	< 0.001	-	-
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001	-	-
Iodomethane	0.001	mg/L	< 0.001	< 0.001	-	-
Isopropyl benzene (Cumene)	0.001	mg/L	< 0.001	< 0.001	-	-

Client Sample ID			MW5	QA	R20TS	TB
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-Ja26119	S20-Ja26120	S20-Ja26121	S20-Ja26122
Date Sampled			Jan 25, 2020	Jan 25, 2020	Jan 25, 2020	Jan 25, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
m&p-Xylenes	0.002	mg/L	< 0.002	< 0.002	-	-
Methylene Chloride	0.001	mg/L	< 0.001	< 0.001	-	-
o-Xylene	0.001	mg/L	< 0.001	< 0.001	-	-
Styrene	0.001	mg/L	< 0.001	< 0.001	-	-
Tetrachloroethene	0.001	mg/L	< 0.001	< 0.001	-	-
Toluene	0.001	mg/L	< 0.001	< 0.001	-	-
trans-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	-	-
trans-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	-	-
Trichloroethene	0.001	mg/L	< 0.001	< 0.001	-	-
Trichlorofluoromethane	0.001	mg/L	< 0.001	< 0.001	-	-
Vinyl chloride	0.001	mg/L	< 0.001	< 0.001	-	-
Xylenes - Total	0.003	mg/L	< 0.003	< 0.003	-	-
Total MAH*	0.003	mg/L	< 0.003	< 0.003	-	-
Vic EPA IWRG 621 CHC (Total)*	0.005	mg/L	< 0.005	< 0.005	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.005	mg/L	< 0.005	< 0.005	-	-
4-Bromofluorobenzene (surr.)	1	%	116	109	-	-
Toluene-d8 (surr.)	1	%	92	92	-	-
Polycyclic Aromatic Hydrocarbons (Trace level)						
Acenaphthene	0.00001	mg/L	0.00004	< 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	0.00003	< 0.00001	-	-
Benzo(a)pyrene	0.00001	mg/L	0.00002	< 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	0.00002	< 0.00001	-	-
Chrysene	0.00001	mg/L	0.00002	< 0.00001	-	-
Dibenz(a.h)anthracene	0.00001	mg/L	< 0.00001	< 0.00001	-	-
Fluoranthene	0.00001	mg/L	0.00005	< 0.00001	-	-
Fluorene	0.00001	mg/L	0.00002	< 0.00001	-	-
Indeno(1.2.3-cd)pyrene	0.00001	mg/L	< 0.00001	< 0.00001	-	-
Naphthalene	0.00001	mg/L	0.00004	< 0.00001	-	-
Phenanthrene	0.00001	mg/L	0.00006	< 0.00001	-	-
Pyrene	0.00001	mg/L	0.00005	< 0.00001	-	-
Total PAH*	0.00001	mg/L	0.00037	< 0.00001	-	-
2-Fluorobiphenyl (surr.)	1	%	77	72	-	-
p-Terphenyl-d14 (surr.)	1	%	69	68	-	-
Heavy Metals						
Arsenic (filtered)	0.001	mg/L	0.011	0.038	-	-
Cadmium (filtered)	0.0002	mg/L	< 0.0002	< 0.0002	-	-
Chromium (filtered)	0.001	mg/L	< 0.001	0.001	-	-
Copper (filtered)	0.001	mg/L	< 0.001	< 0.001	-	-
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	0.004	0.001	-	-
Zinc (filtered)	0.005	mg/L	< 0.005	< 0.005	-	-

Client Sample ID			RINSATE
Sample Matrix			Water
Eurofins Sample No.			S20-Ja26123
Date Sampled			Jan 25, 2020
Test/Reference	LOR	Unit	
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
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
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	%	130
Volatile Organics			
1.1-Dichloroethane	0.001	mg/L	< 0.001
1.1-Dichloroethene	0.001	mg/L	< 0.001
1.1.1-Trichloroethane	0.001	mg/L	< 0.001
1.1.1.2-Tetrachloroethane	0.001	mg/L	< 0.001
1.1.2-Trichloroethane	0.001	mg/L	< 0.001
1.1.2.2-Tetrachloroethane	0.001	mg/L	< 0.001
1.2-Dibromoethane	0.001	mg/L	< 0.001
1.2-Dichlorobenzene	0.001	mg/L	< 0.001
1.2-Dichloroethane	0.001	mg/L	< 0.001
1.2-Dichloropropane	0.001	mg/L	< 0.001
1.2.3-Trichloropropane	0.001	mg/L	< 0.001
1.2.4-Trimethylbenzene	0.001	mg/L	< 0.001
1.3-Dichlorobenzene	0.001	mg/L	< 0.001
1.3-Dichloropropane	0.001	mg/L	< 0.001
1.3.5-Trimethylbenzene	0.001	mg/L	< 0.001
1.4-Dichlorobenzene	0.001	mg/L	< 0.001
2-Butanone (MEK)	0.001	mg/L	< 0.001
2-Propanone (Acetone)	0.001	mg/L	< 0.001
4-Chlorotoluene	0.001	mg/L	< 0.001
4-Methyl-2-pentanone (MIBK)	0.001	mg/L	< 0.001
Allyl chloride	0.001	mg/L	< 0.001
Benzene	0.001	mg/L	< 0.001
Bromobenzene	0.001	mg/L	< 0.001
Bromochloromethane	0.001	mg/L	< 0.001
Bromodichloromethane	0.001	mg/L	< 0.001
Bromoform	0.001	mg/L	< 0.001

Client Sample ID			RINSATE
Sample Matrix			Water
Eurofins Sample No.			S20-Ja26123
Date Sampled			Jan 25, 2020
Test/Reference	LOR	Unit	
Volatile Organics			
Bromomethane	0.001	mg/L	< 0.001
Carbon disulfide	0.001	mg/L	< 0.001
Carbon Tetrachloride	0.001	mg/L	< 0.001
Chlorobenzene	0.001	mg/L	< 0.001
Chloroethane	0.001	mg/L	< 0.001
Chloroform	0.005	mg/L	< 0.005
Chloromethane	0.001	mg/L	< 0.001
cis-1.2-Dichloroethene	0.001	mg/L	< 0.001
cis-1.3-Dichloropropene	0.001	mg/L	< 0.001
Dibromochloromethane	0.001	mg/L	< 0.001
Dibromomethane	0.001	mg/L	< 0.001
Dichlorodifluoromethane	0.001	mg/L	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001
Iodomethane	0.001	mg/L	< 0.001
Isopropyl benzene (Cumene)	0.001	mg/L	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002
Methylene Chloride	0.001	mg/L	< 0.001
o-Xylene	0.001	mg/L	< 0.001
Styrene	0.001	mg/L	< 0.001
Tetrachloroethene	0.001	mg/L	< 0.001
Toluene	0.001	mg/L	< 0.001
trans-1.2-Dichloroethene	0.001	mg/L	< 0.001
trans-1.3-Dichloropropene	0.001	mg/L	< 0.001
Trichloroethene	0.001	mg/L	< 0.001
Trichlorofluoromethane	0.001	mg/L	< 0.001
Vinyl chloride	0.001	mg/L	< 0.001
Xylenes - Total	0.003	mg/L	< 0.003
Total MAH*	0.003	mg/L	< 0.003
Vic EPA IWRG 621 CHC (Total)*	0.005	mg/L	< 0.005
Vic EPA IWRG 621 Other CHC (Total)*	0.005	mg/L	< 0.005
4-Bromofluorobenzene (surr.)	1	%	130
Toluene-d8 (surr.)	1	%	122
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	< 0.00001
Indeno(1.2.3-cd)pyrene	0.00001	mg/L	< 0.00001
Naphthalene	0.00001	mg/L	< 0.00001
Phenanthrene	0.00001	mg/L	< 0.00001
Pyrene	0.00001	mg/L	< 0.00001

Client Sample ID			RINSATE
Sample Matrix			**Water**
Eurofins Sample No.			**S20-Ja26123**
Date Sampled			**Jan 25, 2020**
Test/Reference	LOR	Unit	
Polycyclic Aromatic Hydrocarbons (Trace level)			
Total PAH*	0.00001	mg/L	< 0.00001
2-Fluorobiphenyl (surr.)	1	%	80
p-Terphenyl-d14 (surr.)	1	%	81
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

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 - 2013 NEPM Fractions	Sydney	Jan 28, 2020	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons	Sydney	Jan 28, 2020	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Jan 28, 2020	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Jan 28, 2020	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jan 28, 2020	
- Method: LTM-ORG-2010 TRH C6-C40			
Volatile Organics	Sydney	Jan 28, 2020	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices			
Polycyclic Aromatic Hydrocarbons (Trace level)	Melbourne	Jan 29, 2020	7 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water (trace)			
Metals M8 filtered	Sydney	Jan 28, 2020	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			

eurofins | Environment Testing

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

Project Name: MASCOT
Project ID: 58167

Order No.:
Report #: 698721
Phone: 02 8245 0300
Fax:

Received: Jan 28, 2020 1:00 PM
Due: Jan 29, 2020
Priority: 1 Day
Contact Name: Chris Bielby

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Metals M8 filtered	BTEX	Volatile Organics	Total Recoverable Hydrocarbons	BTEXN and Volatile TRH	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271											X
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794											
Perth Laboratory - NATA Site # 23736											
External Laboratory											
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**						
1	MW1	Jan 25, 2020		Water	S20-Ja26115	X	X	X	X		X
2	MW2	Jan 25, 2020		Water	S20-Ja26116	X	X	X	X		X
3	MW3	Jan 25, 2020		Water	S20-Ja26117	X	X	X	X		X
4	MW4	Jan 25, 2020		Water	S20-Ja26118	X	X	X	X		X
5	MW5	Jan 25, 2020		Water	S20-Ja26119	X	X	X	X		X
6	QA	Jan 25, 2020		Water	S20-Ja26120	X	X	X	X		X
7	TS	Jan 25, 2020		Water	S20-Ja26121		X				
8	TB	Jan 25, 2020		Water	S20-Ja26122					X	
9	RINSATE	Jan 25, 2020		Water	S20-Ja26123	X	X	X	X		X
Test Counts						7	8	7	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 - 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							
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							
Volatile Organics							
1.1-Dichloroethane	mg/L	< 0.001			0.001	Pass	
1.1-Dichloroethene	mg/L	< 0.001			0.001	Pass	
1.1.1-Trichloroethane	mg/L	< 0.001			0.001	Pass	
1.1.1.2-Tetrachloroethane	mg/L	< 0.001			0.001	Pass	
1.1.2-Trichloroethane	mg/L	< 0.001			0.001	Pass	
1.1.2.2-Tetrachloroethane	mg/L	< 0.001			0.001	Pass	
1.2-Dibromoethane	mg/L	< 0.001			0.001	Pass	
1.2-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
1.2-Dichloroethane	mg/L	< 0.001			0.001	Pass	
1.2-Dichloropropane	mg/L	< 0.001			0.001	Pass	
1.2.3-Trichloropropane	mg/L	< 0.001			0.001	Pass	
1.2.4-Trimethylbenzene	mg/L	< 0.001			0.001	Pass	
1.3-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
1.3-Dichloropropane	mg/L	< 0.001			0.001	Pass	
1.3.5-Trimethylbenzene	mg/L	< 0.001			0.001	Pass	
1.4-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
2-Butanone (MEK)	mg/L	< 0.001			0.001	Pass	
2-Propanone (Acetone)	mg/L	< 0.001			0.001	Pass	
4-Chlorotoluene	mg/L	< 0.001			0.001	Pass	
4-Methyl-2-pentanone (MIBK)	mg/L	< 0.001			0.001	Pass	
Allyl chloride	mg/L	< 0.001			0.001	Pass	
Bromobenzene	mg/L	< 0.001			0.001	Pass	
Bromochloromethane	mg/L	< 0.001			0.001	Pass	
Bromodichloromethane	mg/L	< 0.001			0.001	Pass	
Bromoform	mg/L	< 0.001			0.001	Pass	
Bromomethane	mg/L	< 0.001			0.001	Pass	
Carbon disulfide	mg/L	< 0.001			0.001	Pass	
Carbon Tetrachloride	mg/L	< 0.001			0.001	Pass	
Chlorobenzene	mg/L	< 0.001			0.001	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Chloroethane	mg/L	< 0.001			0.001	Pass	
Chloroform	mg/L	< 0.005			0.005	Pass	
Chloromethane	mg/L	< 0.001			0.001	Pass	
cis-1.2-Dichloroethene	mg/L	< 0.001			0.001	Pass	
cis-1.3-Dichloropropene	mg/L	< 0.001			0.001	Pass	
Dibromochloromethane	mg/L	< 0.001			0.001	Pass	
Dibromomethane	mg/L	< 0.001			0.001	Pass	
Dichlorodifluoromethane	mg/L	< 0.001			0.001	Pass	
Iodomethane	mg/L	< 0.001			0.001	Pass	
Isopropyl benzene (Cumene)	mg/L	< 0.001			0.001	Pass	
Methylene Chloride	mg/L	< 0.001			0.001	Pass	
Styrene	mg/L	< 0.001			0.001	Pass	
Tetrachloroethene	mg/L	< 0.001			0.001	Pass	
trans-1.2-Dichloroethene	mg/L	< 0.001			0.001	Pass	
trans-1.3-Dichloropropene	mg/L	< 0.001			0.001	Pass	
Trichloroethene	mg/L	< 0.001			0.001	Pass	
Trichlorofluoromethane	mg/L	< 0.001			0.001	Pass	
Vinyl chloride	mg/L	< 0.001			0.001	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			0.00001	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 - 2013 NEPM Fractions							
Naphthalene	%	114			70-130	Pass	
TRH C6-C10	%	98			70-130	Pass	
TRH >C10-C16	%	73			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
TRH C6-C9	%	92			70-130	Pass	
TRH C10-C14	%	70			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	108			70-130	Pass	
Toluene	%	97			70-130	Pass	
Ethylbenzene	%	83			70-130	Pass	
m&p-Xylenes	%	106			70-130	Pass	
o-Xylene	%	98			70-130	Pass	
Xylenes - Total	%	103			70-130	Pass	
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethene	%	105			70-130	Pass	
1.1.1-Trichloroethane	%	90			70-130	Pass	
1.2-Dichlorobenzene	%	102			70-130	Pass	
1.2-Dichloroethane	%	102			70-130	Pass	
Trichloroethene	%	99			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons (Trace level)							
Acenaphthene	%	112			70-130	Pass	
Acenaphthylene	%	113			70-130	Pass	
Anthracene	%	118			70-130	Pass	
Benz(a)anthracene	%	81			70-130	Pass	
Benzo(a)pyrene	%	107			70-130	Pass	
Benzo(b&j)fluoranthene	%	74			70-130	Pass	
Benzo(g.h.i)perylene	%	82			70-130	Pass	
Benzo(k)fluoranthene	%	104			70-130	Pass	
Chrysene	%	93			70-130	Pass	
Dibenz(a.h)anthracene	%	106			70-130	Pass	
Fluoranthene	%	111			70-130	Pass	
Fluorene	%	116			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	103			70-130	Pass	
Naphthalene	%	92			70-130	Pass	
Phenanthrene	%	94			70-130	Pass	
Pyrene	%	110			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic (filtered)	%	100			70-130	Pass	
Cadmium (filtered)	%	98			70-130	Pass	
Chromium (filtered)	%	98			70-130	Pass	
Copper (filtered)	%	96			70-130	Pass	
Lead (filtered)	%	99			70-130	Pass	
Mercury (filtered)	%	96			70-130	Pass	
Nickel (filtered)	%	98			70-130	Pass	
Zinc (filtered)	%	96			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 (filtered)	S20-Ja17545	NCP	%	98			70-130	Pass	
Cadmium (filtered)	S20-Ja17545	NCP	%	91			70-130	Pass	
Chromium (filtered)	S20-Ja17545	NCP	%	91			70-130	Pass	
Copper (filtered)	S20-Ja17545	NCP	%	90			70-130	Pass	
Lead (filtered)	S20-Ja17545	NCP	%	91			70-130	Pass	
Mercury (filtered)	S20-Ja17545	NCP	%	106			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Nickel (filtered)	S20-Ja17545	NCP	%	92			70-130	Pass	
Zinc (filtered)	S20-Ja17545	NCP	%	52			70-130	Fail	Q08
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH >C10-C16	S20-Ja26116	CP	%	70			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C10-C14	S20-Ja26116	CP	%	71			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S20-Ja14168	NCP	%	90			70-130	Pass	
Toluene	S20-Ja14168	NCP	%	95			70-130	Pass	
Ethylbenzene	S20-Ja14168	NCP	%	95			70-130	Pass	
m&p-Xylenes	S20-Ja14168	NCP	%	91			70-130	Pass	
o-Xylene	S20-Ja14168	NCP	%	95			70-130	Pass	
Xylenes - Total	S20-Ja14168	NCP	%	92			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S20-Ja14168	NCP	%	95			70-130	Pass	
TRH C6-C10	S20-Ja14168	NCP	%	98			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S20-Ja14168	NCP	%	98			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
TRH >C10-C16	S20-Ja26115	CP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH >C16-C34	S20-Ja26115	CP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH >C34-C40	S20-Ja26115	CP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C10-C14	S20-Ja26115	CP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH C15-C28	S20-Ja26115	CP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH C29-C36	S20-Ja26115	CP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic (filtered)	S20-Ja26115	CP	mg/L	0.038	0.038	1.0	30%	Pass	
Cadmium (filtered)	S20-Ja26115	CP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Chromium (filtered)	S20-Ja26115	CP	mg/L	0.001	0.001	7.0	30%	Pass	
Copper (filtered)	S20-Ja26115	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Lead (filtered)	S20-Ja26115	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Mercury (filtered)	S20-Ja26115	CP	mg/L	0.0001	< 0.0001	42	30%	Fail	Q15
Nickel (filtered)	S20-Ja26115	CP	mg/L	0.001	< 0.001	10	30%	Pass	
Zinc (filtered)	S20-Ja26115	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S20-Ja18704	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Toluene	S20-Ja18704	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Ethylbenzene	S20-Ja18704	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
m&p-Xylenes	S20-Ja18704	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
o-Xylene	S20-Ja18704	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Xylenes - Total	S20-Ja18704	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	

Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S20-Ja18704	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
TRH C6-C10	S20-Ja18704	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S20-Ja18704	NCP	mg/L	< 0.02	< 0.02	<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.
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.
R20	This sample is a Trip Spike and therefore all results are reported as a percentage

Authorised By

Ursula Long	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)
Gabriele Cordero	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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Sample Receipt Advice

Company name: **JBS & G Australia (NSW) P/L**

Contact name: Chris Bielby
Project name: MASCOT
Project ID: 58167
COC number: 20310
Turn around time: 1 Day
Date/Time received: Jan 28, 2020 1:00 PM
Eurofins reference: **698721**

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 : 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).

Contact notes

If you have any questions with respect to these samples please contact:

Ursula Long on Phone : or by e.mail: UrsulaLong@eurofins.com

Results will be delivered electronically via e.mail to Chris Bielby - cbielby@jbsg.com.au.

Note: A copy of these results will also be delivered to the general JBS & G Australia (NSW) P/L email address.

20310

CHAIN OF CUSTODY

PROJECT NO.: 58167	LABORATORY BATCH NO.:
PROJECT NAME: Mascot	SAMPLERS: MN
DATE NEEDED BY: 24 hour turnaround	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) cbielby@jbsg.com.au; (3) dacosta@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	low level PAH	TRH/BTEX	VOCs		TPH C6-C9 BTEX													TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES: 698721
MW1	Water	25/1/20		1x amber, 2x vial, 1x metals		x	x	x	x																
MW2	↓	↓		↓		↓	↓	↓	↓																
MW3																									
MW4																									
MW5																									
QA																									
TS				2x vial							X														
TB	↓	↓		2x vial							X														
Rinsate				2x vial, 1x amber, 1x metals		x	x	x	x																

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Justin DATE: 28/1	CONSIGNMENT NOTE NO.	NAME: Lisa D DATE: 28/01	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	OF: Eurofins 1:00 pm	COOLER TEMP ..... deg C 8.3°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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CERTIFICATE OF ANALYSIS 235361

Client Details

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

Sample Details

Your Reference	**58167, Mascot**
Number of Samples	1 water
Date samples received	28/01/2020
Date completed instructions received	28/01/2020

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	29/01/2020
Date of Issue	29/01/2020

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

Results Approved By
Josh Williams, Senior Chemist
Loren Bardwell, Senior Chemist

Authorised By

Nancy Zhang, Laboratory Manager

VOCs in water		
Our Reference		235361-1
Your Reference	UNITS	QC
Date Sampled		25/01/2020
Type of sample		water
Date extracted	-	28/01/2020
Date analysed	-	29/01/2020
Dichlorodifluoromethane	µg/L	<10
Chloromethane	µg/L	<10
Vinyl Chloride	µg/L	<10
Bromomethane	µg/L	<10
Chloroethane	µg/L	<10
Trichlorofluoromethane	µg/L	<10
1,1-Dichloroethene	µg/L	<1
Trans-1,2-dichloroethene	µg/L	<1
1,1-dichloroethane	µg/L	<1
Cis-1,2-dichloroethene	µg/L	<1
Bromochloromethane	µg/L	<1
Chloroform	µg/L	<1
2,2-dichloropropane	µg/L	<1
1,2-dichloroethane	µg/L	<1
1,1,1-trichloroethane	µg/L	<1
1,1-dichloropropene	µg/L	<1
Cyclohexane	µg/L	<1
Carbon tetrachloride	µg/L	<1
Benzene	µg/L	<1
Dibromomethane	µg/L	<1
1,2-dichloropropane	µg/L	<1
Trichloroethene	µg/L	<1
Bromodichloromethane	µg/L	<1
trans-1,3-dichloropropene	µg/L	<1
cis-1,3-dichloropropene	µg/L	<1
1,1,2-trichloroethane	µg/L	<1
Toluene	µg/L	<1
1,3-dichloropropane	µg/L	<1
Dibromochloromethane	µg/L	<1
1,2-dibromoethane	µg/L	<1
Tetrachloroethene	µg/L	<1
1,1,1,2-tetrachloroethane	µg/L	<1
Chlorobenzene	µg/L	<1
Ethylbenzene	µg/L	<1

VOCs in water		
Our Reference		235361-1
Your Reference	UNITS	QC
Date Sampled		25/01/2020
Type of sample		water
Bromoform	µg/L	<1
m+p-xylene	µg/L	<2
Styrene	µg/L	<1
1,1,2,2-tetrachloroethane	µg/L	<1
o-xylene	µg/L	<1
1,2,3-trichloropropane	µg/L	<1
Isopropylbenzene	µg/L	<1
Bromobenzene	µg/L	<1
n-propyl benzene	µg/L	<1
2-chlorotoluene	µg/L	<1
4-chlorotoluene	µg/L	<1
1,3,5-trimethyl benzene	µg/L	<1
Tert-butyl benzene	µg/L	<1
1,2,4-trimethyl benzene	µg/L	<1
1,3-dichlorobenzene	µg/L	<1
Sec-butyl benzene	µg/L	<1
1,4-dichlorobenzene	µg/L	<1
4-isopropyl toluene	µg/L	<1
1,2-dichlorobenzene	µg/L	<1
n-butyl benzene	µg/L	<1
1,2-dibromo-3-chloropropane	µg/L	<1
1,2,4-trichlorobenzene	µg/L	<1
Hexachlorobutadiene	µg/L	<1
1,2,3-trichlorobenzene	µg/L	<1
Surrogate Dibromofluoromethane	%	107
Surrogate toluene-d8	%	102
Surrogate 4-BFB	%	113

vTRH(C6-C10)/BTEXN in Water		
Our Reference	UNITS	235361-1
Your Reference		QC
Date Sampled		25/01/2020
Type of sample		water
Date extracted	-	28/01/2020
Date analysed	-	29/01/2020
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	%	102
Surrogate 4-BFB	%	113

svTRH (C10-C40) in Water		
Our Reference		235361-1
Your Reference	UNITS	QC
Date Sampled		25/01/2020
Type of sample		water
Date extracted	-	29/01/2020
Date analysed	-	29/01/2020
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	%	77

PAHs in Water - Low Level		
Our Reference		235361-1
Your Reference	UNITS	QC
Date Sampled		25/01/2020
Type of sample		water
Date extracted	-	29/01/2020
Date analysed	-	29/01/2020
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	%	77

HM in water - dissolved		
Our Reference		235361-1
Your Reference	UNITS	QC
Date Sampled		25/01/2020
Type of sample		water
Date prepared	-	29/01/2020
Date analysed	-	29/01/2020
Arsenic-Dissolved	µg/L	72
Cadmium-Dissolved	µg/L	<0.1
Chromium-Dissolved	µg/L	2
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

Method ID	Methodology Summary
Metals-021	Determination of Mercury by Cold Vapour AAS.
Metals-022	Determination of various metals by ICP-MS.
Org-003	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-012/017	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.
Org-013	Water samples are analysed directly by purge and trap GC-MS.
Org-016	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.

QUALITY CONTROL: VOCs in water					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			28/01/2020	[NT]	[NT]	[NT]	[NT]	28/01/2020	[NT]
Date analysed	-			29/01/2020	[NT]	[NT]	[NT]	[NT]	29/01/2020	[NT]
Dichlorodifluoromethane	µg/L	10	Org-013	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chloromethane	µg/L	10	Org-013	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Vinyl Chloride	µg/L	10	Org-013	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromomethane	µg/L	10	Org-013	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chloroethane	µg/L	10	Org-013	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Trichlorofluoromethane	µg/L	10	Org-013	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1-Dichloroethene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Trans-1,2-dichloroethene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1-dichloroethane	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	123	[NT]
Cis-1,2-dichloroethene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromochloromethane	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chloroform	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	123	[NT]
2,2-dichloropropane	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dichloroethane	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	121	[NT]
1,1,1-trichloroethane	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	122	[NT]
1,1-dichloropropene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Cyclohexane	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Carbon tetrachloride	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibromomethane	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dichloropropane	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Trichloroethene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	119	[NT]
Bromodichloromethane	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	114	[NT]
trans-1,3-dichloropropene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
cis-1,3-dichloropropene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1,2-trichloroethane	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Toluene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,3-dichloropropane	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibromochloromethane	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	107	[NT]
1,2-dibromoethane	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Tetrachloroethene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	120	[NT]
1,1,1,2-tetrachloroethane	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chlorobenzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Ethylbenzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromoform	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
m+p-xylene	µg/L	2	Org-013	<2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Styrene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1,2,2-tetrachloroethane	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]

QUALITY CONTROL: VOCs in water					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
o-xylene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,3-trichloropropane	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Isopropylbenzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromobenzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
n-propyl benzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
2-chlorotoluene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
4-chlorotoluene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,3,5-trimethyl benzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Tert-butyl benzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,4-trimethyl benzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,3-dichlorobenzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Sec-butyl benzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,4-dichlorobenzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
4-isopropyl toluene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dichlorobenzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
n-butyl benzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dibromo-3-chloropropane	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,4-trichlorobenzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Hexachlorobutadiene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,3-trichlorobenzene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-013	104	[NT]	[NT]	[NT]	[NT]	101	[NT]
Surrogate toluene-d8	%		Org-013	100	[NT]	[NT]	[NT]	[NT]	101	[NT]
Surrogate 4-BFB	%		Org-013	112	[NT]	[NT]	[NT]	[NT]	101	[NT]

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	-			28/01/2020	[NT]	[NT]	[NT]	[NT]	28/01/2020	[NT]
Date analysed	-			29/01/2020	[NT]	[NT]	[NT]	[NT]	29/01/2020	[NT]
TRH C_6 - C_9	µg/L	10	Org-016	<10	[NT]	[NT]	[NT]	[NT]	83	[NT]
TRH C_6 - C_{10}	µg/L	10	Org-016	<10	[NT]	[NT]	[NT]	[NT]	83	[NT]
Benzene	µg/L	1	Org-016	<1	[NT]	[NT]	[NT]	[NT]	82	[NT]
Toluene	µg/L	1	Org-016	<1	[NT]	[NT]	[NT]	[NT]	85	[NT]
Ethylbenzene	µg/L	1	Org-016	<1	[NT]	[NT]	[NT]	[NT]	81	[NT]
m+p-xylene	µg/L	2	Org-016	<2	[NT]	[NT]	[NT]	[NT]	84	[NT]
o-xylene	µg/L	1	Org-016	<1	[NT]	[NT]	[NT]	[NT]	80	[NT]
Naphthalene	µg/L	1	Org-013	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-016	106	[NT]	[NT]	[NT]	[NT]	100	[NT]
Surrogate toluene-d8	%		Org-016	102	[NT]	[NT]	[NT]	[NT]	102	[NT]
Surrogate 4-BFB	%		Org-016	113	[NT]	[NT]	[NT]	[NT]	105	[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	-			29/01/2020	[NT]	[NT]	[NT]	[NT]	29/01/2020	[NT]
Date analysed	-			29/01/2020	[NT]	[NT]	[NT]	[NT]	29/01/2020	[NT]
TRH C_{10} - C_{14}	µg/L	50	Org-003	<50	[NT]	[NT]	[NT]	[NT]	84	[NT]
TRH C_{15} - C_{28}	µg/L	100	Org-003	<100	[NT]	[NT]	[NT]	[NT]	93	[NT]
TRH C_{29} - C_{36}	µg/L	100	Org-003	<100	[NT]	[NT]	[NT]	[NT]	92	[NT]
TRH >C_{10} - C_{16}	µg/L	50	Org-003	<50	[NT]	[NT]	[NT]	[NT]	84	[NT]
TRH >C_{16} - C_{34}	µg/L	100	Org-003	<100	[NT]	[NT]	[NT]	[NT]	93	[NT]
TRH >C_{34} - C_{40}	µg/L	100	Org-003	<100	[NT]	[NT]	[NT]	[NT]	92	[NT]
Surrogate o-Terphenyl	%		Org-003	73	[NT]	[NT]	[NT]	[NT]	108	[NT]

QUALITY CONTROL: PAHs in Water - Low Level						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			29/01/2020	[NT]	[NT]	[NT]	[NT]	29/01/2020	[NT]
Date analysed	-			29/01/2020	[NT]	[NT]	[NT]	[NT]	29/01/2020	[NT]
Naphthalene	µg/L	0.2	Org-012/017	<0.2	[NT]	[NT]	[NT]	[NT]	118	[NT]
Acenaphthylene	µg/L	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluorene	µg/L	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	112	[NT]
Phenanthrene	µg/L	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	110	[NT]
Anthracene	µg/L	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	110	[NT]
Pyrene	µg/L	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	116	[NT]
Benzo(a)anthracene	µg/L	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chrysene	µg/L	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	108	[NT]
Benzo(b,j+k)fluoranthene	µg/L	0.2	Org-012/017	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	86	[NT]
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-012/017	83	[NT]	[NT]	[NT]	[NT]	83	[NT]

QUALITY CONTROL: HM in water - dissolved						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			29/01/2020	[NT]	[NT]	[NT]	[NT]	29/01/2020	[NT]
Date analysed	-			29/01/2020	[NT]	[NT]	[NT]	[NT]	29/01/2020	[NT]
Arsenic-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	99	[NT]
Cadmium-Dissolved	µg/L	0.1	Metals-022	<0.1	[NT]	[NT]	[NT]	[NT]	100	[NT]
Chromium-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	97	[NT]
Copper-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	99	[NT]
Lead-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	103	[NT]
Mercury-Dissolved	µg/L	0.05	Metals-021	<0.05	[NT]	[NT]	[NT]	[NT]	107	[NT]
Nickel-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	99	[NT]
Zinc-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	101	[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.

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.

20311

CHAIN OF CUSTODY

PROJECT NO.: 58167	LABORATORY BATCH NO.:
PROJECT NAME: Mascot	SAMPLERS:
DATE NEEDED BY: 24 hour turnaround	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) .....Chirelby.....@jbsg.com.au; (3) .....jclacester.....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	low level Metals	TRH / BTEX	VOCs	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
QC	Water	25/1/20		2x vial (x amber 1x metals)		1	1	1	1			

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

Job No: 235361
Date Received: 28/1/20
Time Received: 1451
Received by: SD
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 28/1	CONSIGNMENT NOTE NO.	NAME: Jason Ding	COOLER SEAL Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 28/1/20 1454	COOLER TEMP ..... deg C 13.8
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

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
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Chris Bielby**

Report **698723-A**
Project name MASCOT
Project ID 58167
Received Date Jan 28, 2020

Client Sample ID			**SV02 (FRONT)**	**SV02 (BACK)**	**SV04 (FRONT)**	**SV04 (BACK)**
Sample Matrix			**Air**	**Air**	**Air**	**Air**
Eurofins Sample No.			**S20-Ja26152**	**S20-Ja26153**	**S20-Ja26154**	**S20-Ja26155**
Date Sampled			**Jan 22, 2020**	**Jan 22, 2020**	**Jan 22, 2020**	**Jan 22, 2020**
Test/Reference	LOR	Unit				
Isopropanol	10	Total ug	< 10	< 10	< 10	< 10
VOCs in Ambient Air by GC/MS						
1.1-Dichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromo-3-chloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromoethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
2-Chlorotoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
2.2-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
4-Chlorotoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Benzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromochloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromodichloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromoform	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Carbon Tetrachloride	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Chloroform	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Dibromochloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Dibromomethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
n-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
n-Propylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			SV02 (FRONT)	SV02 (BACK)	SV04 (FRONT)	SV04 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			S20-Ja26152	S20-Ja26153	S20-Ja26154	S20-Ja26155
Date Sampled			Jan 22, 2020	Jan 22, 2020	Jan 22, 2020	Jan 22, 2020
Test/Reference	LOR	Unit				
VOCs in Ambient Air by GC/MS						
Naphthalene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
p-Isopropyltoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
sec-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Styrene	5	Total ug	< 5	< 5	< 5	< 5
tert-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Tetrachloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl chloride	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes - Total	1.5	Total ug	< 1.5	< 1.5	< 1.5	< 1.5
Fluorobenzene (surr.)	1	%	112	108	136	95
4-Bromofluorobenzene (surr.)	1	%	115	107	137	92
Dibromofluoromethane (surr.)	1	%	107	104	127	91
1.2-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Hexachlorobutadiene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			SV07 (FRONT)	SV07 (BACK)	SV08 (FRONT)	SV08 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			S20-Ja26156	S20-Ja26157	S20-Ja26158	S20-Ja26159
Date Sampled			Jan 24, 2020	Jan 24, 2020	Jan 24, 2020	Jan 24, 2020
Test/Reference	LOR	Unit				
Isopropanol	10	Total ug	< 10	< 10	< 10	< 10
VOCs in Ambient Air by GC/MS						
1.1-Dichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromo-3-chloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromoethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
2-Chlorotoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
2.2-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
4-Chlorotoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			SV07 (FRONT)	SV07 (BACK)	SV08 (FRONT)	SV08 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			S20-Ja26156	S20-Ja26157	S20-Ja26158	S20-Ja26159
Date Sampled			Jan 24, 2020	Jan 24, 2020	Jan 24, 2020	Jan 24, 2020
Test/Reference	LOR	Unit				
VOCs in Ambient Air by GC/MS						
Benzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromochloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromodichloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromoform	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Carbon Tetrachloride	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Chloroform	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Dibromochloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Dibromomethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
n-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
n-Propylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
p-Isopropyltoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
sec-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Styrene	5	Total ug	< 5	< 5	< 5	< 5
tert-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Tetrachloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl chloride	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes - Total	1.5	Total ug	< 1.5	< 1.5	< 1.5	< 1.5
Fluorobenzene (surr.)	1	%	108	91	119	90
4-Bromofluorobenzene (surr.)	1	%	108	91	122	89
Dibromofluoromethane (surr.)	1	%	110	94	130	86
1.2-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Hexachlorobutadiene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			SV10 (FRONT)	SV10 (BACK)	SV11 (FRONT)	SV11 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			S20-Ja26160	S20-Ja26161	S20-Ja26162	S20-Ja26163
Date Sampled			Jan 24, 2020	Jan 24, 2020	Jan 24, 2020	Jan 24, 2020
Test/Reference	LOR	Unit				
Isopropanol	10	Total ug	< 10	< 10	< 10	< 10

Client Sample ID			SV10 (FRONT)	SV10 (BACK)	SV11 (FRONT)	SV11 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			S20-Ja26160	S20-Ja26161	S20-Ja26162	S20-Ja26163
Date Sampled			Jan 24, 2020	Jan 24, 2020	Jan 24, 2020	Jan 24, 2020
Test/Reference	LOR	Unit				
VOCs in Ambient Air by GC/MS						
1.1-Dichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromo-3-chloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromoethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
2-Chlorotoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
2.2-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
4-Chlorotoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Benzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromochloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromodichloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromoform	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Carbon Tetrachloride	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Chloroform	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Dibromochloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Dibromomethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
n-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
n-Propylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
p-Isopropyltoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
sec-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Styrene	5	Total ug	< 5	< 5	< 5	< 5
tert-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Tetrachloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	0.5	Total ug	< 0.5	< 0.5	0.9	< 0.5
Vinyl chloride	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes - Total	1.5	Total ug	< 1.5	< 1.5	< 1.5	< 1.5
Fluorobenzene (surr.)	1	%	111	89	112	102
4-Bromofluorobenzene (surr.)	1	%	110	90	121	102
Dibromofluoromethane (surr.)	1	%	112	92	124	95
1.2-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			SV10 (FRONT)	SV10 (BACK)	SV11 (FRONT)	SV11 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			S20-Ja26160	S20-Ja26161	S20-Ja26162	S20-Ja26163
Date Sampled			Jan 24, 2020	Jan 24, 2020	Jan 24, 2020	Jan 24, 2020
Test/Reference	LOR	Unit				
VOCs in Ambient Air by GC/MS						
1.2.3-Trichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Hexachlorobutadiene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			SV12 (FRONT)	SV12 (BACK)	SV13 (FRONT)	SV13 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			S20-Ja26164	S20-Ja26165	S20-Ja26166	S20-Ja26167
Date Sampled			Jan 24, 2020	Jan 24, 2020	Jan 24, 2020	Jan 24, 2020
Test/Reference	LOR	Unit				
Isopropanol	10	Total ug	< 10	< 10	< 10	< 10
VOCs in Ambient Air by GC/MS						
1.1-Dichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromo-3-chloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromoethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
2-Chlorotoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
2.2-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
4-Chlorotoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Benzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromochloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromodichloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromoform	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Carbon Tetrachloride	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Chloroform	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Dibromochloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Dibromomethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
n-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
n-Propylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			SV12 (FRONT)	SV12 (BACK)	SV13 (FRONT)	SV13 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			S20-Ja26164	S20-Ja26165	S20-Ja26166	S20-Ja26167
Date Sampled			Jan 24, 2020	Jan 24, 2020	Jan 24, 2020	Jan 24, 2020
Test/Reference	LOR	Unit				
VOCs in Ambient Air by GC/MS						
p-Isopropyltoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
sec-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Styrene	5	Total ug	< 5	< 5	< 5	< 5
tert-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Tetrachloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl chloride	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes - Total	1.5	Total ug	< 1.5	< 1.5	< 1.5	< 1.5
Fluorobenzene (surr.)	1	%	111	104	105	102
4-Bromofluorobenzene (surr.)	1	%	108	101	103	100
Dibromofluoromethane (surr.)	1	%	111	95	98	97
1.2-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Hexachlorobutadiene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			SV17 (FRONT)	SV17 (BACK)	SV19 (FRONT)	SV19 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			S20-Ja26168	S20-Ja26169	S20-Ja26170	S20-Ja26171
Date Sampled			Jan 24, 2020	Jan 24, 2020	Jan 24, 2020	Jan 24, 2020
Test/Reference	LOR	Unit				
Isopropanol	10	Total ug	< 10	< 10	< 10	< 10
VOCs in Ambient Air by GC/MS						
1.1-Dichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromo-3-chloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromoethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	Total ug	< 0.5	< 0.5	0.8	< 0.5
1.3-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
2-Chlorotoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
2.2-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
4-Chlorotoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Benzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			SV17 (FRONT)	SV17 (BACK)	SV19 (FRONT)	SV19 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			S20-Ja26168	S20-Ja26169	S20-Ja26170	S20-Ja26171
Date Sampled			Jan 24, 2020	Jan 24, 2020	Jan 24, 2020	Jan 24, 2020
Test/Reference	LOR	Unit				
VOCs in Ambient Air by GC/MS						
Bromochloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromodichloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromoform	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Carbon Tetrachloride	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Chloroform	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Dibromochloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Dibromomethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
n-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
n-Propylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
p-Isopropyltoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
sec-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Styrene	5	Total ug	< 5	< 5	< 5	< 5
tert-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Tetrachloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl chloride	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes - Total	1.5	Total ug	< 1.5	< 1.5	< 1.5	< 1.5
Fluorobenzene (surr.)	1	%	66	62	63	58
4-Bromofluorobenzene (surr.)	1	%	71	72	72	69
Dibromofluoromethane (surr.)	1	%	105	104	104	98
1.2-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Hexachlorobutadiene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			SV21 (FRONT)	SV21 (BACK)	QSV03 (FRONT)	QSV03 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			S20-Ja26172	S20-Ja26173	S20-Ja26174	S20-Ja26175
Date Sampled			Jan 24, 2020	Jan 24, 2020	Jan 24, 2020	Jan 24, 2020
Test/Reference	LOR	Unit				
Isopropanol	10	Total ug	< 10	< 10	< 10	< 10

Client Sample ID			SV21 (FRONT)	SV21 (BACK)	QSV03 (FRONT)	QSV03 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			S20-Ja26172	S20-Ja26173	S20-Ja26174	S20-Ja26175
Date Sampled			Jan 24, 2020	Jan 24, 2020	Jan 24, 2020	Jan 24, 2020
Test/Reference	LOR	Unit				
VOCs in Ambient Air by GC/MS						
1.1-Dichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromo-3-chloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dibromoethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloroethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
2-Chlorotoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
2.2-Dichloropropane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
4-Chlorotoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Benzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromochloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromodichloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Bromoform	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Carbon Tetrachloride	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Chloroform	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Dibromochloromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Dibromomethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
n-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
n-Propylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
p-Isopropyltoluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
sec-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Styrene	5	Total ug	< 5	< 5	< 5	< 5
tert-Butylbenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Tetrachloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Trichloroethene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Vinyl chloride	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes - Total	1.5	Total ug	< 1.5	< 1.5	< 1.5	< 1.5
Fluorobenzene (surr.)	1	%	59	59	64	61
4-Bromofluorobenzene (surr.)	1	%	71	69	74	70
Dibromofluoromethane (surr.)	1	%	96	97	105	97
1.2-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			SV21 (FRONT)	SV21 (BACK)	QSV03 (FRONT)	QSV03 (BACK)
Sample Matrix			Air	Air	Air	Air
Eurofins Sample No.			S20-Ja26172	S20-Ja26173	S20-Ja26174	S20-Ja26175
Date Sampled			Jan 24, 2020	Jan 24, 2020	Jan 24, 2020	Jan 24, 2020
Test/Reference	LOR	Unit				
VOCs in Ambient Air by GC/MS						
1.2.3-Trichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.2.4-Trichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5
Hexachlorobutadiene	0.5	Total ug	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			BLANK (FRONT)	BLANK (BACK)
Sample Matrix			Air	Air
Eurofins Sample No.			S20-Ja26176	S20-Ja26177
Date Sampled			Jan 24, 2020	Jan 24, 2020
Test/Reference	LOR	Unit		
VOCs in Ambient Air by GC/MS				
1.1-Dichloroethane	0.5	Total ug	< 0.5	< 0.5
1.1-Dichloroethene	0.5	Total ug	< 0.5	< 0.5
1.1-Dichloropropene	0.5	Total ug	< 0.5	< 0.5
1.1.1-Trichloroethane	0.5	Total ug	< 0.5	< 0.5
1.1.1.2-Tetrachloroethane	0.5	Total ug	< 0.5	< 0.5
1.1.2-Trichloroethane	0.5	Total ug	< 0.5	< 0.5
1.1.2.2-Tetrachloroethane	0.5	Total ug	< 0.5	< 0.5
1.2-Dibromo-3-chloropropane	0.5	Total ug	< 0.5	< 0.5
1.2-Dibromoethane	0.5	Total ug	< 0.5	< 0.5
1.2-Dichloroethane	0.5	Total ug	< 0.5	< 0.5
1.2-Dichloropropane	0.5	Total ug	< 0.5	< 0.5
1.2.3-Trichloropropane	0.5	Total ug	< 0.5	< 0.5
1.2.4-Trimethylbenzene	0.5	Total ug	< 0.5	< 0.5
1.3-Dichloropropane	0.5	Total ug	< 0.5	< 0.5
1.3.5-Trimethylbenzene	0.5	Total ug	< 0.5	< 0.5
2-Chlorotoluene	0.5	Total ug	< 0.5	< 0.5
2.2-Dichloropropane	0.5	Total ug	< 0.5	< 0.5
4-Chlorotoluene	0.5	Total ug	< 0.5	< 0.5
Benzene	0.5	Total ug	< 0.5	< 0.5
Bromochloromethane	0.5	Total ug	< 0.5	< 0.5
Bromodichloromethane	0.5	Total ug	< 0.5	< 0.5
Bromoform	0.5	Total ug	< 0.5	< 0.5
Carbon Tetrachloride	0.5	Total ug	< 0.5	< 0.5
Chlorobenzene	0.5	Total ug	< 0.5	< 0.5
Chloroform	0.5	Total ug	< 0.5	< 0.5
cis-1.2-Dichloroethene	0.5	Total ug	< 0.5	< 0.5
cis-1.3-Dichloropropene	0.5	Total ug	< 0.5	< 0.5
Dibromochloromethane	0.5	Total ug	< 0.5	< 0.5
Dibromomethane	0.5	Total ug	< 0.5	< 0.5
Ethylbenzene	0.5	Total ug	< 0.5	< 0.5
Isopropyl benzene (Cumene)	0.5	Total ug	< 0.5	< 0.5
n-Butylbenzene	0.5	Total ug	< 0.5	< 0.5
n-Propylbenzene	0.5	Total ug	< 0.5	< 0.5
Naphthalene	0.5	Total ug	< 0.5	< 0.5
p-Isopropyltoluene	0.5	Total ug	< 0.5	< 0.5

Client Sample ID			BLANK (FRONT)	BLANK (BACK)
Sample Matrix			**Air**	**Air**
Eurofins Sample No.			**S20-Ja26176**	**S20-Ja26177**
Date Sampled			**Jan 24, 2020**	**Jan 24, 2020**
Test/Reference	LOR	Unit		
VOCs in Ambient Air by GC/MS				
sec-Butylbenzene	0.5	Total ug	< 0.5	< 0.5
Styrene	5	Total ug	< 5	< 5
tert-Butylbenzene	0.5	Total ug	< 0.5	< 0.5
Tetrachloroethene	0.5	Total ug	< 0.5	< 0.5
Toluene	0.5	Total ug	< 0.5	< 0.5
trans-1.3-Dichloropropene	0.5	Total ug	< 0.5	< 0.5
Trichloroethene	0.5	Total ug	< 0.5	< 0.5
Trichlorofluoromethane	0.5	Total ug	< 0.5	< 0.5
Vinyl chloride	0.5	Total ug	< 0.5	< 0.5
Xylenes - Total	1.5	Total ug	< 1.5	< 1.5
Fluorobenzene (surr.)	1	%	66	58
4-Bromofluorobenzene (surr.)	1	%	77	68
Dibromofluoromethane (surr.)	1	%	108	96
1.2-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5
1.2.3-Trichlorobenzene	0.5	Total ug	< 0.5	< 0.5
1.2.4-Trichlorobenzene	0.5	Total ug	< 0.5	< 0.5
1.3-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5
1.4-Dichlorobenzene	0.5	Total ug	< 0.5	< 0.5
Hexachlorobutadiene	0.5	Total ug	< 0.5	< 0.5

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

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
Isopropanol	Melbourne	Jan 28, 2020	14 Days
- Method: LTM-ORG-2030 VOCs in Ambient Air by GC/MS			
VOCs in Ambient Air by GC/MS	Melbourne	Jan 28, 2020	14 Days
- Method: LTM-ORG-2030 VOCs in Ambient Air by GC/MS			

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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: MASCOT
Project ID: 58167

Order No.:
Report #: 698723
Phone: 02 8245 0300
Fax:

Received: Jan 28, 2020 9:47 AM
Due: Jan 29, 2020
Priority: 1 Day
Contact Name: Chris Bielby

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						HOLD	Isopropanol	VOCs in Ambient Air by GC/MS
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X
Sydney Laboratory - NATA Site # 18217								
Brisbane Laboratory - NATA Site # 20794								
Perth Laboratory - NATA Site # 23736								
External Laboratory								
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**			
1	SV02 (FRONT)	Jan 22, 2020		Air	S20-Ja26152		X	X
2	SV02 (BACK)	Jan 22, 2020		Air	S20-Ja26153		X	X
3	SV04 (FRONT)	Jan 22, 2020		Air	S20-Ja26154		X	X
4	SV04 (BACK)	Jan 22, 2020		Air	S20-Ja26155		X	X
5	SV07 (FRONT)	Jan 24, 2020		Air	S20-Ja26156		X	X
6	SV07 (BACK)	Jan 24, 2020		Air	S20-Ja26157		X	X
7	SV08 (FRONT)	Jan 24, 2020		Air	S20-Ja26158		X	X

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Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X
Sydney Laboratory - NATA Site # 18217								
Brisbane Laboratory - NATA Site # 20794								
Perth Laboratory - NATA Site # 23736								
8	SV08 (BACK)	Jan 24, 2020		Air	S20-Ja26159		X	X
9	SV10 (FRONT)	Jan 24, 2020		Air	S20-Ja26160		X	X
10	SV10 (BACK)	Jan 24, 2020		Air	S20-Ja26161		X	X
11	SV11 (FRONT)	Jan 24, 2020		Air	S20-Ja26162		X	X
12	SV11 (BACK)	Jan 24, 2020		Air	S20-Ja26163		X	X
13	SV12 (FRONT)	Jan 24, 2020		Air	S20-Ja26164		X	X
14	SV12 (BACK)	Jan 24, 2020		Air	S20-Ja26165		X	X
15	SV13 (FRONT)	Jan 24, 2020		Air	S20-Ja26166		X	X
16	SV13 (BACK)	Jan 24, 2020		Air	S20-Ja26167		X	X
17	SV17	Jan 24, 2020		Air	S20-Ja26168		X	X

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Sample Detail						HOLD	Isopropanol	VOCs in Ambient Air by GC/MS
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X
Sydney Laboratory - NATA Site # 18217								
Brisbane Laboratory - NATA Site # 20794								
Perth Laboratory - NATA Site # 23736								
	(FRONT)							
18	SV17 (BACK)	Jan 24, 2020		Air	S20-Ja26169		X	X
19	SV19 (FRONT)	Jan 24, 2020		Air	S20-Ja26170		X	X
20	SV19 (BACK)	Jan 24, 2020		Air	S20-Ja26171		X	X
21	SV21 (FRONT)	Jan 24, 2020		Air	S20-Ja26172		X	X
22	SV21 (BACK)	Jan 24, 2020		Air	S20-Ja26173		X	X
23	QSV03 (FRONT)	Jan 24, 2020		Air	S20-Ja26174		X	X
24	QSV03 (BACK)	Jan 24, 2020		Air	S20-Ja26175		X	X
25	BLANK (FRONT)	Jan 24, 2020		Air	S20-Ja26176			X

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Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X
Sydney Laboratory - NATA Site # 18217								
Brisbane Laboratory - NATA Site # 20794								
Perth Laboratory - NATA Site # 23736								
26	BLANK (BACK)	Jan 24, 2020		Air	S20-Ja26177			X
27	SV01 (FRONT)	Jan 22, 2020		Air	S20-Ja26178	X		
28	SV01 (BACK)	Jan 22, 2020		Air	S20-Ja26179	X		
29	SV03 (FRONT)	Jan 22, 2020		Air	S20-Ja26180	X		
30	SV03 (BACK)	Jan 22, 2020		Air	S20-Ja26181	X		
31	SV05 (FRONT)	Jan 24, 2020		Air	S20-Ja26182	X		
32	SV05 (BACK)	Jan 24, 2020		Air	S20-Ja26183	X		
33	SV06 (FRONT)	Jan 24, 2020		Air	S20-Ja26184	X		
34	SV06 (BACK)	Jan 24, 2020		Air	S20-Ja26185	X		

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Sample Detail						HOLD	Isopropanol	VOCs in Ambient Air by GC/MS
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X
Sydney Laboratory - NATA Site # 18217								
Brisbane Laboratory - NATA Site # 20794								
Perth Laboratory - NATA Site # 23736								
35	SV09 (FRONT)	Jan 24, 2020		Air	S20-Ja26186	X		
36	SV09 (BACK)	Jan 24, 2020		Air	S20-Ja26187	X		
37	SV14 (FRONT)	Jan 24, 2020		Air	S20-Ja26188	X		
38	SV14 (BACK)	Jan 24, 2020		Air	S20-Ja26189	X		
39	SV15 (FRONT)	Jan 24, 2020		Air	S20-Ja26190	X		
40	SV15 (BACK)	Jan 24, 2020		Air	S20-Ja26191	X		
41	SV16 (FRONT)	Jan 24, 2020		Air	S20-Ja26192	X		
42	SV16 (BACK)	Jan 24, 2020		Air	S20-Ja26193	X		
43	SV18 (FRONT)	Jan 24, 2020		Air	S20-Ja26194	X		

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Sydney Laboratory - NATA Site # 18217								
Brisbane Laboratory - NATA Site # 20794								
Perth Laboratory - NATA Site # 23736								
44	SV18 (BACK)	Jan 24, 2020		Air	S20-Ja26195	X		
45	SV20 (FRONT)	Jan 24, 2020		Air	S20-Ja26196	X		
46	SV20 (BACK)	Jan 24, 2020		Air	S20-Ja26197	X		
47	QSV01 (FRONT)	Jan 24, 2020		Air	S20-Ja26198	X		
48	QSV01 (BACK)	Jan 24, 2020		Air	S20-Ja26199	X		
49	QSV01A (FRONT)	Jan 24, 2020		Air	S20-Ja26200	X		
50	QSV01A (BACK)	Jan 24, 2020		Air	S20-Ja26201	X		
51	QSV02 (FRONT)	Jan 24, 2020		Air	S20-Ja26202	X		
52	QSV02	Jan 24, 2020		Air	S20-Ja26203	X		

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Sample Detail						HOLD	Isopropanol	VOCs in Ambient Air by GC/MS
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X
Sydney Laboratory - NATA Site # 18217								
Brisbane Laboratory - NATA Site # 20794								
Perth Laboratory - NATA Site # 23736								
52	QSV02 (BACK)	Jan 24, 2020		Air	S20-Ja26203			
53	QSV02A (FRONT)	Jan 24, 2020		Air	S20-Ja26204	X		
54	QSV02A (BACK)	Jan 24, 2020		Air	S20-Ja26205	X		
Test Counts						28	24	26

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							
Isopropanol	Total ug	< 10			10	Pass	
Method Blank							
VOCs in Ambient Air by GC/MS							
1.1-Dichloroethane	Total ug	< 0.5			0.5	Pass	
1.1-Dichloroethene	Total ug	< 0.5			0.5	Pass	
1.1-Dichloropropene	Total ug	< 0.5			0.5	Pass	
1.1.1-Trichloroethane	Total ug	< 0.5			0.5	Pass	
1.1.1.2-Tetrachloroethane	Total ug	< 0.5			0.5	Pass	
1.1.2-Trichloroethane	Total ug	< 0.5			0.5	Pass	
1.1.2.2-Tetrachloroethane	Total ug	< 0.5			0.5	Pass	
1.2-Dibromo-3-chloropropane	Total ug	< 0.5			0.5	Pass	
1.2-Dibromoethane	Total ug	< 0.5			0.5	Pass	
1.2-Dichloroethane	Total ug	< 0.5			0.5	Pass	
1.2-Dichloropropane	Total ug	< 0.5			0.5	Pass	
1.2.3-Trichloropropane	Total ug	< 0.5			0.5	Pass	
1.2.4-Trimethylbenzene	Total ug	< 0.5			0.5	Pass	
1.3-Dichloropropane	Total ug	< 0.5			0.5	Pass	
1.3.5-Trimethylbenzene	Total ug	< 0.5			0.5	Pass	
2-Chlorotoluene	Total ug	< 0.5			0.5	Pass	
2.2-Dichloropropane	Total ug	< 0.5			0.5	Pass	
4-Chlorotoluene	Total ug	< 0.5			0.5	Pass	
Benzene	Total ug	< 0.5			0.5	Pass	
Bromochloromethane	Total ug	< 0.5			0.5	Pass	
Bromodichloromethane	Total ug	< 0.5			0.5	Pass	
Bromoform	Total ug	< 0.5			0.5	Pass	
Carbon Tetrachloride	Total ug	< 0.5			0.5	Pass	
Chlorobenzene	Total ug	< 0.5			0.5	Pass	
Chloroform	Total ug	< 0.5			0.5	Pass	
cis-1.2-Dichloroethene	Total ug	< 0.5			0.5	Pass	
cis-1.3-Dichloropropene	Total ug	< 0.5			0.5	Pass	
Dibromochloromethane	Total ug	< 0.5			0.5	Pass	
Dibromomethane	Total ug	< 0.5			0.5	Pass	
Ethylbenzene	Total ug	< 0.5			0.5	Pass	
Isopropyl benzene (Cumene)	Total ug	< 0.5			0.5	Pass	
n-Butylbenzene	Total ug	< 0.5			0.5	Pass	
n-Propylbenzene	Total ug	< 0.5			0.5	Pass	
Naphthalene	Total ug	< 0.5			0.5	Pass	
p-Isopropyltoluene	Total ug	< 0.5			0.5	Pass	
sec-Butylbenzene	Total ug	< 0.5			0.5	Pass	
Styrene	Total ug	< 5			5	Pass	
tert-Butylbenzene	Total ug	< 0.5			0.5	Pass	
Tetrachloroethene	Total ug	< 0.5			0.5	Pass	
Toluene	Total ug	< 0.5			0.5	Pass	
trans-1.3-Dichloropropene	Total ug	< 0.5			0.5	Pass	
Trichloroethene	Total ug	< 0.5			0.5	Pass	
Trichlorofluoromethane	Total ug	< 0.5			0.5	Pass	
Vinyl chloride	Total ug	< 0.5			0.5	Pass	
Xylenes - Total	Total ug	< 1.5			1.5	Pass	
1.2-Dichlorobenzene	Total ug	< 0.5			0.5	Pass	
1.2.3-Trichlorobenzene	Total ug	< 0.5			0.5	Pass	
1.2.4-Trichlorobenzene	Total ug	< 0.5			0.5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
1.3-Dichlorobenzene	Total ug	< 0.5			0.5	Pass	
1.4-Dichlorobenzene	Total ug	< 0.5			0.5	Pass	
Hexachlorobutadiene	Total ug	< 0.5			0.5	Pass	
LCS - % Recovery							
VOCs in Ambient Air by GC/MS							
1.1-Dichloroethene	%	80			70-130	Pass	
1.1-Dichloropropene	%	93			70-130	Pass	
1.1.1-Trichloroethane	%	95			70-130	Pass	
1.2-Dibromo-3-chloropropane	%	102			75-125	Pass	
1.2-Dichloroethane	%	94			70-130	Pass	
Benzene	%	94			70-130	Pass	
Ethylbenzene	%	104			70-130	Pass	
Naphthalene	%	80			70-130	Pass	
Toluene	%	105			70-130	Pass	
Trichloroethene	%	97			70-130	Pass	
Xylenes - Total	%	103			70-130	Pass	
1.2-Dichlorobenzene	%	95			70-130	Pass	
1.2.3-Trichlorobenzene	%	81			70-130	Pass	
1.2.4-Trichlorobenzene	%	87			70-130	Pass	
1.4-Dichlorobenzene	%	96			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
VOCs in Ambient Air by GC/MS				Result 1	Result 2	RPD			
1.1-Dichloroethane	M19-No29676	NCP	Total ug	< 0.5	< 0.5	<1	30%	Pass	
1.1-Dichloroethene	M19-No29676	NCP	Total ug	< 0.5	< 0.5	<1	30%	Pass	
1.1-Dichloropropene	M19-No29676	NCP	Total ug	< 0.5	< 0.5	<1	30%	Pass	
1.1.1-Trichloroethane	M19-No29676	NCP	Total ug	< 0.5	< 0.5	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	M19-No29676	NCP	Total ug	< 0.5	< 0.5	<1	30%	Pass	
1.1.2-Trichloroethane	M19-No29676	NCP	Total ug	< 0.5	< 0.5	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	M19-No29676	NCP	Total ug	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromo-3-chloropropane	M19-No29676	NCP	Total ug	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromoethane	M19-No29676	NCP	Total ug	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloroethane	M19-No29676	NCP	Total ug	2.1	1.9	10	30%	Pass	
1.2-Dichloropropane	M19-No29676	NCP	Total ug	1.7	1.4	14	30%	Pass	
1.2.3-Trichloropropane	M19-No29676	NCP	Total ug	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trimethylbenzene	M19-No29676	NCP	Total ug	1.2	1.1	9.0	30%	Pass	
1.3-Dichloropropane	M19-No29676	NCP	Total ug	< 0.5	< 0.5	<1	30%	Pass	
1.3.5-Trimethylbenzene	M19-No29676	NCP	Total ug	< 0.5	< 0.5	<1	30%	Pass	
2-Chlorotoluene	M19-No29676	NCP	Total ug	< 0.5	< 0.5	<1	30%	Pass	
2.2-Dichloropropane	M19-No29676	NCP	Total ug	< 0.5	< 0.5	<1	30%	Pass	
4-Chlorotoluene	M19-No29676	NCP	Total ug	< 0.5	< 0.5	<1	30%	Pass	
Benzene	M19-No29676	NCP	Total ug	0.9	0.8	13	30%	Pass	
Bromochloromethane	M19-No29676	NCP	Total ug	< 0.5	< 0.5	<1	30%	Pass	
Bromodichloromethane	M19-No29676	NCP	Total ug	< 0.5	< 0.5	<1	30%	Pass	
Bromoform	M19-No29676	NCP	Total ug	< 0.5	< 0.5	<1	30%	Pass	
Carbon Tetrachloride	M19-No29676	NCP	Total ug	< 0.5	< 0.5	<1	30%	Pass	
Chlorobenzene	M19-No29676	NCP	Total ug	< 0.5	< 0.5	<1	30%	Pass	
Chloroform	M19-No29676	NCP	Total ug	0.9	0.7	23	30%	Pass	
cis-1.2-Dichloroethene	M19-No29676	NCP	Total ug	< 0.5	< 0.5	<1	30%	Pass	
cis-1.3-Dichloropropene	M19-No29676	NCP	Total ug	< 0.5	< 0.5	<1	30%	Pass	
Dibromochloromethane	M19-No29676	NCP	Total ug	< 0.5	< 0.5	<1	30%	Pass	
Dibromomethane	M19-No29676	NCP	Total ug	< 0.5	< 0.5	<1	30%	Pass	
Ethylbenzene	M19-No29676	NCP	Total ug	1.3	1.2	9.0	30%	Pass	
Isopropyl benzene (Cumene)	M19-No29676	NCP	Total ug	< 0.5	< 0.5	<1	30%	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
VOCs in Ambient Air by GC/MS				Result 1	Result 2	RPD			
n-Butylbenzene	M19-No29676	NCP	Total ug	< 0.5	< 0.5	<1	30%	Pass	
n-Propylbenzene	M19-No29676	NCP	Total ug	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	M19-No29676	NCP	Total ug	< 0.5	< 0.5	<1	30%	Pass	
p-Isopropyltoluene	M19-No29676	NCP	Total ug	< 0.5	< 0.5	<1	30%	Pass	
sec-Butylbenzene	M19-No29676	NCP	Total ug	1.0	0.9	10	30%	Pass	
Styrene	M19-No29676	NCP	Total ug	< 5	< 5	<1	30%	Pass	
tert-Butylbenzene	M19-No29676	NCP	Total ug	< 0.5	< 0.5	<1	30%	Pass	
Tetrachloroethene	M19-No29676	NCP	Total ug	1.1	1.0	12	30%	Pass	
Toluene	M19-No29676	NCP	Total ug	0.9	0.8	13	30%	Pass	
trans-1.3-Dichloropropene	M19-No29676	NCP	Total ug	< 0.5	< 0.5	<1	30%	Pass	
Trichloroethene	M19-No29676	NCP	Total ug	0.6	0.5	10	30%	Pass	
Trichlorofluoromethane	M19-No29676	NCP	Total ug	0.6	0.5	10	30%	Pass	
Vinyl chloride	M19-No29676	NCP	Total ug	< 0.5	< 0.5	<1	30%	Pass	
Xylenes - Total	M19-No29676	NCP	Total ug	< 1.5	< 1.5	<1	30%	Pass	
1.2-Dichlorobenzene	M19-No29676	NCP	Total ug	0.7	0.6	13	30%	Pass	
1.2.3-Trichlorobenzene	M19-No29676	NCP	Total ug	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trichlorobenzene	M19-No29676	NCP	Total ug	0.8	0.8	4.0	30%	Pass	
1.3-Dichlorobenzene	M19-No29676	NCP	Total ug	0.6	< 0.5	14	30%	Pass	
1.4-Dichlorobenzene	M19-No29676	NCP	Total ug	0.7	0.6	10	30%	Pass	
Hexachlorobutadiene	M19-No29676	NCP	Total ug	< 0.5	< 0.5	<1	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	N/A
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Authorised By

Ursula Long	Analytical Services Manager
Harry Bacalis	Senior Analyst-Volatile (VIC)
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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Sample Receipt Advice

Company name:	**JBS & G Australia (NSW) P/L**
Contact name:	Chris Bielby
Project name:	MASCOT
Project ID:	58167
COC number:	Not provided
Turn around time:	1 Day
Date/Time received:	Jan 28, 2020 9:47 AM
Eurofins reference:	**698723**

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.

☑ Split sample sent to requested external lab.

☒ Some samples have been subcontracted.

N/A Custody Seals intact (if used).

Notes

QSV03A forwarded to Envirolab.

Contact notes

If you have any questions with respect to these samples please contact:

Ursula Long on Phone : or by e.mail: UrsulaLong@eurofins.com

Results will be delivered electronically via e.mail to Chris Bielby - cbielby@jbsg.com.au.

Note: A copy of these results will also be delivered to the general JBS & G Australia (NSW) P/L email address.

SOIL VAPOUR. 1/2

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: J316 7
PROJECT NAME: MASCOT
DATE NEEDED BY: 24hr
PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) Cbicot@jbsg.com.au; (3) JDAVIES@jbsg.com.au RUSRAY.

LABORATORY BATCH NO.: 698723
SAMPLERS: RG JD
QC LEVEL: NEPM (2013)

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:
pls put all on Hold. Updated CoC will be emailed

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	VOC 8260	Isopropanol	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
SV1	CARBON	22/1/20		CARBON VIAL.						
SV2										
SV3										
SV4										
SV5		24/1/20								
SV6										
SV7										
SV8										
SV9										
SV10										
SV11										
SV12										
SV13										
SV14										
SV15										
SV16										
SV17										
SV18										
SV19										
SV20										
SV21										
SV22										
SV23										
SV24										

RELINQUISHED BY:
NAME: DATE:
OF: JBS&G
NAME: DATE:
OF:

METHOD OF SHIPMENT:
CONSIGNMENT NOTE NO.
TRANSPORT CO.
CONSIGNMENT NOTE NO.
TRANSPORT CO

RECEIVED BY:
NAME: Grace
DATE: 28/1/20
OF: Envirolab
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

SOIL VAPOUR 1/2

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 58167
PROJECT NAME: 24 [illegible] MARSDEN PARK 24hr
DATE NEEDED BY:
PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) [illegible]@jbsg.com.au; (3) .....@jbsg.com.au
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.: 698723
SAMPLERS: [illegible] JS
QC LEVEL: NEPM (2013)

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	VOC 8260	ISOPROPANOL	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
SV20	CARBOSORB	24.12.20		CARBOSORB VIAL						
SV21										
QSV01						✓	✓			
QSV01A										
QSV02										
QSV02A										
QSV03										
QSV03A										
BLANK.										

Send to Envirolab for VOC 8260 Analysis 24hr TAT

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: Grace	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 28/12/20	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	OF: Envirolab	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 Forms013 – Chain of Custody - Generic

Envirolab Services Pty Ltd
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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 235527

Client Details

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

Sample Details

Your Reference	**58167, Mascot**
Number of Samples	2 Soil
Date samples received	29/01/2020
Date completed instructions received	29/01/2020

Analysis Details

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

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

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

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

Report Details

Date results requested by	30/01/2020
Date of Issue	30/01/2020

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Asbestos Approved By
Analysed by Asbestos Approved Identifier: Panika Wongchanda
Authorised by Asbestos Approved Signatory: Lucy Zhu

Results Approved By
Jaimie Loa-Kum-Cheung, Metals Supervisor
Josh Williams, Senior Chemist
Lucy Zhu, Asbestos Supervisor

Authorised By



Nancy Zhang, Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil		
Our Reference		235527-1
Your Reference	UNITS	QC03
Date Sampled		24/01/2020
Type of sample		Soil
Date extracted	-	29/01/2020
Date analysed	-	30/01/2020
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	%	108

svTRH (C10-C40) in Soil		
Our Reference		235527-1
Your Reference	UNITS	QC03
Date Sampled		24/01/2020
Type of sample		Soil
Date extracted	-	29/01/2020
Date analysed	-	30/01/2020
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	%	72

PAHs in Soil		
Our Reference		235527-1
Your Reference	UNITS	QC03
Date Sampled		24/01/2020
Type of sample		Soil
Date extracted	-	29/01/2020
Date analysed	-	29/01/2020
Naphthalene	mg/kg	<0.1
Acenaphthylene	mg/kg	<0.1
Acenaphthene	mg/kg	<0.1
Fluorene	mg/kg	<0.1
Phenanthrene	mg/kg	0.1
Anthracene	mg/kg	<0.1
Fluoranthene	mg/kg	<0.1
Pyrene	mg/kg	0.1
Benzo(a)anthracene	mg/kg	<0.1
Chrysene	mg/kg	0.2
Benzo(b,j+k)fluoranthene	mg/kg	<0.2
Benzo(a)pyrene	mg/kg	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1
Total +ve PAH's	mg/kg	0.4
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5
Surrogate p-Terphenyl-d14	%	93

Organochlorine Pesticides in soil		
Our Reference		235527-1
Your Reference	UNITS	QC03
Date Sampled		24/01/2020
Type of sample		Soil
Date extracted	-	29/01/2020
Date analysed	-	29/01/2020
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	%	98

PCBs in Soil		
Our Reference		235527-1
Your Reference	UNITS	QC03
Date Sampled		24/01/2020
Type of sample		Soil
Date extracted	-	29/01/2020
Date analysed	-	29/01/2020
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	%	98

Acid Extractable metals in soil		
Our Reference		235527-1
Your Reference	UNITS	QC03
Date Sampled		24/01/2020
Type of sample		Soil
Date prepared	-	30/01/2020
Date analysed	-	30/01/2020
Arsenic	mg/kg	7
Cadmium	mg/kg	<0.4
Chromium	mg/kg	10
Copper	mg/kg	23
Lead	mg/kg	30
Mercury	mg/kg	0.1
Nickel	mg/kg	11
Zinc	mg/kg	84

Moisture		
Our Reference		235527-1
Your Reference	UNITS	QC03
Date Sampled		24/01/2020
Type of sample		Soil
Date prepared	-	29/01/2020
Date analysed	-	30/01/2020
Moisture	%	12

Asbestos ID - soils NEPM - ASB-001		
Our Reference		235527-2
Your Reference	UNITS	QC01
Date Sampled		24/01/2020
Type of sample		Soil
Date analysed	-	30/01/2020
Sample mass tested	g	639.3
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) **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-003	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-003	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (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-006	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.

Method ID	Methodology Summary
Org-006	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-012/017	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS and/or GC-MS/MS.
Org-012/017	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-MS and/or GC-MS/MS. 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-012/017	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-014	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-016	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-016	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. 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-19	[NT]
Date extracted	-			29/01/2020	[NT]	[NT]	[NT]	[NT]	29/01/2020	[NT]
Date analysed	-			30/01/2020	[NT]	[NT]	[NT]	[NT]	30/01/2020	[NT]
TRH C_6 - C_9	mg/kg	25	Org-016	<25	[NT]	[NT]	[NT]	[NT]	116	[NT]
TRH C_6 - C_{10}	mg/kg	25	Org-016	<25	[NT]	[NT]	[NT]	[NT]	116	[NT]
Benzene	mg/kg	0.2	Org-016	<0.2	[NT]	[NT]	[NT]	[NT]	121	[NT]
Toluene	mg/kg	0.5	Org-016	<0.5	[NT]	[NT]	[NT]	[NT]	121	[NT]
Ethylbenzene	mg/kg	1	Org-016	<1	[NT]	[NT]	[NT]	[NT]	110	[NT]
m+p-xylene	mg/kg	2	Org-016	<2	[NT]	[NT]	[NT]	[NT]	113	[NT]
o-Xylene	mg/kg	1	Org-016	<1	[NT]	[NT]	[NT]	[NT]	111	[NT]
naphthalene	mg/kg	1	Org-014	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-016	121	[NT]	[NT]	[NT]	[NT]	118	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-19	[NT]
Date extracted	-			29/01/2020	[NT]	[NT]	[NT]	[NT]	29/01/2020	[NT]
Date analysed	-			30/01/2020	[NT]	[NT]	[NT]	[NT]	30/01/2020	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-003	<50	[NT]	[NT]	[NT]	[NT]	100	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-003	<100	[NT]	[NT]	[NT]	[NT]	102	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-003	<100	[NT]	[NT]	[NT]	[NT]	138	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-003	<50	[NT]	[NT]	[NT]	[NT]	100	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-003	<100	[NT]	[NT]	[NT]	[NT]	102	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-003	<100	[NT]	[NT]	[NT]	[NT]	138	[NT]
Surrogate o-Terphenyl	%		Org-003	72	[NT]	[NT]	[NT]	[NT]	87	[NT]

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-19	[NT]
Date extracted	-			29/01/2020	[NT]	[NT]	[NT]	[NT]	29/01/2020	[NT]
Date analysed	-			29/01/2020	[NT]	[NT]	[NT]	[NT]	29/01/2020	[NT]
Naphthalene	mg/kg	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	102	[NT]
Acenaphthylene	mg/kg	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluorene	mg/kg	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	104	[NT]
Phenanthrene	mg/kg	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	104	[NT]
Anthracene	mg/kg	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	106	[NT]
Pyrene	mg/kg	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	116	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	118	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-012/017	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-012/017	<0.05	[NT]	[NT]	[NT]	[NT]	104	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-012/017	97	[NT]	[NT]	[NT]	[NT]	96	[NT]

QUALITY CONTROL: Organochlorine Pesticides in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-19	[NT]
Date extracted	-			29/01/2020	[NT]	[NT]	[NT]	[NT]	29/01/2020	[NT]
Date analysed	-			29/01/2020	[NT]	[NT]	[NT]	[NT]	29/01/2020	[NT]
alpha-BHC	mg/kg	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	104	[NT]
HCB	mg/kg	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	106	[NT]
gamma-BHC	mg/kg	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	102	[NT]
delta-BHC	mg/kg	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	106	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	102	[NT]
gamma-Chlordane	mg/kg	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	104	[NT]
Dieldrin	mg/kg	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	118	[NT]
Endrin	mg/kg	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	102	[NT]
Endosulfan II	mg/kg	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	94	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	82	[NT]
Methoxychlor	mg/kg	0.1	Org-012/017	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate TCMX	%		Org-012/017	97	[NT]	[NT]	[NT]	[NT]	96	[NT]

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-19	[NT]
Date extracted	-			29/01/2020	[NT]	[NT]	[NT]	[NT]	29/01/2020	[NT]
Date analysed	-			29/01/2020	[NT]	[NT]	[NT]	[NT]	29/01/2020	[NT]
Aroclor 1016	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NT]	[NT]	102	[NT]
Aroclor 1260	mg/kg	0.1	Org-006	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate TCMX	%		Org-006	97	[NT]	[NT]	[NT]	[NT]	96	[NT]

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-19	[NT]
Date prepared	-			30/01/2020	[NT]	[NT]	[NT]	[NT]	30/01/2020	[NT]
Date analysed	-			30/01/2020	[NT]	[NT]	[NT]	[NT]	30/01/2020	[NT]
Arsenic	mg/kg	4	Metals-020	<4	[NT]	[NT]	[NT]	[NT]	105	[NT]
Cadmium	mg/kg	0.4	Metals-020	<0.4	[NT]	[NT]	[NT]	[NT]	104	[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]	106	[NT]
Lead	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	102	[NT]
Mercury	mg/kg	0.1	Metals-021	<0.1	[NT]	[NT]	[NT]	[NT]	95	[NT]
Nickel	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	101	[NT]
Zinc	mg/kg	1	Metals-020	<1	[NT]	[NT]	[NT]	[NT]	107	[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.

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.

08992 ENVIROLAB

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 58167
PROJECT NAME: MASCOT
DATE NEEDED BY: 24 hr

LABORATORY BATCH NO.:
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) .....@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Heavy Metals	PAHs	TPH/BTEX	OCP/PCBs	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
1	QC03	SOIL	24/1/20		BAG								
2	QC01	↓	↓		JAR		✓	✓	✓	✓			

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

Job No: 235527
Date Received: 29-01-2020
Time Received: 12:53
Received by: TC
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: C.BEERY DATE: 24/1/20	CONSIGNMENT NOTE NO.	NAME:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE:	COOLER TEMP 1.3 deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: Trinidad DATE: 29.01	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF: ELS Canada	COOLER TEMP 17.2 deg C

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

Appendix J Photolog

PHOTOGRAPH 1 – ABOVEGROUND WATER STORAGE TANK



PHOTOGRAPH 2 – FIRE PUMP GENERATOR ROOM



PHOTOGRAPH 3 – AREA OF PREVIOUS HAZARDOUS CHEMICAL STORAGE



PHOTOGRAPH 4 – RAINWATER REUSE TANK



JBS&G

Job No: 58167

Client: Charter Hall

Version: R01 Rev A	Date: 29/01/2020
Drawn By: JD	Checked By: JD

Not to Scale

Coord. Sys n/a

Former Bunnings Warehouse

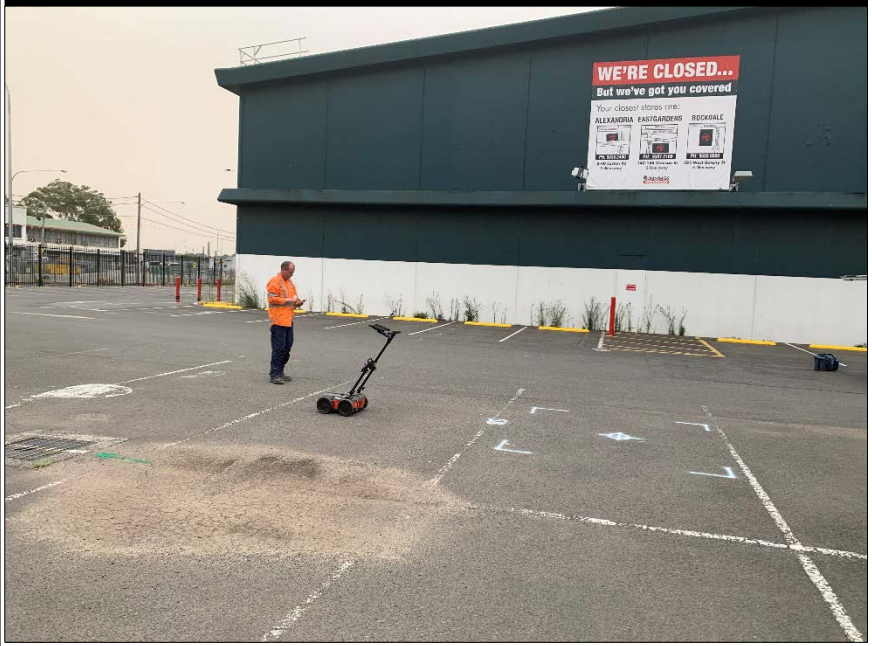
520-530 Gardeners Road, Alexandria NSW 2020

APPENDIX A

PHOTOGRAPH 5 – REPAIRED PATCHES OF CARPARK BITUMEN IN NORTHERN PORTION OF SITE



PHOTOGRAPH 6 – CONDITION OF CARPARK BITUMEN IN SOUTHERN PORTION OF SITE



PHOTOGRAPH 7 – CONCRETE STAINING IN WAREHOUSE



PHOTOGRAPH 8 – CONDITION OF CONCRETE ALONG EASTERN PORTION OF SITE



JBS&G

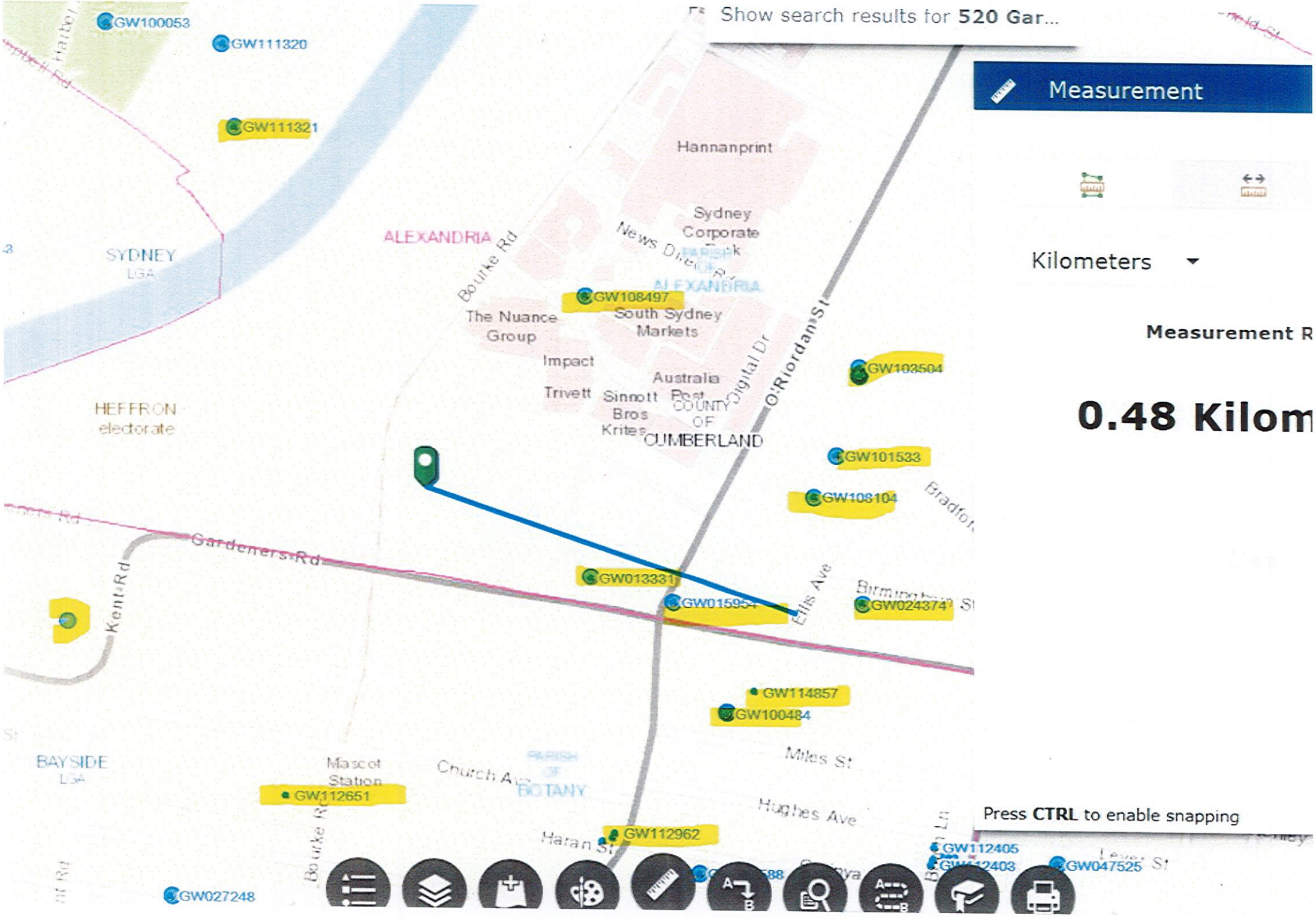
Job No: 58167	
Client: Charter Hall	
Version: R01 Rev A	Date: 29/01/2020
Drawn By: JD	Checked By: JD
Not to Scale	
Coord. Sys n/a	

Former Bunnings Warehouse

520-530 Gardeners Road, Alexandria NSW 2020

APPENDIX A

Appendix K Registered Groundwater Bore Information


Show search results for 520 Gar...
Measurement
Kilometers
Measurement R
0.48 Kilom
Press CTRL to enable snapping
GW100053
GW111320
GW111321
GW108497
GW103504
GW101533
GW108104
GW013331
GW015954
GW024374
GW114857
GW100484
GW112651
GW112962
GW112405
GW112403
GW047525
GW027248
Hannanprint
Sydney Corporate Park
ALEXANDRIA
SYDNEY LGA
HEFFRON electorate
The Nuance Group
South Sydney Markets
Impact
Trivett
Sinnott Bros
Australia Post
COUNTY OF CUMBERLAND
Bourke Rd
O'Riordan St
Gardeners Rd
Kent Rd
Ellis Ave
Miles St
Hughes Ave
Church Ave
Haran St
Mascot Station
BAYSIDE LGA
PARISH OF BOTANY

WaterNSW
Work Summary

GW111321

Licence: | **Licence Status:**

Authorised Purpose(s):
Intended Purpose(s): MONITORING BORE

Work Type: Bore
Work Status: Equipped
Construct.Method: Auger - Hollow
Owner Type: Private

Commenced Date:
Completion Date: 09/01/2007

Final Depth: 5.00 m
Drilled Depth: 5.00 m

Contractor Name: HLA ENVIROSCIENCES
Driller: Unkown Unknown
Assistant Driller:

Property:
GWMA:
GW Zone:

Standing Water Level (m): 2.635
Salinity Description:
Yield (L/s):

Site Details

Site Chosen By:

		County	Parish	Cadastre
Form A:		CUMBERLAND	ALEXANDRI	C//162050
Licensed:				

Region: 10 - Sydney South Coast
River Basin: - Unknown
Area/District:

CMA Map:
Grid Zone:
Scale:

Elevation: 0.00 m (A.H.D.)
Elevation Source: Unknown

Northing: 6245742.000
Easting: 332322.000

Latitude: 33°54'55.5"S
Longitude: 151°11'10.3"E

GS Map: -

MGA Zone: 56

Coordinate Source: Unknown

Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1		Hole	Hole	0.00	5.00	200			Auger - Hollow Flight
1		Annulus	Waterworn/Rounded	0.00	5.00	200			Graded
1	1	Casing	Pvc Class 18	0.00	2.00	50			
1	1	Opening	Screen	2.00	5.00	50		0	PVC Class 18

Drillers Log

From (m)	To (m)	Thickness (m)	Drillers Description	Geological Material	Comments
0.00	0.18	0.18	CONCRETE	Fill	
0.18	0.90	0.72	GRAVELLY CLAYEY SAND,DENSE,MOIST	Clayey Sand	

0.90	1.60	0.70	GRAVEL SILTY,DENSE,VERY MOIST	Gravel	
1.60	2.00	0.40	SAND,CLAYEY SAND,GREY,FINE GRAINED	Clayey Sand	
2.00	5.00	3.00	CLAY,SANDY,SOFT,L/PLASTICITY,SAND FINE GRAINED	Sandy Clay	

***** End of GW111321 *****

Warning To Clients: This raw data has been supplied to the WaterNSW by drillers, licensees and other sources. WaterNSW does not verify the accuracy of this data. The data is presented for use by you at your own risk. You should consider verifying this data before relying on it. Professional hydrogeological advice should be sought in interpreting and using this data.

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