

The **Ordinary Meeting** of
Bayside Council
will be held in the Rockdale Town Hall, Council Chambers,
Level 1, 448 Princes Highway, Rockdale
on Wednesday, 14 August 2019 at 7:00 pm

UNDER SEPARATE COVER ATTACHMENTS

8 REPORTS

8.1 Draft Planning Proposal - 146-154 O'Riordan St, Mascot
7 Detailed Site Investigation2

TRACE ENVIRONMENTAL

DETAILED SITE INVESTIGATION

146-154 O'Riordan Street, Mascot, NSW



1 November 2018

DETAILED SITE INVESTIGATION

146-154 O’Riordan Street, Mascot, NSW

Prepared for:
Toplace Pty Ltd

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|--|---|
|  <hr/> Jack Ellis Environmental Scientist B.Sc. M.Geol. (Geological Sciences) |  <hr/> Ken Henderson Principal Environmental Scientist B.Sc. (Hons Geology) EIANZ CEnvP (SC) #795   |

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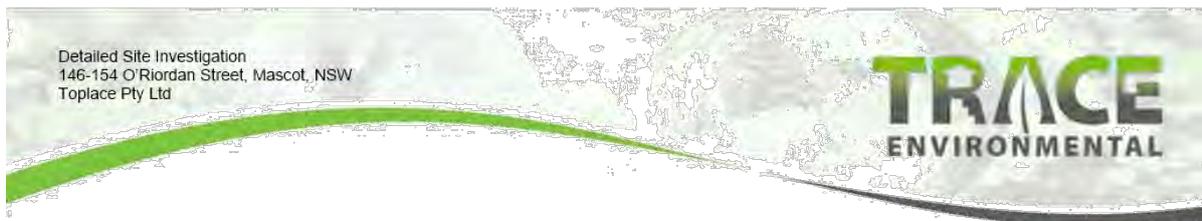


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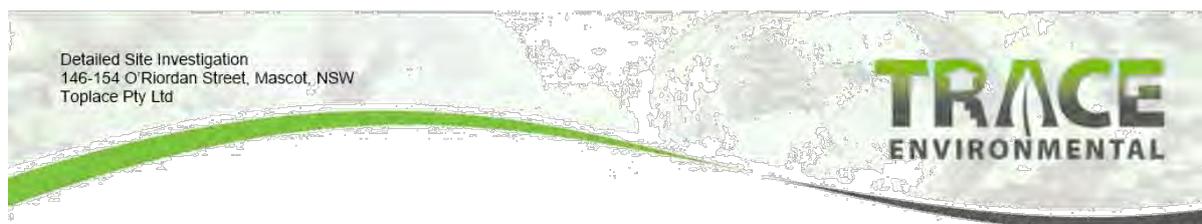
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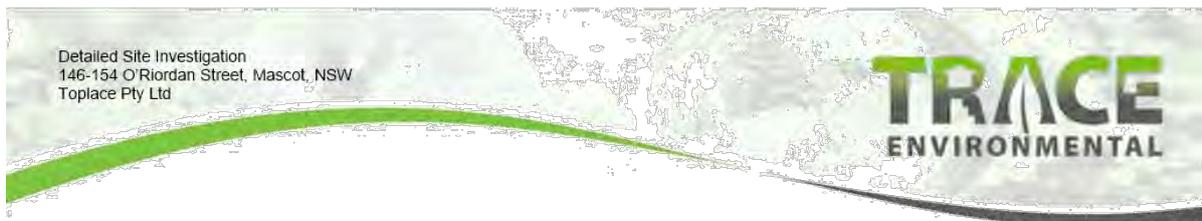
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Executive Summary

Toplace Pty. Ltd. engaged TRACE Environmental to undertake a Detailed Site Investigation (DSI), at 146-154 O'Riordan Street, Mascot, NSW ('the site'). The site is identified as Lot 1 of DP85597 (146 O'Riordan Street) and Lot A of DP320192, Lot A of DP402876 and Lot A of DP364217 (154 O'Riordan Street). The investigation was conducted to assess the site condition relative to the current commercial/light industrial land uses and proposed redevelopment of the site for medium to high density residential land use.

The scope of works undertaken for this investigation included:

- Undertake a review of available historical information, such as Certificates of Title, Council records and Environment Protection Authority New South Wales (EPA NSW) contaminated land registers;
- Undertake a field investigation including advancement of 21 boreholes across the site (utilising a Geoprobe drilling rig and/or hand auger) and analysis of selected soil samples for a selection of contaminants of potential concern (COPCs); as well as installation of four groundwater monitoring wells across the site and analysis of water samples for a selection of COPCs;
- Develop a preliminary conceptual site model (CSM) of the site outlining potential contamination sources and exposure pathways and receptors which may be impacted; and
- Preparation and submission of this report, which also includes recommendations for additional investigations.

Based on the findings of this investigation, TRACE Environmental provides the following summary and conclusions:

- The site has been used for a variety of light industrial and commercial purposes since the mid-1970's, prior to which, the site appears to have consisted of a mix of commercial/industrial-type structures, vegetated land and farmland (circa 1940s). The site has historically been used for a variety of purposes, including several types of manufacturing (e.g. fork lift trucks, electronic equipment, motor garage equipment, lubricating equipment and spraying equipment). The site is currently used for commercial/light industrial purposes, including electronics repair, fashion distribution, broadcasting, air freight transport, rail maintenance organisation workshop and food production/distribution. A potential underground stormwater detention basin is located in the south-western corner of the site, indicated by the land topography;
- Historical site uses, including a variety of manufacturing operations, are potential sources of sub-surface impact. Additionally, the likely historical importation of fill material from unknown sources has the potential to impact the sub-surface;
- Fill material was encountered during the investigation across the site to depths up to 3.0mbs, and was observed to contain anthropogenic waste materials at most soil bore locations;
- Fill and natural soil samples were collected from 21 soil bores advanced across the site. A total of 87 soil samples were analysed for a variety of COPCs to determine if historical site uses had impacted the sub-surface at the site, of these 22 natural soil samples submitted for acid sulfate soil (ASS) analysis;



- Four of the soil bores were completed as permanent groundwater monitoring wells (MW-1 to MW-4) and were developed, gauged, purged and sampled. Groundwater was encountered at depths between approximately 3.7 and 4.6 mBTC. Groundwater was calculated to flow south-westerly, towards Alexandra Canal;
- The results of the soil assessment showed COPCs at levels exceeding human health assessment criteria for the proposed medium to high density residential land use in fill material at locations across the site, with some COPCs reported above the ecological assessment criteria for urban residential and public open space from fill materials across the site;
- Asbestos (ACM and/or FA+AF) was identified in shallow fill material in the western and central areas of the site above the human health assessment criteria for the proposed land use;
- The results of the groundwater assessment showed heavy metal COPCs at levels exceeding the applicable guideline criteria in samples collected from all groundwater monitoring wells. Due to the urban setting of the site, these impacts are likely representative of background conditions at the site and surrounding site area; and
- Based on the laboratory analytical results for soil samples analysed for ASS parameters, it is considered likely that potential or actual acid sulfate soils are present in natural materials sampled at the site. As such, an Acid Sulfate Soil Management Plan (ASSMP) will be required prior to future development works or disturbance of the natural material at the site.

Based on the findings of the DSI, it is considered that the site can be made suitable for the proposed medium to high density residential land use following implementation of a Remedial Action Plan (RAP) for the site, incorporating a Data Gap Investigation (DGI), and the delineation, remediation and validation of identified soil impacts on the site. It is expected that implementation of the RAP would occur following demolition of site structures at the commencement of site redevelopment activities.

Based on the findings of the DSI, TRACE Environmental provides the following recommendations:

- A RAP should be prepared which outlines the remediation and/or management strategy for the identified impacts in fill material at the site for the proposed medium to high density residential land use. The remediation and/or management requirements outlined in the RAP should consider the findings of the current DSI in the context of the final redevelopment design, including ecological considerations as well as aesthetic observations made during the DSI fieldworks. The RAP should also include an unexpected finds protocol for the discovery of previously unidentified soil and/or groundwater impacts (including ACM and ASS) during hardstand removal and site redevelopment works;
- Due to access restrictions at some areas of the site, assessment of soil conditions could not be completed at all locations during the DSI. As such, the RAP should also incorporate a DGI which includes additional intrusive soil (and/or groundwater) investigations are required at the site to address current data gaps and to meet the recommended sampling densities outlined in NSW EPA 2006. This should also include additional investigation of areas of the site currently containing buildings, and shallow fill materials across the site should also be inspected following removal of concrete hardstand to assess for potential residual impacts relating to previous site infrastructure/operations;
- Prior to any disturbance of the sub-surface being undertaken at the site as part of the proposed site redevelopment, an Asbestos Management Plan (AMP) should be prepared in accordance with SafeWork NSW Codes of Practice, which identified the locations of the ACM, FA and AF detected



during this DSI and outlines how the asbestos risks will be controlled during work (including any air monitoring procedures that may be required);

- Due to the age and construction of the on-site structures, a hazardous materials survey should be conducted, and a hazardous materials register be prepared for the site prior to commencement of any demolition activities;
- Prior to any disturbance of the sub-surface being undertaken at the site as part of the proposed site development, an ASSMP should be prepared which identifies the locations of potential and/or actual ASS detected during this DSI and outlines how the ASS risks will be controlled during work;
- Any material to be removed must be classified in accordance with the NSW EPA (2014) *Waste Classification Guidelines*, and the soil be disposed appropriately to a facility licensed to accept the material; and
- Any imported material brought onto the site for any purpose must first be validated as being suitable for the intended land use, prior to being imported onto the site.



1 Introduction

Toplace Pty. Ltd. (Toplace) engaged TRACE Environmental to undertake a Detailed Site Investigation (DSI), incorporating a Preliminary Site Investigation (PSI) and Limited Soil Sampling Program for the property located at 146-154 O'Riordan Street, Mascot, NSW ('the site'). The site is identified as Lot 1 of DP85597 (146 O'Riordan Street) and Lot A of DP320192, Lot A of DP402876 and Lot A of DP364217 (154 O'Riordan Street).

A Locality Plan is presented in **Figure 1** showing the location of the site, and a Site Layout Plan is presented in **Figure 2**.

The investigation was conducted to assess the site condition relative to present and historical land uses, in particular the site condition relating to current commercial/light industrial land uses and proposed redevelopment of the site for medium to high density residential land use.

This investigation was completed in accordance with the National Environment Protection Measure (*Assessment of Site Contamination*) Measure, Amendment 2013 (NEPM) and relevant Environment Protection Authority New South Wales (EPA NSW) Guidelines.

1.1 Objectives

The specific objectives of this investigation are to:

- Assess the site condition relative to present and historical land uses;
- Identify any current or historical potentially contaminating activities;
- If applicable, identify the potential types and nature of contamination;
- If applicable, identify potential human and ecological receptors;
- Develop a preliminary Conceptual Site Model (CSM) to identify potential risks to human health and/or ecological receptors that may affect the suitability of the site for proposed residential land use with open space areas, and to inform further assessment at the site (if required); and
- Provide conclusions and recommendations regarding the contamination status of the site, and identify any further investigation, management and/or remediation measures for potential site contamination, if considered warranted.

1.2 Scope of Works

In order to achieve the objectives, the following scope of works were undertaken at the site:

- Undertake a review of historical information for the site, including:
 - Current and historical Certificates of Title;
 - Local Council records, including Planning Certificates;
 - EPA NSW administered environment management and contaminated land registers; and
 - Historical city directories; and



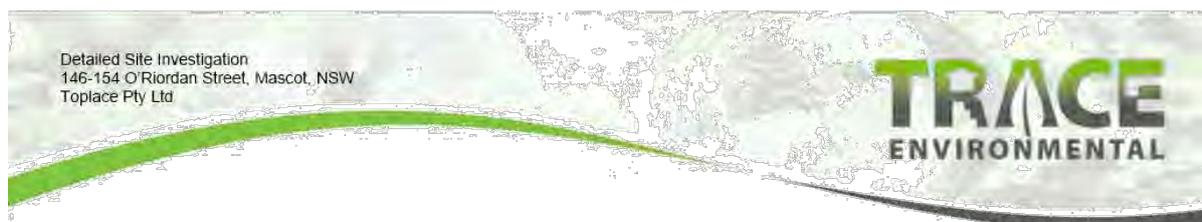
- Available historical aerial photographs.
- Undertake a review of the following information for the site and surrounds:
 - Registered groundwater bore database for groundwater bores in the vicinity of the site to assist in gaining an understanding of the local and regional hydrogeology;
 - Acid Sulfate Soils (ASS) and potential salinity risk maps; and
 - Available geological and hydrogeological information.
- Undertake a field investigation, including the following:
 - Conduct an inspection of the site to assist with the identification of potential on- and off-site sources of contamination;
 - Advancement of 21 boreholes (SB-1, SB-4, SB-6 to SB-12, SB-13, SB-14 and SB-17 to SB-27) at locations across the site and collection of fill and natural soil samples from each of the boreholes;
 - Analysis of selected soil samples for a selection of contaminants of potential concern (COPCs);
 - Conversion of four soil bores to permanent groundwater monitoring wells and collection of groundwater samples from each newly installed monitoring well; and
 - Analysis of collected groundwater samples for a selection of COPCs.
- Based on the results of the investigation, develop a preliminary CSM of the site, outlining potential contamination sources, exposure pathways and receptors which may be impacted, and undertake a preliminary environmental risk assessment; and
- Provide conclusions and recommendations regarding the contamination status of the site, and identify any further investigation, management and/or remediation measures for potential site contamination, if considered warranted.

Refer to **Sections 4 and 6** below for additional detail of the undertaken field investigation.

1.3 Statutory and Regulatory Framework

Field activities and reporting were carried out in accordance with the following guidelines, regulations and standards:

- CRC CARE (2011) *Technical Report No. 10 Health Screening Levels for Petroleum Hydrocarbons in Soil and Groundwater Part 1: Technical Development Document*, September 2011;
- National Environmental Protection Council (NEPC), National Environmental Protection (*Assessment of Site Contamination*) Measure (NEPM), 1999, Amendment 2013;
- NEPM (2013) *Schedule B(1) Guideline on Investigation Levels for Soil and Groundwater*, NEPM, 1999, Amendment 2013;
- NEPM (2013) *Schedule B(2) Guideline on Site Characterisation*, NEPM, 1999, Amendment 2013;



- National Health and Medical Research Council (2018) *Australian Drinking Water Guidelines (ADWG)*, Updated August 2018;
- NSW ASSMAC (1998) *Acid Sulfate Soils Manual*, New South Wales Acid Sulfate Soils Management Advisory Committee (ASSMAC), August 1998;
- NSW ASSMAC (1998) *Acid Sulfate Soils Assessment Guidelines*, ASSMAC, August 1998;
- NSW Department of Environment and Conservation (DEC) (2006) *Guidelines for the NSW Site Auditor Scheme (2nd Ed.)*, April 2006;
- NSW Department of Urban Affairs and Planning (1998) *Managing Land Contamination: Planning Guidelines: SEPP 55 Remediation of Land*, August 1998;
- NSW EPA (1995) *Sampling Design Guidelines*, September 1995;
- NSW EPA (2014), *Waste Classification Guidelines. Part 1: Classifying Waste*. NSW EPA, November 2014;
- NSW OEH (2011), *Guidelines for Consultants Reporting on Contaminated Sites*. NSW Office of Environment & Heritage (OEH), November 1997, Reprinted September 2000 and August 2011;
- NSW EPA (2015), *Guidelines on the Duty to Report Contamination under the Contaminated Land Management Act*. NSW EPA, September 2015;
- Standards Australia. *Guide to the investigation and sampling of sites with potentially contaminated soil. Part 1: Non-volatile and semi-volatile compounds*, AS4482.1 (2005) and Part 2: Volatile substances, AS4482.2 (1999);
- NSW WorkCover 2011a, *How to Manage and Control Asbestos in the Workplace Code of Practice*, WorkCover NSW, December 2011; and
- NSW WorkCover 2011b, *How to Safely Remove Asbestos Code of Practice*, WorkCover NSW, December 2011.



2 Site Description and Setting

2.1 Site Identification

Details of the site are included in **Tables 2-1** and **2-2** below. Photographs of the site are included in **Appendix A**.

Table 2-1: Summary of Site Identification Details – 146 O’Riordan Street

| ID Element | Description |
|----------------------------|---------------------------|
| Site Address | 146 O’Riordan Street |
| Standard Parcel Identifier | Lot 1 of DP85597 |
| Local Council | Bayside Council |
| Site Coordinates | -33.926458, 151.189119 |
| Zoning | Business Development (B5) |
| Approximate Site Elevation | 17m AHD |
| Approximate Site Area | 2,500 m ² |

Table 2-2: Summary of Site Identification Details – 154 O’Riordan Street

| ID Element | Description |
|----------------------------|--|
| Site Address | 154 O’Riordan Street |
| Standard Parcel Identifier | Lot A of DP320192, Lot A of DP402876 and Lot A of DP364217 |
| Local Council | Bayside Council |
| Site Coordinates | -33.926987, 151.188651 |
| Zoning | Business Development (B5) |
| Approximate Site Elevation | 17m AHD to 9m AHD |
| Approximate Site Area | 13,800 m ² |

The Locality Plan is presented in **Figure 1** and the Site Layout Plan is presented in **Figure 2**. Refer also to **Section 3.3** below for additional detail of each property comprising the site.

2.2 Site Description

A site inspection was completed by TRACE Environmental personnel on 3 August 2018. Photographs taken during the inspection are included in **Appendix A**. Details of the site, as observed during the inspection, are outlined in **Table 2-3** below and are shown on **Figure 2**.

Table 2-3: Site Description

| Category | Findings |
|---------------------------------|--|
| Current Use and Users/Occupiers | The 146 O’Riordan Street site parcel currently comprises a large warehouse/office building with a car parking area in the western portion of the site. The warehouse is used for a variety of commercial purposes, including IT training and electronics repair and refurbishment. |



| | |
|---|--|
| | <p>The 154 O'Riordan Street site parcel currently comprises of three large warehouse/office buildings, located in the northern, southern and eastern portions of the site parcel. Car parking areas are located in the western, central and south-eastern portions of the site. The on-site buildings are used for a variety of commercial and/or light industrial purposes, including fashion distribution, broadcasting, air freight transport, food production/distribution and rail maintenance organisation workshop.</p> |
| Future Use and Users/Occupiers | <p>It is understood that the proposed future land use of the site is medium to high density residential land use.</p> <p>The future users of the site will be third parties/visitors/customers/employees of the building or future residents (should the site be redeveloped for residential purposes). Intrusive maintenance workers would also be expected to undertake works periodically at the site.</p> |
| Current Site Features | <p>146 O'Riordan Street – Access to this portion of the site is from the western boundary, from O'Riordan Street. An irregular shaped warehouse/office building is present in the central and eastern portions of the site parcel. A car parking area with landscaped areas at the boundaries is present in the western portion of the site parcel.</p> <p>154 O'Riordan Street – Access to this portion of the site is from the western boundary, from O'Riordan Street. An oblong shaped warehouse/office building is located in the northern portion of the site parcel and borders the 146 O'Riordan Street warehouse building. A larger warehouse building is present in the southern portion of the site parcel and extends for approximately 80% of the southern site boundary. A smaller warehouse building is located in the eastern portion of the site parcel. Car parking areas are located in the north-west, central and south-east portions of the site parcel, with a driveway linking them through the centre of the site (orientated west to east). A small landscaped area is located in the south-western portion of the site, with access from O'Riordan Street. An underground storage tank (UST) (likely a stormwater detention basin) appears to be located in this area, however its presence could not be confirmed by a service locator and underground service plans relating to the on-site infrastructure were unavailable to TRACE Environmental during the site investigation.</p> |
| Proposed Site Features | <p>It is understood that the site may potentially be redeveloped to medium to high density residential land use.</p> |
| Chemicals, raw materials and intermediate products storage and use | <p>A potential UST was identified in the south-western portion of the 154 O'Riordan Street site parcel; however, the potential uses of this UST are unknown (and appears to be associated with the on-site stormwater drainage). In addition, other chemicals such oils may have been stored at some locations across the site (e.g. workshops).</p> |
| Waste Management | <p>No hazardous waste is currently generated or stored on-site. Light commercial waste is temporarily stored in bins prior to off-site disposal.</p> |
| Reported spills, chemical losses, discharges to land/water and/or incidents/accidents | <p>No visible evidence of significant chemical spills was observed on the site. A review of available EPA databases indicates that the site has not been listed by the EPA NSW (refer to Section 3.4).</p> |
| Surface covering/Vegetation | <p>The majority of the 146 and 154 O'Riordan Street site parcels comprises concrete or bitumen hardstand associated with the on-site buildings and car parking areas. Landscaped areas are present along the eastern and western site boundaries and between car parking spaces in the western and central car parking areas. A larger landscaped area is present in the south-west corner of the 154 O'Riordan Street site parcel.</p> |
| Electrical transformers/power generation | <p>The site is provided power via underground services. No electrical transformers were observed at the site.</p> <p>An electrical substation is located in the south-western corner of the 154 O'Riordan Street site parcel.</p> |
| Topography and infilling | <p>The 146 O'Riordan Street site parcel is generally flat, and the 154 O'Riordan Street site parcel generally slopes towards the east. No visible areas of significant infilling</p> |



| | |
|------------------|---|
| | were observed or suspected during the site inspection, however, it is noted that a small mound was observed at the south-west corner of the site which appeared to be associated with a suspected underground stormwater detention basin. |
| Surface drainage | <p>Details of the on-site surface water drainage system were not provided. However, based on site observations, surface water from the building roof areas is expected to drain to the municipal storm drainage system. Sheet flow across the car park areas is expected to flow to storm drains located within the car parks and central driveway and discharge to the municipal storm drainage system.</p> <p>The discharge point of the on-site surface water drainage in the site area is likely the municipal stormwater system.</p> |

2.3 Surrounding Land Use

The current adjoining properties of the site comprised:

- North of the site: Mascot Oval;
- East of the site: low to medium density residential properties;
- South of the site: commercial/light industrial properties; and
- West of the site: O'Riordan Street and a construction site beyond (at the time of investigation, construction of a multi-story building was near completion across O'Riordan Street).

2.4 Surface Water Bodies

The nearest surface water body is an unnamed drain, located approximately 600m west of the site, that empties into the Alexandria canal, located approximately 1km north-west/west of the site. The nearest natural surface water body is Mill Stream, approximately 1.5km south-east of the site.

It is also noted that Botany Bay is located approximately 3km south of the site.

2.5 Regional Geology & Hydrogeology

The Lotsearch Pty Ltd (Lotsearch) *Environmental Risk and Planning Report* (provided in **Appendix B**) provides details of the geological information at the site, sourced from NSW Department of Industry, Resources and Energy.

The Lotsearch report indicates that the site is underlain by Quaternary age marine sands with podsoils. No geological faults, dykes, marker beds, veins or shear zones are indicated to be located beneath or within a 1km radius of the site.

The Lotsearch report indicates that the on-site soil type consists of Podosol; coastal sand plains and dunes, lagoons and swampy areas. The chief soil type is indicated to be leached sands.

The Lotsearch report also indicates that the aquifer directly underlying the site is porous and an extensive highly productive aquifer. Based on the location of the nearest natural surface water body to the site (Mill Stream), and the close proximity to Botany Bay, it is inferred that regional groundwater at the site likely flows to the south/south-west.



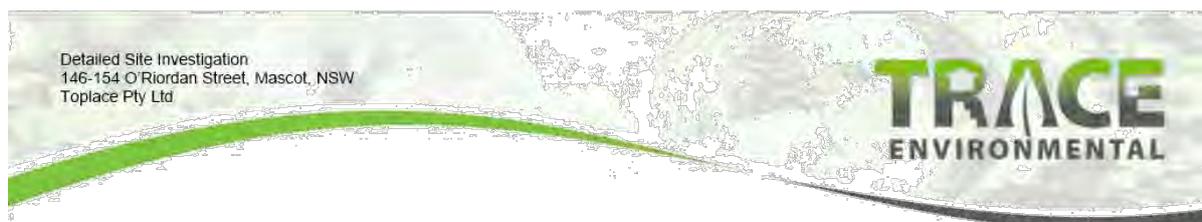
2.6 Acid Sulfate Soils

The Lotsearch report indicates that the site is located within Acid Sulfate Soil (ASS) Plan Class 4, indicating that works more than 2m below natural ground surface present an environmental risk and works by which the water table is likely to be lowered more than 2m below natural ground surface present an environmental risk. In addition, a review of the maps provided online by the Australian Soil Resource Information System (ASRIS) (<http://www.asris.csiro.au/>) shows the site to be in a zone of low probability of occurrence for ASS. An ASS map is included in the Lotsearch report, provided in **Attachment B**.

Given the high risk of ASS at the site, an ASS investigation was undertaken.

2.7 Registered Groundwater Bore Search

Searches of the NSW Department of Primary Industries – Office of Water/Water Administration Ministerial Corporation and Commonwealth of Australia (Bureau of Meteorology) were conducted by Lotsearch on 6 August 2018 and identified 148 registered bores within a 1km radius of the site. Of these bores, 12 are listed as domestic bores, four are listed as recreation bores, 110 are listed as monitoring bores, 10 are listed as industrial bores, two are listed as dewatering bores, one is listed as a groundwater exploration bore, six are listed as general use bores and three are listed as groundwater remediation bores. The approximate depths of the bores with available data ranges between 0.90 and 20.10 metres below ground surface (mbgs). It is noted that the nearest bore to the site (a domestic bore located 24m east of the site) was drilled to a maximum depth of 42mbgs, however, no data regarding the final depth of the installed well was provided.



3 Site History and Background

Historical information was obtained for the site from a number of sources as presented in **Table 3-1**, below. The results of the site historical and background information are further discussed in the following sections.

Table 3-1: Historical and Background Information Search

| Item | Source | Comments |
|--|---|---|
| Current Certificate of Title | Advance Legal Searchers Pty. Ltd. | Current Certificate of Title documents are discussed below, and copies are included in Appendix C . |
| Historical Certificate of Title | Advance Legal Searchers Pty. Ltd. | Historical Certificate of Title documents are discussed below, and copies are included in Appendix C . |
| Planning and Zoning Information | NSW Department of Planning & Environment Property Report | The Property Reports are discussed below, and copies are included in Appendix D . |
| Contaminated Land Register | NSW EPA | No records were found for the site. The search results are included in Appendix E . |
| SafeWork NSW Storage of Hazardous Chemicals Search | SafeWork NSW | Storage of Hazardous Chemicals search is discussed below, and a copy of the search results is included in Appendix F . |
| Aerial Photographs | NSW Department Finance, Services and Innovation, Google Earth | Aerial Photographs are discussed below, and the images are included in the Lotsearch report in Appendix B . |

3.1 Certificates of Title

Current and historical Certificates of Title were obtained for the lots comprising the site including Lot 1 of DP85597 (146 O'Riordan Street) and Lot A of DP320192, Lot A of DP402876 and Lot A of DP364217 (154 O'Riordan Street). It is noted that the search for certificates of titles indicated that the folio identifiers of the site parcels appears to have been recently changed and are referred to Lot 15 of DP1232496 (146 O'Riordan Street) and Lots 13 and 14 of DP1231496 and Lot A of DP402876. Copies are included in **Appendix C**. Details are provided in **Tables 3-2, 3-3, 3-4 and 3-5** below.

Table 3-2: Summary of Titles - 146 O'Riordan Road – Lot 1 DP85597 / Lot 15 DP1232496:

| Year | Proprietor(s) |
|----------------------|---|
| | (Lot 15 DP 1232496) |
| 2018 – to date | JKN Park Pty Ltd |
| | (Lot 1 DP 85597) |
| 2013 – 2018 | JKN Park Pty Ltd |
| 2003 – 2013 | Stead Denton |
| 1994 – 2003 | Balfour Grange Pty Limited |
| <i>(1989 – 2018)</i> | <i>(various leases shown on Historical Folio 1/85597)</i> |
| 1988 – 1994 | Tohaha Pty Limited |
| | (Lot 1 DP 85597 – CTVol 12181 Fol 96) |
| 1987 – 1988 | Tohaha Pty Limited |



| | |
|---------------|---|
| 1980 – 1987 | State Superannuation Board |
| 1973 – 1980 | CDL Developments (No.1) Pty Limited |
| 1973 – 1973 | J.E.L Developments (Australia) Pty Limited |
| | (Part Portion 136 Parish Botany – Area 2 Roods 30 ¼ Perches – CT Vol 5565 Fol 36) |
| 1972 – 1973 | J.E.L Developments (Australia) Pty Limited |
| (1968 – 1972) | <i>(lease to Dowel Industries (NSW) Pty Limited)</i> |
| 1950 – 1972 | Westcott Hazell Engineering & Steel Limited |
| 1946 – 1950 | Norge Investments Pty Limited |
| 1946 – 1946 | Peder Martin Andersen, mechanical engineer |
| | (Part Portion 136 Parish Botany – Area 2 Roods 30 ¼ Perches – Conv BK 1917 No 776) |
| 1942 – 1946 | Peder Martin Andersen, mechanical engineer |
| | (Part Portion 136 Parish Botany – Area 2 Roods 30 ¼ Perches – New Trustee Bk 1917 No 79) |
| 1942 – 1942 | William James Lodge, carter / trustee Charles Henry Lodge, retired Gardner / trustee John Lodge, estate |

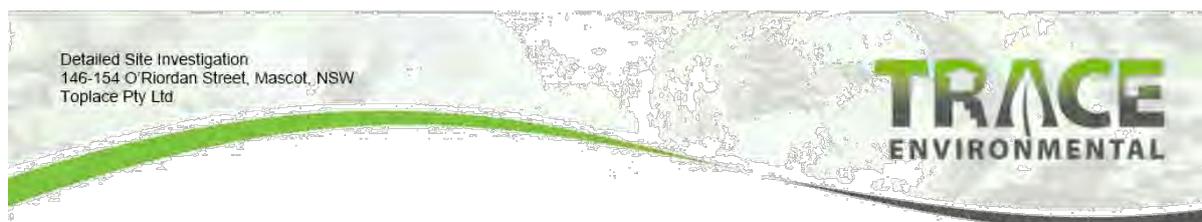
Table 3-3: Summary of Titles - 154 O'Riordan Road – Lot A DP364217 / Lot 14 DP1232496:

| Year | Proprietor(s) |
|-----------------|---|
| | (Lot 14 DP 1232496) |
| 2018 – todate | JKN Park Pty Ltd |
| (2018 – todate) | <i>(various current leases shown on Folio Identifier 14/1232496)</i> |
| | (Lot A DP 364217) |
| 2013 – 2018 | JKN Park Pty Ltd |
| 2013 – 2013 | Dexus Funds Management Limited |
| 2002 – 2013 | Perpetual Trustee Company Limited |
| 2002 – 2002 | Paladin Australia Limited |
| 1997 – 2002 | Trust Company of Australia Limited |
| 1991 – 1997 | Fai Life Insurance Society Limited |
| 1989 – 1991 | Fai Properties Pty Limited |
| (1989 – 2018) | <i>(various leases shown on Historical Folio A/364217)</i> |
| | (Lot A DP364217 – CTVol 15474 Fol 100) |
| 1987 – 1989 | Fai Properties Pty Limited |
| (1987 – 1989) | <i>(various leases shown on CTVol 15474 Fol 100)</i> |
| | (Part Portion 136 Parish Botany – Area 1 Rood 30 ¼ Perches – CT Vol 6084 Fol 26) |
| 1982 – 1987 | Lexane Pty Limited |
| 1950 – 1982 | Gearin O'Riordan Limited |
| 1950 – 1950 | Norge Investments Pty Limited |
| | (Part Portion 136, Parish Botany – Area 1 Acre 1 Rood 20 Perches – CTVol 5826 Fol 128) |

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| | |
|--------------|--|
| 1949 – 1950 | Norge Investments Pty Limited |
| 1948 – 1949 | The Council of the Municipality of Mascot |
| | (Part Portion 136, Parish Botany – Area 1 Acre 1 Rood 20 Perches) |
| Prior – 1948 | Sarah Emily Forster |

Table 3-4: Summary of Titles - 154 O'Riordan Road – Lot A DP320192 / Lot 14 DP1232496:

| Year | Proprietor(s) |
|------------------------|--|
| | (Lot 13 DP 1232496) |
| 2018 – todate | JKN Park Pty Ltd |
| <i>(2018 – todate)</i> | <i>(various current leases shown on Folio Identifier 13/1232496)</i> |
| | (Lot A DP 320192) |
| 2013 – 2018 | JKN Park Pty Ltd |
| 2013 – 2013 | Dexus Funds Management Limited |
| 2002 – 2013 | Perpetual Trustee Company Limited |
| 2002 – 2002 | Paladin Australia Limited |
| 1997 – 2002 | Trust Company of Australia Limited |
| 1991 – 1997 | Fai Life Insurance Society Limited |
| 1989 – 1991 | Fai Properties Pty Limited |
| <i>(1989 – 2018)</i> | <i>(various leases shown on Historical Folio A/364217)</i> |
| | (Lot A DP320192 – CTVol 15474 Fol 99) |
| 1987 – 1989 | Fai Properties Pty Limited |
| <i>(1987 – 1989)</i> | <i>(various leases shown on CTVol 15474 Fol 99)</i> |
| | (Part Portion 136, Parish Botany – Area 1 Acre 1 Rood 13 ¼ Perches – CT Vol 4142 Fol 133) |
| 1982 – 1987 | Lexane Pty Limited |
| 1967 – 1982 | Gearin O'Riordan Pty Limited |
| 1928 – 1967 | Gearin-O'Riordan Limited |
| | (Part Portion 136, Parish Botany – Area 4 Acres 2 Rood 8 Perches – CT Vol 1383 Fol 199) |
| 1922 – 1928 | M.Gearin and Sons Limited |
| 1901 – 1922 | Michael Gearin, fat extractor |

Table 3-5: Summary of Titles - 154 O'Riordan Road – Lot A DP320192 / Lot 14 DP1232496:

| Year | Proprietor(s) |
|------------------------|--|
| | (Lot A DP 402876) |
| 2015 – todate | JKN Park Pty Ltd |
| 2013 – 2015 | Dexus Funds Management Limited |
| 2013 – 2013 | Perpetual Trustee Company Limited |
| <i>(2008 – todate)</i> | <i>(various current leases shown on Folio Identifier A/402876)</i> |
| 2002 – 2013 | Paladin Australia Limited |
| 2002 – 2002 | Trust Company of Australia Limited |
| 1997 – 2002 | Fai Life Insurance Society Limited |



| | |
|-----------------|--|
| 1991 – 1997 | Fai Properties Pty Limited |
| (1991 – todate) | (various leases shown on Historical Folio A/402876) |
| | (Lot A DP402876 – CTVol 15474 Fol 101) |
| 1987 – 1991 | Fai Properties Pty Limited |
| (1987 – 1989) | (various leases shown on CTVol 15474 Fol 101) |
| | (Part Portion 136 Parish Botany – Area 1 Acre 1 Rood 0 Perches – CT Vol 7457 Fol 156) |
| 1982 – 1987 | Lexane Pty Limited |
| 1967 – 1982 | Gearin-O’Riordan Pty Limited |
| 1958 – 1967 | Gearin-O’Riordan Limited |
| | (Part Portion 136 Parish Botany – Area 2 Acres 2 Rood 19 Perches – CT Vol 5564 Fol 144) |
| 1946 – 1958 | W.F.Campbell Pty Limited |
| | (Part Portion 136, Parish Botany – Area 2 Acres 2 Rood 33 ¼ Perches – CT Vol 5297 Fol 24) |
| 1942 – 1946 | M.Gearin and Sons Limited |
| | (Part Portion 136, Parish Botany – Area 4 Acres 2 Rood 8 Perches – CT Vol 1383 Fol 199) |
| 1922 – 1942 | M.Gearin and Sons Limited |
| 1901 – 1922 | Michael Gearin, fat extractor |

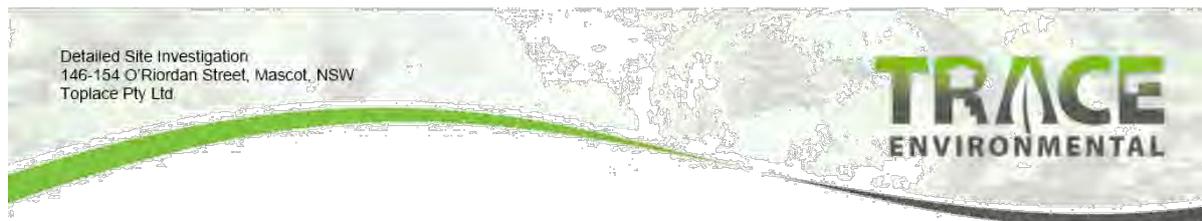
3.2 Historical Aerial Photograph Review

Aerial photographs of the site for the years 1943, 1951, 1955, 1961, 1965, 1970, 1976, 1982, 1991, 2000, 2009 and 2015 were sourced from NSW Department of Finance, Services and Innovation. Aerial photographs for the years 2000, 2009 and 2015 were sourced from Google Inc.

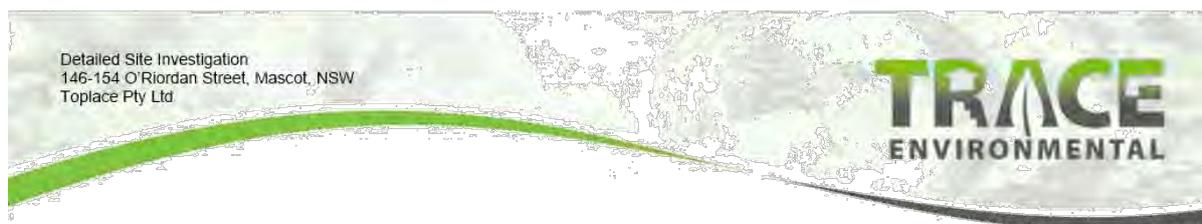
A summary of the photographs is provided in **Table 3-6**, below. Aerial photograph extract images are presented in the Lotsearch report in **Appendix B**.

Table 3-6: Summary of Historical Aerial Photographs

| Aerial Photograph | Description |
|-------------------------|--|
| 1943 Black and White | <p>Several irregular shaped buildings were present in the western portion of the site at this time and were potentially used for commercial/light industrial purposes. An additional building of unknown purpose was present in the north-west corner of the site. The remaining portion of the western half of the site appeared to be covered in vegetation, with an area of possible cleared land (or possible excavation) visible in the south-central west portion of the site. The eastern half of the site consisted of apparent agricultural fields (possible market gardens), with small buildings (possible sheds) located in the south-eastern corner of the site.</p> <p>The surrounding land use appeared to be a mix of industrial, residential and agricultural (possible market gardens). Several warehouse-style buildings were present approximately 30m and 120m north of the site and agricultural land directly south of the site. Residential properties are visible to the east (100m) and south (150m) of the site. A large plot of vacant land, which appeared to be cleared of vegetation, was present to the west of the site during this time.</p> |



| Aerial Photograph | Description |
|-------------------------|---|
| 1951 Black and White | <p>The buildings in the north-west corner of the site had been extended eastwards and appear to be warehouses or industrial (possible factory-style) buildings. Remaining areas of the site appear generally consistent with the 1943 aerial photograph.</p> <p>An apparent factory building had been constructed on the vacant land to the west of the site, with the space between structures used for what appears to be container storage. The present-day Mascot Oval is visible to the north of the site.</p> |
| 1955 Black and White | <p>The site layout is generally consistent with the 1951 aerial photograph, with less vegetation cover visible in the western portion of the site. An apparent drainage ditch oriented north-south appears to be located at the south-central portion of the site (immediately west of the on-site agricultural fields).</p> <p>Further development is visible at the formerly vacant property to the west of O'Riordan Street, with at least three additional warehouse-style buildings visible.</p> |
| 1961 Black and White | <p>An apparent driveway is visible at the western portion of the site, providing access from O'Riordan Street to the eastern side of the warehouses in the western half of the site. The agricultural portion of the site (at the eastern portion of the site) appears partially overgrown.</p> <p>Further development of warehouses to the west and north-west of the site (across O'Riordan Street). Additional industrial land had been developed to the east and south of the site</p> |
| 1965 Black and White | <p>An additional rectangular building is visible immediately east of the warehouses located in the southern half of the site. An apparent driveway is visible at the western portion of the site, extending south-east to the central portion of the site from O'Riordan Street. The eastern portion of the site appears to be used for miscellaneous storage (possibly miscellaneous debris).</p> <p>Further industrial development to the west and north and south of the site.</p> |
| 1970 Black and White | <p>The site remained generally unchanged, with the exception that the central area of the site appears to have been paved</p> <p>The area surrounding the site remained generally unchanged.</p> |
| 1976 Black and White | <p>The warehouses in the northern half of the site had been demolished. The eastern portion of the site was now in use as a car park.</p> <p>The area surrounding the site remained generally unchanged.</p> |
| 1982 Colour | <p>Almost all warehouse buildings in the south-western portion of the site had been demolished, with the exception of a warehouse in the south-west corner and centre of the site. A warehouse building had been constructed in the northern portion of the site (at the 146 O'Riordan Street parcel).</p> <p>The present day carpark located immediately north-east of the site had been constructed.</p> |
| 1991 Colour | <p>The southern half of the site (i.e. 154 O'Riordan Street site parcel) had been developed to its present day configuration, with warehouse buildings constructed in the southern, northern and eastern portions of the site parcel.</p> <p>Bourke Road had been developed to the west of the site. Redevelopment of the area north-west of the site, with new buildings similar to the present day hotels, offices and shops. The warehouses previously located immediately adjacent to the east of the site had been replaced with residential property.</p> |
| 2000 Colour | <p>The site remained generally unchanged.</p> <p>The area surrounding the site remained generally unchanged.</p> |
| 2009 Colour | <p>The warehouse in the northern portion of the site (i.e. 146 O'Riordan Street site parcel) had been developed to its present-day configuration (it is unclear if this is the same building that</p> |



| Aerial Photograph | Description |
|-------------------|---|
| | was first visible in the 1982 aerial photograph and was renovated, or if the original building was replaced). |
| | The area surrounding the site remained largely unchanged. |
| 2015 Colour | The site remained generally unchanged. |
| | The area surrounding the site remained generally unchanged. |

3.3 Relevant Planning Information

The property reports for the site were obtained from Bayside Council on 13 September 2018. A review of the property reports for the site indicates the following Lot and TP/LP information associated with the site:

- 146 O'Riordan Street:
 - Land Use Zone: B5 – Business Development;
 - Acid Sulfate Soils: Class 4
 - The land is not situated in a designated bushfire prone area;
- 154 O'Riordan Street:
 - Land Use Zone: B5 – Business Development;
 - Acid Sulfate Soils: Class 4
 - The land is not situated in a designated bushfire prone area;

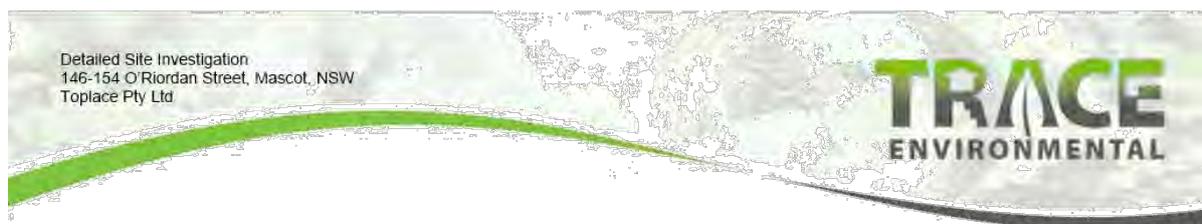
It is also noted that the site is not listed on the property reports as being the subject of an environmental audit.

Copies of the property reports are provided in **Appendix D**.

3.4 Contaminated Land Record Review

The List of NSW Contaminated Sites Notified to EPA was accessed online on 16 August 2018 (<https://www.epa.nsw.gov.au/your-environment/contaminated-land/notification-policy/contaminated-sites-list>) and is provided in **Appendix E**. No notices or declarations under Section 60 of the Contaminated Land Management Act 1997 (CLM Act) were listed for the site.

The current list of activities licensed by NSW EPA under Schedule 1 of the Protection of the Environment Operations Act 1997 (POEO Act) was accessed online on 15 October 2018 (<https://www.epa.nsw.gov.au/licensing-and-regulation/public-registers/about-prpoeo/list-of-licences>). No activities are currently licensed by NSW EPA at the site. In addition, the current list of unlicensed premises regulated by NSW EPA under the POEO Act was accessed online on 15 October 2018 (<https://www.epa.nsw.gov.au/licensing-and-regulation/public-registers/about-prpoeo/unlicensed-premises-epa-reg>). No unlicensed premises regulated by NSW EPA are listed at the site.



The NSW EPA Contaminated Land Management (CLM) register was accessed online on 15 October 2018 (<https://apps.epa.nsw.gov.au/prclmapp/searchregister.aspx>). No notices were listed for the site.

The nearest property relative to the site listed on the List of Contaminated Sites is a former zinc smelter and paint manufacturing facility at 163 O'Riordan Road, approximately 50m north of the site. This site is listed as 'Regulation under CLM Act not Required'. Based on distance and direction, this site is considered a potential source of contamination for the site.

No other properties listed on the register were in the site area which are considered to have the potential to impact the site.

3.5 SafeWork NSW Storage of Hazardous Chemicals Search

A search on Storage of Hazardous Chemicals for the site was conducted by SafeWork on 10 August 2018, with no records identified. A copy of the SafeWork Storage of Hazardous Chemicals Search is presented in **Appendix F**.

3.6 Historical Business Directories

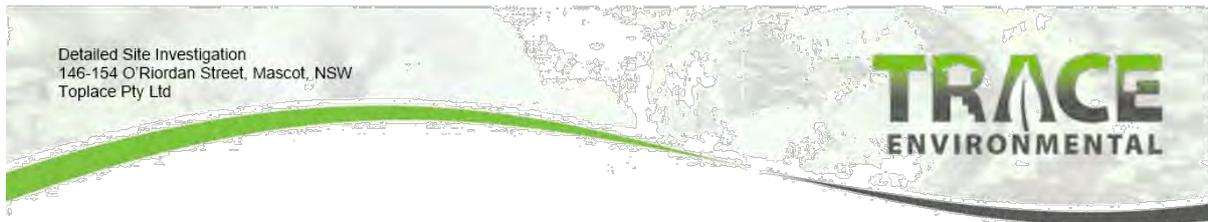
A search of historical UBD Business Directories for the years 1950, 1961, 1965, 1970, 1975, 1978, 1982 and 1991 was conducted by Lotsearch on 6 August 2018 (refer to **Appendix B**).

A summary of the historical UBD Business Directories for the site is provided in **Table 3-7**, below:

Table 3-7: Summary of UBD Business Directories Search

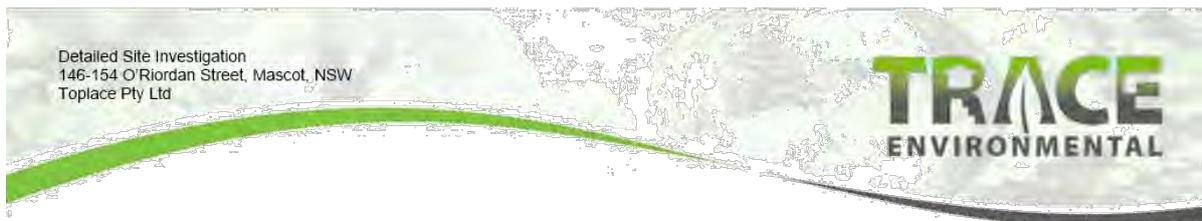
| Year | Business Activity |
|------|---|
| 1950 | No business activities were recorded for the site at this time. |
| 1961 | Steam generator manufacturers |
| 1965 | Fork lift truck manufacturers Electronic equipment manufacturers and/or distributors Motor garage equipment manufacturers and/or distributors Spraying equipment manufacturers Motor foundation hard trim Lawn mowers importer and/or distributor Lubricating equipment manufacturers Material handling equipment manufacturers Conveyors and conveying equipment manufacturers Motor testing/tuning equipment manufacturers/distributors Battery charging and testing equipment distributors |
| 1970 | No business activities were recorded for the site at this time. |
| 1975 | No business activities were recorded for the site at this time. |
| 1978 | No business activities were recorded for the site at this time. |
| 1982 | Air cargo agents |
| 1991 | Freight forwarders Air cargo agents |

Several businesses with potential to cause subsurface contamination were also identified within the surrounding area of the site that may or may not have potential to impact the site. These include motor service stations, a joinery, a crane hire yard and a variety of manufacturers (including paints, machinery and adhesives).



3.7 Heritage Database Searches

A review of available NSW Department of Finance, Services and Innovation was conducted by Lotsearch on 6 August 2018 to determine if the site contains any heritage items on statutory lists in New South Wales. No notices or heritage items were listed for the site (refer to the Lotsearch report in **Appendix B**).



4 Sampling and Analysis Quality Plan (SAQP)

4.1 Data Quality Objectives

Data Quality Objectives (DQOs) were adopted for this assessment. The DQO process is described within US EPA (2000) *Guidance for the Data Quality Objectives Process and Data Quality Objectives Process for Hazardous Waste Site Investigations*.

The DQOs for the site investigation are summarised in **Table 4-1**, below.

Table 4-1: Data Quality Objectives

| Data Quality Objective | Description |
|----------------------------------|---|
| Step 1 State the Problem | <p>An intrusive investigation is required to assess the contamination status of soil and groundwater at the site. The results of the investigation will show the type, concentrations, and extent of potential contamination impacting the site, in exceedance of applicable guideline criteria (if any) as a preliminary assessment.</p> <p>Appropriate remedial measures, if required, to ensure the site is made suitable for the current and future land use, cannot be devised until a subsurface investigation has been completed.</p> |
| Step 2 Identify the Decisions | <p>The decisions that must be made are:</p> <ul style="list-style-type: none"> Is the site potentially contaminated from historical land use? What is the risk posed to potential on-site (and off-site) receptors from the concentrations of COPCs identified at the site (if any)? Are site soils and groundwater suitable for the intended land uses from a land contamination perspective? If not, is remediation of site soils and/or groundwater necessary to ensure the site is made suitable for the intended land use? |



| Data Quality Objective | Description |
|---|--|
| <p>Step 3 Identify Inputs to the Decision</p> | <p>This investigation has been devised to obtain the contamination status of the site. The primary inputs to the decisions described above are:</p> <ul style="list-style-type: none"> • Conduct database searches and review of historical information; • Determine the local environmental sensitivity, including geological, hydrogeological and hydrological information and identification of nearby sensitive receptors; • Assessment of fill and natural soils, with samples collected from soil boreholes advanced across the site; • Assessment of groundwater beneath the site, with samples collected from monitoring wells installed following advancement of soil bores across the site; • Ensuring a sufficient number of samples are collected, in accordance with regulatory guidelines, to characterise site soils and groundwater, where present (i.e. as required as part of this investigation with an assessment to be made following review of the investigation results for any additional works that may be required at the site); • Laboratory analysis of soil and groundwater samples for relevant COPCs, based on current and historical land use; • Assessment of the analytical results against applicable guideline criteria, based on the current and future anticipated land use; • Assessment of the suitability of the analytical data obtained, against the Data Quality Indicators (DQIs); and • Aesthetic observations of soils and groundwater, including odours, staining, sheen and/or waste inclusions. |
| <p>Step 4 Define the Study Boundaries</p> | <p>The site is located at 146 O'Riordan Street (identified as Lot 1 of DP85597) and 154 O'Riordan Street (identified as Lot A of DP320192, Lot A of DP402876 and Lot A of DP364217, respectively). The lateral extent of the study is the site boundaries (as shown on Figure 2). The vertical extent of the study extends to the depth of maximum drilling at 12.0 metres below ground surface (mbgs) in natural sands.</p> |
| <p>Step 5 Develop a Decision Rule</p> | <p>The decision rules for this investigation include:</p> <ul style="list-style-type: none"> • If the concentration of a soil and/or groundwater COPC in a sample is below the applicable guideline criteria, then no further assessment/remediation will be required with respect to that COPC; • If soil and/or groundwater COPCs exceed the applicable guideline criteria, the site will be deemed to potentially contain 'hot spots' of contamination; • If the 95% upper confidence limit (UCL) of a soil and/or groundwater COPC is less than applicable guideline criteria, standard deviation is less than 50%, and no reported concentration is greater than 250% of criteria, then no further assessment/remediation will be required with respect to that COPC; and • If the concentration of a soil and/or groundwater COPC in a sample exceeds the applicable guideline criteria, the additional works (e.g. remediation or quantitative risk assessment) may be required to minimise the risk. |



| Data Quality Objective | Description |
|--|--|
| <p>Step 6</p> <p>Specify Limits on Decision Errors</p> | <p>Data Quality Indicators (DQIs) are used to assess the reliability of field procedures and analytical results. DQIs are described as follows and are presented in Table 4-2, below:</p> <ul style="list-style-type: none"> • Completeness – a measure of the amount of useful data (expressed as %) from a data collection activity; • Comparability – the confidence (expressed qualitatively) that data may be equivalent for each sampling and analytical event; • Representativeness – the confidence (expressed qualitatively) that data are representative of each media present on the site; • Precision – a quantitative measure of the variability (or reproducibility) of data; and • Accuracy (bias) – a quantitative measure of the closeness of reported data to the true rule. <p>In addition, this step should include the following considerations to quantify tolerable limits:</p> <ul style="list-style-type: none"> • If 95% UCLs are adopted for a particular soil COPC, a decision can be made based on a 95% probability that the 'true' arithmetic average contaminant concentration within the sampling area will not exceed the value determined by this method. Therefore, the limit on the decision error will be that there is a 5% probability that the calculated arithmetic average contaminant concentration may be incorrect; and • If the minimum soil sampling points required for site characterisation based on detected circular hot spots by using a systematic sampling pattern is adopted (<i>Standards Australia (2005) Guide to the investigation and sampling of sites with potentially contaminated soil. Part 1: Non-volatile and semi-volatile compounds</i>), a decision can be made based on a 95% confidence of detecting a hot spot of a particular diameter. Therefore, the limit on the decision error will be that there is a 5% probability that a hotspot of a particular diameter may not be detected. However, as noted above in Step 3, this investigation is devised to obtain a preliminary overview of the contamination status of the site and an assessment to be made following review of the investigation results for any additional works that may be required at the site. |



| Data Quality Objective | Description |
|--|---|
| Step 7 Optimise the Design for Obtaining Data | <p>To achieve the DQOs and DQIs, the following sampling procedures will be implemented to optimise the design for obtaining data:</p> <ul style="list-style-type: none"> • Primary, duplicate and triplicate soil and groundwater samples will be analysed at NATA accredited laboratories; • Field and laboratory quality assurance/quality control (QA/QC) results will indicate reliability and representativeness of the data set; • Laboratory LORs will be below the applicable guideline criteria for the analysed COPC, where possible; • Applicable guideline criteria will be sourced from NEPM (2013) guidelines and other EPA NSW endorsed guidelines (as necessary); • Any soil and/or groundwater aesthetic issues will be evaluated including areas of discolouration, odour, sheen and/or hazardous waste inclusions; • Fill and natural soil samples will be collected, where possible, from 21 soil bores advanced at the site to target potential areas of impact at the site; • Groundwater samples will be collected from 4 groundwater monitoring wells installed at the site during investigation works, to obtain a representative view of groundwater conditions beneath the site; • Soil and groundwater COPCs will be selected based on a review of historical activities at the site and the surrounding area. Based on current and known historical site uses, the COPCs are considered to include asbestos, total recoverable hydrocarbons (TRH)/total petroleum hydrocarbons (TPH), benzene, toluene, ethyl-benzene, xylenes and naphthalene (BTEXN), heavy metals (arsenic, cadmium, copper, chromium, nickel, mercury and zinc), polycyclic aromatic hydrocarbons (PAHs), phenols, polychlorinated biphenyls (PCBs), organochlorine pesticides (OCPs), organophosphorus pesticides (OPPs), volatile organic compounds (VOCs) and/or per -and poly-fluoroalkyl substances (PFAS); • Samples will be collected by suitably qualified and experienced environmental consultants; • Soil and groundwater samples will be collected and preserved in accordance with relevant standards/guidelines; • Soil observations including odours, staining and photoionization detector (PID) readings will assist with selection of samples for laboratory analysis; and • Field and laboratory QA/QC procedures will be adopted and reviewed to indicate the reliability of the results obtained. |

4.2 Data Quality Indicators

The DQIs outlined in **Table 4-2** below assist with decisions regarding the contamination status of the site, including the quality of the laboratory data obtained.

Table 4-2: Data Quality Indicators

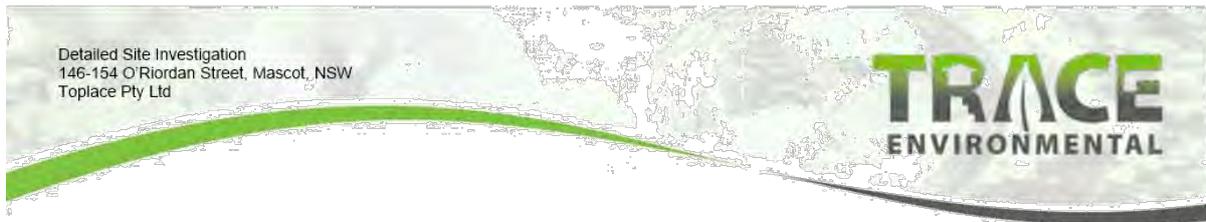
| Data Quality Indicator | Frequency | Data Acceptance Criteria |
|---|-------------|--------------------------|
| Completeness | | |
| Field documentation correct | All samples | All samples |
| Soil bore logs complete and correct | All samples | All samples |
| Suitably qualified and experience sampler | All samples | All samples |
| Appropriate lab methods and LORs | All samples | All samples |



| Data Quality Indicator | Frequency | Data Acceptance Criteria |
|---|-----------------------|--|
| Chain of custodies (COCs) completed appropriately | All samples | All samples |
| Sample holding times complied with | All samples | All samples |
| Proposed/critical locations sampled | - | Proposed/critical locations sampled |
| Comparability | | |
| Consistent standard operating procedures for collection of each sample. Samples should be collected, preserved and handled in a consistent manner | All samples | All samples |
| Experienced sampler | All samples | All samples |
| Climatic conditions (temp, rain etc.) recorded and influence on samples quantified (if required) | All samples | All samples |
| Consistent analytical methods, laboratories and units | All samples | All samples |
| Representativeness | | |
| Sampling appropriate for media and analytes (appropriate collection, handling and storage) | All samples | All Samples |
| Samples homogenous | All samples | All Samples |
| Detection of laboratory artefacts, e.g. contamination blanks | - | Laboratory artefacts detected and assessed |
| Samples extracted and analysed within holding times | All samples | - |
| Precision | | |
| Blind duplicates (intra-laboratory duplicates) | 1 per 20 samples | <30% RPD (Inorganics) <50% RPD (Organics) No Limit RPD Result <10 × LOR |
| Split duplicates (inter-laboratory duplicates) | 1 per 20 samples | <30% RPD (Inorganics) <50% RPD (Organics) No Limit RPD Result <10 × LOR |
| Laboratory duplicates | 1 per 20 samples | <20% RPD Result > 20 × LOR <50% RPD Result 10-20 × LOR No Limit RPD Result <10 × LOR |
| Accuracy (Bias) | | |
| Trip blanks | 1 per sampling event | COPCs <LOR |
| Trip Spikes | 1 per sampling event | 70-130% |
| Surrogate spikes | All organic samples | 50-150% |
| Matrix spikes | 1 per 20 samples | 70-130% |
| Laboratory control samples | 1 per 20 samples | 70-130% |
| Method blanks | 1 per 20 samples | <LOR |
| Rinsate Blanks | 1 per day of sampling | <LOR |

4.3 Sampling Plan

The NSW EPA (1995) *Sampling Design Guidelines* state that 27 sampling points are required for a site the size of 1.7ha, however, due to accessibility across the site (i.e. high traffic areas and/or permission to some building areas not provided by tenants), 21 sampling locations were possible. The investigation includes advancement of soil borings at 21 strategic locations across the site with soil samples collected for analysis of



the COPCs outlined above in **Table 4-1**. In addition, four of these soil bores advanced were converted into permanent groundwater monitoring wells, with groundwater samples collected for analysis of the COPCs outlined above in **Table 4-1**.

Details of the undertaken sampling program, including the soil and groundwater investigation methodology, the undertaken soil and groundwater analytical program, and the undertaken QA/QC program, are outlined below in **Section 6**. Soil boring and groundwater monitoring well locations are shown on **Figure 3**.



5 Adopted Assessment Criteria

In consideration of the potential redevelopment of the site to medium-high density residential land uses (which may include gardens/accessible soils), the following soil criteria have been selected for this investigation.

5.1 Soil Criteria

- TRH and BTEXN:
 - NEPM (2013) Soil Health Screening Levels (HSLs) for Vapour Intrusion (VI) for residential (HSL A & B) and recreational/open space (HSL C) land use. Based on the soil characteristics recorded at the time of sampling, the sand HSLs are applicable at the site;
 - CRC CARE (2011) Soil HSLs for VI for Intrusive Maintenance Workers (Shallow Trench). Based on the soil characteristics recorded at the time of sampling, the sand HSLs are applicable at the site. These criteria are relevant for workers involved in shallow trenches of depths 0-<2m, 2-<4m and >4m;
 - CRC CARE (2011) Soil HSLs for Direct Contact for Intrusive Maintenance Workers and Low Density Residential land users; and
 - NEPM (2013) Management Limits for TPH fractions F1 – F4 in soil for residential, parkland and public open space land use. A review of the bore logs indicates that fine and coarse soil texture is applicable, dependent upon the sampling depth.
- Heavy metals, OCPs, OPPs, PAHs, phenols and PCBs:
 - NEPM (2013) Health Investigation Levels (HILs) for soil contaminants for residential land use with minimal opportunities for soil access (HIL B) and recreational/public open space land use (HIL C).
- Asbestos:
 - NEPM (2013) HSLs for asbestos contamination in soil for residential with minimal opportunities for soil access (HSL B) and recreational/public open space land use (HSL C).
- Ecological Investigation Levels/Ecological Screening Levels:
 - ESLs and EILs for urban residential and public open spaces included in NEPM (2013), Schedule B1, Tables 1B (1) to (6). The EILs for Cr, Cu, Ni, and Zn were calculated based on the methodology detailed in Schedule B1 in the NEPM (2013), and based on the average soil pH and conservative values of CEC and Organic Carbon Content.
- Acid Sulfate Soils:
 - Action criteria for coarse texture – sands to loamy sands included in Acid Sulfate Soil Management Advisory Committee (1998) *Acid Sulfate Soils Assessment Guidelines*.

A list of collected soil samples is included in **Table 1**. A summary of the soil analytical results compared to applicable human health and environmental criteria are presented in **Tables 2 to 9**.

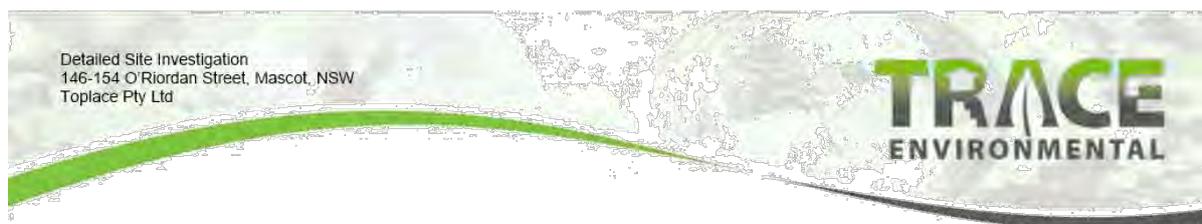


5.2 Groundwater Beneficial Uses

This section details the applicable guideline criteria utilised as groundwater investigation levels (GILs) for comparison to the groundwater analytical data collected during this DSI. The GILs are utilised as initial screening values only to determine if there is potential risk to human health and the environment associated with the dissolved phase impacts. The adopted GILs were based on an evaluation of potential beneficial groundwater uses both on and off site. For the purposes of evaluating groundwater conditions at the site, a review of the potential on-site and off-site groundwater beneficial uses has been conducted. The results of the review are provided in **Table 5-1**.

Table 5-1: Data Quality Indicators

| Beneficial Use | | Likelihood of Use | | Comment |
|--|--|-------------------|-----------|---|
| | | On site | Off site | |
| Aquatic Ecosystems | Groundwater | Nil | Unlikely | There are no aquatic ecosystems on site and none are anticipated after site redevelopment. An unnamed drain, located approximately 600m west of the site, drains into Alexandra Canal approximately 1km north-west/west of the site, which eventually discharges into Cooks River and Botany Bay. Based on the distance to these surface water bodies, they are considered unlikely to be receptors of groundwater impacts at the site (if any). However, as a conservative approach, the protection of aquatic ecosystems off-site has been evaluated as part of this DSI. |
| Human Uses | Potable Water | Unlikely | Potential | Although the site and surrounding suburb have an established reticulated water supply, 12 domestic bores are registered within a 1km radius of the site (the nearest located 24m east of the site) (refer to Section 2.7). As such, potential risks to human health from drinking water have been evaluated. |
| | Primary/Secondary Contact/Recreation/Aesthetic | Unlikely | Unlikely | The site and surrounding area have no rivers, creeks or other surface water bodies that would potentially be utilised for swimming and other recreational activities within a 500 m radius of the site. |
| | Irrigation | Unlikely | Unlikely | At its closest point, Mascot Oval is located approximately 18m north-east of the site and may extract water for irrigation purposes. However, no irrigation use groundwater bores were identified within 1km of the site (refer to Section 2.7). Irrigation beneficial uses have not been considered for this DSI. |
| | Stock Watering | Unlikely | Unlikely | Given that the site is located within the Sydney metropolitan area, it is unlikely that groundwater will be extracted for stock watering purposes. |
| | Industrial Use | Unlikely | Potential | The potential exists for off-site industrial use of groundwater. |
| | Aquaculture | Unlikely | Unlikely | The nearest surface water bodies (i.e. unnamed drain and Alexandra Canal, located approximately 600m west and 1km north-west/west of the site) are considered unlikely to be utilised for aquaculture. |
| Intrusive Maintenance/Trench/Excavation Worker | | Potential | Potential | On-site and off-site sub-surface activities have the potential for workers to come in direct contact with groundwater and COPCs if it is impacted. |



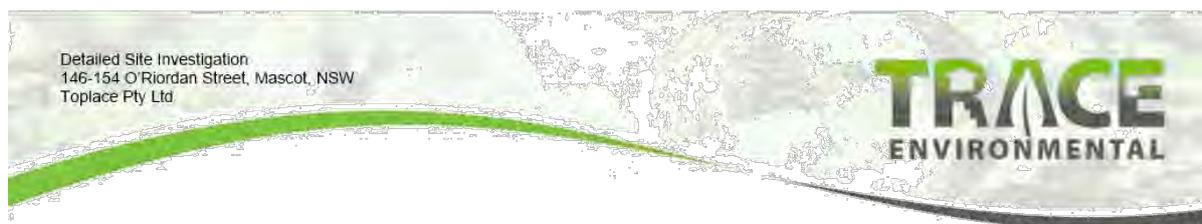
5.3 Groundwater Investigation Levels

Based on **Table 5-1**, there are no on-site beneficial uses to be protected. However, the potential exists for on-site sub-surface workers to come in direct contact with groundwater in the future, both on and off site. The groundwater analytical data have been compared to the following criteria to account for the most conservative use of groundwater on site and potential off-site uses:

- NEPM (2013) Drinking Water GILs;
- NEPM (2013) Maintenance of Aquatic (Freshwater) Ecosystems;
- NEPM (2013) Groundwater HSLs for low to high density residential land use (HSL A/B);
- NEMP (2018) Health based guidance values; and
- NEMP (2018) Guidance values for 95% species protection – slightly to moderately disturbed systems.

Given that groundwater was encountered within sand during drilling of boreholes MW1 to MW4, the sand HSLs have been adopted for this DSI. The applicable guideline criteria with the groundwater analytical data are listed in **Table 13**.

Specific guidance on water quality parameters for industrial use are not provided in ANZECC (2000) *Australian Water Quality Guidelines for Fresh and Marine Waters* but are provided in the ANZECC (1992) *Australian Water Quality Guidelines for Fresh and Marine Waters*. However, the applicable criteria for industrial water uses are highly specific to the type of process, and therefore criteria for industrial water use have not been specified for the site.



6 Field Program

The field program included an intrusive investigation to assess the subsurface conditions at the site. Soil samples were collected from the 21 boreholes drilled at the site for laboratory analysis. The sampling methodologies are outlined in the following sections. Field documentation (borehole logs) is included in **Appendix G**.

6.1 Soil Investigation Program

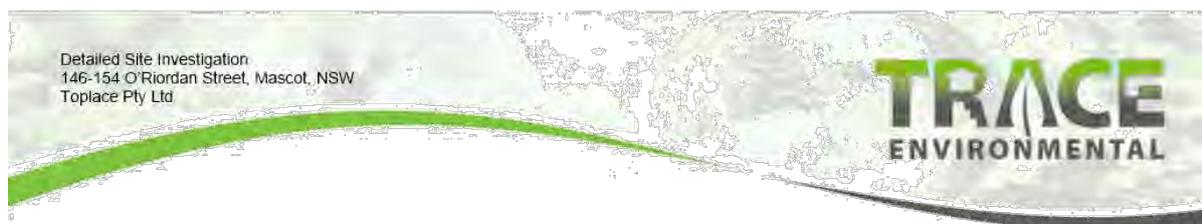
The initial site inspection was conducted on 3 August 2018, with the soil environmental investigation undertaken on 8, 9, 10, 13 and 14 August 2018 by TRACE Environmental Scientists who are trained and experienced in the supervision and direction of drilling works, environmental logging and collection of environmental soil samples. All subsurface investigations were conducted with reference to the NEPM (2013) Schedule B2 and EPA VIC guidelines, as necessary.

Due to site restraints, including warehouse access restrictions, several areas of the site could not be investigated (i.e. the north-eastern portion of 146 O'Riordan Street and the eastern portion of 154 O'Riordan Street). As a result, the number of soil bores completed as part of the DSI does not conform to the minimum number of sampling points required to assess site contamination for a site area of approximately 1.6 ha, as defined in NSW EPA (1995) *Sampling Design Guidelines*. This is further discussed in **Section 8.3**. Borehole locations, including planned boreholes that could not be advanced due to access restrictions; are shown on **Figure 3**.

The sampling methodology adopted for the soil investigation conducted is detailed in **Table 6-1** below. Laboratory analytical results are discussed in **Section 7** and laboratory analytical reports are provided in **Appendix H**.

Table 6-1: Soil Investigation Methodology

| Activities | Details |
|-------------------|--|
| Concrete Coring | Concrete/bitumen coring was required at sixteen (SB-1, SB-6 to SB-8, SB-10, SB-11, SB-14, SB-17 to SB-20 and SB-23 to SB-27) locations to access the underlying soils during borehole drilling. Concrete/bitumen thickness ranged between 0.11 and 0.175m at these locations. |
| Borehole drilling | Soil bores were advanced at 21 locations (SB-1, SB-4, SB-6 to SB-11, SB-13, SB-14 and SB-17 to SB-27, refer to Figure 3) across the site. Eleven of the soil bores (SB-6, SB-11, SB-14, SB-17 to SB-22, SB-26 and SB-27) were advanced to depths between 0.8 and 12.0 mbgs using a combination of a hand auger and a Geoprobe drilling rig (using push tubes and rotating auger). Ten of the soil bores (SB-1, SB-4, SB-7 to SB-10, SB-13 and SB-23 to SB-25) were advanced to depths between 0.25 and 1.1 mbgs using a hand auger. Soil samples were collected directly from the hand auger, push tube liners and/or rotating auger at each location. |
| Field Logging | Logging of soil samples was conducted in general accordance with the Unified Soil Classification System. Soil materials were logged, and the following information was recorded in the field: soil/rock type, colour, grain size, inclusions, moisture conditions, staining and observation of any anthropogenic material (e.g., odours, and waste materials). |

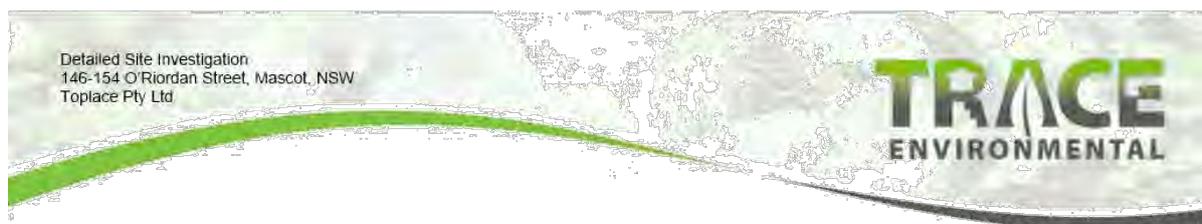


| Activities | Details |
|---|--|
| Sampling Intervals | <p>Samples were collected from each borehole from:</p> <ul style="list-style-type: none"> the surface (0.15 to 0.25 mbgs); 0.3-0.9 mbgs; At one metre intervals to the end of each borehole; at changes in lithology; at evidence of contamination (e.g. odours, staining, waste inclusions) (if any); and at areas of elevated PID readings (if any). |
| Soil Sampling Procedures | <p>Soil samples were collected from each borehole by hand (protected by a dedicated nitrile glove) from the hand auger and/or push tube liner. The soil samples were collected in laboratory supplied 250 mL jars and were labelled and immediately stored on ice for transport to the laboratory. Samples collected for asbestos analysis were collected in laboratory supplied 500mL plastic bags with a press ('Ziploc') seal.</p> <p>A total of 119 primary soil samples were collected for field screening and potential laboratory analysis from the soil bores advanced on 8, 9, 10, 13 and 14 August 2018. Based on a review of depth of sample, future land use, lithology, presence of staining, odours, waste inclusions and PID results, laboratory analysis was requested for 87 primary samples. Of these 22 natural soil samples were submitted for ASS analysis.</p> |
| Field QC Samples | <p>Field duplicates and triplicates of the soil samples were prepared in the field by collecting split samples of the same material from the same depth. Samples were not mixed or homogenised during collection or splitting. Samples for duplicate analyses were selected from sampling locations characterised by indicators of contamination, odour and/or elevated PID responses (if encountered). Additionally, a trip blank and trip spike sample was transported with the samples during the soil sampling and were analysed at the laboratory. Duplicates and triplicates were collected at the minimum rate of one per 20 primary samples analysed at the laboratory. A full discussion of the QA/QC procedures is included in Section 7.6 and Appendix I. Laboratory analytical reports are provided in Appendix H.</p> |
| Sample Labelling, Storage and Transport | <p>All samples were clearly labelled with a unique sample identification consisting of the date, sample location, depth of sample and sampler's initials. In the case of field duplicates and triplicates, sample containers were labelled in a manner that did not reveal which primary sample the duplicate or triplicate belonged to.</p> |
| Field Screening for VOCs | <p>Additional soil from each sample depth range was placed in a sealed plastic bag for field screening purposes. After waiting approximately five minutes for the sample and the headspace to equilibrate, the headspace in the bagged samples was assessed by a calibrated (100 ± 3 parts per million (ppm) isobutylene) PID with a 10.6 eV lamp to measure the presence of total VOCs. PID readings are included Table 1. The PID calibration certificate is provided in Appendix G.</p> |
| Decontamination | <p>The hand auger was decontaminated between each borehole location, and a clean pair of disposable nitrile sampling gloves was used between collection of each sample. Rinsate samples were collected during soil sampling as discussed in Appendix I.</p> |
| Waste Disposal | <p>Soil cuttings generated during borehole drilling were returned to the borehole following sampling and boreholes were reinstated with concrete (where required).</p> |

6.2 Groundwater Investigation Program

Four of the boreholes advanced during the DSI were converted into permanent groundwater monitoring wells (MW1 to MW4) and were sampled to determine the condition of groundwater at the site. The groundwater monitoring well locations are shown on **Figure 3**.

Groundwater sampling was undertaken on 15 August 2018 by a TRACE Environmental Scientist who is trained and experienced in the collection of environmental groundwater samples. All groundwater installation works, and investigations were conducted with reference to the NEPM (2013) Schedule B2 and relevant guidelines



endorsed by NSW EPA. The sampling methodology adopted for the groundwater investigation conducted is detailed in **Table 6-2**, below.

Table 6-2: Groundwater Sampling Methodology

| Activities | Details |
|---|---|
| Monitoring Well Construction | The four newly installed monitoring wells (MW1 to MW4) were constructed using Class 18 uPVC 50 mm inside diameter machine threaded casing and 0.4 mm slotted screen and casing. Well construction, including screen lengths, was based on observations made during drilling. Once the well screen was installed, a filtered sand of 2 mm in diameter was introduced as a filter pack to reduce sediment infiltrating the well annulus. The filter pack was placed around the screened section of the well to approximately 0.5 m above the top of the screen. Fine-grained bentonite pellets were placed above the sand filter pack around the well to approximately 0.5 m above the top of the filter pack and was slightly wetted to ensure an adequate seal was formed to prevent surface infiltration into the well. The annulus was subsequently backfilled using grout to approximately 0.1 mbgs. A well cap was then inserted and a steel gatic cover was installed flush mounted to the ground surface and secured with concrete at the top of the monitoring well to prevent tampering and damage. The bore logs are included in Appendix G . |
| Monitoring Well Development | The newly installed monitoring wells were developed using a bailer as soon as practical following installation. The bailer was used to disturb the water column within the well annulus to remove any groundwater and well debris that may have been introduced during the installation process. |
| Monitoring Well Gauging | Measurement of the standing water level in the groundwater monitoring well was undertaken prior to purging using an electronic interface probe. Both the standing water level and the depth to the base of the well were measured. Groundwater gauging data is presented in the groundwater sampling logs in Appendix G . |
| Monitoring Well Purging | The four monitoring wells were purged prior to sampling using low-flow sampling equipment on 15 August 2018. Water quality parameters including temperature, electrical conductivity, dissolved oxygen, redox potential and pH were measured during purging using a calibrated water quality meter. Sampling was completed following the stabilisation of the water quality parameters. Post purging water quality parameters and purging data is shown in Appendix G . |
| Monitoring Well Sampling | Sampling of the monitoring wells was completed using the same methods as for purging (i.e. low-flow sampling technique) and was completed following stabilisation of water quality parameters. Samples were collected into appropriate laboratory supplied sample containers. Samples collected for analysis for metals were first filtered through a 0.45 micron filter prior to being dispensed into an appropriate laboratory supplied sample container. All bottles were then sealed immediately using a Teflon lined cap, labelled and placed on ice. |
| Field QC Samples | Groundwater field duplicate and field triplicate samples were prepared in the field by collecting split samples from the same monitoring well. To meet the QA/QC program objectives, one duplicate was analysed at the laboratory for the COPCs and one triplicate sample was analysed at a secondary laboratory for the COPCs. Trip blank and trip spike samples that were transported with the samples during the groundwater sampling were also analysed at the laboratory. |
| Sample Labelling, Storage and Transport | All samples were clearly labelled with unique sample identification numbers consisting of the date, sample location and sampler's initials. In the case of field duplicates, sample containers were labelled so as to not reveal their purpose or sample location to the laboratory. All samples were kept chilled in an ice-filled esky prior to dispatch and during transport to the NATA registered laboratory under chain-of-custody procedures. |
| Decontamination | During the gauging of monitoring wells, an interface probe was used. The interface probe was decontaminated prior to its use by scrubbing with PFAS-free decontamination water. New tubing was used to purge the monitoring well during sampling. No reusable equipment was used during groundwater sampling. |

6.3 Soil Analytical Program

The collected fill and natural soil samples were submitted for laboratory analysis of various COPCs potentially related to the current food distribution and historical transport and logistics operations, as well as the site located within an area primarily used for industrial purposes. Primary and intra-laboratory duplicate samples



were submitted to Eurofins-mgt of Lane Cove West, NSW and the inter-laboratory duplicate samples were submitted to ALS in Smithfield, NSW. A summary of the soil analytical program is provided in **Table 6-3**, below.

Table 6-3: Summary of Soil Analytical Program

| Analysis | Analytical Method | LORs (mg/kg) | # Primary Samples | # QA/QC Samples |
|---|--|--------------|-------------------|-----------------|
| TRH Fraction F1 and F2 TPH C ₆ to C ₄₀ | TRH C6-C40 - LTM-ORG-2010 | 20 to 100 | 33 | 6 |
| BTEXN | TRH C6-C40 - LTM-ORG-2010 | 0.1 to 0.5 | 33 | 6 |
| Polycyclic Aromatic Hydrocarbons | LTM-ORG-2140 PAH and Phenols in Soils by GCMS | 0.5 | 43 | 6 |
| Metals (As, Cd, Total Cr, Cu, Pb, Hg, Ni, Zn) | LTM-MET-3040_R0 | 0.1 to 5 | 43 | 6 |
| OCPs/OPPs | LTM-ORG-2220 OCP & PCB in Soil/LTM-ORG-2200 Organophosphorus Pesticides by GC-MS | 0.05 to 2 | 21 | 0 |
| PCBs | LTM-ORG-2220 OCP & PCB in Soil | 0.1 to 0.5 | 21 | 0 |
| Phenols | LTM-ORG-2140 PAH and Phenols in Soils by GCMS | 0.2 to 20 | 18 | 0 |
| VOCs | LTM-ORG-2150 VOCs in Soils | 0.1 to 0.5 | 7 | 0 |
| Asbestos | LTM-ASB-8020 | 0.001 % | 24 | 4 |
| pH | LTM-GEN-7090 pH in soil by ISE | 0.1 units | 5 | 0 |
| Electrical Conductivity | LTM-INO-4030 | 10 µS/cm | 5 | 0 |
| ASS – SPOCAS | LTM-GEN-7050 | Various | 13 | 0 |
| ASS – S _{CR} | LTM-GEN-7070 LTM-GEN-7050/7070 | Various | 14 | 0 |
| TCLP | (TCLP) USEPA Method 1311 (ASLP) AS 4439.2; AS 4439.3 | 0.1 | 9 | 0 |

6.4 Groundwater Analytical Program

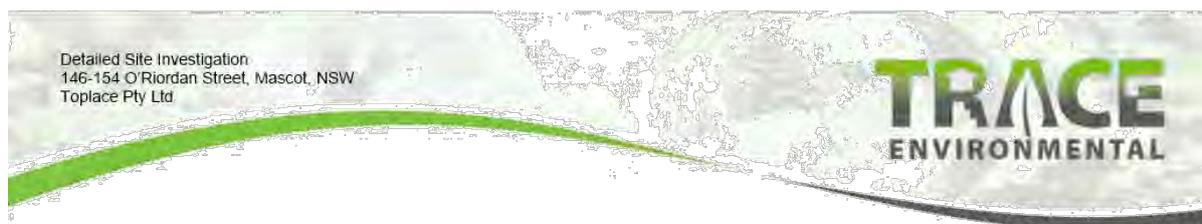
The collected groundwater samples were submitted for laboratory analysis of various COPCs potentially related to the current and historic site uses as identified during the DSI completed by TRACE Environmental (2017). A summary of the overall groundwater analytical program is presented in **Table 6-4**, below.

Table 6-4: Summary of Groundwater Analytical Program

| Analysis | Analytical Method | LORs (mg/L) | # Primary Samples | # QA/QC Samples |
|---|---------------------------|-------------|-------------------|-----------------|
| TRH Fraction F1 and F2 TPH C ₆ to C ₄₀ | TRH C6-C40 - LTM-ORG-2010 | 0.02 to 0.1 | 4 | 2 |



| Analysis | Analytical Method | LORs (mg/L) | # Primary Samples | # QA/QC Samples |
|---|--|-----------------|-------------------|-----------------|
| BTEXN | IRH C6-C40 - LTM-ORG-2010 | 0.001 to 0.01 | 4 | 2 |
| Polycyclic Aromatic Hydrocarbons | LTM-ORG-2130 PAH and Phenols in Water by GCMS | 0.001 | 4 | 2 |
| Metals (As, Cd, Total Cr, Cu, Pb, Hg, Ni, Zn) | LTM-MET-3040 Metals in Waters by ICP-MS | 0.0001 to 0.005 | 4 | 2 |
| OCPs/OPPs | LTM-ORG-2220 OCP & PCB in Soil and Water/LTM-ORG-2200 Organophosphorus Pesticides by GC-MS | 0.0001 to 0.02 | 4 | 0 |
| PCBs | LTM-ORG-2220 OCP & PCB in Soil and Water | 0.001 to 0.005 | 4 | 0 |
| Phenols | LTM-ORG-2130 PAH and Phenols in Water by GCMS | 0.001 to 0.1 | 4 | 2 |
| VOCs | LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices | 0.005 | 4 | 0 |
| PFASs | USEPA Method 537 | 0.05 to 0.01 | 4 | 0 |



7 Assessment Results

7.1 Site Observations and Lithology

The soil profile encountered by TRACE Environmental during drilling of boreholes at the site is summarised below:

- Fill (consisting of sand, gravel, cobbles, sandy gravel, silty sand and/or sandy clay) with bricks, concrete, glass, metal, organic material (such as wood and roots) and/or slag, to between 0.8 and 3.0 mbgs; overlying
- Natural sand, medium grained, white/grey to orange/brown to black.

In addition to the anthropogenic material described above, hydrocarbon odour was noted in fill and natural material at borehole SB-26 at depths between 1.5 and 6.0 mbgs.

PID measurements of 0.4 ppm and 0.3 ppm in soil samples SB-14/0.4 and 2.0, 0.8 ppm and 1.0 ppm in soil samples SB-19/0.8 and 1.5 and 2.0 ppm to 8.9 ppm in the soil samples obtained from soil bore SB-26 at depths ranging between 1.0 and 8.0 mbgs were recorded during borehole drilling. All other PID measurements for soil samples collected during borehole drilling were recorded at 0.0 ppm.

Boreholes SB-4, SB-7, SB-8, SB-9, SB-13, SB-23, SB-24 and SB-25 encountered hand auger refusal in fill material at depths ranging between 0.25 (SB-4) and 0.6. These boreholes were terminated at the hand auger refusal depth. Boreholes SB-1 and SB-21 encountered rotating auger refusal in fill material at depths of 0.75 and 0.8 mbgs, respectively, on potential concrete material. Boreholes SB-10 and SB-18 were terminated at depths of 1.1 and 1.0 mbgs in sand potentially indicating service trenches in close proximity to these locations (based on on-site observations and available Dial Before You Dig plans).

Borehole logs are provided in **Appendix G**.

7.2 Soil Analytical Results

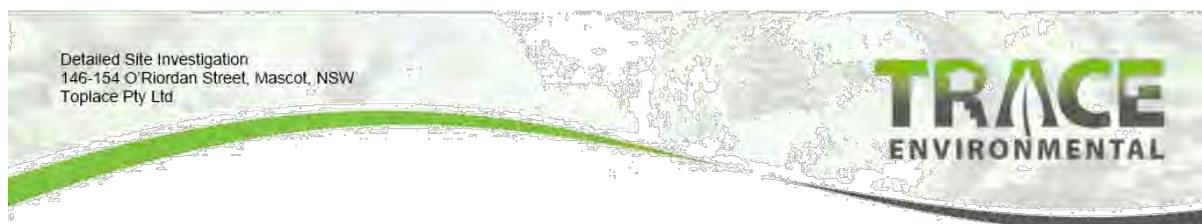
Soil analytical results are summarised in **Tables 2A to 10** and laboratory analytical reports are included in **Appendix H**. A summary of the soil analytical results is presented below:

- TPH/TRH compounds were reported at concentrations exceeding the laboratory LORs in various analysed soil samples across the site. Of these, TRH C₁₀-C₁₆ (Fraction F2) was detected at concentrations exceeding the NEPM (2013) ESL (Urban Residential and Public Open Space) criteria in soil samples SB-4/0.2, SB-18/1.0 and SB-26/1.5-2.0. In addition, TRH Fraction F2 in soil sample SB-26/1.5-2.0 was reported at a concentration exceeding the NEPM (2013) Management Limits for TPH in residential, parkland and public open space criteria (for coarse and fine soils);
- TRH compound C₁₀-C₁₆ (Fraction F2) in soil samples SB-4/0.2, SB-18/1.0 and SB-26/1.5-2.0 were reported at concentrations exceeding the NEPM (2013) soil HSL for vapour intrusion criteria for low to high density residential land use (in sand depths of 0 to <1m and 1 to <2m) (HSL A & B). All other samples were reported below the laboratory LORs and applicable guideline criteria for TPH/TRH compounds in soil;



- Ethylbenzene, m&p-xylenes, o-xylenes and total xylenes were detected at concentrations exceeding the laboratory LORs, but below applicable guideline criteria, in the analysed soil sample SB-26/1.5-2.0. Naphthalene was also detected in this sample at a concentration exceeding the NEPM (2013) HSL A & B criteria. In addition, toluene was detected at a concentration exceeding the laboratory LOR, but below applicable guideline criteria, in the analysed soil sample SB-7/0.25. BTEXN compounds were not reported at concentrations exceeding the laboratory LORs in any other analysed soil sample;
- PAH compounds were reported in various analysed soil samples at concentrations exceeding the laboratory LORs. Of these, benzo(a)pyrene TEQ was reported at a concentration exceeding the NEPM (2013) HIL B criteria (Residential B) in analysed soil sample SB-14/1.2, and benzo(a)pyrene was reported at concentrations exceeding the NEPM (2013) ESL (Urban Residential and Public Open Space) in analysed soil samples SB-1/0.5, SB-6/1.0, SB-14/1.2, SB-19/1.5 and SB-26/1.5-2.0. It is noted that the concentration of benzo(a)pyrene in soil sample SB-19/0.8 was reported at a concentration equal to the NEPM (2013) ESL criteria;
- Heavy metals arsenic, chromium, copper, lead, mercury, nickel and/or zinc were reported at concentrations exceeding the laboratory LORs in all analysed soil samples, with the exception of soil samples SB-11/4.4, SB-14/10.0, SB-19/3.7, SB-20/3.8 and SB-27/6.0. Arsenic, copper, lead, nickel and/or zinc were reported at concentrations exceeding the NEPM (2013) EILs (Urban Residential and Public Open Space) in analysed soil samples SB-1/0.5, SB-6/1.0, SB-7/0.25, SB-11/0.5, SB-11/1.2, SB-11/1.6, SB-14/1.2, SB-18/1.0, SB-19/0.8, SB-19/1.5, SB-20/0.3, SB-20/1.0, SB-20/1.5, SB-21/0.15, SB-22/0.5, SB-25-0.25, SB-26/0.2, SB-26/1.5-2.0 and/or SB-27/0.5. In addition, the concentration of lead reported in soil samples SB-1/0.5, SB-14/1.2 and SB-18/1.0 exceeds the NEPM (2013) HIL C criteria (recreational/open space land use) and SB-26/1.5-2.0 exceeds the NEPM (2013) HIL B (residential land use);
- No OCPs or OPPs were reported at concentrations exceeding the laboratory LORs and/or applicable guideline criteria in any of the analysed soil samples;
- No PCBs or phenols were reported at concentrations exceeding the laboratory LORs and/or applicable guideline criteria in any of the analysed soil samples;
- VOCs were not reported at concentrations exceeding the laboratory LORs in any of the analysed soil samples. It is noted that EPA NSW has not endorsed applicable guideline criteria for VOCs in soil; and
- Asbestos was detected in soil samples SB-1/0.5 (ACM), SB-6/0.4 (ACM and FA+AF), SB-8/0.3 (AF), QA1A (FA+AF) and SB-27/0.2 (ACM). Of these samples, ACM and FA+AF in soil sample SB-6/0.4 and FA in soil sample SB-7/0.25 were reported at weight percentages exceeding the NEPM (2013) HSLs for Residential B (bonded/non-friable ACM) and for FA and AF asbestos. In addition, ACM in soil sample SB-1/0.5 was reported at a weight percentage exceeding the NEPM (2013) HSLs for Recreational C (bonded/non-friable ACM). No respirable fibres were detected in any of the analysed soil samples.

The soil samples with COPCs that have been reported at concentrations exceeding the applicable guideline criteria are summarised in **Figure 4**.



7.3 Hydrogeological Conditions

Monitoring wells MW1 to MW4 were installed at the site between 8 and 13 August 2018. Groundwater well installation details are shown on the bore logs presented in **Appendix G**. Details regarding the encountered site hydrogeological conditions are summarised in **Table 7.1**, below.

Table 7-1: Site Hydrogeology

| Component | Description |
|---------------------------------------|---|
| Depth to Groundwater | Gauged between 3.682 mbtoc (MW1) and 4.596 mbtoc (MW4) |
| Non-aqueous phase liquid (NAPL) | No measurable NAPL was detected at the site |
| Inferred Flow Direction | Based on the measured depth to groundwater and monitoring well survey data (refer to Appendix G), the calculated groundwater flow direction is to the west/south-west, with apparent mounding in the centre of the site. Groundwater flow direction is presented in Figure 6 . |
| Water Bearing Unit | Sand |
| Lateral Hydraulic Gradient | 0.0099 m/m |
| Total Dissolved Solids | Between approximately 737 mg/L (MW-1 and MW2) and 1407 mg/L (MW-4) |
| Potential Groundwater Discharge Zones | Alexandra Canal located approximately 1 km west/north-west of the site |

Notes:

mbtoc: metres below top of casing

7.4 Groundwater Analytical Results

Based on review of the laboratory analytical results for groundwater samples collected at the site, the following summary of identified COPCs and assessment criteria exceedances is provided:

- Arsenic, copper, lead, nickel and/or zinc were reported at concentrations exceeding the laboratory LORs in groundwater samples MW-1, MW-2, MW-3 and/or MW-4. Of these, arsenic (MW-2) and lead (MW-1) were reported at concentrations exceeding the NEPM (2013) Drinking Water GILs, and copper (MW-1 to MW-4), lead (MW-2 and MW-3) and zinc (MW-1 to MW-4) were reported at concentrations exceeding the NEPM (2013) Freshwater GILs;
- PFAS compounds were reported at concentrations slightly exceeding the laboratory LORs, but below the applicable guideline criteria, in the groundwater samples analysed (MW-1 to MW-4); and
- BTEXN, PAHs, OCPs, OPPs, phenols, PCBs and VOCs were not reported above laboratory LORs in the groundwater samples analysed.

A summary of laboratory analytical data for groundwater samples collected at the site is presented in **Table 13**, and guideline exceedances are further discussed in **Section 8**.

The groundwater samples with COPCs that have been reported at concentrations exceeding the applicable guideline criteria are summarised in **Figure 5**.

7.5 Acid Sulfate Soils Analysis

A total of 22 natural soil samples collected from boreholes drilled across the site were submitted for ASS field screening analysis to investigate the potential for ASS to be present at the site. Laboratory analytical results for ASS field screening showed pH-F and pH-FOX values ≥ 5.6 and ≥ 2.2 , respectively, for the analysed soil



samples. Of the samples analysed, pH-FOX was reported between 2.2 and 3.3 in soil samples SB-6/5.0, SB-14/8.0, SB14/10.0, SB-17/8.0, SB-17/10.0, SB-20/8.0, SB-20/10.0, SB-20/12.0, SB-26/6.0, SB-26/8.0 and SB-26/10.0.

Based on the above results, 17 of the 22 natural soil samples were submitted for chromium reducible sulfur (S_{CR}) and/or SPOCAS analysis to further assess the potential for ASS to be present at the site. The results of the S_{CR} and SPOCAS analysis reported that net acidity and sulfur – peroxide oxidisable sulfur exceeded the ASSMAC criteria in multiple soil samples collected from across the site. This indicates that PASS or AASS are likely to be present in natural materials sampled at the site. As such, an Acid Sulfate Soil Management Plan (ASSMP) will be required prior to future development works or disturbance of the natural material (refer to **Section 9** below for additional detail).

A summary of ASS laboratory analytical data for soil samples collected at the site is presented in **Table 9**.

7.6 Quality Assurance/Quality Control

The overall project QA/QC program included collecting of duplicate, triplicate and field blanks and internal laboratory QA/QC. A summary of the results of the QA/QC results are included in the following sections. The full QA/QC evaluation is included in **Appendix I**.

Three intra-laboratory soil duplicates (QS1, QS2 and QS3) and three inter-laboratory soil duplicates (QS1A, QS2A and QS3A) were collected during this investigation. In addition, two intra-laboratory soil duplicates for asbestos analysis (QA1 and QA2) and two inter-laboratory soil duplicates for asbestos analysis (QA1A and QA2A) were collected during this investigation. Furthermore, one intra-laboratory water duplicate (QW1) and one inter-laboratory water duplicate (QW1A) was collected during this investigation.

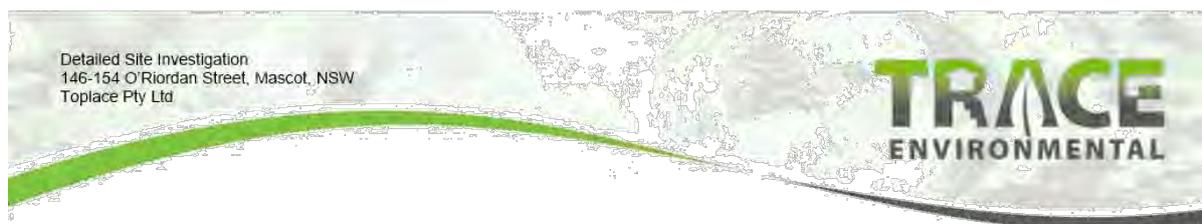
A summary of the QA/QC samples is included in **Table 7-2**, below.

Table 7-2: Summary of QA/QC Samples

| Parent Sample | Date | Blind Duplicate | Blind Triplicate | Analysis |
|---------------|------------|-----------------|------------------|------------------------------------|
| SB-27/3.8 | 08/08/2018 | QS1 | QS1A | BTEXN, vTRH, PAHs, Metals |
| SB-14/0.2 | 10/08/2018 | QS2 | QS2A | BTEXN, vTRH, PAHs, Metals |
| SB-22/6.0 | 13/08/2018 | QS3 | QS3A | BTEXN, vTRH, PAHs, Metals |
| SB-21/0.4 | 13/08/2018 | QA1 | QA1A | Asbestos |
| SB-23/0.4 | 14/08/2018 | QA2 | QA2A | Asbestos |
| MW2 | 15/08/2018 | QW1 | QW1A | BTEXN, vTRH, PAHs, Metals, Phenols |

The Relative Percent Difference (RPD) was calculated between the primary and QA/QC samples (groundwater) and the QA/QC samples (soil) and are shown on **Table 11**.

Standards AS 4482.1-1997, AS 4482.2-1999, AS/NZ 5667.1-1998, AS/NZ 5667.11-1998 and NEPM (2013) state that replicate and original sample RPDs should generally be within 30%. However, this variation can be expected to be higher for organic compounds than for inorganics. In addition, greater variation is observed where low concentrations of analytes are present. Therefore, the following RPD acceptance criteria were adopted during this investigation:



- Inorganics – 30% RPD;
- Organics – 50% RPD; and
- If primary and/or duplicate concentration $<10 \times \text{LOR}$ – No Limit.

A discussion of the RPD results is included in **Appendix I**.

7.6.1 Laboratory QA/QC

The chosen analytical laboratories undertake internal QA/QC procedures which include the analysis of method blanks, internal duplicate samples, laboratory control samples, matrix spikes and surrogate recovery. Additionally, laboratory QA/QC procedures include sample receipt, logging, storage, preservation and analysis within the method specified holding time. The full review of the laboratory QA/QC program is included in **Appendix I**. A review of the laboratory QA/QC procedures indicated that the laboratory QA/QC samples percent recoveries were generally within the laboratory recommended range for acceptable reproducibility. Additionally, samples were received and stored appropriately, and all samples were analysed within the specified holding times.

7.6.2 Data Useability

Assessment of the field and laboratory QA/QC procedures and results indicates that the DQOs were met and therefore that the analytical data is considered representative of site conditions at the time of the investigation and suitable to enable an investigation of the site. The majority of internal laboratory QA/QC procedures were met. The data validation procedure employed in the assessment of the field and laboratory QA/QC data indicated that the reported analytical results are representative of the conditions at the sample locations and that the analytical data can be relied upon for the purpose of this investigation. It is concluded that overall the quality of the analytical data produced is reliable for the purposes of evaluating the potential risks posed by subsurface impacts to human health and the environment at the site.



8 Conceptual Site Model

8.1 Preliminary CSM

The environmental risk assessment is based on a contaminant (source) - exposure pathway - receptor methodology. This relationship allows an assessment of potential environmental risk to be determined, in accordance with the current national guidelines. Central to the requirements for the assessment of risk is the development of an initial CSM, identifying each contaminant source and the associated receptor exposures.

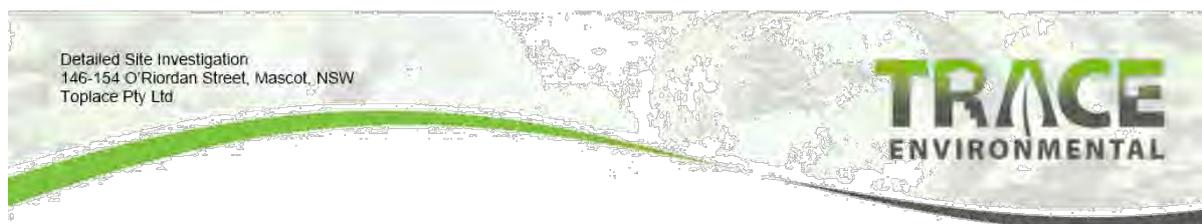
Generally, a CSM provides an assessment of the fate and transport of COPCs relative to site-specific subsurface conditions with regard to their potential risk to human health and the environment. The CSM considers site specific factors including:

- Sources of subsurface impacts;
- Identification of COPCs derived from the sources;
- Vertical and lateral distribution of COPCs;
- Site specific lithologic information including soil type(s), depth to groundwater, effective porosity, and groundwater flow velocity; and
- Actual or potential receptors focusing on future and current land use both of the site and adjacent properties and sensitive ecological receptors.

Based on the information sourced in this investigation, a preliminary CSM has been developed and is outlined in **Table 8-1**, below. Additional details are included in the sections that follow as necessary.

Table 8-1: Preliminary Conceptual Site Model

| Conceptual Site Model Element | Description |
|----------------------------------|--|
| Site History/Contaminant Sources | <p>The site historically comprised of a mix of structures, vegetated and farmed land from circa 1940's to mid-1970's, the vegetated/farm land was developed into a car park until the early 1990's when a warehouse was developed in the southern portion of the site (remaining largely unchanged to present day). The northern portion of the site was developed into its current configuration circa 2009. The site is currently used for a variety of commercial and light industrial purposes, such as electronics repair, fashion distribution, office space, broadcasting, air freight transport, food production/distribution and rail maintenance organisation workshop.</p> <p>Historical site operations, including a variety of manufacturers (such as fork lift truck, electronic equipment, motor garage equipment, lubricating equipment, and spraying equipment) is a potential source of subsurface impact at the site (i.e. via storage of hazardous chemicals, refuelling of machinery and/or vehicles etc.). Additionally, the likely historical importation of fill material from unknown sources has the potential to impact the subsurface.</p> |
| Site Current and Future Use | <p>The site is currently occupied by a large warehouse/office building in the northern portion of the site (146 O'Riordan Street) and large warehouses in the central, eastern and southern portions of the site (154 O'Riordan Street). These warehouses/office spaces are used for a variety of commercial and light industrial purposes, as noted above.</p> <p>It is understood that the intended future land use of the sight is medium to high density residential with open space areas.</p> |



| Conceptual Site Model Element | Description |
|-------------------------------|---|
| Site Geology | The results of the investigation showed a range of fill materials across the site, including sands and gravels, extending to a maximum depth of approximately 3.0 mbgs. Underlying the fill materials were natural sands. Further details of the site lithology are outlined above in Section 7.1 , with bore logs provided in Appendix G . |
| Site Hydrogeology | Groundwater was gauged between 3.682 mbtoc (MW1) and 4.596 mbtoc (MW4) in the four groundwater monitoring wells installed by TRACE Environmental during this DSI and was encountered in natural sand beneath the site at depths between 3.5 mbgs (SB-11/MW3) and 4.2 mbgs (SB-22/MW4). The inferred groundwater flow direction at the site is towards the west/south-west, with apparent mounding in the centre of the site. Based on topography and the location of surrounding surface water bodies, groundwater beneath the site would be expected to flow toward an unnamed drain, located approximately 600m west of the site that drains into Alexandra Canal approximately 1km north-west/west of the site. Alexandra Canal eventually discharges into Cooks River and Botany Bay |
| COPCs – Soil | The following COPCs were detected at concentrations above applicable site assessment criteria for human health: <ul style="list-style-type: none"> • TRH C₁₀-C₁₆ (fraction F2) exceeded the NEPM (2013) HSL A/B criterion for VI in fill samples SB-4/0.2, SB-18/1.0 and SB-26/1.5-2.0; • Naphthalene exceeded the NEPM (2013) HSL A/B criterion for VI in fill sample SB-26/1.5-2.0; • Benzo(a)pyrene TEQ exceeded the NEPM (2013) HIL B criterion in fill sample SB-14/1.2; • Lead exceeded the NEPM (2013) HIL B criterion in fill sample SB-26/1.5-2.0 and HIL C in fill samples SB-1/0.5, SB-14/1.2 and SB-18/1.0; • ACM exceeded the NEPM (2013) HSL B criterion in fill sample SB-6/0.4 and HSL C in fill sample SB-1/0.5; • FA and AF exceeded the NEPM (2013) HIL B criterion in fill sample SB-6/0.4; and • AF exceeded the NEPM (2013) HIL B criterion in fill sample SB-7/0.25. The following COPCs were detected at concentrations above applicable ecological assessment criteria for the site: <ul style="list-style-type: none"> • TRH C₁₀-C₁₆ (fraction F2) exceeded the NEPM (2013) ESL criteria for urban residential and public open space land use in fill samples SB-4/0.2, SB-18/1.0 and SB-26/1.5-2.0; • TRH C₁₀-C₁₆ (fraction F2) exceeded the NEPM (2013) management limits for TPH in residential, parkland and public open space criteria in fill sample SB-26/1.5-2.0; • Benzo(a)pyrene exceeded the NEPM (2013) ESL for urban residential and public open space land use in fill samples SB-1/0.5, SB-6/1.0, SB-14/1.2, SB-19/0.8, SB-19/1.5 and SB-26/1.5-2.0; • Arsenic exceeded the NEPM (2013) EIL criterion for urban residential and public open space land use in fill samples SB-1/0.5, SB-6/1.0, SB-11/1.6 and SB-26/1.5-2.0; • Copper exceeded the NEPM (2013) EIL criterion for urban residential and public open space land use in fill samples SB-1/0.5, SB-6/1.0, SB-11/1.6, SB-14/1.2, SB-21/0.15 and SB-26/1.5-2.0; • Lead exceeded the NEPM (2013) EIL criterion for urban residential and public open space land use in fill sample SB-26/1.5-2.0; • Nickel exceeded the NEPM (2013) EIL criterion for urban residential and public open space land use in fill samples SB-6/1.0, SB-7/0.25, SB-11/1.6, SB-19/0.8, SB-19/1.5, SB-20/0.3, SB-20/1.0, SB-20/1.5, SB-26/1.5-2.0 and SB-27/0.5; and • Zinc exceeded the NEPM (2013) EIL criterion for urban residential and public open space land use in fill samples SB-6/1.0, SB-7/0.25, SB-11/0.5, SB-11/1.2, SB-11/1.6, SB-14/1.2, SB-18/1.0, SB-19/0.8, SB-20/0.3, SB-21/0.15, SB-22/0.5, SB-25/0.25, SB-26/0.2, SB-26/1.5-2.0, SB-27/0.5. COPCs were not detected at concentrations above the applicable human health or ecological site assessment criteria in natural soil samples collected at the site. |



| Conceptual Site Model Element | Description |
|---------------------------------|---|
| COPCs – Groundwater | <p>The following COPCs were detected at concentrations above applicable site assessment criteria for human health:</p> <ul style="list-style-type: none"> • Arsenic exceeded the NEPM (2013) Drinking Water GILs criterion in groundwater sample MW-2; and • Lead exceeded the NEPM (2013) Drinking Water GILs criterion in groundwater sample MW-1. <p>The following COPCs were detected at concentrations above applicable ecological assessment criteria for the site:</p> <ul style="list-style-type: none"> • Copper exceeded the NEPM (2013) Freshwater GILs criterion in groundwater samples MW-1, MW-2, MW-3 and MW-4; • Lead exceeded the NEPM (2013) Freshwater GILs criterion in groundwater samples MW-2 and MW-3; and • Zinc exceeded the NEPM (2013) Freshwater GILs criterion in groundwater samples MW-1, MW-2, MW-3 and MW-4. |
| COPCs – Soil Vapour | <p>While a soil vapour assessment was not undertaken as part of the DSI, a potential VI risk may be present to future high density residential site users in the vicinity of boreholes SB-4, SB-18 and SB-26, based on the identified NEPM (2013) HSL A/B criteria exceedances in fill samples collected at these locations.</p> <p>Concentrations of analysed volatile compounds were reported below the respective criteria for the proposed medium to high density redevelopment of the site in the analysed groundwater samples.</p> |
| Extent of Impacts – Soil | <p>Based on the laboratory analytical results for soil samples collected at the site, fill material appears to be impacted by the COPCs at levels exceeding human health assessment criteria for the proposed medium to high density residential land use in the north-east (SB-4 and SB-6), central (SB-7), east (SB-14) and central south (SB-18 and SB-26) areas of the site, and at concentrations above ecological assessment criteria across the general site area.</p> <p>Soil impacts exceeding human health and ecological assessment criteria appear to be generally limited to the shallow fill material.</p> <p>Data gaps have been identified relating to the assessment of soil conditions at the site following the DSI works and are discussed further in Section 8.3.</p> |
| Extent of Impacts – Groundwater | <p>With the exception of arsenic, lead, copper and/or zinc reported above the NEPM (2013) Drinking Water and/or Freshwater GILs in the groundwater samples collected from monitoring wells MW-1 to MW-4, no COPCs were reported above the groundwater assessment criteria.</p> |

8.2 Preliminary CSM Summary and Risk Assessment

The site has been used for a variety of light industrial and commercial purposes since the mid-1970's, prior to which, the site appears to have consisted of a mix of structures, vegetated land and farmland circa 1940s. The site has historically been used for a variety of purposes, including several types of manufacturing (e.g. fork lift trucks, electronic equipment, motor garage equipment, lubricating equipment and spraying equipment). The site is currently used for commercial/light industrial purposes, including electronics repair, fashion distribution, broadcasting, air freight transport, food production/distribution and rail maintenance organisation workshop.

The following potential sources of subsurface contamination have been identified at the site:

- Historical land uses on site and in the vicinity of the site;
- Potential import of fill from unknown sources to facilitate construction of the site's current configuration; and



Based on the results of the soil investigation conducted at the site by TRACE Environmental, fill material appears to be impacted by COPCs at levels exceeding human health assessment criteria for the proposed medium to high density residential land use in the north-east (SB-4 and SB-6), central (SB-7), east (SB-14) and central south (SB-18 and SB-26) areas of the site, and may present a health risk to future site users in a medium to high density residential setting in the vicinity of these hot spots.

Asbestos was identified in shallow fill material (<0.5mbgs) in the centre (SB-7) and north-west (SB-7) of the site at concentrations exceeding the NEPM (2013) HIL B criterion for asbestos in soils. It is likely that fill material on the site will be removed during future excavation completed as part of the site redevelopment and will require delineation and appropriate classification (in accordance with NSW EPA (2014) *Waste Classification Guidelines*) prior to off-site disposal of fill material.

COPCs were also identified at concentrations exceeding ecological assessment criteria in fill at soil bore locations across the general site area.

COPCs were not detected at concentrations above the applicable human health or ecological site assessment criteria in natural soil samples collected at the site. Based on the findings of the DSI, soil impacts exceeding human health and ecological assessment criteria appear to be vertically delineated to fill material on the site.

Groundwater beneath the site is generally free of measurable COPC concentrations, with the exception of heavy metals reported in all groundwater monitoring wells at the site. As no other COPCs were reported at concentration exceeding applicable guideline criteria, and considering the site is located in an urban environment, the reported metals concentrations are likely representative of background conditions at the site. It is also noted that the site is located in close proximity to a domestic ban associated with the Botany Sands aquifer (with the ban area located across O'Riordan Street to the north and west as noted in the Lotsearch report in **Appendix B**), and as such it is considered likely that any groundwater impacts associated with the domestic ban area could also potentially impact the site.

8.3 Data Gaps and Uncertainties

Due to access restrictions in buildings in the north-east, central and east portions of the site and in the driveway in the west of the site (i.e. planned soil bores SB-2, SB-3, SB-5, SB-12, SB-15 and SB-16), assessment of soil conditions in these areas could not be completed during the DSI. In addition, vertical delineation of identified impacts in fill material in soil bore locations SB-1, SB-7 and SB-25 due to hand auger refusal in fill material. Soil bore SB-21 was also abandoned due to mechanical drilling refusal on concrete, and soil bore and SB-18 was abandoned due to the likely presence of underground utility services in close proximity to this location. It also is noted that soil bore SB-1 encountered an apparent concrete slab at the respective depth of refusal.

As a result of the above site restraints, the sampling density completed as part of this DSI does not conform to the minimum number of sampling points required to assess the site (as defined in NSW EPA (1995) *Sampling Design Guidelines*) and it is recommended that further assessment beneath the current building footprints in the north-east, central and east of the site, and the driveway in the west of the site, be undertaken prior to site development. In addition, vertical delineation of identified impacts at soil bore locations SB-1, SB-7, SB-18, SB-21 and SB-25 should be undertaken prior to site development.

In addition, inspection of the shallow fill materials across the site during removal of the concrete hardstand is recommended to assess for potential residual impacts relating to previous site infrastructure/operations. The shallow fill materials should be carefully inspected for the presence of ACM, stained soils and/or below-ground residual former site infrastructure that could not be observed during the DSI field activities.



It is recommended that the above additional areas requiring investigation and/or remediation/validation be summarised in a Remedial Action Plan (RAP), which should also include an unexpected finds protocol to address unexpected finds that may be encountered during hardstand removal and/or during site redevelopment works. Refer to **Section 9.2** below for further details.



9 Conclusions and Recommendations

9.1 Summary and Conclusions

Based on the findings of this investigation, TRACE Environmental provides the following summary and conclusions:

- The site has been used for a variety of light industrial and commercial purposes since the mid-1970s, prior to which, the site appears to have consisted of a mix of structures, vegetated land and farmland circa 1940s. The site has historically been used for a variety of purposes, including several types of manufacturing (e.g. fork lift trucks, electronic equipment, motor garage equipment, lubricating equipment and spraying equipment). The site is currently used for commercial/light industrial purposes, including electronics repair, fashion distribution, broadcasting, air freight transport, food production/distribution and rail maintenance organisation workshop. It is understood the site we be redeveloped for medium to high density residential purposes;
- A potential underground stormwater detention basin is located in the south-western corner of the site, indicated by the land topography, underground utility service cover and mechanical drilling refusal on likely concrete. Historical site uses, including a variety of manufacturing operations, are potential sources of sub-surface impact. Additionally, the likely historical importation of fill material from unknown sources has the potential to impact the sub-surface;
- Based on the age of the on-site structures, in particular the building at the northern portion of the site, lead based paint and/or other hazardous building materials (such as ACM) may be present;
- Fill material was encountered across the site to depths up to 3.0mbgs and was observed to contain anthropogenic waste materials at most soil bore locations;
- A total of 119 primary fill and natural soil samples were collected from 21 soil bores advanced across the site. Of these, a total of 87 selected soil samples were analysed for a variety of COPCs to determine if historical site uses had impacted the sub-surface at the site. 22 of the natural soil samples were submitted for ASS analysis;
- Four of the soil bores were completed as permanent groundwater monitoring wells (MW-1 to MW-4) and were developed, gauged, purged and sampled. Groundwater was encountered at depths between approximately 3.7 and 4.6 mBTOC. Groundwater was calculated to flow south-westerly, towards Alexandra Canal;
- The results of the soil assessment showed COPCs at levels exceeding human health assessment criteria for the proposed medium to high density residential land use in fill material in the north-west (SB-4 and SB-6), centre (SB-7), South (SB-18 and SB-26) and north-east (SB-14) areas of the site;
- PAH, arsenic, copper, lead, nickel and/or zinc were reported above the ecological assessment criteria for urban residential and public open space from fill materials across the site;
- ACM and/or FA+AF was identified in shallow fill material (V0.5mbgs) in the northern (SB-1), western (SB-6) and central (SB-7) areas of the site, above the human health assessment criteria for the proposed land use;



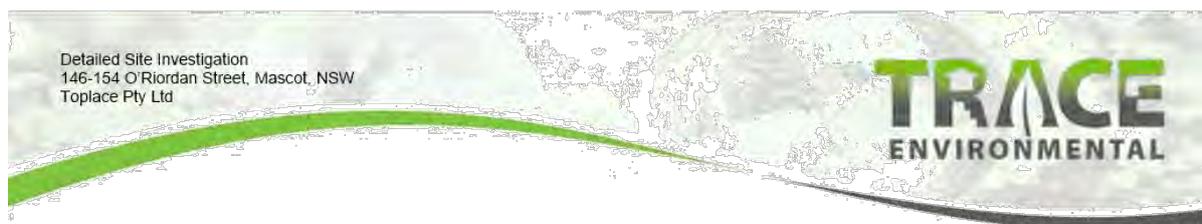
- Due to the presence of anthropogenic waste materials, the aesthetic characteristics of fill material should be considered during future site development;
- The results of the groundwater assessment showed heavy metal COPCs (arsenic and lead) at levels exceeding Drinking Water assessment in the south-east (MW-1) and north-west (MW-2) of the site;
- Copper, lead and/or zinc were reported above the Freshwater criteria across the site, in monitoring wells MW-1, MW-2, MW-3 and/or MW-4. Due to the urban setting of the site, these impacts are likely representative of background conditions at the site and surrounding site area; and
- Based on the laboratory analytical results for soil samples analysed for ASS parameters, it is considered likely that PASS or AASS are present in natural materials sampled at the site. As such, an ASSMP will be required prior to future development works or disturbance of the natural material.

Based on the findings of the DSI, it is considered that the site can be made suitable for the proposed medium to high density residential land use following implementation of a RAP for the site, incorporating a Data Gap Investigation (DGI), and the delineation, remediation and validation of identified soil impacts on the site. It is expected that implementation of the RAP would occur following demolition of site structures at the commencement of site redevelopment activities.

9.2 Recommendations

Based on the findings of the DSI, TRACE Environmental provides the following recommendations:

- A RAP should be prepared which outlines the remediation and/or management strategy for the identified impacts in fill material at the site for the proposed medium to high density residential land use. The remediation and/or management requirements outlined in the RAP should consider the findings of the current DSI in the context of the final redevelopment design (e.g. the RAP should assess the applicability of ecological criteria exceedances identified during the current DSI based on the presence/absence and/or locations of gardens/landscaped areas in the final redevelopment design), including aesthetic observations made during the DSI fieldworks. The RAP should also include an unexpected finds protocol for the discovery of previously unidentified soil and/or groundwater impacts (including ACM and ASS) during hardstand removal and site redevelopment works;
- Given the data gaps identified during the DSI (refer to **Section 8.3**), the RAP should incorporate a DGI, which needs to be completed at the site to assess the soil conditions in areas of the site that were inaccessible during this DSI. This includes beneath the current building footprints in the north-eastern, central and eastern areas of the site and the driveway in the western portion of the site, in addition to vertical delineation of identified impacts in fill material at soil bore locations SB-1, SB-7, SB-18, SB-21 and SB-25 following demolition of existing site infrastructure and prior to site development. Shallow fill materials across the site should also be inspected following removal of concrete hardstand to assess for potential residual impacts relating to previous site infrastructure/operations;
- Due to the age and construction of the on-site structures, a hazardous materials survey should be conducted, and a hazardous materials register be prepared for the site prior to commencement of any demolition activities;
- Prior to any disturbance of the sub-surface being undertaken at the site as part of the proposed site redevelopment, an Asbestos Management Plan (AMP) should be prepared in accordance with SafeWork NSW Codes of Practice, which identified the locations of the ACM, FA and AF detected



during this DSI and outlines how the asbestos risks will be controlled during work (including any air monitoring procedures that may be required);

- Prior to any disturbance of the sub-surface being undertaken at the site as part of the proposed site development, an ASS Management Plan (ASSMP) should be prepared prior to future development works or disturbance of the natural material, which identifies the locations of PASS/AASS detected during this DSI and outlines how the ASS risks will be controlled during work;
- Any material to be removed must be classified in accordance with the NSW EPA (2014) *Waste Classification Guidelines*, and the soil be disposed appropriately to a facility licensed to accept the material; and
- Any imported material brought onto the site for any purpose must first be validated as being suitable for the intended land use, prior to being imported onto the site.



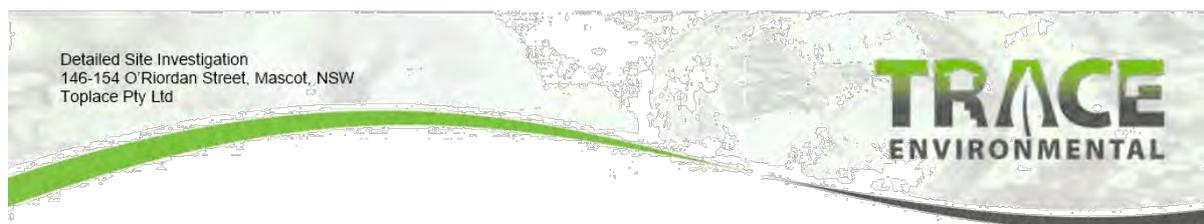
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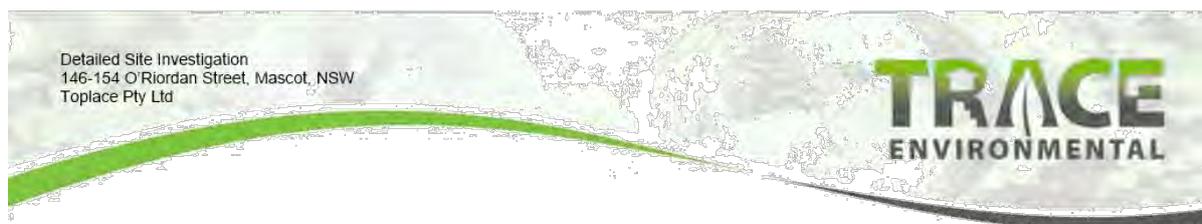
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11 Limitations

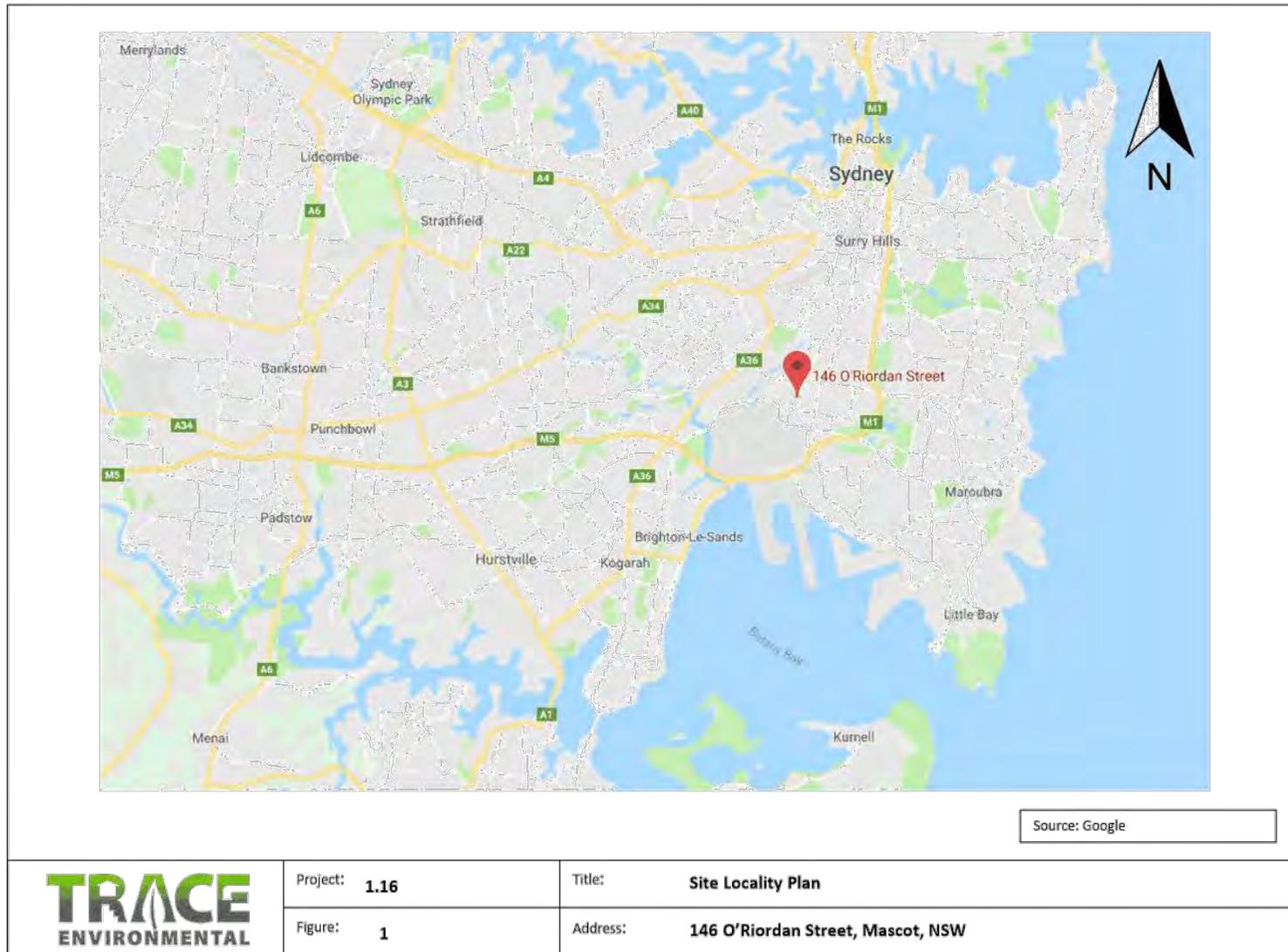
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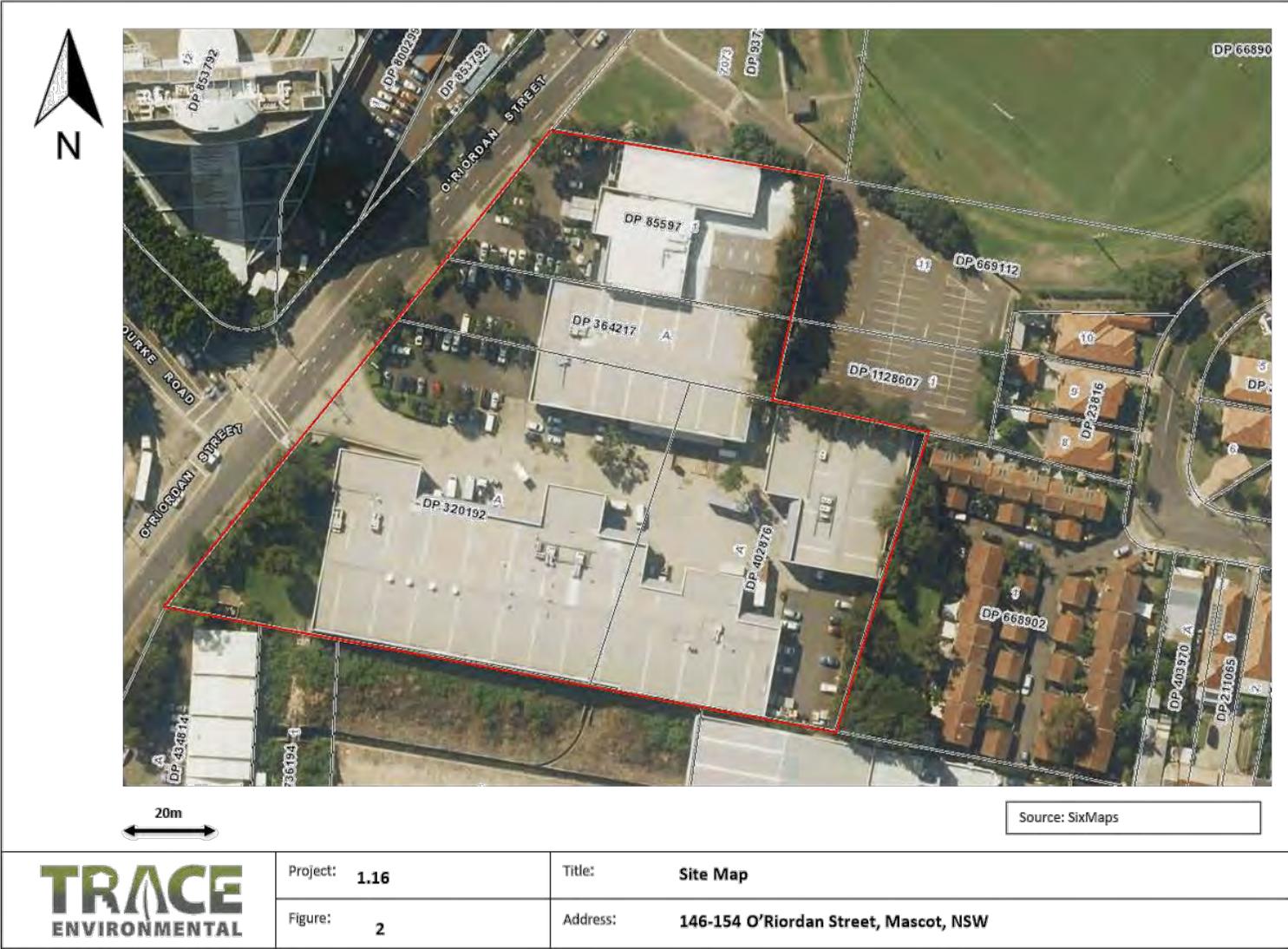
TRACE Environmental has used a degree of skill and care ordinarily exercised by reputable members of our profession practicing in the same or similar locality. The conclusions presented in this report are relevant to the conditions of the site and the state of legislation currently enacted as at the date of this report. We do not make any representation or warranty that the conclusions in this report were applicable in the future as there may be changes in the condition of the site, applicable legislation or other factors that would affect the conclusions contained in this report.

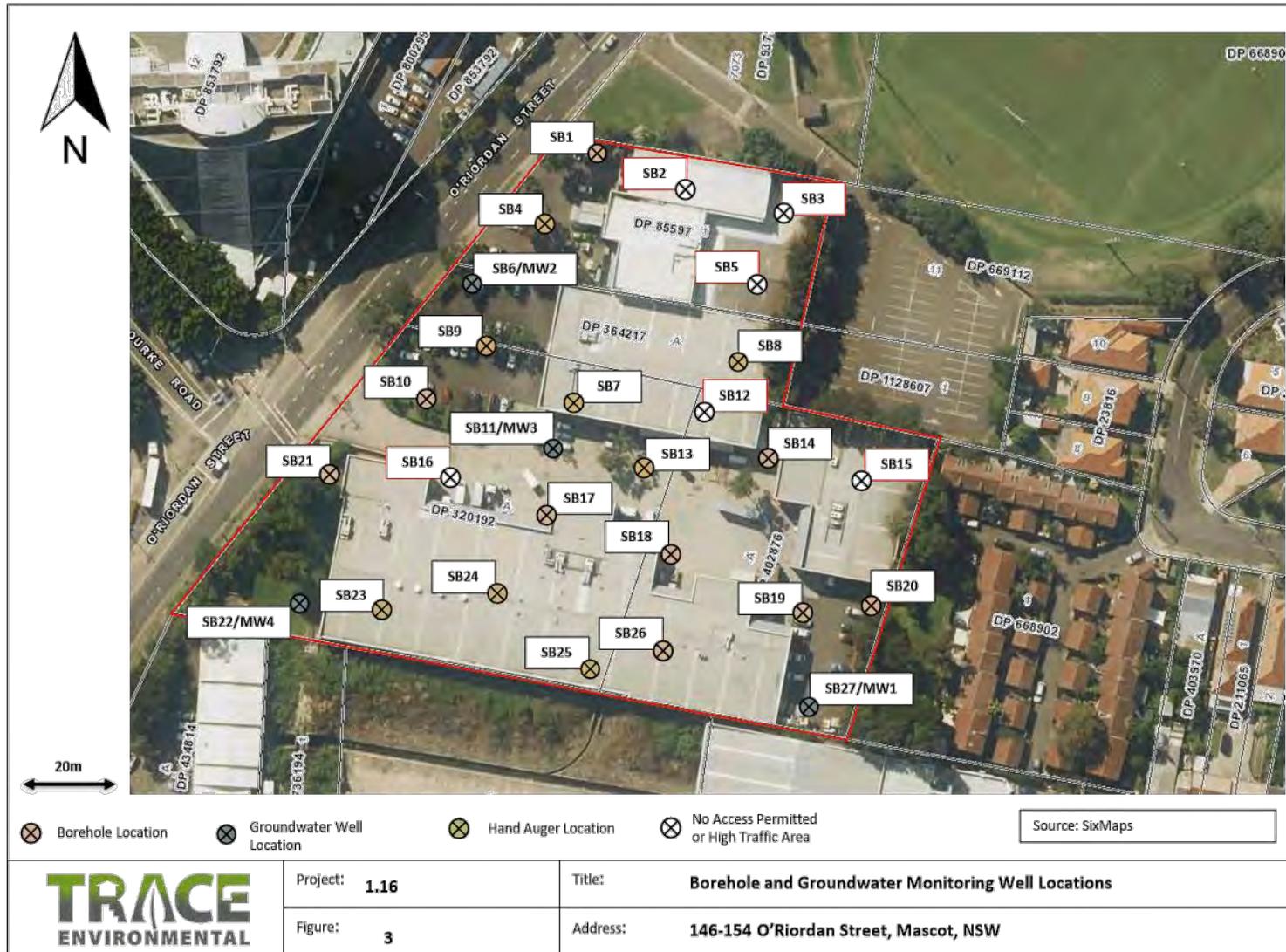
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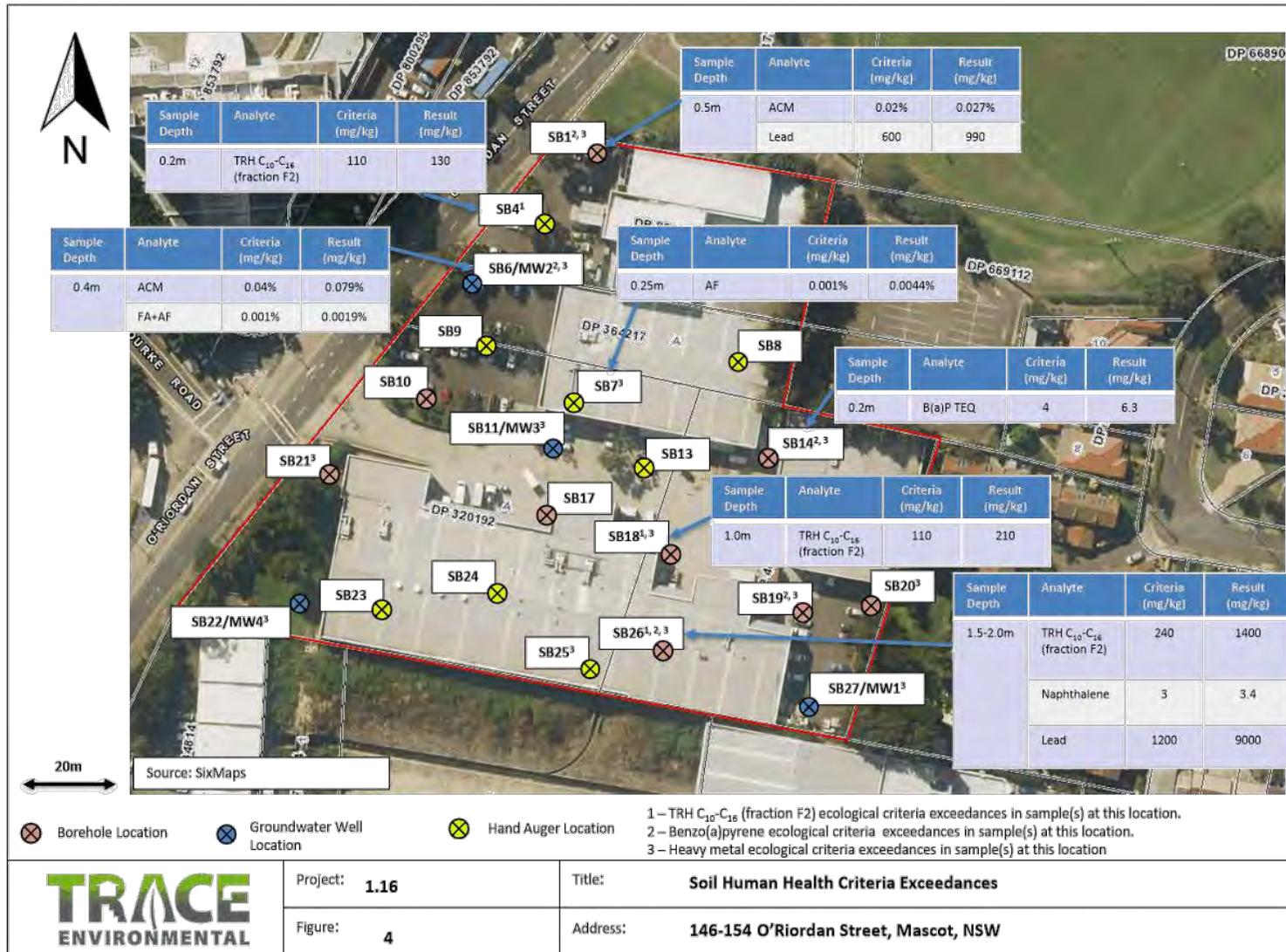


Figures

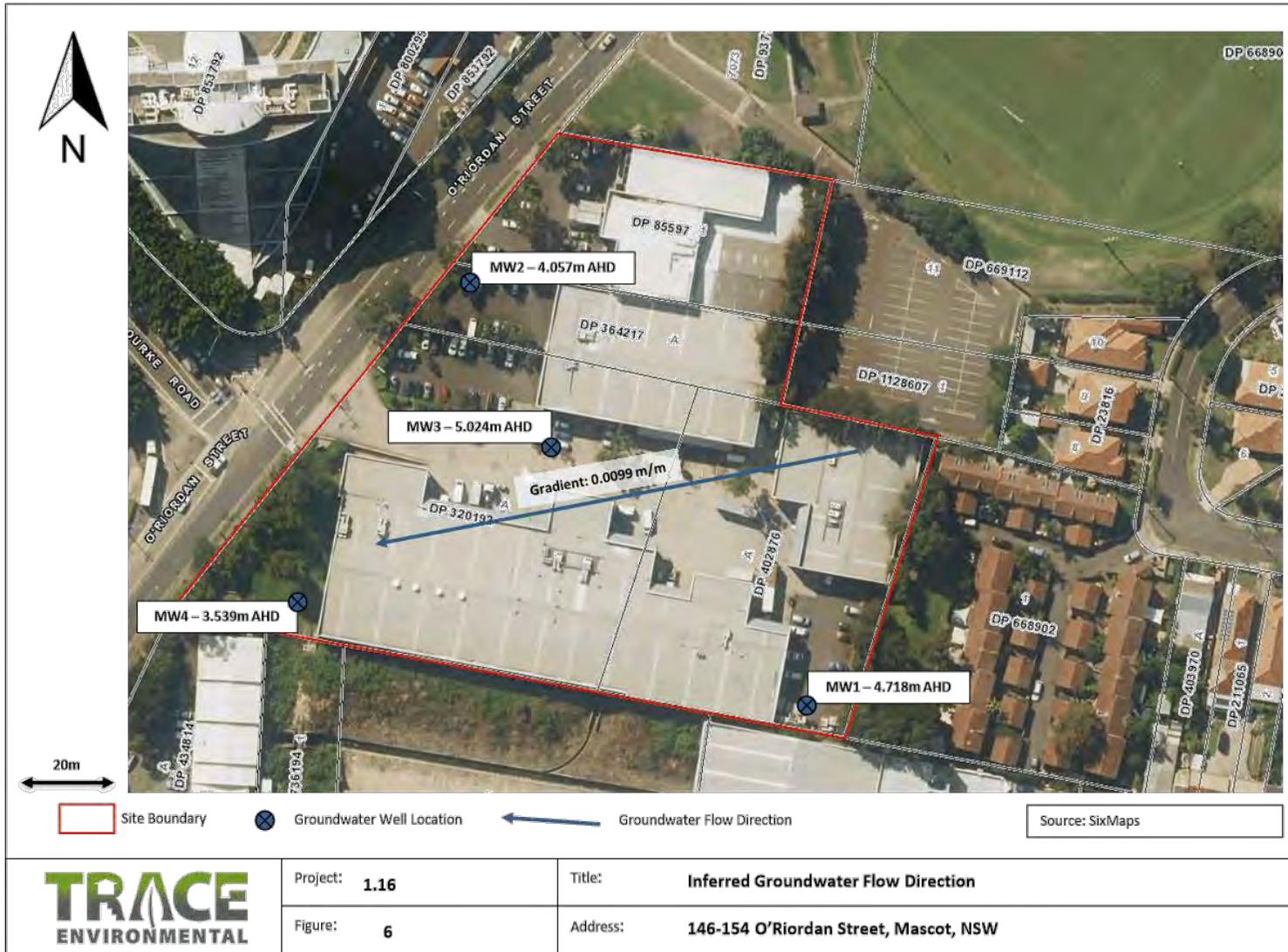














Tables



TABLE 1
SUMMARY OF SOIL SAMPLES COLLECTED
146-154 O'RIORDAN STREET, MASCOT, NSW

| Sample Identification | Date Collected | Depth (m bgl) | PID (ppm) | Requested Analysis |
|-----------------------|----------------|---------------|-----------|--|
| SB1/0.3 | 9/08/2018 | 0.30 | 0.0 | VOCs, BTEXN, vTRH, PAHs, Metals |
| SB1/0.5 | 9/08/2018 | 0.5 | 0.0 | Asbestos, PAHs, Metals, OCPs, PCBs, OPPs, NEPM Soil Screen, TCLP |
| SB4/0.2 | 14/08/2018 | 0.2 | - | Asbestos, BTEXN, vTRH, PAHs, Metals, Phenols |
| SB6/0.4 | 9/08/2018 | 0.4 | 0.0 | Asbestos, OCPs, PCBs, OPPs |
| SB6/1.0 | 9/08/2018 | 1.0 | - | BTEXN, vTRH, PAHs, Metals, TCLP |
| SB6/1.25 | 9/08/2018 | 1.25 | - | Not Analysed |
| SB6/2.0 | 9/08/2018 | 2.0 | 0.0 | ASS |
| SB6/2.6 | 9/08/2018 | 2.6 | - | NEPM Soil Screen, BTEXN, vTRH, PAHs, Metals |
| SB6/3.0 | 9/08/2018 | 3.0 | 0.0 | Not Analysed |
| SB6/3.2 | 9/08/2018 | 3.2 | - | OCPs, PCBs, OPPs |
| SB6/3.9 | 9/08/2018 | 3.9 | - | Not Analysed |
| SB6/4.0 | 9/08/2018 | 4.0 | 0.0 | ASS |
| SB6/4.8 | 9/08/2018 | 4.8 | - | BTEXN, vTRH, PAHs, Metals, Phenols |
| SB6/5.0 | 9/08/2018 | 5.0 | 0.0 | ASS |
| SB7/0.25 | 14/08/2018 | 0.25 | - | Asbestos, BTEXN, vTRH, PAHs, Metals, Phenols, TCLP |
| SB8/0.15 | 14/08/2018 | 0.15 | - | BTEXN, vTRH, PAHs, Metals, Phenols |
| SB8/0.3 | 14/08/2018 | 0.3 | - | Asbestos |
| SB9/0.25 | 14/08/2018 | 0.25 | - | Asbestos, BTEXN, vTRH, PAHs, Metals, Phenols |
| SB10/0.3 | 10/08/2018 | 0.3 | 0.0 | Asbestos |
| SB10/0.5 | 10/08/2018 | 0.5 | 0.0 | pH, Metals, OCPs, PCBs, OPPs |
| SB11/0.2 | 9/08/2018 | 0.2 | 0.0 | OCPs, PCBs, OPPs |
| SB11/0.5 | 9/08/2018 | 0.5 | 0.0 | BTEXN, vTRH, PAHs, Metals, Phenols |
| SB11/1.2 | 9/08/2018 | 1.2 | 0.0 | Asbestos, PAHs, Metals |
| SB11/1.6 | 9/08/2018 | 1.6 | - | VOCs, BTEXN, vTRH, PAHs, Metals |
| SB11/2.0 | 9/08/2018 | 2.0 | 0.0 | Not Analysed |
| SB11/2.6 | 9/08/2018 | 2.6 | - | Not Analysed |
| SB11/3.6 | 9/08/2018 | 3.6 | - | Not Analysed |
| SB11/4.4 | 9/08/2018 | 4.4 | - | BTEXN, vTRH, PAHs, Metals, Phenols |
| SB11/4.8 | 9/08/2018 | 4.8 | 0.0 | Not Analysed |
| SB11/5.0 | 9/08/2018 | 5.0 | - | OCPs, PCBs, OPPs |
| SB13/0.3 | 10/08/2018 | 0.3 | 0.0 | Asbestos, PAHs |
| SB14/0.2 | 10/08/2018 | 0.2 | 0.0 | Asbestos, BTEXN, vTRH, PAHs, Metals |
| SB14/0.4 | 10/08/2018 | 0.4 | 0.4 | Not Analysed |
| SB14/0.5 | 10/08/2018 | 0.5 | 0.0 | OCPs, PCBs, OPPs |
| SB14/1.2 | 10/08/2018 | 1.2 | 0.0 | PAHs, Metals, NEPM Soil Screen, TCLP |
| SB14/2.0 | 10/08/2018 | 2.0 | 0.3 | Not Analysed |
| SB14/2.5 | 10/08/2018 | 2.5 | 0.0 | Asbestos, VOCs |
| SB14/3.0 | 10/08/2018 | 3.0 | 0.0 | Not Analysed |
| SB14/3.2 | 10/08/2018 | 3.2 | - | Not Analysed |
| SB14/3.8 | 10/08/2018 | 3.8 | - | OCPs, PCBs, OPPs |
| SB14/4.0 | 10/08/2018 | 4.0 | 0.0 | Not Analysed |
| SB14/5.0 | 10/08/2018 | 5.0 | 0.0 | Not Analysed |
| SB14/6.0 | 10/08/2018 | 6.0 | 0.0 | ASS |
| SB14/7.0 | 10/08/2018 | 7.0 | 0.0 | Not Analysed |
| SB14/8.0 | 10/08/2018 | 8.0 | 0.0 | ASS |
| SB14/9.0 | 10/08/2018 | 9.0 | 0.0 | Not Analysed |
| SB14/10.0 | 10/08/2018 | 10.0 | 0.0 | ASS, OCPs, PCBs, OPPs, BTEXN, vTRH, PAHs, Metals |
| SB17/0.2 | 10/08/2018 | 0.2 | 0.0 | Not Analysed |
| SB17/0.5 | 10/08/2018 | 0.5 | 0.0 | BTEXN, vTRH, PAHs, Metals |
| SB17/1.0 | 10/08/2018 | 1.0 | 0.0 | Asbestos, OCPs, PCBs, OPPs |
| SB17/1.2 | 10/08/2018 | 1.2 | 0.0 | Not Analysed |
| SB17/1.3 | 10/08/2018 | 1.3 | - | Not Analysed |



TABLE 1
SUMMARY OF SOIL SAMPLES COLLECTED
146-154 O'RIORDAN STREET, MASCOT, NSW

| Sample Identification | Date Collected | Depth (mbgl) | PID (ppm) | Requested Analysis |
|-----------------------|----------------|--------------|-----------|--|
| SB17/1.6 | 10/08/2018 | 1.6 | - | Not Analysed |
| SB17/1.9 | 10/08/2018 | 1.9 | - | Not Analysed |
| SB17/3.8 | 10/08/2018 | 3.8 | 0.0 | ASS |
| SB17/5.0 | 10/08/2018 | 5.0 | 0.0 | Not Analysed |
| SB17/6.0 | 10/08/2018 | 6.0 | 0.0 | ASS, pH |
| SB17/7.0 | 10/08/2018 | 7.0 | 0.0 | Not Analysed |
| SB17/7.5 | 10/08/2018 | 7.5 | 0.0 | BTEXN, vTRH, PAHs, Metals, Phenols |
| SB17/8.0 | 10/08/2018 | 8.0 | 0.0 | ASS |
| SB17/9.0 | 10/08/2018 | 9.0 | 0.0 | OCPs, PCBs, OPPs |
| SB17/10.0 | 10/08/2018 | 10.0 | 0.0 | ASS |
| SB18/0.2 | 10/08/2018 | 0.2 | - | Asbestos, pH, PAHs, Metals, OCPs, PCBs, OPPs |
| SB18/0.6 | 10/08/2018 | 0.6 | - | Asbestos, VOCs |
| SB18/1.0 | 10/08/2018 | 1.0 | - | BTEXN, vTRH, PAHs, Metals, Phenols, TCLP |
| SB19/0.2 | 8/08/2018 | 0.2 | 0.0 | Not Analysed |
| SB19/0.8 | 8/08/2018 | 0.8 | 0.8 | Asbestos, PAHs, Metals, OCPs, PCBs, OPPs |
| SB19/1.5 | 8/08/2018 | 1.5 | 1.0 | BTEXN, vTRH, PAHs, Metals, TCLP |
| SB19/2.5 | 8/08/2018 | 2.5 | - | OCPs, PCBs, OPPs, VOCs |
| SB19/3.2 | 8/08/2018 | 3.2 | - | Not Analysed |
| SB19/3.7 | 8/08/2018 | 3.7 | - | BTEXN, vTRH, PAHs, Metals, Phenols |
| SB20/0.3 | 8/08/2018 | 0.3 | 0.0 | PAHs, Metals, OCPs, PCBs, OPPs |
| SB20/1.0 | 8/08/2018 | 1.0 | 0.0 | Asbestos, BTEXN, vTRH, PAHs, Metals, TCLP |
| SB20/1.5 | 8/08/2018 | 1.5 | 0.0 | Metals |
| SB20/2.2 | 8/08/2018 | 2.2 | 0.0 | Not Analysed |
| SB20/2.4 | 8/08/2018 | 2.4 | 0.0 | Not Analysed |
| SB20/2.6 | 8/08/2018 | 2.6 | 0.0 | Not Analysed |
| SB20/3.0 | 8/08/2018 | 3.0 | 0.0 | OCPs, PCBs, OPPs |
| SB20/3.8 | 8/08/2018 | 3.8 | 0.0 | BTEXN, vTRH, PAHs, Metals, Phenols |
| SB20/5.0 | 8/08/2018 | 5.0 | 0.0 | ASS |
| SB20/6.0 | 8/08/2018 | 6.0 | 0.0 | Not Analysed |
| SB20/7.0 | 8/08/2018 | 7.0 | 0.0 | Not Analysed |
| SB20/8.0 | 8/08/2018 | 8.0 | 0.0 | ASS |
| SB20/9.0 | 8/08/2018 | 9.0 | 0.0 | PAHs, NEPM Soil Screen |
| SB20/10.0 | 8/08/2018 | 10.0 | 0.0 | ASS |
| SB20/11.0 | 8/08/2018 | 11.0 | 0.0 | Not Analysed |
| SB20/12.0 | 8/08/2018 | 12.0 | 0.0 | ASS, BTEXN, vTRH, PAHs, Metals, Phenols |
| SB21/0.15 | 13/08/2018 | 0.15 | 0.0 | BTEXN, vTRH, PAHs, Metals, Phenols, TCLP |
| SB21/0.4 | 13/08/2018 | 0.4 | - | Asbestos |
| SB21/0.5 | 13/08/2018 | 0.5 | - | Not Analysed |
| SB21/0.8 | 13/08/2018 | 0.8 | - | Not Analysed |
| SB22/0.1 | 13/08/2018 | 0.1 | 0.0 | OCPs, PCBs, OPPs |
| SB22/0.5 | 13/08/2018 | 0.5 | - | Asbestos, PAHs, Metals |
| SB22/0.9 | 13/08/2018 | 0.9 | - | Not Analysed |
| SB22/1.0 | 13/08/2018 | 1.0 | 0.0 | Not Analysed |
| SB22/1.3 | 13/08/2018 | 1.3 | - | NEPM Soil Screen, BTEXN, vTRH, PAHs, Metals, Phenols |
| SB22/2.0 | 13/08/2018 | 2.0 | 0.0 | Not Analysed |
| SB22/2.6 | 13/08/2018 | 2.6 | - | Not Analysed |
| SB22/3.0 | 13/08/2018 | 3.0 | 0.0 | ASS |
| SB22/4.0 | 13/08/2018 | 4.0 | 0.0 | Not Analysed |
| SB22/5.0 | 13/08/2018 | 5.0 | 0.0 | ASS |
| SB22/6.0 | 13/08/2018 | 6.0 | - | BTEXN, vTRH, PAHs, Metals |
| SB22/7.0 | 13/08/2018 | 7.0 | - | ASS |
| SB23/0.2 | 14/08/2018 | 0.2 | - | Not Analysed |
| SB23/0.4 | 14/08/2018 | 0.4 | - | Asbestos, BTEXN, vTRH, PAHs, Metals, Phenols |



TABLE 1
SUMMARY OF SOIL SAMPLES COLLECTED
146-154 O'RIORDAN STREET, MASCOT, NSW

| Sample Identification | Date Collected | Depth (mbgl) | PID (ppm) | Requested Analysis |
|-----------------------|----------------|--------------|-----------|--|
| SB24/0.3 | 14/08/2018 | 0.3 | - | Asbestos, BTEXN, vTRH, PAHs, Metals, Phenols |
| SB25/0.25 | 14/08/2018 | 0.25 | - | Asbestos, BTEXN, vTRH, PAHs, Metals, Phenols |
| SB26/0.2 | 10/08/2018 | 0.2 | 0.0 | Asbestos, BTEXN, vTRH, PAHs, Metals |
| SB26/0.5 | 10/08/2018 | 0.5 | - | OCPs, PCBs, OPPs |
| SB26/1.0 | 10/08/2018 | 1.0 | 3.9 | Not Analysed |
| SB26/1.5-2.0 | 10/08/2018 | 1.5-2.0 | 8.3 | VOCs, BTEXN, vTRH, PAHs, Metals, Phenols, TCLP |
| SB26/2.0 | 10/08/2018 | 2.0 | 7.3 | ASS, pH |
| SB26/3.0 | 10/08/2018 | 3.0 | 6.4 | OCPs, PCBs, OPPs |
| SB26/4.0 | 10/08/2018 | 4.0 | 8.5 | ASS, BTEXN, vTRH, PAHs, Metals |
| SB26/5.0 | 10/08/2018 | 5.0 | 8.9 | VOCs |
| SB26/6.0 | 10/08/2018 | 6.0 | 5.5 | ASS, BTEXN, vTRH, PAHs, Metals |
| SB26/7.0 | 10/08/2018 | 7.0 | 2.7 | Not Analysed |
| SB26/8.0 | 10/08/2018 | 8.0 | 2.0 | ASS, OCPs, PCBs, OPPs |
| SB26/9.0 | 10/08/2018 | 9.0 | - | Not Analysed |
| SB26/10.0 | 10/08/2018 | 10.0 | 0.0 | ASS |
| SB27/0.2 | 8/08/2018 | 0.2 | 0.0 | Asbestos, OCPs, PCBs, OPPs |
| SB27/0.5 | 8/08/2018 | 0.5 | 0.0 | Metals |
| SB27/1.0 | 8/08/2018 | 1.0 | 0.0 | PAHs |
| SB27/1.5 | 8/08/2018 | 1.5 | 0.0 | Asbestos |
| SB27/3.1 | 8/08/2018 | 3.1 | 0.0 | Not Analysed |
| SB27/3.8 | 8/08/2018 | 3.8 | 0.0 | BTEXN, vTRH, PAHs, Metals |
| SB27/5.0 | 8/08/2018 | 5.0 | 0.0 | pH |
| SB27/6.0 | 8/08/2018 | 6.0 | 0.0 | BTEXN, vTRH, PAHs, Metals |
| QA1 | 13/08/2018 | - | - | Asbestos |
| QA2 | 14/08/2018 | - | - | Asbestos |
| QS1 | 10/08/2018 | - | - | BTEXN, vTRH, PAHs, Metals |
| QS2 | 8/08/2018 | - | - | BTEXN, vTRH, PAHs, Metals |
| QS3 | 13/08/2018 | - | - | BTEXN, vTRH, PAHs, Metals |
| QA1A | 13/08/2018 | - | - | Asbestos |
| QA2A | 14/08/2018 | - | - | Asbestos |
| QS1A | 8/08/2018 | - | - | BTEXN, vTRH, PAHs, Metals |
| QS2A | 10/08/2018 | - | - | BTEXN, vTRH, PAHs, Metals |
| QS3A | 13/08/2018 | - | - | BTEXN, vTRH, PAHs, Metals |
| RB1 | 8/08/2018 | - | - | BTEXN, vTRH, PAHs, Metals, Phenols |
| RB2 | 13/08/2018 | - | - | OCPs, PCBs, OPPs |
| RB3 | 14/08/2018 | - | - | OCPs, PCBs, OPPs |
| RB4 | 14/08/2018 | - | - | BTEXN, vTRH, PAHs, Metals, Phenols |
| TRIP BLANK | 9/08/2018 | - | - | BTEXN, vTRH |
| TRIP SPIKE | 9/08/2018 | - | - | BTEXN, vTRH |
| TRIP BLANK | 14/09/2019 | - | - | BTEXN, vTRH |
| TRIP SPIKE | 14/09/2018 | - | - | BTEXN, vTRH |

Notes:

mbgl - metres below ground surface

PID - Photoionisation Detector

ppm - parts per million

QS-1 - duplicate of primary sample SB11-0.75

QS-1A - triplicate of primary sample SB11-0.75

QS-2 - duplicate of primary sample SB19-2.5

QS-2A - triplicate of primary sample SB19-2.5

QS3 - duplicate of primary sample SB22/6.0

QS3A - triplicate of primary sample SB22/6.0

QA1 - duplicate of primary asbestos sample SB13-0.2

QA1A - triplicate of primary asbestos sample SB13-0.2

QA2 - duplicate of primary asbestos sample SB6-0.2

QA2A - triplicate of primary asbestos sample SB6-0.2



TABLE 2A:
SUMMARY OF SOIL ANALYTICAL RESULTS - TRH & BTEX
146-154 O'RIORDAN STREET, MASCOT, NSW

| Sample ID | | | | | | SB1/0.3 | SB4/0.2 | SB6/1.0 | SB6/2.6 | SB6/4.8 | SB7/0.25 | SB8/0.15 | SB9/0.25 | SB11/0.5 | SB11/1.6 | SB11/4.4 | SB14/0.2 | QS2 | QS2A | |
|--------------------------|-----|--------------------------|--|--|---|-----------|------------|------------|-----------|-----------|------------|------------|------------|------------|------------|-----------|------------|------|------|--|
| Sample Date | | | | | | 9/08/2018 | 14/08/2018 | 9/08/2018 | 9/08/2018 | 9/08/2018 | 14/08/2018 | 14/08/2018 | 14/08/2018 | 9/08/2018 | 9/08/2018 | 9/08/2018 | 10/08/2018 | | | |
| Compounds | LOB | Management Units for TPH | HSL Direct Contact Intrinsic Maintenance Worker ² | HSL Direct Contact Low Density Residential land users ³ | ESLs for Urban Residential and Public Open Space ² | | | | | | | | | | | | | | | |
| C6 - C9 Fraction | 20 | NE | NE | NE | NE | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | |
| C10 - C14 Fraction | 20 | NE | NE | NE | NE | <20 | 120 | <20 | <20 | <20 | 22 | <20 | <20 | <20 | 60 | <20 | <20 | <20 | <20 | |
| C15 - C18 Fraction | 50 | NE | NE | NE | NE | <50 | 400 | 74 | <50 | <50 | 120 | <50 | <50 | 70 | 350 | <50 | <50 | <50 | <50 | |
| C20 - C28 Fraction | 50 | NE | NE | NE | NE | <50 | 310 | 100 | <50 | <50 | 140 | <50 | 57 | 71 | 59 | <50 | <50 | <50 | <50 | |
| C10 - C18 Fraction (sum) | 50 | NE | NE | NE | NE | <50 | 830 | 174 | <50 | <50 | 262 | <50 | 57 | 141 | 503 | <50 | <50 | <50 | <50 | |
| C6 - C10 Fraction | 20 | NE | 22000 | 4400 | NE | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | |
| C6 - C10 Fraction F1 | 20 | 700, 800 | NE | NE | 180 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | |
| C10 - C16 Fraction | 50 | 1000, 1000 | NE | NE | 3300 | <50 | 130 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | |
| C16 - C24 Fraction | 100 | 2500, 3500 | 85000 | 4500 | NE | <100 | 680 | 160 | <100 | <100 | 240 | <100 | <100 | 140 | 480 | <100 | <100 | <100 | <100 | |
| C14 - C18 Fraction | 100 | NE | 120000 | 6400 | NE | <100 | 150 | <100 | <100 | <100 | 110 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | |
| C10 - C16 Fraction F2 | 50 | 1000, 1000 | NE | NE | 120 | <20 | 130 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | 92 | <20 | <20 | <20 | <20 | |
| Benzene | 0.1 | NE | 1,100 | 100 | 50, 65 | <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 | |
| Toluene | 0.1 | NE | 120000 | 1400 | 85, 109 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.3 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | |
| Benzonitrile | 0.1 | NE | 85000 | 4500 | 70, 125 | <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 | |
| m,p-xylene | 0.2 | NE | NE | NE | NE | <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 | |
| ortho-xylene | 0.1 | NE | NE | NE | NE | <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 | |
| Total Xylenes | 0.3 | NE | 130000 | 47000 | 105, 45 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | |
| Naphthalene | 0.5 | NE | 29000 | 1400 | NE | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |

All units are in mg/kg unless otherwise noted.
 1. NEM 2013, Schedule 91 Management Limits for TPH - Residential, parkland and public open space Land use, Coarse & Fine Solids
 2. CRC CARE 2011 Health Screening Level for Direct Contact with Soil (Intrusive Maintenance Worker)
 3. CRC CARE 2011 Health Screening Level for Direct Contact with Soil (HSL-A Low Density Residential)
 2. NEM 2013 ESLs (Urban residential/public open space)
 LOB - Limits of Reporting
 NL - Not testing
 NE - Not established
 QS-1 - duplicate of primary sample SB27/3.8
 QS-1A - triplicate of primary sample SB14/0.2
 QS2 - duplicate of primary sample SB14/0.2
 QS2A - triplicate of primary sample SB14/0.2
 QS3 - duplicate of primary sample SB22/8.0
 QS3A - triplicate of primary sample SB22/8.0



TABLE 2A:
SUMMARY OF SOIL ANALYTICAL RESULTS - TRH & BTEX
146-154 O'RIORDAN STREET, MASCOT, NSW

| Sample ID | | | | | | SB14/10.0 | SB17/0.5 | SB17/7.5 | SB18/1.0 | SB19/1.5 | SB19/3.7 | SB20/1.0 | SB20/3.8 | SB20/12.0 | SB21/0.15 | SB22/1.3 | SB22/6.0 | Q53 | Q53A | |
|--------------------------|-----|---------------------------|--|---|---|------------|------------|------------|-------------|------------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|------|--|
| Sample Date | | | | | | 10/08/2018 | 10/08/2018 | 10/08/2018 | 10/08/2018 | 8/08/2018 | 8/08/2018 | 8/08/2018 | 8/08/2018 | 8/08/2018 | 13/08/2018 | 13/08/2018 | 13/08/2018 | 13/08/2018 | | |
| Compounds | LOB | Management Limits for TPH | HSL Direct Contact Intrinsic Maintenance Worker ¹ | HSL Direct Contact Low Density Residential ² | ESLs for Urban Residential and Public Open Space ³ | | | | | | | | | | | | | | | |
| C6 - C9 Fraction | 20 | NE | NE | NE | NE | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | |
| C10 - C14 Fraction | 20 | NE | NE | NE | NE | <20 | <20 | <20 | 150 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | |
| C15 - C18 Fraction | 50 | NE | NE | NE | NE | <50 | <50 | <50 | 1100 | 91 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | |
| C19 - C28 Fraction | 50 | NE | NE | NE | NE | <50 | <50 | <50 | 1100 | 60 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | |
| C10 - C18 Fraction (sum) | 50 | NE | NE | NE | NE | <50 | <50 | <50 | 2350 | 157 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | |
| C6 - C10 Fraction | 20 | NE | 22000 | 4400 | NE | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | |
| C6 - C10 Fraction F1 | 20 | 700, 800 | NE | NE | 180 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | |
| >C10 - C16 Fraction | 50 | 1000, 1000 | NE | NE | 3300 | <50 | <50 | <50 | 210 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | |
| >C16 - C24 Fraction | 100 | 2500, 3500 | 85000 | 4500 | NE | <100 | <100 | <100 | 2000 | 160 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | |
| >C24 - C28 Fraction | 100 | NE | 120000 | 6000 | NE | <100 | <100 | <100 | 810 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | <100 | |
| >C10 - C16 Fraction F2 | 50 | 1000, 1000 | NE | NE | 120 | <50 | <50 | <50 | 210 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | |
| Benzene | 0.1 | NE | 1,100 | 100 | 50, 65 | <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 | |
| Toluene | 0.1 | NE | 120000 | 1400 | 85, 105 | <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 | |
| Ethylbenzene | 0.1 | NE | 85000 | 4500 | 70, 125 | <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 | |
| m,p-xylene & para-xylene | 0.2 | NE | NE | NE | NE | <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 | |
| ortho-xylene | 0.1 | NE | NE | NE | NE | <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 | |
| Total Xylenes | 0.3 | NE | 130000 | 12000 | 105, 45 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | |
| Naphthalene | 0.5 | NE | 38000 | 1400 | NE | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |

All units are in mg/kg unless otherwise noted.
 1. NEM 2013, Schedule B1 Management Limits for TPH - Residential, parkland and public open space Land use, Coarse & Fine Soils
 2. CRC CARE 2011 Health Screening Level for Direct Contact with Soil (Intrusive Maintenance Worker)
 3. CRC CARE 2011 Health Screening Level for Direct Contact with Soil (HSL-A Low Density Residential)
 2. NEM 2013 ESLs (Urban residential/public open space)
 LOB - Limit of Reporting
 NL - Not limiting
 NE - Not established
 Q5-1 - duplicate of primary sample SB27/3.8
 Q5-1A - triplicate of primary sample SB27/3.8
 Q52 - duplicate of primary sample SB14/0.2
 Q52A - triplicate of primary sample SB14/0.2
 Q53 - duplicate of primary sample SB22/6.0
 Q53A - triplicate of primary sample SB22/6.0



**TABLE 2A:
SUMMARY OF SOIL ANALYTICAL RESULTS - TRH & BTEX
146-154 O'RIORDAN STREET, MASCOT, NSW**

| Sample ID | | | | | | SB23/0.4 | SB24/0.3 | SB25/0.25 | SB26/0.2 | SB26/1.5-2.0 | SB26/4.0 | SB26/6.0 | SB27/3.8 | Q51 | Q51A | SB27/6.0 |
|--------------------------|-----|--|---|---|---|------------|------------|------------|------------|--------------|------------|------------|-----------|------|------|-----------|
| Sample Date | | | | | | 14/08/2018 | 14/08/2018 | 14/08/2018 | 10/08/2018 | 10/8/18 | 10/08/2018 | 10/08/2018 | 8/08/2018 | | | 8/08/2018 |
| Compounds | LDR | Management Limits for TPH ¹ | HSL Direct Contact Intraive Maintenance Worker ² | HSL Direct Contact Low Density Residential ³ | ESLs for Urban Residential and Public Open Space ⁴ | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| C6 - C8 Fraction | 20 | NE | NE | NE | NE | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 |
| C10 - C14 Fraction | 20 | NE | NE | NE | NE | <20 | <20 | <20 | <20 | 1000 | 43 | 39 | <20 | <20 | <20 | <20 |
| C15 - C28 Fraction | 50 | NE | NE | NE | NE | <50 | <50 | <50 | <50 | 1500 | 50 | 81 | <50 | <50 | <100 | <50 |
| C29 - C36 Fraction | 50 | NE | NE | NE | NE | <50 | <50 | <50 | <50 | 900 | <90 | 49 | <50 | <50 | <100 | <50 |
| C10 - C36 Fraction (sum) | 50 | NE | NE | NE | NE | <50 | <50 | <50 | <50 | 3000 | 93 | 159 | <50 | <50 | <50 | <50 |
| C6 - C10 Fraction | 20 | NE | 82000 | 4400 | NE | <20 | <20 | <20 | <20 | 41 | <20 | <20 | <20 | <20 | <20 | <20 |
| C6 - C10 Fraction F1 | 20 | 700, 800 | NE | NE | 180 | <20 | <20 | <20 | <20 | 40 | <20 | <20 | <20 | <20 | <20 | <20 |
| >C10 - C36 Fraction | 50 | 1000, 1000 | 62000 | 3300 | NE | <50 | <50 | <50 | <50 | 1400 | 72 | 63 | <50 | <50 | <50 | <50 |
| >C36 - C84 Fraction | 100 | 2500, 3500 | 85000 | 4500 | NE | <100 | <100 | <100 | <100 | 1800 | <180 | 130 | <100 | <100 | <100 | <100 |
| >C54 - C40 Fraction | 100 | NE | 120000 | 8300 | NE | <100 | <100 | <100 | <100 | 270 | <270 | <270 | <100 | <100 | <100 | <100 |
| >C10 - C36 Fraction P2 | 50 | 1000, 1000 | NE | NE | 120 | <50 | <50 | <50 | <50 | 1400 | 72 | 63 | <50 | <50 | <50 | <50 |
| Benzene | 0.1 | NE | 1,100 | 100 | 50, 65 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Toluene | 0.1 | NE | 120000 | 1400 | 85, 105 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| o-Xylenes | 0.1 | NE | 85000 | 4500 | 70, 125 | <0.1 | <0.1 | <0.1 | <0.1 | 0.3 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| m,p-Xylenes | 0.2 | NE | NE | NE | NE | <0.2 | <0.2 | <0.2 | <0.2 | 0.5 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| ortho-Xylenes | 0.1 | NE | NE | NE | NE | <0.1 | <0.1 | <0.1 | <0.1 | 0.3 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Total Xylenes | 0.3 | NE | 130000 | 12000 | 105, 45 | <0.3 | <0.3 | <0.3 | <0.3 | 0.8 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Naphthalene | 0.5 | NE | 29000 | 1400 | NE | <0.5 | <0.5 | <0.5 | <0.5 | 3.4 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |

Notes:
 All units are in mg/kg unless otherwise noted.
 1. NEM 2013, Schedule B1 Management Limits for TPH - Residential, parkland and public open space Land use, Coarse & Fine Soils
 2. CRC CARE 2011 Health Screening Level for Direct Contact with Soil (Intrusive Maintenance Worker)
 3. CRC CARE 2011 Health Screening Level for Direct Contact with Soil (HSL-A Low Density Residential)
 4. NEM 2013 ESLs (Urban residential/public open space)
 LDR - Limits of Reporting
 NE - Not Estimating
 NE - Not established
 Q5-1 - duplicate of primary sample SB27/3.8
 Q5-1A - triplicate of primary sample SB27/3.8
 Q52 - duplicate of primary sample SB34/0.2
 Q52A - triplicate of primary sample SB34/0.2
 Q53 - duplicate of primary sample SB22/6.0
 Q53A - triplicate of primary sample SB22/6.0



TABLE 2B:
SUMMARY OF SOIL ANALYTICAL RESULTS - TRH & BTEX
SOIL HSLS FOR VAPOUR INTRUSION
146-154 O'RIORDAN STREET, MASCOT, NSW

| Sample ID | | SB1/0.3 | SB4/0.2 | SB6/1.0 | SB6/2.6 | SB6/4.8 | SB7/0.25 | SB8/0.15 | SB9/0.25 | SB11/0.5 | SB11/1.6 | SB11/4.4 | |
|-----------------------|-----|---------------------------------|-------------------------|--|-----------|------------|------------|------------|------------|------------|-----------|-----------|------|
| Sample Date | | 9/08/2018 | 14/08/2018 | 9/08/2018 | 9/08/2018 | 9/08/2018 | 14/08/2018 | 14/08/2018 | 14/08/2018 | 9/08/2018 | 9/08/2018 | 9/08/2018 | |
| Depth | | 0.3 | 0.2 | 1.0 | 2.6 | 4.8 | 0.25 | 0.2 | 0.25 | 0.5 | 1.6 | 4.4 | |
| Predominant Soil Type | | Sand | Sand | 0/01/1900 | Sand | Sand | Sand | Sand | Sand | Sand | Sand | Sand | |
| Compounds | LOR | HSL A & HSL B Sand ¹ | HSL C Sand ² | HSL Intrusive Maintenance Worker Sand ³ | | | | | | | | | |
| Benzene | 0.5 | 0.5, 0.5, 0.5, 0.5 | NL | 77, 100, NL | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Toluene | 0.5 | 100, 200, 310, 540 | NL | NL | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.3 | <0.1 | <0.5 | <0.1 |
| Ethylbenzene | 0.5 | 55, NI, NI, NI | NL | NL | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Total Xylenes | 0.3 | 40, 60, 95, 170 | NL | NL | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 | <0.3 |
| Naphthalene | 0.5 | 3, 16, 16, 16 | NL | NL | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| CS - CAS Fraction F1 | 20 | 85, 70, 110, 200 | NL | NE | <0.9 | <0.9 | <0.9 | <0.9 | <0.9 | <0.9 | <0.9 | <0.9 | <0.9 |
| CAS - CAS Fraction F2 | 50 | 110, 240, 400, NI | NL | NE | <0.9 | 130 | <0.9 | <0.9 | <0.9 | <0.9 | <0.9 | 92 | <0.9 |

Notes:
 All concentrations in mg/kg
 F1 Fraction denotes TRH C₁₀-C₁₅ fraction minus BTEX compounds
 F2 Fraction denotes TRH >C₁₀-C₁₅ minus naphthalene
 1. NEMV 2013 Soil HSL for vapour intrusion - Low-high density residential land use - 0 to <1m, 1 to <2m, 2 to <4m, 4m+ (Sand)
 2. NEMV 2013 Soil HSL for vapour intrusion - recreational/open space land use - 0 to <1m, 1 to <2m, 2 to <4m, 4m+ (Sand)
 3. CRC CARE 2011 Health Screening Level for Vapour Intrusion - Intrusive Maintenance Worker in a Shallow Trench - 0m to <2m, 2m to <4m, >4m
 NL - Not Listed
 NE - Not established
 LOR - Limit of reporting
 Shading indicates concentration in excess of a relevant HSL (by predominant overlying soil type and depth).
 QS1 - duplicate of primary sample SB27/0.3
 QS1A - triplicate of primary sample SB27/0.3
 QS2 - duplicate of primary sample SB14/0.2
 QS2A - triplicate of primary sample SB14/0.2
 QS3 - duplicate of primary sample SB22/0.0
 QS3A - triplicate of primary sample SB22/0.0



**TABLE 2B:
SUMMARY OF SOIL ANALYTICAL RESULTS - TRH & BTEX
SOIL HSLS FOR VAPOUR INTRUSION
146-154 O'RIORDAN STREET, MASCOT, NSW**

| Sample ID | | SB14/0.2 | Q52 | Q52A | SB14/10.0 | SB17/0.5 | SB17/7.5 | SB18/1.0 | SB18/1.5 | SB19/3.7 | SB20/1.0 | SB20/3.8 | SB20/12.0 | SB21/0.15 | SB22/1.3 |
|-----------------------|-----|---------------------------------|-------------------------|--|------------|------------|------------|------------|-----------|-----------|-----------|-----------|-----------|------------|------------|
| Sample Date | | 10/08/2018 | | | 10/08/2018 | 10/08/2018 | 10/08/2018 | 10/08/2018 | 8/08/2018 | 8/08/2018 | 8/08/2018 | 8/08/2018 | 8/08/2018 | 13/08/2018 | 13/08/2018 |
| Depth | | 0.2 | | | 10.0 | 0.5 | 7.5 | 1.0 | 1.5 | 3.7 | 1.0 | 3.8 | 12.0 | 0.2 | 1.3 |
| Predominant Soil Type | | Sand | Sand | Sand | Sand | Sand | Sand | Sand | Sand | Sand | Sand | Sand | Sand | Sand | Sand |
| Compounds | LOR | HSL A & HSL B Sand ¹ | HSL C Sand ² | HSL Intrusive Maintenance Worker Sand ³ | | | | | | | | | | | |
| Benzene | 0.1 | 0.5, 0.5, 0.5, 0.3 | NE | 77, 160, NL | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Toluene | 0.1 | 160, 320, 310, 540 | NE | NL | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Ethylbenzene | 0.1 | 95, NI, NI, NI | NE | NL | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Total Xylenes | 0.5 | 40, 60, 95, 170 | NL | NL | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Naphthalene | 0.5 | 3, NI, NI, NI | NE | NL | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| CS- C10 Fraction F1 | 20 | 45, 70, 110, 200 | NE | NE | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 |
| C10 - C16 Fraction F2 | 50 | 110, 240, 440, NI | NE | NE | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 |

Notes:
 All concentrations in mg/kg
 F1 Fraction denotes TRH C₁₀-C₁₆ fraction minus BTEX compounds
 F2 Fraction denotes TRH >C₁₀-C₁₆ minus naphthalene
 1. NEMPA 2015 Soil HSL for vapour intrusion - Low-high density residential land use - 0 to <1m, 1 to <2m, 2 to <4m, 4m+ (Sand)
 2. NEMPA 2013 Soil HSL for vapour intrusion - recreational/open space land use - 0 to <1m, 1 to <2m, 2 to <4m, 4m+ (Sand)
 3. CRC CARE 2015 Health Screening Level for Vapour Intrusion - Intrinsic Maintenance Worker in a Shallow Trench - 0m to <2m, 2m to <4m, >4m
 NI - Not limiting
 NE - Not established
 LOR - Limit of reporting
 Shading indicates concentration in excess of a relevant HSL (by predominant overlying soil type and depth)
 Q51 - duplicate of primary sample SB27/3.9
 Q51A - triplicate of primary sample SB27/3.9
 Q52 - duplicate of primary sample SB14/0.2
 Q52A - triplicate of primary sample SB14/0.2
 Q53 - duplicate of primary sample SB22/1.3
 Q53A - triplicate of primary sample SB22/1.3



**TABLE 2B:
SUMMARY OF SOIL ANALYTICAL RESULTS - TRH & BTEX
SOIL HSLS FOR VAPOUR INTRUSION
146-154 O'RIORDAN STREET, MASCOT, NSW**

| Sample ID | | SB22/6.0 | Q53 | Q53A | SB23/0.4 | SB24/0.3 | SB25/0.25 | SB26/0.2 | SB26/1.5-2.0 | SB26/4.0 | SB26/6.0 | SB27/3.8 | Q51 | Q51A | SB27/6.0 | |
|-----------------------|-----|---------------------------------|-------------------------|--|------------|------------|------------|------------|--------------|------------|------------|-----------|------|------|-----------|--|
| Sample Date | | 13/08/2018 | | | 14/08/2018 | 14/08/2018 | 14/08/2018 | 10/08/2018 | 10/8/18 | 10/08/2018 | 10/08/2018 | 8/08/2018 | | | 8/08/2018 | |
| Depth | | 6.0 | | | 0.4 | 0.3 | 0.25 | 0.2 | 1.5-2.0 | 4.0 | 6.0 | 3.8 | | | 6.0 | |
| Predominant Soil Type | | Sand | Sand | Sand | Sand | Sand | Sand | Sand | Sand | Sand | Sand | Sand | Sand | Sand | Sand | |
| Compounds | LOR | HSL A & HSL B Sand ¹ | HSL C Sand ² | HSL Intrusive Maintenance Worker Sand ³ | | | | | | | | | | | | |
| Benzene | 0.1 | 0.5, 0.5, 0.5, 0.3 | NE | 77, 160, NL | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | |
| Toluene | 0.1 | 160, 320, 310, 540 | NE | NL | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | |
| Ethylbenzene | 0.1 | 95, NI, NI, NI | NE | NL | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | |
| Total Xylenes | 0.5 | 40, 60, 95, 170 | NL | NL | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| Naphthalene | 0.5 | 3, NI, NI, NI | NE | NL | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| OE-ClB Fraction F1 | 20 | 45, 70, 110, 200 | NE | NE | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | |
| OE-ClB Fraction F2 | 50 | 110, 240, 440, NI | NE | NE | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | |

Notes:
 All concentrations in mg/kg
 F1 Fraction denotes TRH C₁₂C₁₀ fraction minus BTEX compounds
 F2 Fraction denotes TRH >C₁₂C₁₀ minus naphthalene
 1. NEM 2013 Soil HSL for vapour intrusion - Low-high density residential land use - 0 to <1m, 1 to <2m, 2 to <4m, 4m+ (Sand)
 2. NEM 2013 Soil HSL for vapour intrusion - recreational/open space land use - 0 to <1m, 1 to <2m, 2 to <4m, 4m+ (Sand)
 3. CRC CARE 2015 Health Screening Level for Vapour Intrusion - Intrinsic Maintenance Worker in a Shallow Trench - 0m to <2m, 2m to <4m, >4m
 NI - Not limiting
 NE - Not established
 LOR - Limit of reporting
 Shading indicates concentration in excess of a relevant HSL (by predominant overlying soil type and depth)
 Q51 - duplicate of primary sample SB27/3.8
 Q51A - triplicate of primary sample SB27/3.8
 Q52 - duplicate of primary sample SB14/0.2
 Q52A - triplicate of primary sample SB14/0.2
 Q53 - duplicate of primary sample SB22/6.0
 Q53A - triplicate of primary sample SB22/6.0



**TABLE 3:
SUMMARY OF SOIL ANALYTICAL RESULTS - PAHs
146-154 O'RIORDAN STREET, MASCOT, NSW**

| Sample ID | SB1/0.3 | SB1/0.5 | SB4/0.2 | SB6/1.0 | SB6/2.6 | SB6/4.8 | SB7/0.25 | SB8/0.15 | SB9/0.25 | SB11/0.5 | | | | |
|---------------------------|-----------|-------------------|-------------------|--|-----------|-------------|------------|------------|------------|-----------|------------|------|------|------|
| Sample Date | 9/08/2018 | 9/08/2018 | 14/08/2018 | 9/08/2018 | 9/08/2018 | 9/08/2018 | 14/08/2018 | 14/08/2018 | 14/08/2018 | 9/08/2018 | | | | |
| Compounds | LOR | HL B ¹ | HL C ² | EILs/ESLs for Urban Residential and Public Open Space ³ | | | | | | | | | | |
| Naphthalene | 0.5 | NE | NE | 170 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Acenaphthylene | 0.5 | NE | NE | NE | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Acenaphthene | 0.5 | NE | NE | NE | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Fluorene | 0.5 | NE | NE | NE | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Phenanthrene | 0.5 | NE | NE | NE | <0.5 | 3.1 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Anthracene | 0.5 | NE | NE | NE | <0.5 | 0.7 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Fluoranthene | 0.5 | NE | NE | NE | <0.5 | 3.0 | <0.5 | 0.9 | <0.5 | <0.5 | 1 | <0.5 | <0.5 | <0.5 |
| Pyrene | 0.5 | NE | NE | NE | <0.5 | 3.1 | <0.5 | 1.0 | <0.5 | <0.5 | 1.1 | <0.5 | <0.5 | <0.5 |
| Benz[a]anthracene | 0.5 | NE | NE | NE | <0.5 | 1.7 | <0.5 | <0.5 | <0.5 | <0.5 | 0.5 | <0.5 | <0.5 | <0.5 |
| Chrysene | 0.5 | NE | NE | NE | <0.5 | 1.5 | <0.5 | 0.7 | <0.5 | <0.5 | 0.6 | <0.5 | <0.5 | <0.5 |
| Benzo[b+]fluoranthene | 0.5 | NE | NE | NE | <0.5 | 1.3 | <0.5 | 0.6 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Benzo[k]fluoranthene | 0.5 | NE | NE | NE | <0.5 | 1.0 | <0.5 | 0.6 | <0.5 | <0.5 | 0.6 | <0.5 | <0.5 | <0.5 |
| Benzo[a]pyrene | 0.5 | NE | NE | 0.7, 0.7 | <0.5 | 1.7 | <0.5 | 0.8 | <0.5 | <0.5 | 0.6 | <0.5 | <0.5 | <0.5 |
| Indeno[1,2,3-cd]pyrene | 0.5 | NE | NE | NE | <0.5 | 0.8 | <0.5 | 0.6 | <0.5 | <0.5 | 0.6 | <0.5 | <0.5 | <0.5 |
| Dibenz[a,h]anthracene | 0.5 | NE | NE | NE | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Benzo[g,h,i]perylene | 0.5 | NE | NE | NE | <0.5 | 1.0 | <0.5 | <0.5 | <0.5 | <0.5 | 0.8 | <0.5 | <0.5 | <0.5 |
| Total PAH | 0.5 | 400 | 300 | NE | <0.5 | 18.9 | <0.5 | 5.2 | <0.5 | <0.5 | 5.8 | <0.5 | <0.5 | <0.5 |
| Benzo[a]pyrene TEQ (zero) | 0.5 | 4 | 3 | NE | <0.5 | 2.2 | <0.5 | 1.0 | <0.5 | <0.5 | 0.8 | <0.5 | <0.5 | <0.5 |

Notes:

- All units in milligrams/kilogram (mg/kg)
- 1. NEPM 2013 Health investigation levels for soil contaminants - Residential B with minimal opportunities for soil access
- 2. NEPM 2013 Health investigation levels for soil contaminants - Recreational C - Public open spaces
- 3. NEPM 2013 EILs/ESLs (urban residential/public open space)
- LOR - Limits of Reporting
- NE - Not Established
- QS-1 - duplicate of primary sample SB27/3.8
- QS-1A - triplicate of primary sample SB27/3.8
- QS2 - duplicate of primary sample SB14/0.2
- QS2A - triplicate of primary sample SB14/0.2
- QS3 - duplicate of primary sample SB22/6.0
- QS3A - triplicate of primary sample SB22/6.0



**TABLE 3:
SUMMARY OF SOIL ANALYTICAL RESULTS - PAHs
146-154 O'RIORDAN STREET, MASCOT, NSW**

| Sample ID | SB11/1.2 | SB11/1.6 | SB11/4.4 | SB13/0.3 | SB14/0.2 | QS2 | QS2A | SB14/1.2 | SB14/10.0 | SB17/0.5 | | | | |
|---------------------------|-----------|-------------------|-------------------|--|------------|------------|------|------------|------------|------------|------|-------------|------|------|
| Sample Date | 9/08/2018 | 9/08/2018 | 9/08/2018 | 13/08/2018 | 10/08/2018 | | | 10/08/2018 | 10/08/2018 | 10/08/2018 | | | | |
| Compounds | LOR | HL B ¹ | HL C ² | EILs/ESLs for Urban Residential and Public Open Space ³ | | | | | | | | | | |
| Naphthalene | 0.5 | NE | NE | 170 | <0.5 | 3.0 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Acenaphthylene | 0.5 | NE | NE | NE | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.7 | <0.5 | <0.5 |
| Acenaphthene | 0.5 | NE | NE | NE | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Fluorene | 0.5 | NE | NE | NE | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.6 | <0.5 | <0.5 |
| Phenanthrene | 0.5 | NE | NE | NE | <0.5 | 1.9 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 4.3 | <0.5 | <0.5 |
| Anthracene | 0.5 | NE | NE | NE | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.5 | <0.5 | <0.5 |
| Fluoranthene | 0.5 | NE | NE | NE | <0.5 | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 7.1 | <0.5 | <0.5 |
| Pyrene | 0.5 | NE | NE | NE | 0.7 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 7.2 | <0.5 | <0.5 |
| Benzo[a]anthracene | 0.5 | NE | NE | NE | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 2.9 | <0.5 | <0.5 |
| Chrysene | 0.5 | NE | NE | NE | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 3.6 | <0.5 | <0.5 |
| Benzo[b+g]fluoranthene | 0.5 | NE | NE | NE | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 3.4 | <0.5 | <0.5 |
| Benzo[k]fluoranthene | 0.5 | NE | NE | NE | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 3.1 | <0.5 | <0.5 |
| Benzo[a]pyrene | 0.5 | NE | NE | 0.7, 0.7 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 3.8 | <0.5 | <0.5 |
| Indeno[1,2,3-cd]pyrene | 0.5 | NE | NE | NE | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 2.4 | <0.5 | <0.5 |
| Dibenz[a,h]anthracene | 0.5 | NE | NE | NE | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.3 | <0.5 | <0.5 |
| Benzo[g,h,i]perylene | 0.5 | NE | NE | NE | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 2.2 | <0.5 | <0.5 |
| Total PAH | 0.5 | 400 | 300 | NE | 0.7 | 5.4 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 44.1 | <0.5 | <0.5 |
| Benzo[a]pyrene TEQ (zero) | 0.5 | 4 | 3 | NE | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 6.3 | <0.5 | <0.5 |

Notes:

All units in milligrams/kilogram (mg/kg)

1. NEPM 2013 Health investigation levels for soil contaminants - Residential B with minimal opportunities for soil access

2. NEPM 2013 Health investigation levels for soil contaminants - Recreational C - Public open spaces

3. NEPM 2013 EILs/ESLs (urban residential/public open space)

LOR - Limits of Reporting

NE - Not Established

QS-1 - duplicate of primary sample SB27/3.8

QS-1A - triplicate of primary sample SB27/3.8

QS2 - duplicate of primary sample SB14/0.2

QS2A - triplicate of primary sample SB14/0.2

QS3 - duplicate of primary sample SB22/6.0

QS3A - triplicate of primary sample SB22/6.0



**TABLE 3:
SUMMARY OF SOIL ANALYTICAL RESULTS - PAHs
146-154 O'RIORDAN STREET, MASCOT, NSW**

| Sample ID | SB17/7.5 | SB18/0.2 | SB18/1.0 | SB19/0.8 | SB19/1.5 | SB19/3.7 | SB20/0.3 | SB20/1.0 | SB20/3.8 | SB20/9.0 | | | | | |
|---------------------------|------------|-------------------|-------------------|--|-----------|-----------|-----------|-----------|-----------|-----------|------|------|------|------|--|
| Sample Date | 10/08/2018 | 10/08/2018 | 10/08/2018 | 8/08/2018 | 8/08/2018 | 8/08/2018 | 8/08/2018 | 8/08/2018 | 8/08/2018 | 8/08/2018 | | | | | |
| Compounds | LOR | HL B ¹ | HL C ² | EILs/ESLs for Urban Residential and Public Open Space ³ | | | | | | | | | | | |
| Naphthalene | 0.5 | NE | NE | 170 | <0.5 | <0.5 | <2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| Acenaphthylene | 0.5 | NE | NE | NE | <0.5 | <0.5 | <2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| Acenaphthene | 0.5 | NE | NE | NE | <0.5 | <0.5 | <2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| Fluorene | 0.5 | NE | NE | NE | <0.5 | <0.5 | <2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| Phenanthrene | 0.5 | NE | NE | NE | <0.5 | <0.5 | <2 | 0.7 | 0.7 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| Anthracene | 0.5 | NE | NE | NE | <0.5 | <0.5 | <2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| Fluoranthene | 0.5 | NE | NE | NE | <0.5 | <0.5 | <2 | 0.9 | 1.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| Pyrene | 0.5 | NE | NE | NE | <0.5 | <0.5 | <2 | 0.9 | 1.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| Benzo[a]anthracene | 0.5 | NE | NE | NE | <0.5 | <0.5 | <2 | 0.6 | 0.8 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| Chrysene | 0.5 | NE | NE | NE | <0.5 | <0.5 | <2 | <0.5 | 0.9 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| Benzo[b+g]fluoranthene | 0.5 | NE | NE | NE | <0.5 | <0.5 | <2 | <0.5 | 0.6 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| Benzo[k]fluoranthene | 0.5 | NE | NE | NE | <0.5 | <0.5 | <2 | <0.5 | 0.9 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| Benzo[a]pyrene | 0.5 | NE | NE | 0.7, 0.7 | <0.5 | <0.5 | <2 | 0.7 | 0.9 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| Indeno[1,2,3-cd]pyrene | 0.5 | NE | NE | NE | <0.5 | <0.5 | <2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| Dibenz[a,h]anthracene | 0.5 | NE | NE | NE | <0.5 | <0.5 | <2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| Benzo[g,h,i]perylene | 0.5 | NE | NE | NE | <0.5 | <0.5 | <2 | 0.6 | 0.6 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| Total PAH | 0.5 | 400 | 300 | NE | <0.5 | <0.5 | <2 | 4.4 | 8.4 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| Benzo[a]pyrene TEQ (zero) | 0.5 | 4 | 3 | NE | <0.5 | <0.5 | <2 | 0.8 | 1.1 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |

Notes:

All units in milligrams/kilogram (mg/kg)

1. NEPM 2013 Health investigation levels for soil contaminants - Residential B with minimal opportunities for soil access

2. NEPM 2013 Health investigation levels for soil contaminants - Recreational C - Public open spaces

3. NEPM 2013 EILs/ESLs (urban residential/public open space)

LOR - Limits of Reporting

NE - Not Established

QS-1 - duplicate of primary sample SB27/3.8

QS-1A - triplicate of primary sample SB27/3.8

QS2 - duplicate of primary sample SB14/0.2

QS2A - triplicate of primary sample SB14/0.2

QS3 - duplicate of primary sample SB22/6.0

QS3A - triplicate of primary sample SB22/6.0



**TABLE 3:
SUMMARY OF SOIL ANALYTICAL RESULTS - PAHs
146-154 O'RIORDAN STREET, MASCOT, NSW**

| Sample ID | SB20/12.0 | SB21/0.15 | SB22/0.5 | SB22/1.3 | SB22/6.0 | Q53 | Q53A | SB23/0.4 | SB24/0.3 | SB25/0.25 | | | | |
|---------------------------|-----------|--------------------|--------------------|--|------------|------|------|------------|------------|------------|------|------|------|------|
| Sample Date | 8/08/2018 | 13/08/2018 | 13/08/2018 | 13/08/2018 | 13/08/2018 | | | 14/08/2018 | 14/08/2018 | 14/08/2018 | | | | |
| Compounds | LOR | HLI B ¹ | HLI C ¹ | EILs/ESLs for Urban Residential and Public Open Space ³ | | | | | | | | | | |
| Naphthalene | 0.5 | NE | NE | 170 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Acenaphthylene | 0.5 | NE | NE | NE | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Acenaphthene | 0.5 | NE | NE | NE | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Fluorene | 0.5 | NE | NE | NE | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Phenanthrene | 0.5 | NE | NE | NE | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Anthracene | 0.5 | NE | NE | NE | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Fluoranthene | 0.5 | NE | NE | NE | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Pyrene | 0.5 | NE | NE | NE | <0.5 | <0.5 | 0.9 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Benzo[a]anthracene | 0.5 | NE | NE | NE | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Chrysene | 0.5 | NE | NE | NE | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Benzo[b+g]fluoranthene | 0.5 | NE | NE | NE | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Benzo[k]fluoranthene | 0.5 | NE | NE | NE | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Benzo[a]pyrene | 0.5 | NE | NE | 0.7, 0.7 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Indeno[1,2,3-cd]pyrene | 0.5 | NE | NE | NE | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Dibenz[a,h]anthracene | 0.5 | NE | NE | NE | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Benzo[g,h,i]perylene | 0.5 | NE | NE | NE | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Total PAH | 0.5 | 400 | 300 | NE | <0.5 | <0.5 | 0.9 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Benzo[a]pyrene TEQ (zero) | 0.5 | 4 | 3 | NE | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |

Notes:

All units in milligrams/kilogram (mg/kg)

1. NEPM 2013 Health investigation levels for soil contaminants - Residential B with minimal opportunities for soil access

2. NEPM 2013 Health investigation levels for soil contaminants - Recreational C - Public open spaces

3. NEPM 2013 EILs/ESLs (urban residential/public open space)

LOR - Limits of Reporting

NE - Not Established

Q5-1 - duplicate of primary sample SB27/3.8

Q5-1A - triplicate of primary sample SB27/3.8

Q52 - duplicate of primary sample SB14/0.2

Q52A - triplicate of primary sample SB14/0.2

Q53 - duplicate of primary sample SB22/6.0

Q53A - triplicate of primary sample SB22/6.0



**TABLE 3:
SUMMARY OF SOIL ANALYTICAL RESULTS - PAHs
146-154 O'RIORDAN STREET, MASCOT, NSW**

| Sample ID | | | | | SB26/0.2 | SB26/1.5-2.0 | SB26/4.0 | SB26/6.0 | SB27/1.0 | SB27/3.8 | QS1 | QS1A | SB27/6.0 |
|---------------------------|-----|--------------------|--------------------|--|-------------|--------------|------------|------------|-----------|-----------|------|------|-----------|
| Sample Date | | | | | 10/08/2018 | 10/08/2018 | 10/08/2018 | 10/08/2018 | 8/08/2018 | 8/08/2018 | | | 8/08/2018 |
| Compounds | LOR | HIL B ¹ | HIL C ² | EILs/ESLs for Urban Residential and Public Open Space ³ | | | | | | | | | |
| | | | | | Naphthalene | 0.5 | NE | NE | 170 | <0.5 | 4.7 | <0.5 | <0.5 |
| Acenaphthylene | 0.5 | NE | NE | NE | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Acenaphthene | 0.5 | NE | NE | NE | <0.5 | 2.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Fluorene | 0.5 | NE | NE | NE | <0.5 | 2.6 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Phenanthrene | 0.5 | NE | NE | NE | <0.5 | 7.4 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Anthracene | 0.5 | NE | NE | NE | <0.5 | 1.6 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Fluoranthene | 0.5 | NE | NE | NE | <0.5 | 4.8 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Pyrene | 0.5 | NE | NE | NE | <0.5 | 5.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Benz(a)anthracene | 0.5 | NE | NE | NE | <0.5 | 1.8 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Chrysene | 0.5 | NE | NE | NE | <0.5 | 1.9 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Benzo(b)fluoranthene | 0.5 | NE | NE | NE | <0.5 | 1.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Benzo(k)fluoranthene | 0.5 | NE | NE | NE | <0.5 | 1.1 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Benzo(a)pyrene | 0.5 | NE | NE | 0.7, 0.7 | <0.5 | 1.4 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Indeno(1,2,3-cd)pyrene | 0.5 | NE | NE | NE | <0.5 | 0.8 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Dibenz(a,h)anthracene | 0.5 | NE | NE | NE | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Benzo(g,h,i)perylene | 0.5 | NE | NE | NE | <0.5 | 0.7 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Total PAH | 0.5 | 400 | 300 | NE | <0.5 | 97.6 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Benzo(a)pyrene TEQ (zero) | 0.5 | 4 | 3 | NE | <0.5 | 1.9 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |

Notes:

All units in milligrams/kilogram (mg/kg)

1. NEPM 2013 Health Investigation levels for soil contaminants - Residential B with minimal opportunities for soil access

2. NEPM 2013 Health Investigation levels for soil contaminants - Recreational C - Public open spaces

3. NEPM 2013 EILs/ESLs (urban residential/public open space)

LOR - Limits of Reporting

NE - Not Established

QS-1 - duplicate of primary sample SB27/3.8

QS-1A - triplicate of primary sample SB27/3.8

QS2 - duplicate of primary sample SB14/0.2

QS2A - triplicate of primary sample SB14/0.2

QS3 - duplicate of primary sample SB22/6.0

QS3A - triplicate of primary sample SB22/6.0



**TABLE 4:
SUMMARY OF SOIL ANALYTICAL RESULTS - HEAVY METALS
146-154 O'RIORDAN STREET, MASCOT, NSW**

| Sample ID | | | | | SB1/0.3 | SB1/0.5 | SB4/0.2 | SB6/1.0 | SB6/2.6 | SB6/4.8 | SB7/0.25 | SB8/0.15 | SB9/0.25 | SB10/0.5 |
|-------------------|-----|--------------------|--------------------|------------------|-----------|-----------|------------|-----------|-----------|-----------|------------|------------|------------|-----------|
| Sample Date | | | | | 9/08/2018 | 9/08/2018 | 14/08/2018 | 9/08/2018 | 9/08/2018 | 9/08/2018 | 14/08/2018 | 14/08/2018 | 14/08/2018 | 9/08/2018 |
| Metal | LOR | HIL B ¹ | HIL C ² | EIL ³ | | | | | | | | | | |
| Arsenic | 2 | 500 | 300 | 40 | 2.1 | 41 | 15 | 45 | <2 | <2 | 24.0 | 6.2 | 4.0 | <2 |
| Cadmium | 0.4 | 150 | 90 | NE | <0.4 | <0.4 | <0.4 | 0.7 | <0.4 | <0.4 | 0.7 | <0.4 | <0.4 | <0.4 |
| Chromium (Total)* | 5 | 500 | 300 | 200 | 8.9 | 14 | 19 | 39 | <5 | <5 | 6.4 | 120 | 7.5 | 12 |
| Copper | 5 | 30000 | 17000 | 110 | 37 | 390 | 64 | 170 | <5 | <5 | 65 | 16 | 18 | 7.4 |
| Lead | 5 | 1200 | 600 | 1100 | 22 | 990 | 84 | 460 | <5 | <5 | 270 | 77 | 26 | 12 |
| Mercury ** | 0.1 | 120 | 80 | NE | <0.1 | 0.1 | <0.1 | 0.3 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| Nickel | 5 | 1200 | 1200 | 30 | <5 | 9.9 | 8.5 | 120 | <5 | <5 | 140 | 13 | 11 | 7.3 |
| Zinc | 5 | 50000 | 30000 | 350 | 42 | 190 | 220 | 1100 | 17 | 21 | 1400 | 230 | 61 | 110 |

Notes:
 All units in mg/kg unless otherwise noted
 1. NEPM 2013 Health investigation levels for soil contaminants - Residential B with minimal opportunities for soil access
 2. NEPM 2013 Health investigation levels for soil contaminants - Recreational C - Public open spaces
 3. NEPM 2013 EILs (urban residential/public open space)
 LOR - Limits of Reporting
 * criteria for Chromium (VI) shown
 ** criteria for mercury (inorganic) shown
 Q3-1 - duplicate of primary sample SB27/3.8
 Q3-1A - triplicate of primary sample SB27/3.8
 Q32 - duplicate of primary sample SB14/0.2
 Q32A - triplicate of primary sample SB14/0.2
 Q33 - duplicate of primary sample SB22/6.0
 Q33A - triplicate of primary sample SB22/6.0



**TABLE 4:
SUMMARY OF SOIL ANALYTICAL RESULTS - HEAVY METALS
146-154 O'RIORDAN STREET, MASCOT, NSW**

| Sample ID | | | | | SB11/0.5 | SB11/1.2 | SB11/1.6 | SB11/4.4 | SB14/0.2 | QS2 | QS2A | SB14/1.2 | SB14/10.0 | SB17/0.5 |
|-------------------|-----|--------------------|--------------------|------------------|-----------|-----------|-----------|-----------|------------|------|------|------------|------------|------------|
| Sample Date | | | | | 9/08/2018 | 9/08/2018 | 9/08/2018 | 9/08/2018 | 10/08/2018 | | | 10/08/2018 | 10/08/2018 | 10/08/2018 |
| Metal | LOR | HIL B ¹ | HIL C ² | EIL ³ | | | | | | | | | | |
| Arsenic | 2 | 500 | 300 | 40 | 3.7 | 4.8 | 42 | <2 | <2 | <2 | <5 | 7.7 | <2 | 3.3 |
| Cadmium | 0.4 | 150 | 90 | NE | <0.4 | 0.4 | 3.3 | <0.4 | <0.4 | <0.4 | <1 | 1.0 | <0.4 | <0.4 |
| Chromium (Total)* | 5 | 500 | 300 | 200 | 12 | 13 | 22 | <5 | <5 | <5 | 2 | 63 | <5 | 8 |
| Copper | 5 | 30000 | 17000 | 110 | 30 | 45 | 150 | <8 | <8 | <8 | <5 | 110 | <5 | 9.5 |
| Lead | 5 | 12000 | 600 | 1100 | 160 | 280 | 100 | <8 | <8 | <8 | <5 | 710 | <5 | 31 |
| Mercury ** | 0.1 | 120 | 80 | NE | 0.1 | 0.1 | 0.2 | <0.1 | <0.1 | <0.1 | - | 0.5 | <0.1 | <0.1 |
| Nickel | 5 | 12000 | 1200 | 30 | 11 | 18 | 53 | <5 | <5 | <5 | <2 | 12 | <5 | 7.5 |
| Zinc | 5 | 60000 | 30000 | 330 | 990 | 1900 | 2400 | <5 | 16 | 19 | 17 | 850 | <5 | 250 |

Notes:
 All units in mg/kg unless otherwise noted
 1. NEPM 2013 Health investigation levels for soil contaminants - Residential B with minimal opportunities for soil access
 2. NEPM 2013 Health investigation levels for soil contaminants - Recreational C - Public open spaces
 3. NEPM 2013 EILs (urban residential/public open space)
 LOR - Limits of Reporting
 * criteria for Chromium (VI) shown
 ** criteria for mercury (inorganic) shown
 QS-1 - duplicate of primary sample SB27/3.8
 QS-1A - triplicate of primary sample SB27/3.8
 QS2 - duplicate of primary sample SB14/0.2
 QS2A - triplicate of primary sample SB14/0.2
 QS3 - duplicate of primary sample SB22/6.0
 QS3A - triplicate of primary sample SB22/6.0



**TABLE 4:
SUMMARY OF SOIL ANALYTICAL RESULTS - HEAVY METALS
146-154 O'RIORDAN STREET, MASCOT, NSW**

| Sample ID | | | | | SB17/7.5 | SB18/0.2 | SB18/1.0 | SB19/0.8 | SB19/1.5 | SB19/3.7 | SB20/0.3 | SB20/1.0 | SB20/1.5 | SB20/3.8 |
|-------------------|-----|--------------------|--------------------|------------------|------------|------------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Sample Date | | | | | 10/08/2018 | 10/08/2018 | 10/08/2018 | 8/08/2018 | 8/08/2018 | 8/08/2018 | 8/08/2018 | 8/08/2018 | 8/08/2018 | 8/08/2018 |
| Metal | LOR | HIL B ¹ | HIL C ² | EIL ³ | | | | | | | | | | |
| Arsenic | 2 | 500 | 300 | 40 | <2 | <2 | 4.9 | 4 | 8.6 | <2 | 6.9 | 3.2 | 5.8 | <2 |
| Cadmium | 0.4 | 150 | 90 | NE | <0.4 | <0.4 | <0.4 | <0.4 | 1.5 | <0.4 | 0.5 | <0.4 | <0.4 | <0.4 |
| Chromium (Total)* | 5 | 500 | 300 | 200 | <5 | <5 | 21 | 24 | 24 | <5 | 28 | 39 | 38 | <5 |
| Copper | 5 | 30000 | 17000 | 110 | <5 | <5 | 37 | 30 | 26 | <5 | 47 | 89 | 35 | <5 |
| Lead | 5 | 1200 | 600 | 1100 | 11 | 8.4 | 620 | 89 | 34 | <5 | 200 | 90 | 460 | <5 |
| Mercury ** | 0.1 | 120 | 80 | NE | <0.1 | <0.1 | 0.1 | 0.1 | <0.1 | <0.1 | 0.2 | 0.5 | 0.2 | <0.1 |
| Nickel | 5 | 1200 | 1200 | 30 | <5 | <5 | 21 | 58 | 120 | <5 | 66 | 290 | 71 | <5 |
| Zinc | 5 | 60000 | 30000 | 330 | 61 | 9.3 | 1000 | 860 | 320 | <5 | 810 | 92 | 170 | <5 |

Notes:

All units in mg/kg unless otherwise noted

1. NEPM 2013 Health investigation levels for soil contaminants - Residential B with minimal opportunities for soil access

2. NEPM 2013 Health investigation levels for soil contaminants - Recreational C - Public open spaces

3. NEPM 2013 EILs (urban residential/public open space)

LOR - Limits of Reporting

* criteria for Chromium (VI) shown

** criteria for mercury (inorganic) shown

Q3-1 - duplicate of primary sample SB27/3.8

Q3-1A - triplicate of primary sample SB27/3.8

Q32 - duplicate of primary sample SB14/0.2

Q32A - triplicate of primary sample SB14/0.2

Q33 - duplicate of primary sample SB22/6.0

Q33A - triplicate of primary sample SB22/6.0



**TABLE 4:
SUMMARY OF SOIL ANALYTICAL RESULTS - HEAVY METALS
146-154 O'RIORDAN STREET, MASCOT, NSW**

| Sample ID | | | | | SB20/12.0 | SB21/0.15 | SB22/0.5 | SB22/1.3 | SB22/6.0 | Q53 | Q53A | SB23/0.4 | SB24/0.3 | SB25/0.25 |
|-------------------|-----|--------------------|--------------------|------------------|-----------|------------|------------|------------|------------|------|------|------------|------------|------------|
| Sample Date | | | | | 8/08/2018 | 13/08/2018 | 13/08/2018 | 13/08/2018 | 13/08/2018 | | | 14/08/2018 | 14/08/2018 | 14/08/2018 |
| Metal | LOR | HIL B ¹ | HIL C ² | EIL ³ | | | | | | | | | | |
| Arsenic | 2 | 500 | 300 | 40 | 3.9 | 4.8 | 3.7 | <2 | <2 | <2 | <5 | 2.0 | 2.7 | 3.9 |
| Cadmium | 0.4 | 150 | 90 | NE | <0.4 | <0.4 | 0.7 | <0.4 | <0.4 | <0.4 | <1 | <0.4 | <0.4 | <0.4 |
| Chromium (Total)* | 5 | 500 | 300 | 200 | <5 | 13 | 13 | <5 | <5 | <5 | <2 | <5 | 12 | 17 |
| Copper | 5 | 30000 | 17000 | 110 | <5 | 220 | 32 | 9.9 | <5 | <5 | <5 | 13 | 10 | 12 |
| Lead | 5 | 12000 | 600 | 1100 | <5 | 310 | 150 | 25 | <5 | <5 | <5 | 33 | 50 | 43 |
| Mercury ** | 0.1 | 120 | 80 | NE | <0.1 | 0.2 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 | <0.1 |
| Nickel | 5 | 12000 | 1200 | 30 | <5 | 26 | 12 | <5 | <5 | <2 | <2 | 7.1 | 14 | 12 |
| Zinc | 5 | 60000 | 30000 | 330 | 12 | 570 | 910 | 240 | 9.1 | 11 | 9 | 200 | 190 | 520 |

Notes:
 All units in mg/kg unless otherwise noted
 1. NEPM 2013 Health investigation levels for soil contaminants - Residential B with minimal opportunities for soil access
 2. NEPM 2013 Health investigation levels for soil contaminants - Recreational C - Public open spaces
 3. NEPM 2013 EILs (urban residential/public open space)
 LOR - Limits of Reporting
 * criteria for Chromium (VI) shown
 ** criteria for mercury (inorganic) shown
 Q5-1 - duplicate of primary sample SB27/3.8
 Q5-1A - triplicate of primary sample SB27/3.8
 Q52 - duplicate of primary sample SB14/0.2
 Q52A - triplicate of primary sample SB14/0.2
 Q53 - duplicate of primary sample SB22/6.0
 Q53A - triplicate of primary sample SB22/6.0



**TABLE 4:
SUMMARY OF SOIL ANALYTICAL RESULTS - HEAVY METALS
146-154 O'RIORDAN STREET, MASCOT, NSW**

| Sample ID | | | | | SB26/0.2 | SB26/1.5-2.0 | SB26/4.0 | SB26/6.0 | SB27/0.5 | SB27/3.8 | QS1 | QS1A | SB27/6.0 |
|-------------------|-----|--------------------|--------------------|------------------|------------|--------------|------------|------------|-----------|-----------|------|------|-----------|
| Sample Date | | | | | 10/08/2018 | 10/08/2018 | 10/08/2018 | 10/08/2018 | 8/08/2018 | 8/08/2018 | | | 8/08/2018 |
| Metal | LOR | HIL B ¹ | HIL C ² | EIL ³ | | | | | | | | | |
| Arsenic | 2 | 500 | 300 | 20 | 3.5 | 46 | <2 | <2 | 4.8 | <2 | <2 | 2 | <2 |
| Cadmium | 0.4 | 150 | 90 | NE | <0.4 | 1.1 | <0.4 | <0.4 | 7.8 | <0.4 | <0.4 | <1 | <0.4 |
| Chromium (Total)* | 5 | 500 | 300 | 200 | 17 | 77 | <5 | <5 | 38 | <5 | <5 | <2 | <5 |
| Copper | 5 | 30000 | 17000 | 110 | 25 | 290 | <5 | <5 | 66 | <5 | <5 | <5 | <5 |
| Lead | 5 | 1200 | 600 | 1100 | 120 | 9000 | 99 | 11 | 440 | <5 | <5 | <5 | <5 |
| Mercury ** | 0.1 | 120 | 80 | NE | 0.2 | 0.2 | <0.1 | <0.1 | 0.1 | <0.1 | <0.1 | - | <0.1 |
| Nickel | 5 | 1200 | 1200 | 30 | 19 | 76 | <5 | <5 | 84 | <5 | <5 | 4 | <5 |
| Zinc | 5 | 60000 | 30000 | 330 | 430 | 2700 | 12 | <5 | 1500 | 5.4 | <5 | 10 | <5 |

Notes:

All units in mg/kg unless otherwise noted

1. NEPM 2013 Health investigation levels for soil contaminants - Residential B with minimal opportunities for soil access

2. NEPM 2013 Health investigation levels for soil contaminants - Recreational C - Public open spaces

3. NEPM 2013 EILs (urban residential/public open space)

LOR - Limits of Reporting

* criteria for Chromium (VI) shown

** criteria for mercury (inorganic) shown

QS-1 - duplicate of primary sample SB27/3.8

QS-1A - triplicate of primary sample SB27/3.8

QS2 - duplicate of primary sample SB14/0.2

QS2A - triplicate of primary sample SB14/0.2

QS3 - duplicate of primary sample SB22/6.0

QS3A - triplicate of primary sample SB22/6.0



**TABLE 5:
SUMMARY OF SOIL ANALYTICAL RESULTS - OCPs & OPPs
146-154 O'RIORDAN STREET, MASCOT, NSW**

| Sample ID | | | | SB1/0.5 | SB6/0.4 | SB6/3.2 | SB10/0.5 | SB10/0.2 | SB11/5.0 | SB14/0.5 | SB14/3.8 | SB14/10.0 | SB17/1.0 |
|------------------------------|------|-------------------|-------------------|---|-----------|-----------|------------|-----------|-----------|------------|------------|------------|------------|
| Sample Date | | | | 9/08/2018 | 9/08/2018 | 9/08/2018 | 10/08/2018 | 9/08/2018 | 9/08/2018 | 10/08/2018 | 10/08/2018 | 10/08/2018 | 10/08/2018 |
| OCP | LOR | HL B ¹ | HL C ² | EILs for Urban Residential and Public Open Space ³ | | | | | | | | | |
| 4,4'-DDD | 0.05 | 600 | 400 | NE | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| 4,4'-DDE | 0.05 | 600 | 400 | NE | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| 4,4'-DDT | 0.05 | 600 | 400 | 180 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| p-BHC | 0.05 | NE | NE | NE | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Aldrin | 0.05 | NE | NE | NE | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Aldrin and Dieldrin (Total)* | 0.05 | 10 | 10 | NE | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| γ-BHC | 0.05 | NE | NE | NE | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Chlordane - Total | 0.1 | 90 | 70 | NE | 0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| δ-BHC | 0.05 | NE | NE | NE | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| DDT + DDE + DDD (Total)* | 0.05 | 600 | 400 | NE | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Dieldrin | 0.05 | NE | NE | NE | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Endosulfan I | 0.05 | 400 | 340 | NE | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Endosulfan II | 0.05 | 400 | 340 | NE | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Endosulfan sulphate | 0.05 | 400 | 340 | NE | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Endrin | 0.05 | 20 | 20 | NE | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Endrin aldehyde | 0.05 | 20 | 20 | NE | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Endrin ketone | 0.05 | 20 | 20 | NE | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| p-BHC (Lindane) | 0.05 | NE | NE | NE | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Heptachlor | 0.05 | 10 | 10 | NE | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Heptachlor epoxide | 0.05 | 10 | 10 | NE | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Hexachlorobenzene | 0.05 | 15 | 10 | NE | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Methoxychlor | 0.05 | 500 | 400 | NE | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Toxaphene | 1 | 30 | 30 | NE | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| OPP | LOR | HL B ¹ | HL C ² | EILs for Urban Residential and Public Open Space ³ | | | | | | | | | |
| Azinphos-methyl | 0.2 | NE | NE | NE | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Belstar | 0.2 | NE | NE | NE | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Chlorfenvinphos | 0.2 | NE | NE | NE | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Chlorpyrifos | 0.2 | 340 | 250 | NE | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Chlorpyrifos-methyl | 0.2 | NE | NE | NE | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Coumaphos | 2 | NE | NE | NE | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| Demeton-O | 0.2 | NE | NE | NE | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Demeton-S | 0.2 | NE | NE | NE | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Diazinon | 0.2 | NE | NE | NE | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Dichlorvos | 0.2 | NE | NE | NE | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Dimethoate | 0.2 | NE | NE | NE | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Disulfoton | 0.2 | NE | NE | NE | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| EPN | 0.2 | NE | NE | NE | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Ethion | 0.2 | NE | NE | NE | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Ethoprop | 0.2 | NE | NE | NE | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Ethyl parathion | 0.2 | NE | NE | NE | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Fenitrothion | 0.2 | NE | NE | NE | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Fensulfethion | 0.2 | NE | NE | NE | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Fenitrothion | 0.2 | NE | NE | NE | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Malathion | 0.2 | NE | NE | NE | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Merphos | 0.2 | NE | NE | NE | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Methyl parathion | 0.2 | NE | NE | NE | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Mevinphos | 0.2 | NE | NE | NE | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Monocrotophos | 2 | NE | NE | NE | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| Naled | 0.2 | NE | NE | NE | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Ormethoate | 2 | NE | NE | NE | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| Phorate | 0.2 | NE | NE | NE | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Pyrimiphos-methyl | 0.2 | NE | NE | NE | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Pyrazophos | 0.2 | NE | NE | NE | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Rozenil | 0.2 | NE | NE | NE | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Terbufos | 0.2 | NE | NE | NE | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Tetrachlorvinphos | 0.2 | NE | NE | NE | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Foluthion | 0.2 | NE | NE | NE | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Trichlorfonate | 0.2 | NE | NE | NE | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |

Notes:
 All units in mg/kg unless otherwise noted
 1. NEMP 2013 Health investigation levels for soil contaminants - Residential B with minimal opportunities for soil access
 2. NEMP 2013 Health investigation levels for soil contaminants - Recreational C - Public open spaces
 3. NEMP 2013 EILs (urban residential/public open space)
 LOR - Limits of Reporting



**TABLE 5:
SUMMARY OF SOIL ANALYTICAL RESULTS - OCPs & OPPs
146-154 O'RIORDAN STREET, MASCOT, NSW**

| Sample ID | Sample Date | | | | | | | | | | | | | | | |
|--|-------------|-------------------|-------------------|--|-----------|-----------|------------|------------|------------|------------|-----------|-------|-------|-------|-------|-------|
| | SB17/9.0 | SB18/0.2 | SB19/0.1 | SB19/2.5 | SB20/0.3 | SB20/3.0 | SB22/0.1 | SB26/0.5 | SB26/3.0 | SB26/8.0 | SB27/0.2 | | | | | |
| Sample Date | 10/08/2018 | 10/08/2018 | 8/08/2018 | 8/08/2018 | 8/08/2018 | 8/08/2018 | 13/08/2018 | 10/08/2018 | 10/08/2018 | 10/08/2018 | 8/08/2018 | | | | | |
| OCF | LOR | HL B ¹ | HL C ² | ELs for Urban Residential and Public Open Space ³ | | | | | | | | | | | | |
| 4,4'-DDD | 0.05 | 600 | 400 | NE | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| 4,4'-DDE | 0.05 | 600 | 400 | NE | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| 4,4'-DDT | 0.05 | 600 | 400 | 180 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| p-BHC | 0.05 | NE | NE | NE | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Aldrin | 0.05 | NE | NE | NE | <0.05 | <0.05 | <0.05 | 0.07 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Aldrin and Dieldrin (Total) ⁴ | 0.05 | 10 | 10 | NE | <0.05 | <0.05 | <0.05 | 0.11 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| o-BHC | 0.05 | NE | NE | NE | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Chlordane - Total | 0.1 | 90 | 70 | NE | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| p-BHC | 0.05 | NE | NE | NE | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| DOT + DDE + DDD (Total) ⁵ | 0.05 | 600 | 400 | NE | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Dieldrin | 0.05 | NE | NE | NE | <0.05 | <0.05 | <0.05 | 0.24 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Endosulfan I | 0.05 | 400 | 340 | NE | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Endosulfan II | 0.05 | 400 | 340 | NE | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Endosulfan sulphate | 0.05 | 400 | 340 | NE | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Endrin | 0.05 | 70 | 20 | NE | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Endrin aldehyde | 0.05 | 70 | 20 | NE | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Endrin ketone | 0.05 | 20 | 20 | NE | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| g-BHC (Lindane) | 0.05 | NE | NE | NE | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Heptachlor | 0.05 | 10 | 10 | NE | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Heptachlor epoxide | 0.05 | 10 | 10 | NE | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Hexachlorobenzene | 0.05 | 15 | 10 | NE | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Methoxychlor | 0.05 | 500 | 400 | NE | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Toxaphene | 1 | 30 | 30 | NE | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| OPP | LOR | HL B ¹ | HL C ² | ELs for Urban Residential and Public Open Space ³ | | | | | | | | | | | | |
| Azinphos-methyl | 0.2 | NE | NE | NE | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Rotenone | 0.2 | NE | NE | NE | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Chlorfenvinphos | 0.2 | NE | NE | NE | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Chlorpyrifos | 0.2 | 140 | 250 | NE | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Chlorpyrifos-methyl | 0.2 | NE | NE | NE | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Coumaphos | 2 | NE | NE | NE | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| Demeton-O | 0.2 | NE | NE | NE | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Demeton-S | 0.2 | NE | NE | NE | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Diazinon | 0.2 | NE | NE | NE | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Dichlorvos | 0.2 | NE | NE | NE | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Dimethoate | 0.2 | NE | NE | NE | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Disulfoton | 0.2 | NE | NE | NE | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| EPN | 0.2 | NE | NE | NE | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Ethion | 0.2 | NE | NE | NE | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Ethionprop | 0.2 | NE | NE | NE | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Ethyl parathion | 0.2 | NE | NE | NE | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Fenitrothion | 0.2 | NE | NE | NE | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Fenvalerthion | 0.2 | NE | NE | NE | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Fenprothion | 0.2 | NE | NE | NE | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Malathion | 0.2 | NE | NE | NE | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Mephos | 0.2 | NE | NE | NE | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Methyl parathion | 0.2 | NE | NE | NE | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Mevinphos | 0.2 | NE | NE | NE | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Monocrotophos | 2 | NE | NE | NE | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| Naled | 0.2 | NE | NE | NE | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Omethoate | 2 | NE | NE | NE | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| Phorate | 0.2 | NE | NE | NE | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Primiphos-methyl | 0.2 | NE | NE | NE | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Pyrazophos | 0.2 | NE | NE | NE | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Rotenol | 0.2 | NE | NE | NE | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Terbufos | 0.2 | NE | NE | NE | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Tetrachlorvinphos | 0.2 | NE | NE | NE | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Toluthion | 0.2 | NE | NE | NE | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Trichloronate | 0.2 | NE | NE | NE | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |

Notes:
 All units in mg/kg unless otherwise noted
 1. NEM 2013 Health investigation levels for soil contaminants - Residential B with minimal opportunities for soil access
 2. NEM 2013 Health investigation levels for soil contaminants - Recreational C - Public open spaces
 3. NEM 2013 ELs (urban residential/public open space)
 LOR - Limits of Reporting



**TABLE 6:
SUMMARY OF SOIL ANALYTICAL RESULTS - PCB & PHENOLS
146-154 O'RIORDAN STREET, MASCOT, NSW**

| Sample ID | | | | SB1/0.5 | SB4/0.2 | SB6/0.4 | SB6/3.2 | SB6/4.8 | SB7/0.25 | SB8/0.15 | SB9/0.25 | SB10/0.5 | SB11/0.2 |
|--------------------------------|-----|--------------------|--------------------|-----------|------------|-----------|-----------|-----------|------------|------------|------------|------------|-----------|
| Sample Date | | | | 9/08/2018 | 14/08/2018 | 9/08/2018 | 9/08/2018 | 9/08/2018 | 14/08/2018 | 14/08/2018 | 14/08/2018 | 10/08/2018 | 9/08/2018 |
| PCB | LOR | HIL B ¹ | HIL C ² | | | | | | | | | | |
| Total PCB | 0.1 | 1 | 1 | <0.1 | - | <1 | <0.1 | - | - | - | - | <0.1 | <0.1 |
| Phenols | LOR | HIL B ¹ | HIL C ² | | | | | | | | | | |
| 2,4,5-Trichlorophenol | 1 | NE | NE | - | <1 | - | - | <1 | <1 | <1 | <1 | - | - |
| 2,4,6-Trichlorophenol | 1 | NE | NE | - | <1 | - | - | <1 | <1 | <1 | <1 | - | - |
| 2,4-Dichlorophenol | 0.5 | NE | NE | - | <0.5 | - | - | <0.5 | <0.5 | <0.5 | <0.5 | - | - |
| 2,6-Dichlorophenol | 0.5 | NE | NE | - | <0.5 | - | - | <0.5 | <0.5 | <0.5 | <0.5 | - | - |
| 2-Chlorophenol | 0.5 | NE | NE | - | <0.5 | - | - | <0.5 | <0.5 | <0.5 | <0.5 | - | - |
| 4-Chloro-3-methylphenol | 1 | NE | NE | - | <1 | - | - | <1 | <1 | <1 | <1 | - | - |
| Pentachlorophenol | 1 | 130 | 120 | - | <1 | - | - | <1 | <1 | <1 | <1 | - | - |
| Tetrachlorophenols - Total | 1 | NE | NE | - | <1 | - | - | <1 | <1 | <1 | <1 | - | - |
| Total Halogenated Phenol | 1 | NE | NE | - | <1 | - | - | <1 | <1 | <1 | <1 | - | - |
| 2,4-Dimethylphenol | 0.5 | NE | NE | - | <0.5 | - | - | <0.5 | <0.5 | <0.5 | <0.5 | - | - |
| 2,4-Dinitrophenol | 5 | NE | NE | - | <5 | - | - | <5 | <5 | <5 | <5 | - | - |
| 2-Cyclohexyl-4,6-dinitrophenol | 20 | NE | NE | - | <20 | - | - | <20 | <20 | <20 | <20 | - | - |
| 2-Methyl-4,6-dinitrophenol | 5 | NE | NE | - | <5 | - | - | <5 | <5 | <5 | <5 | - | - |
| 2-Methylphenol (o-Cresol) | 0.2 | 4700 | 4000 | - | <0.2 | - | - | <0.2 | <0.2 | <0.2 | <0.2 | - | - |
| 2-Nitrophenol | 1 | NE | NE | - | <1 | - | - | <1 | <1 | <1 | <1 | - | - |
| 3&4-Methylphenol (m&p-Cresol) | 0.4 | 4700 | 4000 | - | <0.4 | - | - | <0.4 | <0.4 | <0.4 | <0.4 | - | - |
| 4-Nitrophenol | 5 | NE | NE | - | <5 | - | - | <5 | <5 | <5 | <5 | - | - |
| Dinoseb | 20 | NE | NE | - | <20 | - | - | <20 | <20 | <20 | <20 | - | - |
| Phenol | 0.5 | 45000 | 40000 | - | <0.5 | - | - | <0.5 | <0.5 | <0.5 | <0.5 | - | - |
| Total Non-Halogenated Phenol | 20 | NE | NE | - | <20 | - | - | <20 | <20 | <20 | <20 | - | - |

Notes:

All units in mg/kg unless otherwise noted

1. NEPM 2013 Health Investigation levels for soil contaminants - Residential

B with minimal opportunities for soil access

2. NEPM 2013 Health Investigation levels for soil contaminants -

Recreational C - Public open spaces

LOR - Limits of Reporting

- indicates analysis not requested



**TABLE 6:
SUMMARY OF SOIL ANALYTICAL RESULTS - PCB & PHENOLS
146-154 O'RIORDAN STREET, MASCOT, NSW**

| Sample ID | | | | SB11/0.5 | SB11/4.4 | SB11/5.0 | SB14/0.5 | SB14/3.8 | SB14/10.0 | SB17/1.0 | SB17/7.5 | SB17/9.0 | SB18/0.2 |
|--------------------------------|-----|--------------------|--------------------|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|
| Sample Date | | | | 9/08/2018 | 9/08/2018 | 9/08/2018 | 10/08/2018 | 10/08/2018 | 10/08/2018 | 10/08/2018 | 10/08/2018 | 10/08/2018 | 10/08/2018 |
| PCB | | | | | | | | | | | | | |
| Total PCB | LOR | HIL B ¹ | HIL C ² | - | - | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | - | <0.1 | <0.1 |
| Phenols | | | | | | | | | | | | | |
| 2,4,5-Trichlorophenol | LOR | HIL B ¹ | HIL C ² | <1 | <1 | - | - | - | - | - | <1 | - | - |
| 2,4,6-Trichlorophenol | 1 | NE | NE | <1 | <1 | - | - | - | - | - | <1 | - | - |
| 2,4-Dichlorophenol | 0.5 | NE | NE | <0.5 | <0.5 | - | - | - | - | - | <0.5 | - | - |
| 2,6-Dichlorophenol | 0.5 | NE | NE | <0.5 | <0.5 | - | - | - | - | - | <0.5 | - | - |
| 2-Chlorophenol | 0.5 | NE | NE | <0.5 | <0.5 | - | - | - | - | - | <0.5 | - | - |
| 4-Chloro-3-methylphenol | 1 | NE | NE | <1 | <1 | - | - | - | - | - | <1 | - | - |
| Pentachlorophenol | 1 | 130 | 120 | <1 | <1 | - | - | - | - | - | <1 | - | - |
| Tetrachlorophenols - Total | 1 | NE | NE | <1 | <1 | - | - | - | - | - | <1 | - | - |
| Total Halogenated Phenol | 1 | NE | NE | <1 | <1 | - | - | - | - | - | <1 | - | - |
| 2,4-Dimethylphenol | 0.5 | NE | NE | <0.5 | <0.5 | - | - | - | - | - | <0.5 | - | - |
| 2,4-Dinitrophenol | 5 | NE | NE | <5 | <5 | - | - | - | - | - | <5 | - | - |
| 2-Cyclohexyl-4,6-dinitrophenol | 20 | NE | NE | <20 | <20 | - | - | - | - | - | <20 | - | - |
| 2-Methyl-4,6-dinitrophenol | 5 | NE | NE | <5 | <5 | - | - | - | - | - | <5 | - | - |
| 2-Methylphenol (o-Cresol) | 0.2 | 4700 | 4000 | <0.2 | <0.2 | - | - | - | - | - | <0.2 | - | - |
| 2-Nitrophenol | 1 | NE | NE | <1 | <1 | - | - | - | - | - | <1 | - | - |
| 3&4-Methylphenol (m&p-Cresol) | 0.4 | 4700 | 4000 | <0.4 | <0.4 | - | - | - | - | - | <0.4 | - | - |
| 4-Nitrophenol | 5 | NE | NE | <5 | <5 | - | - | - | - | - | <5 | - | - |
| Dinoseb | 20 | NE | NE | <20 | <20 | - | - | - | - | - | <20 | - | - |
| Phenol | 0.5 | 45000 | 40000 | <0.5 | <0.5 | - | - | - | - | - | <0.5 | - | - |
| Total Non-Halogenated Phenol | 20 | NE | NE | <20 | <20 | - | - | - | - | - | <20 | - | - |

Notes:

All units in mg/kg unless otherwise noted

1. NEPM 2013 Health Investigation levels for soil contaminants - Residential

B with minimal opportunities for soil access

2. NEPM 2013 Health Investigation levels for soil contaminants -

Recreational C - Public open spaces

LOR - Limits of Reporting

- indicates analysis not requested



**TABLE 6:
SUMMARY OF SOIL ANALYTICAL RESULTS - PCB & PHENOLS
146-154 O'RIORDAN STREET, MASCOT, NSW**

| Sample ID | | | | SB18/1.0 | SB19/0.8 | SB19/2.5 | SB19/3.7 | SB20/0.3 | SB20/3.0 | SB20/3.8 | SB20/12.0 | SB21/0.15 | SB22/0.1 |
|--------------------------------|-----|--------------------|--------------------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|
| Sample Date | | | | 10/08/2018 | 8/08/2018 | 8/08/2018 | 8/08/2018 | 8/08/2018 | 8/08/2018 | 8/08/2018 | 8/08/2018 | 13/08/2018 | 13/08/2018 |
| PCB | | | | | | | | | | | | | |
| Total PCB | LOR | HIL B ¹ | HIL C ² | - | <0.1 | <0.1 | - | <0.1 | <0.1 | - | - | - | <0.1 |
| Phenols | | | | | | | | | | | | | |
| | LOR | HIL B ¹ | HIL C ² | | | | | | | | | | |
| 2,4,5-Trichlorophenol | 1 | NE | NE | <1 | - | - | <1 | - | - | <1 | <1 | <1 | - |
| 2,4,6-Trichlorophenol | 1 | NE | NE | <1 | - | - | <1 | - | - | <1 | <1 | <1 | - |
| 2,4-Dichlorophenol | 0.5 | NE | NE | <0.5 | - | - | <0.5 | - | - | <0.5 | <0.5 | <0.5 | - |
| 2,6-Dichlorophenol | 0.5 | NE | NE | <0.5 | - | - | <0.5 | - | - | <0.5 | <0.5 | <0.5 | - |
| 2-Chlorophenol | 0.5 | NE | NE | <0.5 | - | - | <0.5 | - | - | <0.5 | <0.5 | <0.5 | - |
| 4-Chloro-3-methylphenol | 1 | NE | NE | <1 | - | - | <1 | - | - | <1 | <1 | <1 | - |
| Pentachlorophenol | 1 | 130 | 120 | <1 | - | - | <1 | - | - | <1 | <1 | <1 | - |
| Tetrachlorophenols - Total | 1 | NE | NE | <1 | - | - | <1 | - | - | <1 | <1 | <1 | - |
| Total Halogenated Phenol | 1 | NE | NE | <1 | - | - | <1 | - | - | <1 | <1 | <1 | - |
| 2,4-Dimethylphenol | 0.5 | NE | NE | <0.5 | - | - | <0.5 | - | - | <0.5 | <0.5 | <0.5 | - |
| 2,4-Dinitrophenol | 5 | NE | NE | <5 | - | - | <5 | - | - | <5 | <5 | <5 | - |
| 2-Cyclohexyl-4,6-dinitrophenol | 20 | NE | NE | <20 | - | - | <20 | - | - | <20 | <20 | <20 | - |
| 2-Methyl-4,6-dinitrophenol | 5 | NE | NE | <5 | - | - | <5 | - | - | <5 | <5 | <5 | - |
| 2-Methylphenol (o-Cresol) | 0.2 | 4700 | 4000 | <0.2 | - | - | <0.2 | - | - | <0.2 | <0.2 | <0.2 | - |
| 2-Nitrophenol | 1 | NE | NE | <1 | - | - | <1 | - | - | <1 | <1 | <1 | - |
| 3&4-Methylphenol (m&p-Cresol) | 0.4 | 4700 | 4000 | <0.4 | - | - | <0.4 | - | - | <0.4 | <0.4 | <0.4 | - |
| 4-Nitrophenol | 5 | NE | NE | <5 | - | - | <5 | - | - | <5 | <5 | <5 | - |
| Di-noseb | 20 | NE | NE | <20 | - | - | <20 | - | - | <20 | <20 | <20 | - |
| Phenol | 0.5 | 45000 | 40000 | <0.5 | - | - | <0.5 | - | - | <0.5 | <0.5 | <0.5 | - |
| Total Non-Halogenated Phenol | 20 | NE | NE | <20 | - | - | <20 | - | - | <20 | <20 | <20 | - |

Notes:

All units in mg/kg unless otherwise noted

1. NEPM 2013 Health investigation levels for soil contaminants - Residential

B with minimal opportunities for soil access

2. NEPM 2013 Health investigation levels for soil contaminants -

Recreational C - Public open spaces

LOR - Limits of Reporting

- indicates analysis not requested



**TABLE 6:
SUMMARY OF SOIL ANALYTICAL RESULTS - PCB & PHENOLS
146-154 O'RIORDAN STREET, MASCOT, NSW**

| Sample ID | | | | SB22/1.3 | SB23/0.4 | SB24/0.3 | SB25/0.25 | SB26/0.5 | SB26/1.5-2.0 | SB26/3.0 | SB26/8.0 | SB27/0.2 | SB27/6.0 |
|--------------------------------|-----|--------------------|--------------------|------------|------------|------------|------------|------------|--------------|------------|------------|-----------|-----------|
| Sample Date | | | | 13/08/2018 | 14/08/2018 | 14/08/2018 | 14/08/2018 | 10/08/2018 | 10/08/2018 | 10/08/2018 | 10/08/2018 | 8/08/2018 | 8/08/2018 |
| PCB | LOR | HIL B ¹ | HIL C ² | | | | | | | | | | |
| Total PCB | 0.1 | 1 | 1 | - | - | - | - | <0.1 | - | <0.1 | <0.1 | <0.1 | - |
| Phenols | LOR | HIL B ¹ | HIL C ² | | | | | | | | | | |
| 2,4,5-Trichlorophenol | 1 | NE | NE | <1 | <1 | <1 | <1 | * | <1 | - | - | - | <1 |
| 2,4,6-Trichlorophenol | 1 | NE | NE | <1 | <1 | <1 | <1 | * | <1 | - | - | - | <1 |
| 2,4-Dichlorophenol | 0.5 | NE | NE | <0.5 | <0.5 | <0.5 | <0.5 | * | <0.5 | - | - | - | <0.5 |
| 2,6-Dichlorophenol | 0.5 | NE | NE | <0.5 | <0.5 | <0.5 | <0.5 | * | <0.5 | - | - | - | <0.5 |
| 2-Chlorophenol | 0.5 | NE | NE | <0.5 | <0.5 | <0.5 | <0.5 | * | <0.5 | - | - | - | <0.5 |
| 4-Chloro-3-methylphenol | 1 | NE | NE | <1 | <1 | <1 | <1 | * | <1 | - | - | - | <1 |
| Pentachlorophenol | 1 | 130 | 120 | <1 | <1 | <1 | <1 | * | <1 | - | - | - | <1 |
| Tetrachlorophenols - Total | 1 | NE | NE | <1 | <1 | <1 | <1 | * | <1 | - | - | - | <1 |
| Total Halogenated Phenol | 1 | NE | NE | <1 | <1 | <1 | <1 | * | <1 | - | - | - | <1 |
| 2,4-Dimethylphenol | 0.5 | NE | NE | <0.5 | <0.5 | <0.5 | <0.5 | * | <0.5 | - | - | - | <0.5 |
| 2,4-Dinitrophenol | 5 | NE | NE | <5 | <5 | <5 | <5 | * | <5 | - | - | - | <5 |
| 2-Cyclohexyl-4,6-dinitrophenol | 20 | NE | NE | <20 | <20 | <20 | <20 | * | <20 | - | - | - | <20 |
| 2-Methyl-4,6-dinitrophenol | 5 | NE | NE | <5 | <5 | <5 | <5 | * | <5 | - | - | - | <5 |
| 2-Methylphenol (o-Cresol) | 0.2 | 4700 | 4000 | <0.2 | <0.2 | <0.2 | <0.2 | * | <0.2 | - | - | - | <0.2 |
| 2-Nitrophenol | 1 | NE | NE | <1 | <1 | <1 | <1 | * | <1 | - | - | - | <1 |
| 3&4-Methylphenol (m&p-Cresol) | 0.4 | 4700 | 4000 | <0.4 | <0.4 | <0.4 | <0.4 | * | <0.4 | - | - | - | <0.4 |
| 4-Nitrophenol | 5 | NE | NE | <5 | <5 | <5 | <5 | * | <5 | - | - | - | <5 |
| Dinoseb | 20 | NE | NE | <20 | <20 | <20 | <20 | * | <20 | - | - | - | <20 |
| Phenol | 0.5 | 45000 | 40000 | <0.5 | <0.5 | <0.5 | <0.5 | * | <0.5 | - | - | - | <0.5 |
| Total Non-Halogenated Phenol | 20 | NE | NE | <20 | <20 | <20 | <20 | * | <20 | - | - | - | <20 |

Notes:

All units in mg/kg unless otherwise noted

1. NEPM 2013 Health Investigation levels for soil contaminants - Residential

B with minimal opportunities for soil access

2. NEPM 2013 Health Investigation levels for soil contaminants -

Recreational C - Public open spaces

LOR - Limits of Reporting

- indicates analysis not requested



**TABLE 7:
SUMMARY OF SOIL ANALYTICAL RESULTS - VOCs
146-154 O'RIORDAN STREET, MASCOT, NSW**

| Sample ID | | SB1/0.3 | SB11/1.6 | SB14/2.5 | SB18/0.6 | SB19/2.5 | SB26/1.5 2.0 | SB26/5.0 |
|-----------------------------|-----|-----------|-----------|------------|------------|-----------|--------------|------------|
| Sample Date | | 9/08/2018 | 9/08/2018 | 10/08/2018 | 10/08/2018 | 8/08/2018 | 10/08/2018 | 10/08/2018 |
| VOCs | LOR | | | | | | | |
| 1.1.1.2-Tetrachloroethane | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1.1.1-Trichloroethane | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1.1.2.2-Tetrachloroethane | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1.1.2-Trichloroethane | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1.1-Dichloroethane | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1.1-Dichloroethene | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1.2.3-Trichloropropane | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1.2.4-Trimethylbenzene | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 4.9 | <0.5 |
| 1.2-Dibromoethane | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1.2-Dichlorobenzene | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1.2-Dichloroethane | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1.2-Dichloropropane | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1.3.5-Trimethylbenzene | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.9 | <0.5 |
| 1.3-Dichlorobenzene | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1.3-Dichloropropane | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1.4-Dichlorobenzene | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 2-Butanone (MEK) | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 2-Propanone (Acetone) | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 4-Chlorotoluene | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 4-Methyl-2-pentanone (MIBK) | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Allyl chloride | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Bromobenzene | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Bromochloromethane | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Bromodichloromethane | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Bromoform | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Bromomethane | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Carbon disulfide | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Carbon Tetrachloride | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Chlorobenzene | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Chloroethane | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Chloroform | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Chloromethane | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| cis-1.2-Dichloroethene | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| dis-1.3-Dichloropropene | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Dibromochloromethane | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Dibromomethane | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Dichlorodifluoromethane | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Iodomethane | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Isopropyl benzene (Cumene) | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Methylene Chloride | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Styrene | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Tetrachloroethene | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| trans-1.2-Dichloroethene | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| trans-1.3-Dichloropropene | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Trichloroethene | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Trichlorofluoromethane | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Vinyl chloride | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |

Notes:

All units are in mg/kg unless otherwise noted
LOR - Limits of Reporting



**TABLE 8:
SUMMARY OF SOIL ANALYTICAL RESULTS - ASBESTOS
146-154 O'RIORDAN STREET, MASCOT, NSW**

| Sample ID | SB1/0.5 | SB4/0.2 | SB6/0.4 | SB7/0.25 | SB8/0.3 | SB9/0.25 | SB10/0.3 | SB11/1.2 | SB13/0.3 | SB14/0.2 | SB14/2.5 | SB17/1.0 | SB18/0.2 | SB18/0.6 | | | |
|-------------|------------|--|--|--------------------|------------|---------------------------------------|--------------------|---------------------|------------|------------|------------|------------|------------|------------|---------|---------|---------|
| Sample Date | 9/08/2018 | 14/08/2018 | 9/08/2018 | 14/08/2018 | 14/08/2018 | 14/08/2018 | 10/08/2018 | 9/08/2018 | 10/08/2018 | 10/08/2018 | 10/08/2018 | 10/08/2018 | 10/08/2018 | 10/08/2018 | | | |
| Depth | 0.50 | 0.2 | 0.4 | 0.25 | 0.3 | 0.3 | 0.30 | 1.2 | 0.3 | 0.2 | 2.5 | 1.0 | 0.2 | 0.6 | | | |
| Asbestos | LOR | HSL B ¹ | HSL C ² | ACM: 0.027 NRFD | ND/NRFD | ACM: 0.079 FA + AF: 0.0039 NRFD | FA: 0.0044 NRFD | AF: 0.00087 NRFD | ND/NRFD | ND/NRFD | ND/NRFD | ND/NRFD | ND/NRFD | ND/NRFD | ND/NRFD | ND/NRFD | |
| Asbestos | 0.001% w/w | 0.04% ³ , 0.001% ⁴ | 0.02% ⁵ , 0.001% ⁴ | ACM: 0.027 NRFD | ND/NRFD | ACM: 0.079 FA + AF: 0.0039 NRFD | FA: 0.0044 NRFD | AF: 0.00087 NRFD | ND/NRFD | ND/NRFD | ND/NRFD | ND/NRFD | ND/NRFD | ND/NRFD | ND/NRFD | ND/NRFD | ND/NRFD |

Notes:

LOR - Limits of Reporting

ND = No asbestos detected at the reporting limit of 0.001%

NRFD = No respirable fibres detected

1. NEPM 2013 Health Investigation levels for soil contaminants - Residential B with minimal opportunities for soil access

2. NEPM 2013 Health Investigation levels for soil contaminants - Recreational C - Public open spaces

3. NEPM 2013 Health Screening Levels - bonded/non-friable ACM

4. NEPM 2013 Health Screening Level for FA & AF asbestos

5. FA + AF detected at weight of 0.0021g

QA1 - duplicate of primary sample SB21-0.4

QA1A - triplicate of primary sample SB21-0.4

QA2 - duplicate of primary sample SB23-0.4

QA2A - triplicate of primary sample SB23-0.4



**TABLE 8:
SUMMARY OF SOIL ANALYTICAL RESULTS - ASBESTOS
146-154 O'RIORDAN STREET, MASCOT, NSW**

| Sample ID | SB19/0.8 | SB20/1.0 | SB21/0.4 | QA1 | QA1A | SB22/0.5 | SB23/0.4 | QA2 | QA2A | SB24/0.3 | SB25/0.25 | SB26/0.2 | SB27/0.2 | SB27/1.5 | | |
|-------------|------------|--|--|---------|---------|------------|----------|---|---------|----------|------------|------------|------------|-----------|--------------------|---------|
| Sample Date | 8/08/2018 | 8/08/2018 | 13/08/2018 | | | 13/08/2018 | | 14/08/2018 | | | 14/08/2018 | 14/08/2018 | 10/08/2018 | 8/08/2018 | 8/08/2018 | |
| Depth | 0.8 | 1.0 | 0.4 | 0.4 | 0.4 | 0.5 | 0.4 | 0.4 | 0.4 | 0.3 | 0.25 | 0.2 | 0.2 | 1.5 | | |
| Asbestos | LOR | HSI A ¹ | HSI C ² | | | | | | | | | | | | | |
| Asbestos | 0.001% w/w | 0.04% ³ , 0.001% ⁴ | 0.02% ³ , 0.001% ⁴ | ND/NRFD | ND/NRFD | ND/NRFD | ND/NRFD | FA + AF: <0.001 ⁵ NRFD | ND/NRFD | ND/NRFD | ND/NRFD | ND/NRFD | ND/NRFD | ND/NRFD | ACM: 0.013 NRFD | ND/NRFD |

Notes:
 LOR - Limits of Reporting
 ND = No asbestos detected at the reporting limit of 0.001%
 NRFD = No respirable fibres detected
 1. NEPM 2013 Health Investigation levels for soil contaminants - Residential B with minimal opportunities for soil access
 2. NEPM 2013 Health Investigation levels for soil contaminants - Recreational C - Public open spaces
 3. NEPM 2013 Health Screening Levels - bonded/non-friable ACM
 4. NEPM 2013 Health Screening Level for FA & AF asbestos
 5. FA + AF detected at weight of 0.0021g
 QA1 - duplicate of primary sample SB21-0.4
 QA1A - triplicate of primary sample SB21-0.4
 QA2 - duplicate of primary sample SB23-0.4
 QA2A - triplicate of primary sample SB23-0.4



**TABLE 10:
SUMMARY OF SOIL ANALYTICAL RESULTS - TCLP
146-154 O'RIORDAN STREET, MASCOT, NSW**

| Sample ID | | SB1/0.5 | SB6/1.0 | SB7/0.25 | SB14/1.2 | SB18/1.0 | SB19/1.5 | SB20/1.0 | SB21/0.15 | SB26/1.5-2.0 |
|-------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|--------------|
| Sample Date | | 10/08/2018 | 10/08/2018 | 13/08/2018 | 10/08/2018 | 10/08/2018 | 10/08/2018 | 10/08/2018 | 13/08/2018 | 10/08/2018 |
| Heavy Metals | LOR | | | | | | | | | |
| Lead | 0.01 | 0.24 | 0.04 | 0.36 | 1.1 | 1.4 | - | - | 0.10 | 3.4 |
| Nickel | 0.01 | - | 0.41 | 0.14 | - | - | 0.29 | 0.44 | - | 0.28 |
| Chromium | 0.01 | - | - | <0.01 | - | - | - | - | - | - |
| USA Leaching Procedure | | | | | | | | | | |
| Leachate Fluid | - | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| pH (initial) | 0.1 | 7.0 | 7.5 | 7.9 | 6.1 | 8.3 | 8.0 | 7.7 | 7.6 | 7.7 |
| pH (Leachate Fluid) | 0.1 | 5.1 | 5.1 | 5.1 | 5.1 | 5.1 | 5.1 | 5.1 | 5.1 | 5.1 |
| pH (off) | 0.1 | 5.3 | 5.9 | 5.4 | 5.3 | 5.6 | 5.3 | 5.1 | 5.1 | 5.6 |
| pH (USA HCl addition) | 0.1 | 2.0 | 1.8 | 2.0 | 1.9 | 1.9 | 2.0 | 2.0 | 2.0 | 2.0 |



**TABLE 11:
SUMMARY OF SOIL QUALITY ASSURANCE /
QUALITY CONTROL DATA
146-154 O'RIORDAN STREET, MASCOT, NSW**

| Sample ID | SB27/3.8 | QS1 | RPD | SB27/3.8 | QS1A | RPD | SB14/0.2 | QS2 | RPD | SB14/0.2 | QS2A | RPD |
|------------------|------------|-----------|-----|-----------|-----------|-----|------------|------------|-----|------------|------------|-----|
| Sample Date | 8/08/2018 | 8/08/2018 | | 8/08/2018 | 8/08/2018 | | 10/08/2018 | 10/08/2018 | | 10/08/2018 | 10/08/2018 | |
| Metals | LOR | | | | | | | | | | | |
| Arsenic | 2 | <2 | 0% | <2 | 2 | 67% | <2 | <2 | 0% | <2 | <2 | 0% |
| Cadmium | 0.4 | <0.4 | 0% | <0.4 | <1 | 0% | <0.4 | <0.4 | 0% | <0.4 | <1 | 0% |
| Chromium (Total) | 5 | <5 | 0% | <5 | <2 | 0% | <5 | <5 | 0% | <5 | 2 | 22% |
| Copper | 5 | <5 | 0% | <5 | <5 | 0% | <5 | <5 | 0% | <5 | <5 | 0% |
| Lead | 5 | <5 | 0% | <5 | <5 | 0% | <5 | <5 | 0% | <5 | <5 | 0% |
| Mercury | 0.1 | <0.1 | 0% | <0.1 | - | - | <0.1 | <0.1 | 0% | <0.1 | - | - |
| Nickel | 5 | <5 | 0% | <5 | 4 | 46% | <5 | <5 | 0% | <5 | <2 | 0% |
| Zinc | 5 | 5.4 | 73% | 5.4 | 10 | 60% | 16 | 19 | 17% | 16 | 17 | 6% |
| Asbestos | 0.001% w/w | - | - | - | - | - | - | - | - | - | - | - |

Notes:
All units in mg/kg
High RPDs are shaded (where applicable).
Acceptable RPDs for each LOR multiplier range are: No Limit (<10 x LOR); <30% RPD (Inorganic); and <50% RPD (Organic).

Primary samples SB27/3.8, SB14/0.2 and SB22/6.0 and duplicate/triplicate samples QS1/QS1A, QS2/QS2A and QS3A also all analysed for BTEXN, TPH/TRH and PAHs, with all results reported at concentrations <LOR.



**TABLE 11:
SUMMARY OF SOIL QUALITY ASSURANCE /
QUALITY CONTROL DATA
146-154 O'RIORDAN STREET, MASCOT, NSW**

| Sample ID | SB22/6.0 | Q53 | RPD | SB22/6.0 | Q53A | RPD | SB21/0.4 | QA1 | QA1A | SB23/0.4 | QA2 | QA2A |
|------------------|------------|------------|-----------|------------|------------|----------|------------|------------|------------|--------------------------------------|------------|------------|
| Sample Date | 13/08/2018 | 13/08/2018 | | 13/08/2018 | 13/08/2018 | | 13/08/2018 | 13/08/2018 | 13/08/2018 | 13/08/2018 | 14/08/2018 | 14/08/2018 |
| Metals | LOR | | | | | | | | | | | |
| Arsenic | 2 | <8 | <8 | 0% | <8 | <8 | 0% | - | - | - | - | - |
| Cadmium | 0.4 | <0.8 | <0.4 | 0% | <0.4 | <1 | 0% | - | - | - | - | - |
| Chromium (Total) | 5 | <8 | <8 | 0% | <8 | <2 | 22% | - | - | - | - | - |
| Copper | 5 | <8 | <8 | 0% | <8 | <8 | 0% | - | - | - | - | - |
| Lead | 5 | <8 | <8 | 0% | <8 | <5 | 0% | - | - | - | - | - |
| Mercury | 0.1 | <0.1 | <0.1 | 0% | <0.1 | - | - | - | - | - | - | - |
| Nickel | 5 | <8 | <8 | 0% | <8 | <1 | 0% | - | - | - | - | - |
| Zinc | 5 | 9.1 | 11 | 19% | 9.1 | 9 | 1% | - | - | - | - | - |
| Asbestos | 0.001% w/w | - | - | - | - | - | - | ND/NRFD | ND/NRFD | FA + AF: <0.001 ³ NRFD | ND/NRFD | ND/NRFD |

Notes:

All units in mg/kg

High RPDs are shaded (where applicable).

Acceptable RPDs for each LOR multiplier range are: No Limit (<10 x LOR); <30% RPD (Inorganic); and <80% RPD (Organic).

Primary samples SB27/3.8, SB14/0.2 and SB22/6.0 and duplicate/triplicate samples Q51/Q51A, Q52/Q52A and Q53A also all analysed for BTEXN, TPH/TRH and PAHs, with all results reported at concentrations <LOR.



**TABLE 12:
SUMMARY OF TRIP BLANK AND
TRIP SPIKE ANALYTICAL DATA (SOIL AND GROUNDWATER SAMPLING)
146-154 O'RIORDAN STREET, MASCOT, NSW**

| Sample ID | TRIP BLANK - Soil (mg/kg) | TRIP SPIKE - Soil (%) | Rinsate - Water: RB1 (mg/L) | Rinsate - Water: RB2 (mg/L) | Rinsate - Water: RB3 (mg/L) | Rinsate - Water: RB4 (mg/L) | TRIP BLANK - Water (mg/L) | TRIP SPIKE - Water (mg/L) |
|-------------------------------------|---------------------------|-----------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|---------------------------|---------------------------|
| Sample Date | 9/08/2018 | 9/08/2018 | 9/08/2018 | 13/08/2018 | 14/08/2018 | 14/08/2018 | 15/08/2018 | 15/08/2018 |
| TPH/TRH | | | | | | | | |
| C6-C9 | <0.0 | 110 | < 0.02 | - | - | < 0.02 | <0.02 | 71 |
| C10-C14 | - | - | <0.05 | - | - | <0.05 | - | - |
| C15-C28 | - | - | <0.1 | - | - | <0.1 | - | - |
| C29-C36 | - | - | <0.1 | - | - | <0.1 | - | - |
| C6-C36 (total) | - | - | <0.1 | - | - | <0.1 | - | - |
| C6-C10 | <0.0 | 110 | < 0.02 | - | - | < 0.02 | <0.02 | 75 |
| C6-C10 - BTEX (fraction F1) | <0.0 | - | <0.2 | - | - | <0.2 | <0.02 | - |
| C10-C16 | - | - | <0.05 | - | - | <0.05 | - | - |
| C10-C16 - Naphthalene (fraction F2) | - | - | <0.05 | - | - | <0.05 | - | - |
| C16-C34 | - | - | <0.1 | - | - | <0.1 | - | - |
| C34-C40 | - | - | <0.1 | - | - | <0.1 | - | - |
| C10-C40 (total) | - | - | <0.1 | - | - | <0.1 | - | - |
| Naphthalene | <0.5 | 99 | < 0.01 | - | - | < 0.01 | <0.01 | 85 |
| BTEX | | | | | | | | |
| Benzene | <0.1 | 110 | < 0.001 | - | - | < 0.001 | <0.001 | 86 |
| Toluene | <0.1 | 110 | < 0.001 | - | - | < 0.001 | <0.001 | 85 |
| Ethylbenzene | <0.1 | 110 | < 0.002 | - | - | < 0.002 | <0.001 | 80 |
| meta- & para-Xylene | <0.2 | 110 | < 0.001 | - | - | < 0.001 | <0.001 | 85 |
| ortho-Xylene | <0.1 | 110 | < 0.001 | - | - | < 0.001 | <0.001 | 84 |
| Total Xylenes | <0.5 | 110 | < 0.003 | - | - | < 0.003 | <0.003 | 84 |
| Metal | | | | | | | | |
| Arsenic | - | - | < 0.001 | - | - | < 0.001 | - | - |
| Cadmium | - | - | < 0.0002 | - | - | < 0.0002 | - | - |
| Chromium (Total)* | - | - | <0.001 | - | - | <0.001 | - | - |
| Copper | - | - | < 0.001 | - | - | < 0.001 | - | - |
| Lead | - | - | < 0.001 | - | - | < 0.001 | - | - |
| Mercury** | - | - | < 0.0001 | - | - | < 0.0001 | - | - |
| Nickel | - | - | < 0.001 | - | - | < 0.001 | - | - |
| Zinc | - | - | < 0.005 | - | - | < 0.005 | - | - |
| PAHs | | | | | | | | |
| Naphthalene | - | - | <0.001 | - | - | <0.001 | - | - |
| Acenaphthylene | - | - | <0.001 | - | - | <0.001 | - | - |
| Acenaphthene | - | - | <0.001 | - | - | <0.001 | - | - |
| Fluorene | - | - | <0.001 | - | - | <0.001 | - | - |
| Phenanthrene | - | - | <0.001 | - | - | <0.001 | - | - |
| Anthracene | - | - | <0.001 | - | - | <0.001 | - | - |
| Fluoranthene | - | - | <0.001 | - | - | <0.001 | - | - |
| Pyrene | - | - | <0.001 | - | - | <0.001 | - | - |
| Benz[a]anthracene | - | - | <0.001 | - | - | <0.001 | - | - |
| Chrysene | - | - | <0.001 | - | - | <0.001 | - | - |
| Benzo[+]fluoranthene | - | - | <0.001 | - | - | <0.001 | - | - |
| Benzo[k]fluoranthene | - | - | <0.001 | - | - | <0.001 | - | - |



**TABLE 12:
SUMMARY OF TRIP BLANK AND
TRIP SPIKE ANALYTICAL DATA (SOIL AND GROUNDWATER SAMPLING)
146-154 O'RIORDAN STREET, MASCOT, NSW**

| Sample ID | TRIP BLANK - Soil (mg/kg) | TRIP SPIKE - Soil (%) | Rinsate - Water: RB1 (mg/L) | Rinsate - Water: RB2 (mg/L) | Rinsate - Water: RB3 (mg/L) | Rinsate - Water: RB4 (mg/L) | TRIP BLANK - Water (mg/L) | TRIP SPIKE - Water (mg/L) |
|---------------------------------|---------------------------|-----------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|---------------------------|---------------------------|
| Sample Date | 9/08/2018 | 9/08/2018 | 9/08/2018 | 13/08/2018 | 14/08/2018 | 14/08/2018 | 15/08/2018 | 15/08/2018 |
| Benzo[a]pyrene | - | - | <0.001 | - | - | <0.001 | - | - |
| Indeno[1,2,3-cd]pyrene | - | - | <0.001 | - | - | <0.001 | - | - |
| Dibenz[a,h]anthracene | - | - | <0.001 | - | - | <0.001 | - | - |
| Benzo[ghi]perylene | - | - | <0.001 | - | - | <0.001 | - | - |
| Total PAH | - | - | <0.001 | - | - | <0.001 | - | - |
| Benzo[a]pyrene TEQ (zero) | - | - | <0.001 | - | - | <0.001 | - | - |
| Phenols | | | | | | | | |
| 2,4,5-Trichlorophenol | - | - | <0.01 | - | - | <0.01 | - | - |
| 2,4,6-Trichlorophenol | - | - | <0.01 | - | - | <0.01 | - | - |
| 2,4-Dichlorophenol | - | - | <0.003 | - | - | <0.003 | - | - |
| 2,6-Dichlorophenol | - | - | <0.003 | - | - | <0.003 | - | - |
| 2-Chlorophenol | - | - | <0.003 | - | - | <0.003 | - | - |
| 4-Chloro-3-methylphenol | - | - | <0.01 | - | - | <0.01 | - | - |
| Pentachlorophenol | - | - | <0.01 | - | - | <0.01 | - | - |
| Tetrachlorophenols - Total | - | - | <0.03 | - | - | <0.03 | - | - |
| Total Halogenated Phenol | - | - | <0.01 | - | - | <0.01 | - | - |
| 2,4-Dimethylphenol | - | - | <0.003 | - | - | <0.003 | - | - |
| 2,4-Dinitrophenol | - | - | <0.03 | - | - | <0.03 | - | - |
| 2-Cyclohexyl-4,6-dinitrophenol | - | - | <0.1 | - | - | <0.1 | - | - |
| 2-Methyl-4,6-dinitrophenol | - | - | <0.03 | - | - | <0.03 | - | - |
| 2-Methylphenol (o-Cresol) | - | - | <0.003 | - | - | <0.003 | - | - |
| 2-Nitrophenol | - | - | <0.01 | - | - | <0.01 | - | - |
| 3,5,4-Methylphenol (m&p-Cresol) | - | - | <0.003 | - | - | <0.003 | - | - |
| 4-Nitrophenol | - | - | <0.03 | - | - | <0.03 | - | - |
| Dinoseb | - | - | <0.1 | - | - | <0.1 | - | - |
| Phenol | - | - | <0.003 | - | - | <0.003 | - | - |
| Total Non-Halogenated Phenol | - | - | <0.1 | - | - | <0.1 | - | - |
| OCF | | | | | | | | |
| 4,4'-DDD | - | - | - | <0.0001 | <0.0001 | - | - | - |
| 4,4'-DDE | - | - | - | <0.0001 | <0.0001 | - | - | - |
| 4,4'-DDT | - | - | - | <0.0001 | <0.0001 | - | - | - |
| α-BHC | - | - | - | <0.0001 | <0.0001 | - | - | - |
| Aldrin | - | - | - | <0.0001 | <0.0001 | - | - | - |
| Aldrin and Dieldrin (Total)* | - | - | - | <0.0001 | <0.0001 | - | - | - |
| β-BHC | - | - | - | <0.0001 | <0.0001 | - | - | - |
| Chlordanes - Total | - | - | - | <0.001 | <0.001 | - | - | - |
| δ-BHC | - | - | - | <0.0001 | <0.0001 | - | - | - |
| DDT + DDE + DDD (Total)* | - | - | - | <0.0001 | <0.0001 | - | - | - |
| Dieldrin | - | - | - | <0.0001 | <0.0001 | - | - | - |
| Endosulfan I | - | - | - | <0.0001 | <0.0001 | - | - | - |
| Endosulfan II | - | - | - | <0.0001 | <0.0001 | - | - | - |
| Endosulfan sulphate | - | - | - | <0.0001 | <0.0001 | - | - | - |
| Endrin | - | - | - | <0.0001 | <0.0001 | - | - | - |
| Endrin aldehyde | - | - | - | <0.0001 | <0.0001 | - | - | - |
| Endrin ketone | - | - | - | <0.0001 | <0.0001 | - | - | - |



**TABLE 12:
SUMMARY OF TRIP BLANK AND
TRIP SPIKE ANALYTICAL DATA (SOIL AND GROUNDWATER SAMPLING)
146-154 O'RIORDAN STREET, MASCOT, NSW**

| Sample ID | TRIP BLANK - Soil (mg/kg) | TRIP SPIKE - Soil (%) | Rinsate - Water: RB1 (mg/L) | Rinsate - Water: RB2 (mg/L) | Rinsate - Water: RB3 (mg/L) | Rinsate - Water: RB4 (mg/L) | TRIP BLANK - Water (mg/L) | TRIP SPIKE - Water (mg/L) |
|---------------------|------------------------------|--------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|---------------------------------|---------------------------------|
| Sample Date | 9/08/2018 | 9/08/2018 | 9/08/2018 | 13/08/2018 | 14/08/2018 | 14/08/2018 | 15/08/2018 | 15/08/2018 |
| g-BHC (Lindane) | - | - | - | <0.0001 | <0.0001 | - | - | - |
| Heptachlor | - | - | - | <0.0001 | <0.0001 | - | - | - |
| Heptachlor epoxide | - | - | - | <0.0001 | <0.0001 | - | - | - |
| Hexachlorobenzene | - | - | - | <0.0001 | <0.0001 | - | - | - |
| Methoxychlor | - | - | - | <0.0001 | <0.0001 | - | - | - |
| Toxaphene | - | - | - | <0.01 | <0.01 | - | - | - |
| OPP | | | | | | | | |
| Azinphos-methyl | - | - | - | <0.002 | <0.002 | - | - | - |
| Bolstar | - | - | - | <0.002 | <0.002 | - | - | - |
| Chlorfenvinphos | - | - | - | <0.002 | <0.002 | - | - | - |
| Chlorpyrifos | - | - | - | <0.02 | <0.02 | - | - | - |
| Chlorpyrifos-methyl | - | - | - | <0.002 | <0.002 | - | - | - |
| Carbaryl | - | - | - | <0.02 | <0.02 | - | - | - |
| Demeton-O | - | - | - | <0.002 | <0.002 | - | - | - |
| Demeton-S | - | - | - | <0.02 | <0.02 | - | - | - |
| Diazinon | - | - | - | <0.002 | <0.002 | - | - | - |
| Dichlorvos | - | - | - | <0.002 | <0.002 | - | - | - |
| Dimethoate | - | - | - | <0.002 | <0.002 | - | - | - |
| Disulfoton | - | - | - | <0.002 | <0.002 | - | - | - |
| EPN | - | - | - | <0.002 | <0.002 | - | - | - |
| Ethion | - | - | - | <0.002 | <0.002 | - | - | - |
| Ethoprop | - | - | - | <0.002 | <0.002 | - | - | - |
| Ethyl parathion | - | - | - | <0.002 | <0.002 | - | - | - |
| Fenitrothion | - | - | - | <0.002 | <0.002 | - | - | - |
| Fenitrothion | - | - | - | <0.002 | <0.002 | - | - | - |
| Fenthion | - | - | - | <0.002 | <0.002 | - | - | - |
| Malathion | - | - | - | <0.002 | <0.002 | - | - | - |
| Merphos | - | - | - | <0.002 | <0.002 | - | - | - |
| Methyl parathion | - | - | - | <0.002 | <0.002 | - | - | - |
| Mevinphos | - | - | - | <0.002 | <0.002 | - | - | - |
| Monocrotophos | - | - | - | <0.002 | <0.002 | - | - | - |
| Naled | - | - | - | <0.002 | <0.002 | - | - | - |
| Omethoate | - | - | - | <0.002 | <0.002 | - | - | - |
| Phorate | - | - | - | <0.002 | <0.002 | - | - | - |
| Pirimiphos-methyl | - | - | - | <0.02 | <0.02 | - | - | - |
| Pyrazophos | - | - | - | <0.002 | <0.002 | - | - | - |
| Bonnel | - | - | - | <0.002 | <0.002 | - | - | - |
| Terbufos | - | - | - | <0.002 | <0.002 | - | - | - |
| Tetrachlorvinphos | - | - | - | <0.002 | <0.002 | - | - | - |
| Toluthion | - | - | - | <0.002 | <0.002 | - | - | - |
| Trichloronate | - | - | - | <0.002 | <0.002 | - | - | - |

Notes:

LOR - Limits of Reporting

Recoveries (%) are shown for Trip Spike Sample

Rinsate samples RB1 and RB2 also all analysed for TPH/TRH, PAHs, Phenols, OCPs, OPPs, PCBs and VOCs



TABLE 13
SUMMARY OF GROUNDWATER ANALYTICAL DATA
146-154 O'RIORDAN STREET, MASCOT, NSW

| Sample ID | | | | | | | | MW1 | MW2 | QW-1 | RPD | QW-1A | RPD | MW3 | MW4 |
|--|--------|-----------------------|----------------|-------------------------------|---------------------------|-------------------------------|---|----------|----------|----------|-----|----------|------|----------|----------|
| Sample Date | | | | | | | | 15/08/18 | 15/08/18 | 15/08/18 | - | 15/08/18 | - | 15/08/18 | 15/08/18 |
| Compounds | LOB | NEM 2013 | NEM 2013 | NEM 2013 | PFAS NEM | PFAS NEM | PFAS NEM | | | | | | | | |
| | | Drinking Water G/L | Freshwater G/L | SAND HSL 2 to <40, 4 to <8 | 2018 Drinking Water | 2018 Recreational Water | 2018 Freshwater + Marine Water (interim) | | | | | | | | |
| BTX&I | | | | | | | | | | | | | | | |
| Benzene | 0.001 | 0.001 | 950 | 0.8, 0.8 | NE | NE | NE | <0.001 | <0.001 | <0.001 | DN | <0.001 | DN | <0.001 | <0.001 |
| Toluene | 0.001 | 0.8 | NE | NL | NE | NE | NE | 0.002 | <0.001 | <0.001 | DN | <0.001 | DN | <0.001 | <0.001 |
| Ethylbenzene | 0.001 | 8.3 | NE | NL | NE | NE | NE | <0.001 | <0.001 | <0.001 | DN | <0.001 | DN | <0.001 | <0.001 |
| meta- & para-xylene | 0.001 | NE | 200 | NE | NE | NE | NE | <0.001 | <0.001 | <0.001 | DN | <0.001 | DN | <0.001 | <0.001 |
| ortho-xylene | 0.001 | NE | 950 | NE | NE | NE | NE | <0.001 | <0.001 | <0.001 | DN | <0.001 | DN | <0.001 | <0.001 |
| Total Xylenes | 0.001 | 0.6 | NE | NL | NE | NE | NE | <0.001 | <0.001 | <0.001 | DN | <0.001 | DN | <0.001 | <0.001 |
| Naphthalene | 0.01 | NE | 1.0 | NL | NE | NE | NE | <0.001 | <0.001 | <0.001 | DN | <0.001 | DN | <0.001 | <0.001 |
| Total Petroleum Hydrocarbons/Total Recoverable Hydrocarbons | | | | | | | | | | | | | | | |
| C0 - C9 Fraction | 0.01 | NE | NE | NE | NE | NE | NE | <0.001 | <0.001 | <0.001 | DN | <0.001 | DN | <0.001 | <0.001 |
| C10 - C14 Fraction | 0.05 | NE | NE | NE | NE | NE | NE | <0.001 | <0.001 | <0.001 | DN | <0.001 | DN | <0.001 | <0.001 |
| C15 - C19 Fraction | 0.1 | NE | NE | NE | NE | NE | NE | <0.1 | <0.1 | <0.1 | DN | <0.1 | DN | <0.1 | <0.1 |
| C20 - C29 Fraction | 0.1 | NE | NE | NE | NE | NE | NE | <0.1 | <0.1 | <0.1 | DN | <0.05 | DN | <0.1 | <0.1 |
| C10 - C29 Fraction (sum) | 0.1 | NE | NE | NE | NE | NE | NE | <0.1 | <0.1 | <0.1 | DN | <0.05 | DN | <0.1 | <0.1 |
| CRH Fraction F1 | 0.02 | NE | NE | 1, 1 | NE | NE | NE | <0.02 | <0.02 | <0.02 | DN | <0.02 | DN | <0.02 | <0.02 |
| C0 - C10 Fraction | 0.02 | NE | NE | NE | NE | NE | NE | <0.02 | <0.02 | <0.02 | DN | <0.02 | DN | <0.02 | <0.02 |
| C10 - C19 Fraction | 0.05 | NE | NE | NE | NE | NE | NE | <0.05 | <0.05 | <0.05 | DN | <0.05 | DN | <0.05 | <0.05 |
| C20 - C29 Fraction | 0.1 | NE | NE | NE | NE | NE | NE | <0.1 | <0.1 | <0.1 | DN | <0.1 | DN | <0.1 | <0.1 |
| C0 - C29 Fraction | 0.1 | NE | NE | NE | NE | NE | NE | <0.1 | <0.1 | <0.1 | DN | <0.1 | DN | <0.1 | <0.1 |
| CRH Fraction F2 | 0.05 | NE | NE | 1, 1 | NE | NE | NE | <0.05 | <0.05 | <0.05 | DN | <0.1 | DN | <0.05 | <0.05 |
| Metals | | | | | | | | | | | | | | | |
| Arsenic | 0.001 | 0.01 | 0.024 | NE | NE | NE | NE | <0.001 | 0.013 | 0.013 | DN | 0.012 | DN | 0.007 | <0.001 |
| Cadmium | 0.0001 | 0.002 | 0.0021 | NE | NE | NE | NE | <0.0001 | <0.002 | <0.002 | DN | <0.0001 | DN | <0.0001 | <0.0001 |
| Chromium | 0.001 | NE | NE | NE | NE | NE | NE | <0.001 | <0.001 | <0.001 | DN | <0.001 | DN | <0.001 | <0.001 |
| Copper | 0.001 | 2 | 0.0014 | NE | NE | NE | NE | 0.19 | 0.10 | 0.057 | 55% | 0.017 | 142% | 0.003 | 0.009 |
| Lead | 0.001 | 0.01 | 0.0034 | NE | NE | NE | NE | 0.012 | 0.007 | 0.004 | 53% | 0.001 | 150% | 0.003 | 0.005 |
| Mercury | 0.0001 | 0.001 | 0.00005 | NE | NE | NE | NE | <0.0001 | <0.0001 | <0.0001 | DN | <0.0001 | DN | <0.0001 | <0.0001 |
| Nickel | 0.001 | 0.02 | 0.011 | NE | NE | NE | NE | 0.009 | 0.007 | 0.005 | 33% | 0.003 | 80% | 0.007 | 0.006 |
| Zinc | 0.050 | NE | 0.008 | NE | NE | NE | NE | 0.18 | 0.21 | 0.17 | 21% | 0.114 | 59% | 0.14 | 0.073 |
| Polycyclic Aromatic Hydrocarbons | | | | | | | | | | | | | | | |
| Naphthalene | 0.001 | NE | 1.0 | NE | NE | NE | NE | <0.001 | <0.001 | <0.001 | DN | <0.001 | DN | <0.001 | <0.001 |
| Acenaphthylene | 0.001 | NE | NE | NE | NE | NE | NE | <0.001 | <0.001 | <0.001 | DN | <0.001 | DN | <0.001 | <0.001 |
| Acenaphthene | 0.001 | NE | NE | NE | NE | NE | NE | <0.001 | <0.001 | <0.001 | DN | <0.001 | DN | <0.001 | <0.001 |
| Fluorene | 0.001 | NE | NE | NE | NE | NE | NE | <0.001 | <0.001 | <0.001 | DN | <0.001 | DN | <0.001 | <0.001 |
| Phenanthrene | 0.001 | NE | NE | NE | NE | NE | NE | <0.001 | <0.001 | <0.001 | DN | <0.001 | DN | <0.001 | <0.001 |
| Anthracene | 0.001 | NE | NE | NE | NE | NE | NE | <0.001 | <0.001 | <0.001 | DN | <0.001 | DN | <0.001 | <0.001 |
| Fluoranthene | 0.001 | NE | NE | NE | NE | NE | NE | <0.001 | <0.001 | <0.001 | DN | <0.001 | DN | <0.001 | <0.001 |
| Pyrene | 0.001 | NE | NE | NE | NE | NE | NE | <0.001 | <0.001 | <0.001 | DN | <0.001 | DN | <0.001 | <0.001 |
| Benzo[a]anthracene | 0.001 | NE | NE | NE | NE | NE | NE | <0.001 | <0.001 | <0.001 | DN | <0.001 | DN | <0.001 | <0.001 |
| Chrysene | 0.001 | NE | NE | NE | NE | NE | NE | <0.001 | <0.001 | <0.001 | DN | <0.001 | DN | <0.001 | <0.001 |
| Benzo[b]fluoranthene | 0.001 | NE | NE | NE | NE | NE | NE | <0.001 | <0.001 | <0.001 | DN | <0.001 | DN | <0.001 | <0.001 |
| Benzo[k]fluoranthene | 0.001 | NE | NE | NE | NE | NE | NE | <0.001 | <0.001 | <0.001 | DN | <0.001 | DN | <0.001 | <0.001 |
| Benzo[a]pyrene | 0.001 | 0.00001 | NE | NE | NE | NE | NE | <0.001 | <0.001 | <0.001 | DN | <0.0001 | DN | <0.001 | <0.001 |
| Indeno[1,2,3-cd]pyrene | 0.001 | NE | NE | NE | NE | NE | NE | <0.001 | <0.001 | <0.001 | DN | <0.001 | DN | <0.001 | <0.001 |
| Dibenz[a,h]anthracene | 0.001 | NE | NE | NE | NE | NE | NE | <0.001 | <0.001 | <0.001 | DN | <0.001 | DN | <0.001 | <0.001 |
| Benzo[e]perylene | 0.001 | NE | NE | NE | NE | NE | NE | <0.001 | <0.001 | <0.001 | DN | <0.001 | DN | <0.001 | <0.001 |
| Sum of PAHs | 0.001 | NE | NE | NE | NE | NE | NE | <0.001 | <0.001 | <0.001 | DN | <0.001 | DN | <0.001 | <0.001 |
| Organochlorine Pesticides | | | | | | | | | | | | | | | |
| 1,1'-DDE | 0.0001 | NE | NE | NE | NE | NE | NE | <0.0001 | <0.0001 | - | - | - | - | <0.0001 | <0.0001 |
| 1,1'-DDD | 0.0001 | NE | NE | NE | NE | NE | NE | <0.0001 | <0.0001 | - | - | - | - | <0.0001 | <0.0001 |
| 1,1'-DDT | 0.0001 | 0.000006 | 0.0001 | NE | NE | NE | NE | <0.0001 | <0.0001 | - | - | - | - | <0.0001 | <0.0001 |
| p-BHC | 0.0001 | NE | NE | NE | NE | NE | NE | <0.0001 | <0.0001 | - | - | - | - | <0.0001 | <0.0001 |
| Alrin | 0.0001 | NE | NE | NE | NE | NE | NE | <0.0001 | <0.0001 | - | - | - | - | <0.0001 | <0.0001 |
| Alrin and Dieldrin (Total) | 0.0001 | NE | 0.0001 | NE | NE | NE | NE | <0.0001 | <0.0001 | - | - | - | - | <0.0001 | <0.0001 |
| o-BHC | 0.0001 | NE | NE | NE | NE | NE | NE | <0.0001 | <0.0001 | - | - | - | - | <0.0001 | <0.0001 |
| Chlordane - Total | 0.001 | 0.00001 | 0.002 | NE | NE | NE | NE | <0.001 | <0.001 | - | - | - | - | <0.001 | <0.001 |
| p-BHC | 0.0001 | NE | NE | NE | NE | NE | NE | <0.0001 | <0.0001 | - | - | - | - | <0.0001 | <0.0001 |
| DDT + DDE + DDD (Total) | 0.0001 | NE | NE | NE | NE | NE | NE | <0.0001 | <0.0001 | - | - | - | - | <0.0001 | <0.0001 |
| Dieldrin | 0.0001 | NE | NE | NE | NE | NE | NE | <0.0001 | <0.0001 | - | - | - | - | <0.0001 | <0.0001 |
| Endosulfan I | 0.0001 | 0.00001 | 0.02 | NE | NE | NE | NE | <0.0001 | <0.0001 | - | - | - | - | <0.0001 | <0.0001 |
| Endosulfan II | 0.0001 | 0.00001 | 0.02 | NE | NE | NE | NE | <0.0001 | <0.0001 | - | - | - | - | <0.0001 | <0.0001 |
| Endosulfan sulphate | 0.0001 | NE | NE | NE | NE | NE | NE | <0.0001 | <0.0001 | - | - | - | - | <0.0001 | <0.0001 |
| lnrin | 0.0001 | 0.00001 | NE | NE | NE | NE | NE | <0.0001 | <0.0001 | - | - | - | - | <0.0001 | <0.0001 |
| lnrin aldehyde | 0.0001 | NE | NE | NE | NE | NE | NE | <0.0001 | <0.0001 | - | - | - | - | <0.0001 | <0.0001 |
| lnrin ketone | 0.0001 | NE | NE | NE | NE | NE | NE | <0.0001 | <0.0001 | - | - | - | - | <0.0001 | <0.0001 |
| g-BHC (linsane) | 0.0001 | 0.0002 | 0.01 | NE | NE | NE | NE | <0.0001 | <0.0001 | - | - | - | - | <0.0001 | <0.0001 |
| Heptachlor | 0.0001 | 0.00001 | NE | NE | NE | NE | NE | <0.0001 | <0.0001 | - | - | - | - | <0.0001 | <0.0001 |
| Heptachlor epoxide | 0.0001 | NE | 0.0001 | NE | NE | NE | NE | <0.0001 | <0.0001 | - | - | - | - | <0.0001 | <0.0001 |
| Heptachlorobenzene | 0.0001 | NE | NE | NE | NE | NE | NE | <0.0001 | <0.0001 | - | - | - | - | <0.0001 | <0.0001 |
| Heptachlorocyclopentadiene | 0.0001 | NE | NE | NE | NE | NE | NE | <0.0001 | <0.0001 | - | - | - | - | <0.0001 | <0.0001 |
| Parathion | 0.01 | 0.0001 | NE | NE | NE | NE | NE | <0.01 | <0.01 | - | - | - | - | <0.01 | <0.01 |

Notes:
 NE - Not Established
 NL - Not Limiting
 All units in mg/L, unless otherwise noted
 1. NEM 2013 Groundwater Investigation Level for Drinking Water
 2. NEM 2013 Groundwater Investigation Level for protection of freshwater at 95% confidence for typical slightly to moderately disturbed systems.
 3. NEM 2013 health-based guidance values
 4. NEM 2013 guideline values for 95% species protection - slightly to moderately disturbed systems
 CRH/DRVA are duplicate/triplicate of primary groundwater sample MW2
 Shading indicates concentration exceeds criteria.



TABLE 13
SUMMARY OF GROUNDWATER ANALYTICAL DATA
146-154 O'RIORDAN STREET, MASCOT, NSW

| Sample ID | Sample Date | MW1 | MW2 | QW-1 | BPD | QW-1A | BPD | MW3 | MW4 |
|------------------------------------|-------------|----------|----------|----------|-----|----------|-----|----------|----------|
| | | 15/08/18 | 15/08/18 | 15/08/18 | - | 15/08/18 | - | 15/08/18 | 15/08/18 |
| Organophosphorus Pesticides | | | | | | | | | |
| Azinphos-methyl | 0.002 | 0.03 | NE | NE | NE | NE | NE | NE | NE |
| Bolstar | 0.002 | NE | NE | NE | NE | NE | NE | NE | NE |
| Chlorfenvinphos | 0.002 | 0.002 | NE | NE | NE | NE | NE | NE | NE |
| Chlorpyrifos | 0.02 | 0.01 | NE | NE | NE | NE | NE | NE | NE |
| Chlorpyrifos-methyl | 0.002 | NE | NE | NE | NE | NE | NE | NE | NE |
| Coumatphos | 0.02 | NE | NE | NE | NE | NE | NE | NE | NE |
| Demeton-O | 0.002 | NE | NE | NE | NE | NE | NE | NE | NE |
| Demeton-S | 0.02 | NE | NE | NE | NE | NE | NE | NE | NE |
| Disulfoton | 0.002 | 0.00001 | 0.004 | NE | NE | NE | NE | NE | NE |
| Disulfoton | 0.002 | NE | 0.005 | NE | NE | NE | NE | NE | NE |
| Diazinathion | 0.002 | 0.00001 | 0.007 | NE | NE | NE | NE | NE | NE |
| Disulfoton | 0.002 | NE | 0.004 | NE | NE | NE | NE | NE | NE |
| DFP | 0.002 | NE | NE | NE | NE | NE | NE | NE | NE |
| Ethion | 0.002 | NE | 0.004 | NE | NE | NE | NE | NE | NE |
| Ethoprop | 0.002 | NE | 0.001 | NE | NE | NE | NE | NE | NE |
| Ethyl parathion | 0.002 | NE | NE | NE | NE | NE | NE | NE | NE |
| Fenitrothion | 0.002 | 0.0002 | 0.007 | NE | NE | NE | NE | NE | NE |
| Fen硫磷 | 0.002 | NE | NE | NE | NE | NE | NE | NE | NE |
| Fen硫磷 | 0.002 | NE | 0.007 | NE | NE | NE | NE | NE | NE |
| Malathion | 0.002 | 0.00001 | 0.07 | NE | NE | NE | NE | NE | NE |
| Malathion | 0.002 | NE | NE | NE | NE | NE | NE | NE | NE |
| Methyl parathion | 0.002 | NE | NE | NE | NE | NE | NE | NE | NE |
| Mevinphos | 0.002 | NE | 0.006 | NE | NE | NE | NE | NE | NE |
| Monsanto | 0.002 | NE | NE | NE | NE | NE | NE | NE | NE |
| Naled | 0.002 | NE | NE | NE | NE | NE | NE | NE | NE |
| Omethoate | 0.002 | NE | 0.001 | NE | NE | NE | NE | NE | NE |
| Phorate | 0.002 | NE | NE | NE | NE | NE | NE | NE | NE |
| Pirimiphos-methyl | 0.02 | NE | 0.09 | NE | NE | NE | NE | NE | NE |
| Pyrethrin | 0.002 | NE | 0.02 | NE | NE | NE | NE | NE | NE |
| Summit | 0.002 | NE | NE | NE | NE | NE | NE | NE | NE |
| Terbufos | 0.002 | NE | 0.0009 | NE | NE | NE | NE | NE | NE |
| Terbufos | 0.002 | NE | NE | NE | NE | NE | NE | NE | NE |
| Thiometon | 0.002 | NE | NE | NE | NE | NE | NE | NE | NE |
| Thiometon | 0.002 | NE | NE | NE | NE | NE | NE | NE | NE |
| Phenols (halogenated) | | | | | | | | | |
| 2,4,6-Trichlorophenol | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| 2,4,6-Trichlorophenol | 0.01 | 0.02 | 0.003 | NE | NE | NE | NE | NE | NE |
| 2,4-Dichlorophenol | 0.001 | 0.2 | 0.12 | NE | NE | NE | NE | NE | NE |
| 2,6-Dichlorophenol | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| 2-Chlorophenol | 0.001 | 0.3 | 0.34 | NE | NE | NE | NE | NE | NE |
| 2-Chloro-3-methylphenol | 0.01 | NE | NE | NE | NE | NE | NE | NE | NE |
| Pentachlorophenol | 0.01 | 0.01 | 0.0034 | NE | NE | NE | NE | NE | NE |
| Tetrachlorophenols - Total | 0.02 | NE | NE | NE | NE | NE | NE | NE | NE |
| Total Halogenated Phenol | 0.01 | NE | NE | NE | NE | NE | NE | NE | NE |
| Phenols (non-halogenated) | | | | | | | | | |
| 2,4-Dimethylphenol | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| 2,4-Dimethylphenol | 0.02 | NE | 0.048 | NE | NE | NE | NE | NE | NE |
| 2-Cyanoethyl-4,6-dimethylphenol | 0.1 | NE | NE | NE | NE | NE | NE | NE | NE |
| 2-Methyl-4,6-dinitrophenol | 0.02 | NE | NE | NE | NE | NE | NE | NE | NE |
| 2-Methylphenol (o-Cresol) | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| 2-Nitrophenol | 0.01 | NE | NE | NE | NE | NE | NE | NE | NE |
| 2,4,6-Trinitrophenol (TNP-Cresol) | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| 2-Nitrophenol | 0.02 | NE | NE | NE | NE | NE | NE | NE | NE |
| 2-Nitrophenol | 0.1 | NE | NE | NE | NE | NE | NE | NE | NE |
| Phenol | 0.001 | NE | 0.32 | NE | NE | NE | NE | NE | NE |
| Total Non-Halogenated Phenol | 0.1 | NE | NE | NE | NE | NE | NE | NE | NE |
| Polychlorinated Biphenyls | | | | | | | | | |
| Aroclor-1210 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1212 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1221 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1222 | 0.001 | 0.0001 | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1223 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1224 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1225 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1226 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1227 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1228 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1229 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1230 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1231 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1232 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1233 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1234 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1235 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1236 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1237 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1238 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1239 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1240 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1241 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1242 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1243 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1244 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1245 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1246 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1247 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1248 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1249 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1250 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1251 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1252 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1253 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1254 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1255 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1256 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1257 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1258 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1259 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1260 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1261 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1262 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1263 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1264 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1265 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1266 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1267 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1268 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1269 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1270 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1271 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1272 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1273 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1274 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1275 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1276 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1277 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1278 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1279 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1280 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1281 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1282 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1283 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1284 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1285 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1286 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1287 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1288 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1289 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1290 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1291 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1292 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1293 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1294 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1295 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1296 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1297 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1298 | 0.001 | NE | NE | NE | NE | NE | NE | NE | NE |
| Aroclor-1299 | 0.001 | NE | NE | NE | NE | NE | | | |



TABLE 13
SUMMARY OF GROUNDWATER ANALYTICAL DATA
146-154 O'RIORDAN STREET, MASCOT, NSW

| Sample ID | MW1 | MW2 | QW-1 | RPD | QW-1A | RPD | MW3 | MW4 |
|-----------------------------------|----------|----------|----------|-----|----------|-----|----------|----------|
| Sample Date | 15/05/18 | 15/06/18 | 15/06/18 | - | 15/06/18 | - | 15/06/18 | 15/06/18 |
| Volatile Organic Compounds | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | 0.005 | NE | NE | NE | NE | NE | NE | NE |
| 1,1,1-Trichloroethane | 0.005 | NE | NE | NE | NE | NE | NE | NE |
| 1,1,2-Tetrachloroethane | 0.005 | NE | NE | NE | NE | NE | NE | NE |
| 1,1,2-Trichloroethane | 0.005 | NE | NE | NE | NE | NE | NE | NE |
| 1,1-Dichloroethane | 0.005 | NE | NE | NE | NE | NE | NE | NE |
| 1,1-Dichloroethane | 0.005 | 0.005 | NE | NE | NE | NE | NE | NE |
| 1,2-Trichloropropane | 0.005 | NE | NE | NE | NE | NE | NE | NE |
| 1,2,4-Trimethylbenzene | 0.005 | NE | NE | NE | NE | NE | NE | NE |
| 1,2-Dichloroethane | 0.005 | NE | NE | NE | NE | NE | NE | NE |
| 1,2-Dichlorobenzene | 0.005 | NE | NE | NE | NE | NE | NE | NE |
| 1,2-Dichloroethane | 0.005 | 0.005 | NE | NE | NE | NE | NE | NE |
| 1,2-Dichloropropane | 0.005 | NE | NE | NE | NE | NE | NE | NE |
| 1,3,5-Triethylbenzene | 0.005 | NE | NE | NE | NE | NE | NE | NE |
| 1,3-Dichlorobenzene | 0.005 | NE | NE | NE | NE | NE | NE | NE |
| 1,3-Dichloropropane | 0.005 | NE | NE | NE | NE | NE | NE | NE |
| 1,4-Dichlorobenzene | 0.005 | NE | NE | NE | NE | NE | NE | NE |
| n-Butane (n-BK) | 0.005 | NE | NE | NE | NE | NE | NE | NE |
| n-Propane (Acetone) | 0.005 | NE | NE | NE | NE | NE | NE | NE |
| n-Chlorotoluene | 0.005 | NE | NE | NE | NE | NE | NE | NE |
| n-Methyl-2-pentanone (Mxk) | 0.005 | NE | NE | NE | NE | NE | NE | NE |
| Methyl Chloride | 0.005 | NE | NE | NE | NE | NE | NE | NE |
| Bromobenzene | 0.005 | NE | NE | NE | NE | NE | NE | NE |
| Bromochloromethane | 0.005 | NE | NE | NE | NE | NE | NE | NE |
| Bromodichloromethane | 0.005 | NE | NE | NE | NE | NE | NE | NE |
| Bromoflorm | 0.005 | NE | NE | NE | NE | NE | NE | NE |
| Bromomethane | 0.005 | NE | NE | NE | NE | NE | NE | NE |
| Carbon dioxide | 0.005 | NE | NE | NE | NE | NE | NE | NE |
| Carbon Tetrachloride | 0.005 | 0.005 | NE | NE | NE | NE | NE | NE |
| Chlorobenzene | 0.005 | NE | NE | NE | NE | NE | NE | NE |
| Chloroethane | 0.005 | NE | NE | NE | NE | NE | NE | NE |
| Chloroform | 0.005 | NE | NE | NE | NE | NE | NE | NE |
| Chloromethane | 0.005 | NE | NE | NE | NE | NE | NE | NE |
| 1,1,2-Dichloroethane | 0.005 | NE | NE | NE | NE | NE | NE | NE |
| 1,1,2-Dichloropropane | 0.005 | NE | NE | NE | NE | NE | NE | NE |
| Dibromochloromethane | 0.005 | NE | NE | NE | NE | NE | NE | NE |
| Dibromomethane | 0.005 | NE | NE | NE | NE | NE | NE | NE |
| Dichlorodifluoromethane | 0.005 | NE | NE | NE | NE | NE | NE | NE |
| Iodomethane | 0.005 | NE | NE | NE | NE | NE | NE | NE |
| Isopropyl benzene (Cumene) | 0.005 | NE | NE | NE | NE | NE | NE | NE |
| Methylene Chloride | 0.005 | NE | NE | NE | NE | NE | NE | NE |
| Styrene | 0.005 | 0.005 | NE | NE | NE | NE | NE | NE |
| Tetrachloroethane | 0.005 | 0.005 | NE | NE | NE | NE | NE | NE |
| trans-1,2-Dichloroethane | 0.005 | NE | NE | NE | NE | NE | NE | NE |
| trans-1,2-Dichloropropane | 0.005 | NE | NE | NE | NE | NE | NE | NE |
| Trichloroethane | 0.005 | NE | NE | NE | NE | NE | NE | NE |
| Trichlorofluoromethane | 0.005 | NE | NE | NE | NE | NE | NE | NE |
| Vinyl chloride | 0.005 | 0.0001 | NE | NE | NE | NE | NE | NE |

Notes:
 NE - Not Established
 NI - Not Limiting
 All units in mg/L unless otherwise noted
 1. NEM 2013 Groundwater Investigation Level for Drinking Water
 2. NEM 2013 Groundwater Investigation Level for protection of freshwater at 65% confidence for typical slightly to moderately disturbed systems.
 3. NEM 2013 health-based guidance values
 4. NEM 2013 guidance values for RSI species protection - slightly to moderately disturbed systems
 QWS/RWS are duplicate/triplicate of primary groundwater sample MW2
 Shading indicates concentration exceeds criteria.



TABLE 13
SUMMARY OF GROUNDWATER ANALYTICAL DATA
346-154 O'RIORDAN STREET, MASCOT, NSW

| Sample ID | Sample Date | MW1 | MW2 | QW-1 | EPD | QW-1A | EPD | MW3 | MW4 |
|--|-------------|----------|----------|----------|------|----------|-----|----------|----------|
| | | 15/05/18 | 15/06/18 | 15/06/18 | - | 15/08/18 | - | 15/08/18 | 15/08/18 |
| Perfluoroalkyl Carboxylic Acids (PFCA) | | | | | | | | | |
| Perfluorobutanoic acid (PFBA) | 0.05 | ND | ND | ND | ND | ND | ND | ND | ND |
| Perfluoropentanoic acid (PFPA) | 0.01 | ND | ND | ND | ND | ND | ND | ND | ND |
| Perfluorohexanoic acid (PFHxA) | 0.01 | ND | ND | ND | ND | ND | ND | ND | ND |
| Perfluorooctanoic acid (PFOSA) | 0.01 | ND | ND | ND | ND | ND | ND | ND | ND |
| Perfluorodecanoic acid (PFDA) | 0.01 | ND | ND | ND | ND | ND | ND | ND | ND |
| Perfluorododecanoic acid (PFDDA) | 0.01 | ND | ND | ND | ND | ND | ND | ND | ND |
| Perfluorotetradecanoic acid (PFTDA) | 0.01 | ND | ND | ND | ND | ND | ND | ND | ND |
| Perfluorohexadecanoic acid (PFHxDA) | 0.01 | ND | ND | ND | ND | ND | ND | ND | ND |
| Perfluorooctadecanoic acid (PFODA) | 0.01 | ND | ND | ND | ND | ND | ND | ND | ND |
| Perfluoroalkyl Sulfonamide Substances | | | | | | | | | |
| N-ethylperfluoro-4-octane sulfonamide-ethanol (N-EPFOS) | 0.05 | ND | ND | ND | ND | ND | ND | ND | ND |
| N-methylperfluoro-4-octane sulfonamide-ethanol (N-MFOS) | 0.05 | ND | ND | ND | ND | ND | ND | ND | ND |
| N-ethylperfluoro-8-octane sulfonamide (N-EPFOSA) | 0.05 | ND | ND | ND | ND | ND | ND | ND | ND |
| N-ethylperfluorooctanesulfonamideacetic acid (N-EPFOSAA) | 0.05 | ND | ND | ND | ND | ND | ND | ND | ND |
| N-methylperfluoro-8-octane sulfonamide (N-MFOSA) | 0.05 | ND | ND | ND | ND | ND | ND | ND | ND |
| N-methylperfluorooctanesulfonamideacetic acid (N-MFOSAA) | 0.05 | ND | ND | ND | ND | ND | ND | ND | ND |
| Perfluorooctane sulfonamide (PFOSA) | 0.05 | ND | ND | ND | ND | ND | ND | ND | ND |
| Perfluoroalkyl Sulfonic Acids (PFSA) | | | | | | | | | |
| Perfluorobutanesulfonic acid (PFBS) | 0.01 | ND | ND | ND | ND | ND | ND | ND | ND |
| Perfluoropentanesulfonic acid (PFPS) | 0.01 | ND | ND | ND | ND | ND | ND | ND | ND |
| Perfluorohexanesulfonic acid (PFHxS) | 0.01 | ND | ND | ND | ND | ND | ND | ND | ND |
| Perfluorooctanesulfonic acid (PFOS) | 0.01 | ND | ND | ND | ND | ND | ND | ND | ND |
| Perfluorodecane sulfonic acid (PFDS) | 0.01 | ND | ND | ND | ND | ND | ND | ND | ND |
| n-2 Fluorotelomer Sulfonic Acids (n-2 FTSA) | | | | | | | | | |
| 1H,1H,2H,2H-perfluorododecane sulfonic acid (D2 FTSA) | 0.01 | ND | ND | ND | ND | ND | ND | ND | ND |
| 1H,1H,2H,2H-perfluorotetradecane sulfonic acid (D2 FTSA) | 0.01 | ND | ND | ND | ND | ND | ND | ND | ND |
| 1H,1H,2H,2H-perfluorohexadecane sulfonic acid (D2 FTSA) | 0.01 | ND | ND | ND | ND | ND | ND | ND | ND |
| 1H,1H,2H,2H-perfluorooctadecane sulfonic acid (D2 FTSA) | 0.05 | ND | ND | ND | ND | ND | ND | ND | ND |
| PFAS Summations | | | | | | | | | |
| Sum (PFHxS + PFOS)* | 0.01 | ND | ND | ND | 0.07 | 0.7 | ND | 0.01 | 0.05 |
| Sum of entire PFAS (PFHxS + PFOS + PFDA)* | 0.01 | ND | ND | ND | ND | ND | ND | 0.01 | 0.01 |
| Sum of PFAS (n=2)** | 0.01 | ND | ND | ND | ND | ND | ND | 0.01 | 0.01 |
| Sum of US EPA PFAS (PFOS + PFDA)* | 0.01 | ND | ND | ND | ND | ND | ND | 0.01 | 0.01 |
| Sum of WA DWER PFAS (n=2)** | 0.05 | ND | ND | ND | ND | ND | ND | 0.05 | 0.05 |

Notes:
 ND - Not Established
 NL - Not Limiting
 All units in mg/L unless otherwise noted
 1. NEMW 2013 Groundwater Investigation Level for Drinking Water
 2. NEMW 2013 Groundwater Investigation Level for protection of freshwater at 95% confidence for typical slightly to moderately disturbed systems.
 3. NEMW 2013 health-based guidance values
 4. NEMW 2013 guideline values for 95% species protection - slightly to moderately disturbed systems
 QW1/QW1A are duplicate/triplicate of primary groundwater sample MW2
 Shading indicates concentration exceeds criteria.



Appendix A

Site

Photographs

Photographic Log – Toplace Pty Ltd
146-154 O’Riordan Street, Mascot, NSW



Photograph 1: View of south-east portion of site and location of monitoring well MW-1. Photograph taken during initial site inspection on 3 August 2018.



Photograph 2: View of north-west portion of site and location of monitoring well MW-2. Photograph taken during initial site inspection on 3 August 2018.

Photographic Log – Toplace Pty Ltd
146-154 O’Riordan Street, Mascot, NSW



Photograph 3: View of central portion of site (looking east) and location of monitoring well MW-3 (between blue and silver cars). Photograph taken during initial site inspection on 3 August 2018.

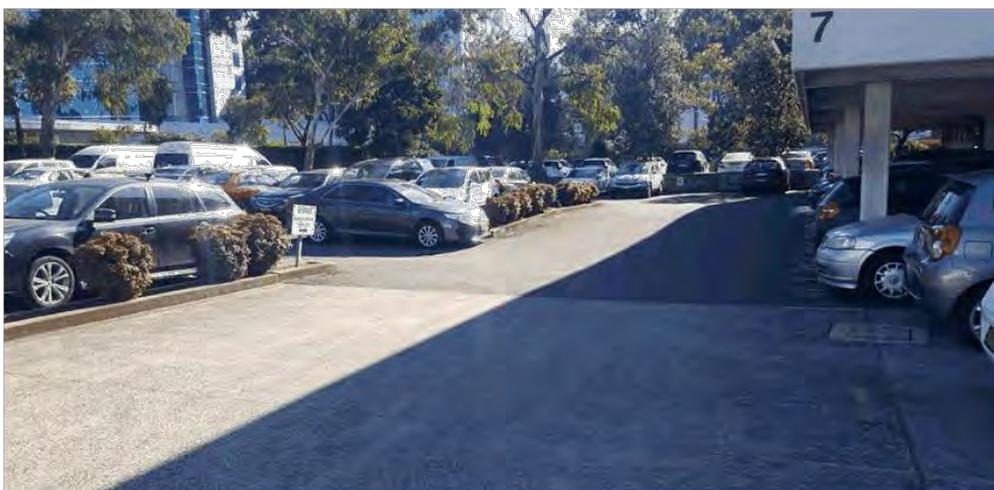


Photograph 4: View of south-west portion of site, location of monitoring well MW-4 and location of suspected stormwater detention basin. Photograph taken during initial site inspection on 3 August 2018.

Photographic Log – Toplace Pty Ltd
146-154 O’Riordan Street, Mascot, NSW



Photograph 5: View of north-east portion of the site and location of soil bore SB-14. Photograph taken during initial site inspection on 3 August 2018.



Photograph 6: View of north-west portion of 154 O’Riordan Street. Photograph taken during initial site inspection on 3 August 2018.

Photographic Log – Toplace Pty Ltd
146-154 O’Riordan Street, Mascot, NSW



Photograph 7: View of rail maintenance organisation workshop (south-east portion of the site) and location of soil bores SB-18 and SB-26 (inside workshop). Photograph taken during initial site inspection on 3 August 2018.



Photograph 8: View of central-east portion of the site and location of soil bore SB-13. Photograph taken during initial site inspection on 3 August 2018.



Appendix B

Lotsearch
Environmental
Risk & Planning
Report



Date: 06 Aug 2018 18:01:18

Reference: LS003932

Address: 146-154 O'Riordan Street, Mascot, NSW 2020

Disclaimer:

The purpose of this report is to provide an overview of some of the site history, environmental risk and planning information available, affecting an individual address or geographical area in which the property is located. It is not a substitute for an on-site inspection or review of other available reports and records. It is not intended to be, and should not be taken to be, a rating or assessment of the desirability or market value of the property or its features. You should obtain independent advice before you make any decision based on the information within the report. The detailed terms applicable to use of this report are set out at the end of this report.

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Location Confidences

Where Lotsearch has had to georeference features from supplied addresses, a location confidence has been assigned to the data record. This indicates a confidence to the positional accuracy of the feature. Where applicable, a confidence is given under the field heading "LocConf" or "Location Confidence".

| Location Confidence | Description |
|---------------------|---|
| Premise Match | Georeferenced to the site location / premise or part of site |
| Area Match | Georeferenced with the confidence of the general/approximate area |
| Road Match | Georeferenced to the road or rail |
| Road Intersection | Georeferenced to the road intersection |
| Buffered Point | Feature is a buffered point |
| Network of Features | Georeferenced to a network of features |

Dataset Listing

Datasets contained within this report, detailing their source and data currency:

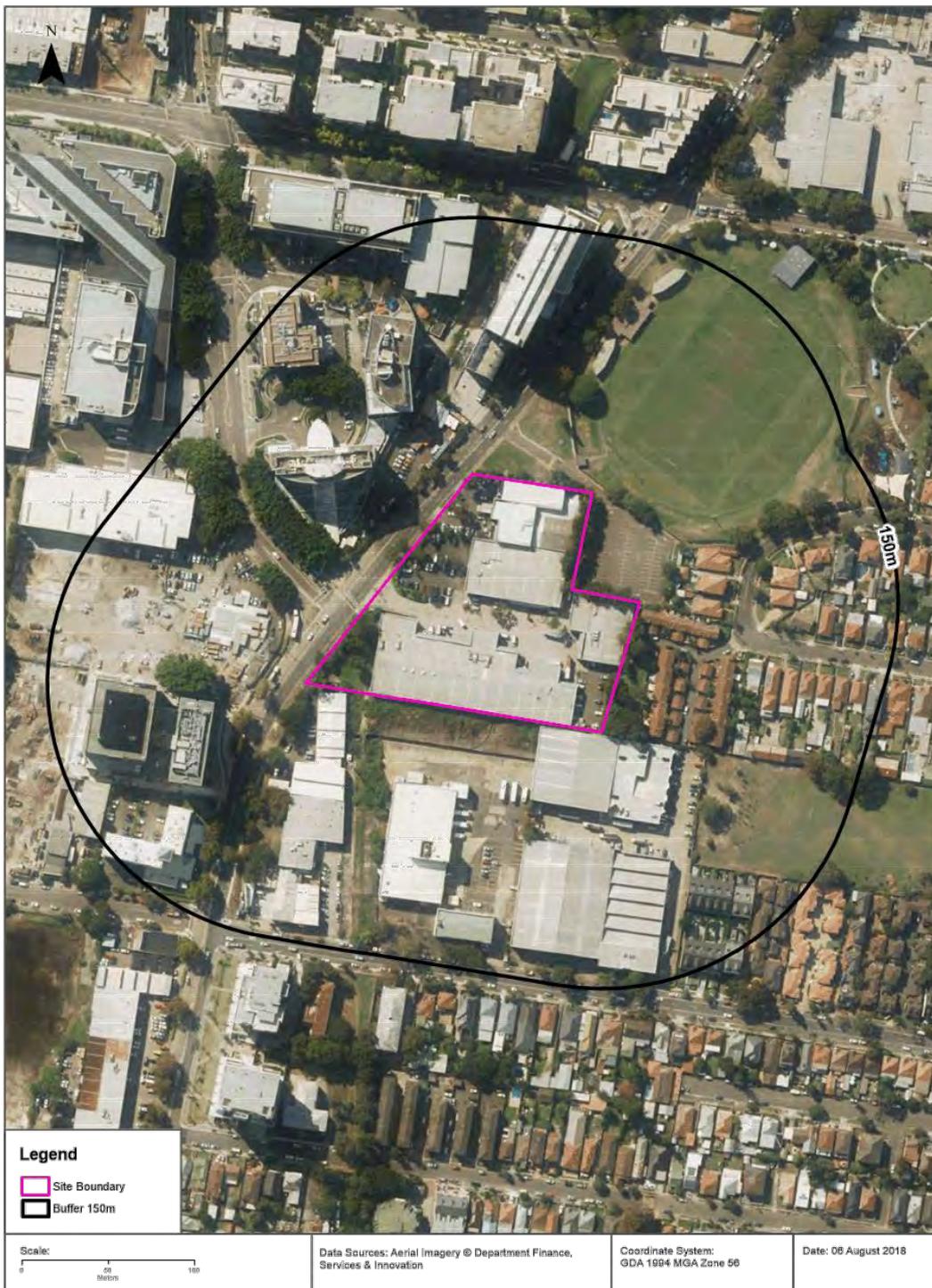
| Dataset Name | Custodian | Supply Date | Currency Date | Update Frequency | Dataset Buffer (m) | No. Features Onsite | No. Features within 100m | No. Features within Buffer |
|--|--------------------------------------|-------------|---------------|------------------|--------------------|---------------------|--------------------------|----------------------------|
| Cadastral Boundaries | Dept. Finance, Services & Innovation | 06/08/2018 | 06/08/2018 | Daily | - | - | - | - |
| Topographic Data | Dept. Finance, Services & Innovation | 17/07/2018 | 17/07/2018 | As required | - | - | - | - |
| List of NSW contaminated sites notified to EPA | Environment Protection Authority | 01/08/2018 | 02/07/2018 | Monthly | 1000 | 0 | 1 | 11 |
| Contaminated Land Records of Notice | Environment Protection Authority | 01/08/2018 | 01/08/2018 | Monthly | 1000 | 0 | 0 | 3 |
| Former Gasworks | Environment Protection Authority | 01/08/2018 | 11/10/2017 | Monthly | 1000 | 0 | 0 | 0 |
| National Waste Management Site Database | Geoscience Australia | 04/07/2018 | 07/03/2017 | Quarterly | 1000 | 0 | 0 | 0 |
| EPA PFAS Investigation Program | Environment Protection Authority | 04/07/2018 | 04/07/2018 | Monthly | 2000 | 0 | 0 | 1 |
| EPA Other Sites With Contamination Issues | Environment Protection Authority | 11/01/2018 | 11/01/2018 | As required | 1000 | 0 | 0 | 0 |
| Licensed Activities under the POEO Act 1997 | Environment Protection Authority | 02/08/2018 | 02/08/2018 | Monthly | 1000 | 0 | 1 | 6 |
| Delicensed POEO Activities still Regulated by the EPA | Environment Protection Authority | 02/08/2018 | 02/08/2018 | Monthly | 1000 | 0 | 0 | 7 |
| Former POEO Licensed Activities now revoked or surrendered | Environment Protection Authority | 02/08/2018 | 02/08/2018 | Monthly | 1000 | 0 | 0 | 10 |
| UPSS Environmentally Sensitive Zones | Environment Protection Authority | 14/04/2015 | 12/01/2010 | As required | 1000 | 1 | 1 | 1 |
| UBD Business to Business Directory 1991 (Premise & Intersection Matches) | Hardie Grant | | | Not required | 150 | 7 | 26 | 35 |
| UBD Business to Business Directory 1991 (Road & Area Matches) | Hardie Grant | | | Not required | 150 | - | 1 | 2 |
| UBD Business to Business Directory 1986 (Premise & Intersection Matches) | Hardie Grant | | | Not required | 150 | 15 | 33 | 50 |
| UBD Business to Business Directory 1986 (Road & Area Matches) | Hardie Grant | | | Not required | 150 | - | 7 | 37 |
| UBD Business Directory 1982 (Premise & Intersection Matches) | Hardie Grant | | | Not required | 150 | 1 | 28 | 43 |
| UBD Business Directory 1982 (Road & Area Matches) | Hardie Grant | | | Not required | 150 | - | 2 | 10 |
| UBD Business Directory 1978 (Premise & Intersection Matches) | Hardie Grant | | | Not required | 150 | 0 | 31 | 58 |
| UBD Business Directory 1978 (Road & Area Matches) | Hardie Grant | | | Not required | 150 | - | 3 | 12 |
| UBD Business Directory 1975 (Premise & Intersection Matches) | Hardie Grant | | | Not required | 150 | 0 | 40 | 66 |
| UBD Business Directory 1975 (Road & Area Matches) | Hardie Grant | | | Not required | 150 | - | 0 | 3 |
| UBD Business Directory 1970 (Premise & Intersection Matches) | Hardie Grant | | | Not required | 150 | 0 | 26 | 44 |
| UBD Business Directory 1970 (Road & Area Matches) | Hardie Grant | | | Not required | 150 | - | 1 | 3 |
| UBD Business Directory 1965 (Premise & Intersection Matches) | Hardie Grant | | | Not required | 150 | 12 | 53 | 73 |
| UBD Business Directory 1965 (Road & Area Matches) | Hardie Grant | | | Not required | 150 | - | 7 | 9 |
| UBD Business Directory 1961 (Premise & Intersection Matches) | Hardie Grant | | | Not required | 150 | 3 | 41 | 47 |
| UBD Business Directory 1961 (Road & Area Matches) | Hardie Grant | | | Not required | 150 | - | 15 | 19 |
| UBD Business Directory 1950 (Premise & Intersection Matches) | Hardie Grant | | | Not required | 150 | 0 | 5 | 5 |
| UBD Business Directory 1950 (Road & Area Matches) | Hardie Grant | | | Not required | 150 | - | 40 | 48 |

| Dataset Name | Custodian | Supply Date | Currency Date | Update Frequency | Dataset Buffer (m) | No. Features Onsite | No. Features within 100m | No. Features within Buffer |
|--|--|-------------|---------------|------------------|--------------------|---------------------|--------------------------|----------------------------|
| UBD Business Directory Drycleaners & Motor Garages/Service Stations (Premise & Intersection Matches) | Hardie Grant | | | Not required | 500 | 0 | 3 | 46 |
| UBD Business Directory Drycleaners & Motor Garages/Service Stations (Road & Area Matches) | Hardie Grant | | | Not required | 500 | - | 3 | 22 |
| Points of Interest | Dept. Finance, Services & Innovation | 17/07/2018 | 17/07/2018 | Quarterly | 1000 | 0 | 1 | 38 |
| Tanks (Areas) | Dept. Finance, Services & Innovation | 17/07/2018 | 17/07/2018 | Quarterly | 1000 | 0 | 0 | 0 |
| Tanks (Points) | Dept. Finance, Services & Innovation | 17/07/2018 | 17/07/2018 | Quarterly | 1000 | 0 | 0 | 0 |
| Major Easements | Dept. Finance, Services & Innovation | 17/07/2018 | 17/07/2018 | As required | 1000 | 0 | 1 | 5 |
| State Forest | Dept. Finance, Services & Innovation | 18/01/2018 | 18/01/2018 | As required | 1000 | 0 | 0 | 0 |
| NSW National Parks and Wildlife Service Reserves | NSW Office of Environment & Heritage | 18/01/2018 | 30/09/2017 | Annually | 1000 | 0 | 0 | 0 |
| Hydrogeology Map of Australia | Commonwealth of Australia (Geoscience Australia) | 08/10/2014 | 17/03/2000 | As required | 1000 | 1 | 1 | 1 |
| Botany Groundwater Management Zones | NSW Department of Primary Industries | 15/03/2018 | 01/10/2005 | As required | 1000 | 0 | 1 | 1 |
| Groundwater Boreholes | NSW Dept. of Primary Industries - Water NSW; Commonwealth of Australia (Bureau of Meteorology) | 24/07/2018 | 23/07/2018 | Annually | 2000 | 0 | 1 | 323 |
| Geological Units 1:100,000 | NSW Dept. of Industry, Resources & Energy | 20/08/2014 | | None planned | 1000 | 1 | - | 4 |
| Geological Structures 1:100,000 | NSW Dept. of Industry, Resources & Energy | 20/08/2014 | | None planned | 1000 | 0 | - | 0 |
| Naturally Occurring Asbestos Potential | NSW Dept. of Industry, Resources & Energy | 04/12/2015 | 24/09/2015 | Unknown | 1000 | 0 | 0 | 0 |
| Soil Landscapes | NSW Office of Environment & Heritage | 12/08/2014 | | None planned | 1000 | 1 | - | 2 |
| Atlas of Australian Soils | CSIRO | 19/05/2017 | 17/02/2011 | As required | 1000 | 1 | 1 | 1 |
| Standard Local Environmental Plan Acid Sulfate Soils | NSW Planning and Environment | 07/10/2016 | 07/10/2016 | As required | 500 | 1 | - | - |
| Atlas of Australian Acid Sulfate Soils | CSIRO | 19/01/2017 | 21/02/2013 | As required | 1000 | 1 | 1 | 3 |
| Dryland Salinity - National Assessment | National Land and Water Resources Audit | 18/07/2014 | 12/05/2013 | None planned | 1000 | 0 | 0 | 0 |
| Dryland Salinity Potential of Western Sydney | NSW Office of Environment & Heritage | 12/05/2017 | 01/01/2002 | None planned | 1000 | - | - | - |
| Mining Subsidence Districts | Dept. Finance, Services & Innovation | 13/07/2017 | 01/07/2017 | As required | 1000 | 0 | 0 | 0 |
| SEPP 14 - Coastal Wetlands | NSW Planning and Environment | 17/12/2015 | 24/10/2008 | Annually | 1000 | 0 | 0 | 0 |
| SEPP 26 - Littoral Rainforest | NSW Planning and Environment | 17/12/2015 | 05/02/1988 | Annually | 1000 | 0 | 0 | 0 |
| SEPP 71 - Coastal Protection | NSW Planning and Environment | 17/12/2015 | 01/09/2003 | Annually | 1000 | 0 | 0 | 0 |
| SEPP Major Developments 2005 | NSW Planning and Environment | 09/03/2013 | 25/05/2005 | Under Review | 1000 | 0 | 0 | 0 |
| SEPP Strategic Land Use Areas | NSW Planning and Environment | 01/08/2017 | 28/01/2014 | Annually | 1000 | 0 | 0 | 0 |
| LEP - Land Zoning | NSW Planning and Environment | 11/04/2018 | 16/03/2018 | Quarterly | 1000 | 1 | 11 | 72 |
| LEP - Minimum Subdivision Lot Size | NSW Planning and Environment | 04/04/2018 | 23/03/2018 | Quarterly | 0 | 0 | - | - |
| LEP - Height of Building | NSW Planning and Environment | 04/04/2018 | 23/03/2018 | Quarterly | 0 | 1 | - | - |
| LEP - Floor Space Ratio | NSW Planning and Environment | 04/04/2018 | 23/03/2018 | Quarterly | 0 | 1 | - | - |
| LEP - Land Application | NSW Planning and Environment | 04/04/2018 | 23/03/2018 | Quarterly | 0 | 1 | - | - |
| LEP - Land Reservation Acquisition | NSW Planning and Environment | 04/04/2018 | 09/03/2018 | Quarterly | 0 | 0 | - | - |
| State Heritage Items | NSW Office of Environment & Heritage | 04/04/2018 | 30/09/2016 | Quarterly | 1000 | 0 | 0 | 0 |

| Dataset Name | Custodian | Supply Date | Currency Date | Update Frequency | Dataset Buffer (m) | No. Features Onsite | No. Features within 100m | No. Features within Buffer |
|---|---|-------------|---------------|------------------|--------------------|---------------------|--------------------------|----------------------------|
| Local Heritage Items | NSW Planning and Environment | 04/04/2018 | 23/03/2018 | Quarterly | 1000 | 0 | 2 | 77 |
| Bush Fire Prone Land | NSW Rural Fire Service | 10/05/2018 | 23/01/2018 | Quarterly | 1000 | 0 | 0 | 0 |
| Native Vegetation of the Sydney Metropolitan Area | NSW Office of Environment & Heritage | 01/03/2017 | 16/12/2016 | As required | 1000 | 1 | 1 | 2 |
| RAMSAR Wetlands | Commonwealth of Australia Department of the Environment | 08/10/2014 | 24/06/2011 | As required | 1000 | 0 | 0 | 0 |
| Groundwater Dependent Ecosystems | Bureau of Meteorology | 14/08/2017 | 15/05/2017 | Unknown | 1000 | 0 | 0 | 0 |
| Inflow Dependent Ecosystems Likelihood | Bureau of Meteorology | 14/08/2017 | 15/05/2017 | Unknown | 1000 | 0 | 0 | 0 |
| NSW BioNet Species Sightings | NSW Office of Environment & Heritage | 02/08/2018 | 02/08/2018 | Daily | 10000 | | | |

Aerial Imagery 2016

146-154 O'Riordan Street, Mascot, NSW 2020

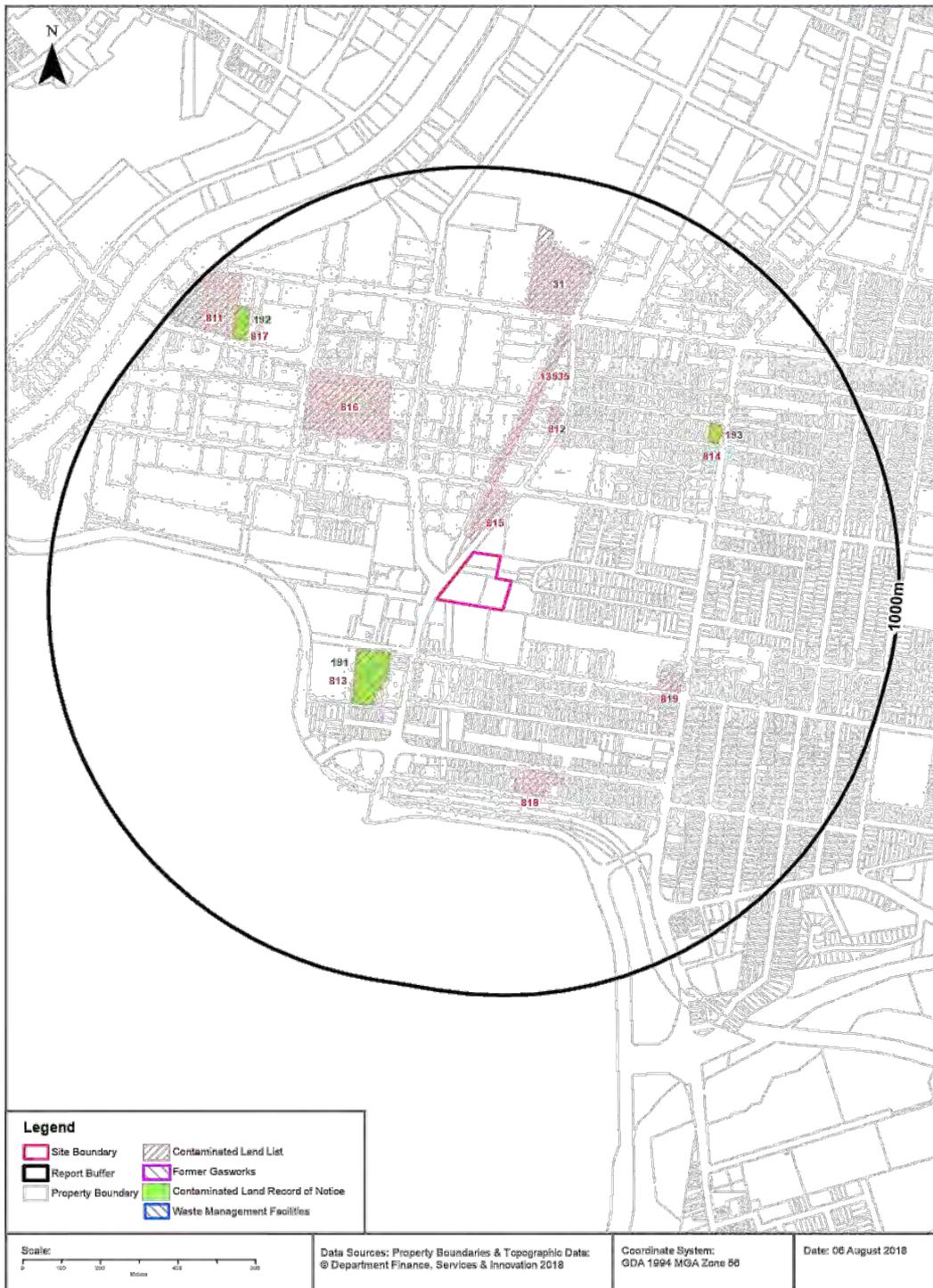
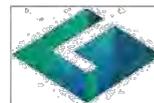


Lotsearch Pty Ltd ABN 89 600 168 018

6

Contaminated Land & Waste Management Facilities

146-154 O'Riordan Street, Mascot, NSW 2020



Lotsearch Pty Ltd ABN 89 600 138 016

7

Contaminated Land & Waste Management Facilities

146-154 O'Riordan Street, Mascot, NSW 2020

List of NSW contaminated sites notified to EPA

Records from the NSW EPA Contaminated Land list within the dataset buffer:

| Map Id | Site | Address | Suburb | Activity | Management Class | Status | Location Confidence | Dist (m) | Direction |
|--------|---|-----------------------------|------------|-----------------|---|------------------|---------------------|----------|------------|
| 815 | Former Zinc Smelter and Paint Manufacturing Facility | 163 O'Riordan Street | Mascot | Metal Industry | Regulation under CLM Act not required | Current EPA List | Premise Match | 30m | North |
| 813 | Former Mascot Galvanising | 336-348 King Street | Mascot | Metal Industry | Contamination currently regulated under CLM Act | Current EPA List | Premise Match | 183m | South West |
| 13535 | Linear Park | Lot 2, 3, 4 & 5 in DP 85917 | MASCOT | Landfill | Regulation under CLM Act not required | Current EPA List | Premise Match | 186m | North |
| 812 | Callex Service Station | 125 O'Riordan Street | Mascot | Service Station | Regulation under CLM Act not required | Current EPA List | Premise Match | 357m | North East |
| 816 | Ing Industrial Fund (unoccupied Land and General Parking) | 19-33 Kent Road | Mascot | Landfill | Regulation under CLM Act not required | Current EPA List | Premise Match | 361m | North West |
| 818 | Sokol Corporation | 50-56 Robey Street | Mascot | Other Industry | Regulation under CLM Act not required | Current EPA List | Premise Match | 419m | South |
| 819 | Telstra Exchange | 904-922 Botany Road | Mascot | Other Industry | Regulation under CLM Act not required | Current EPA List | Premise Match | 439m | South East |
| 814 | Former Shell Service Station Mascot | 746 Botany Road | Mascot | Service Station | Contamination currently regulated under CLM Act | Current EPA List | Premise Match | 612m | North East |
| 31 | Mascot Developments | 494-504 Gardeners Road | Alexandria | Other Industry | Regulation under CLM Act not required | Current EPA List | Premise Match | 647m | North |
| 817 | Mascot Pioneer Plating | 25-29 Ricketty Street | Mascot | Metal Industry | Contamination currently regulated under CLM Act | Current EPA List | Premise Match | 804m | North West |
| 811 | Heritage Business Centre | 5-9 Ricketty Street | Mascot | Unclassified | Regulation under CLM Act not required | Current EPA List | Premise Match | 836m | North West |

The values within the EPA site management class in the table above, are given more detailed explanations in the table below:

| EPA site management class | Explanation |
|---|---|
| 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. |

| EPA site management class | Explanation |
|---|--|
| 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 of Notices. |
| Contamination currently regulated under POEO Act | The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation. Management of the contamination is regulated under the Protection of the Environment Operations Act 1997 (POEO Act). The EPA's regulatory actions under the POEO Act are available on the POEO public register. |
| 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 of Notices. |
| 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. |
| Regulation under the 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. |
| 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. Alternatively, the EPA may require information via a notice issued under s77 of the Contaminated Land Management Act 1997 or issue a Preliminary Investigation Order. |

NSW EPA Contaminated Land List Data Source: Environment Protection Authority
 © State of New South Wales through the Environment Protection Authority

Contaminated Land & Waste Management Facilities

146-154 O'Riordan Street, Mascot, NSW 2020

Contaminated Land: Records of Notice

Record of Notices within the dataset buffer:

| Map Id | Name | Address | Suburb | Notices | Area No | Location Confidence | Distance | Direction |
|--------|-------------------------------------|-----------------------|--------|------------------------|---------|---------------------|----------|------------|
| 191 | Former Mascot Galvanising | 336-348 King Street | Mascot | 5 current and 2 former | 3125 | Premise Match | 183m | South West |
| 193 | Former Shell Service Station Mascot | 746 Botany Road | Mascot | 6 current and 1 former | 3192 | Premise Match | 512m | North East |
| 192 | Mascot Pioneer Plating | 25-29 Ricketty Street | Mascot | 1 current | 3347 | Premise Match | 804m | North West |

Contaminated Land Records of Notice Data Source: Environment Protection Authority
 © State of New South Wales through the Environment Protection Authority
 Terms of use and disclaimer for Contaminated Land: Record of Notices, please visit
<http://www.epa.nsw.gov.au/clm/clmDisclaimer.htm>

Former Gasworks

Former Gasworks within the dataset buffer:

| Map Id | Location | Council | Further Info | Location Confidence | Distance | Direction |
|--------|----------------------|---------|--------------|---------------------|----------|-----------|
| N/A | No records in buffer | | | | | |

Former Gasworks Data Source: Environment Protection Authority
 © State of New South Wales through the Environment Protection Authority

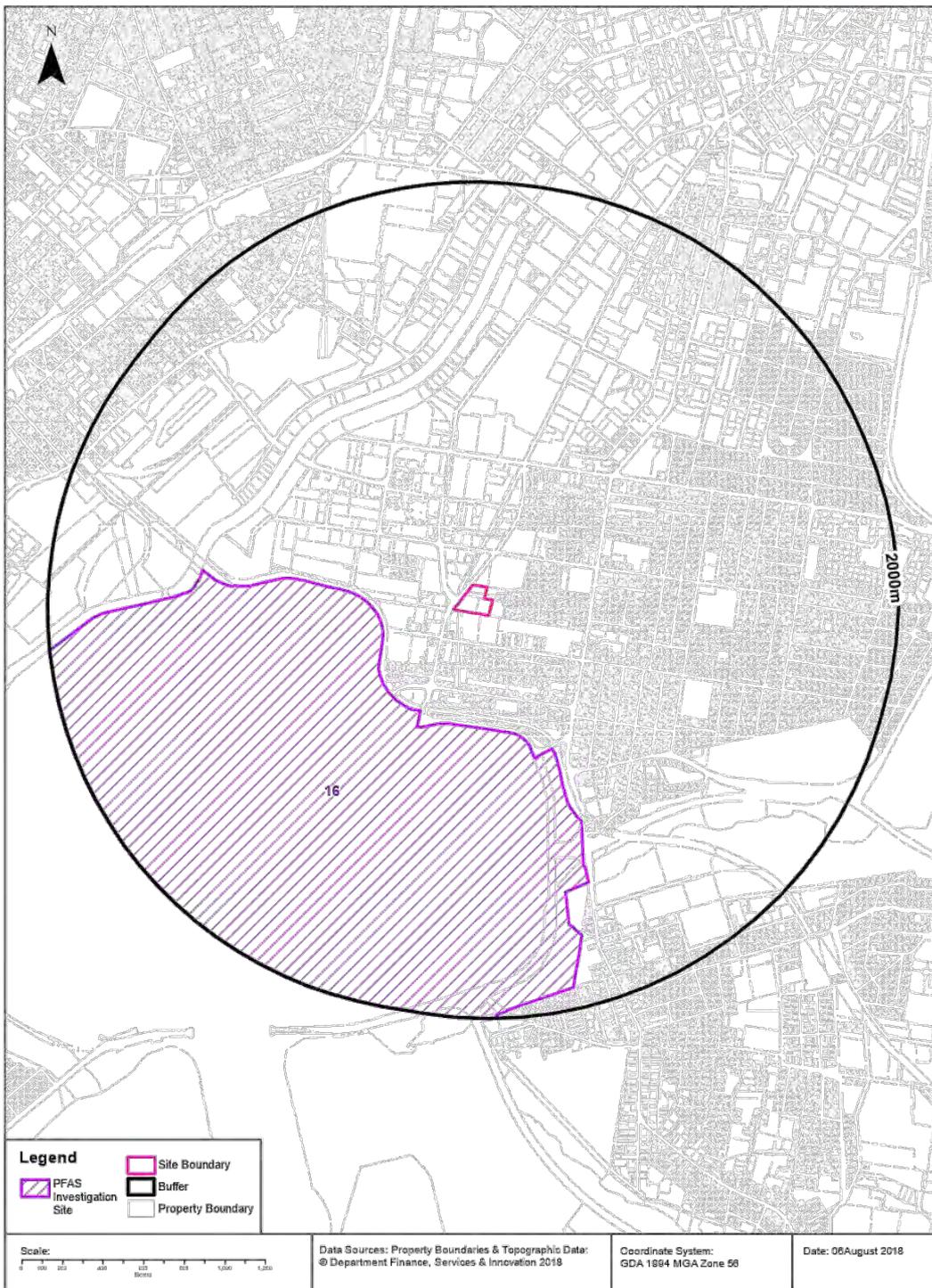
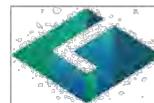
National Waste Management Site Database

Sites on the National Waste Management Site Database within the dataset buffer:

| Site Id | Owner | Name | Address | Suburb | Class | Landfill | Reprocess | Transfer | Comments | Loc Conf | Dist (m) | Direction |
|---------|----------------------|------|---------|--------|-------|----------|-----------|----------|----------|----------|----------|-----------|
| N/A | No records in buffer | | | | | | | | | | | |

Waste Management Facilities Data Source: Geoscience Australia
 Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

EPA PFAS Investigation Program
146-154 O’Riordan Street, Mascot, NSW 2020



Lotsearch Pty Ltd ABN 89 600 188 018

11

EPA PFAS Investigation Program

146-154 O’Riordan Street, Mascot, NSW 2020

EPA PFAS Investigation Program

Sites that are part of the EPA PFAS investigation program, within the dataset buffer:

| Id | Site | Address | Location Confidence | Distance | Direction |
|----|---------------------------------|---------------------------------|-------------------------------|----------|-----------|
| 16 | Botany Bay area & Georges River | Botany Bay area & Georges River | General Area/ Suburb Match | 361m | South |

EPA PFAS Investigation Program: Environment Protection Authority
© State of New South Wales through the Environment Protection Authority

EPA Other Sites with Contamination Issues

146-154 O’Riordan Street, Mascot, NSW 2020

EPA Other Sites with Contamination Issues

This dataset contains other sites identified on the EPA website as having contamination issues. This dataset currently includes:

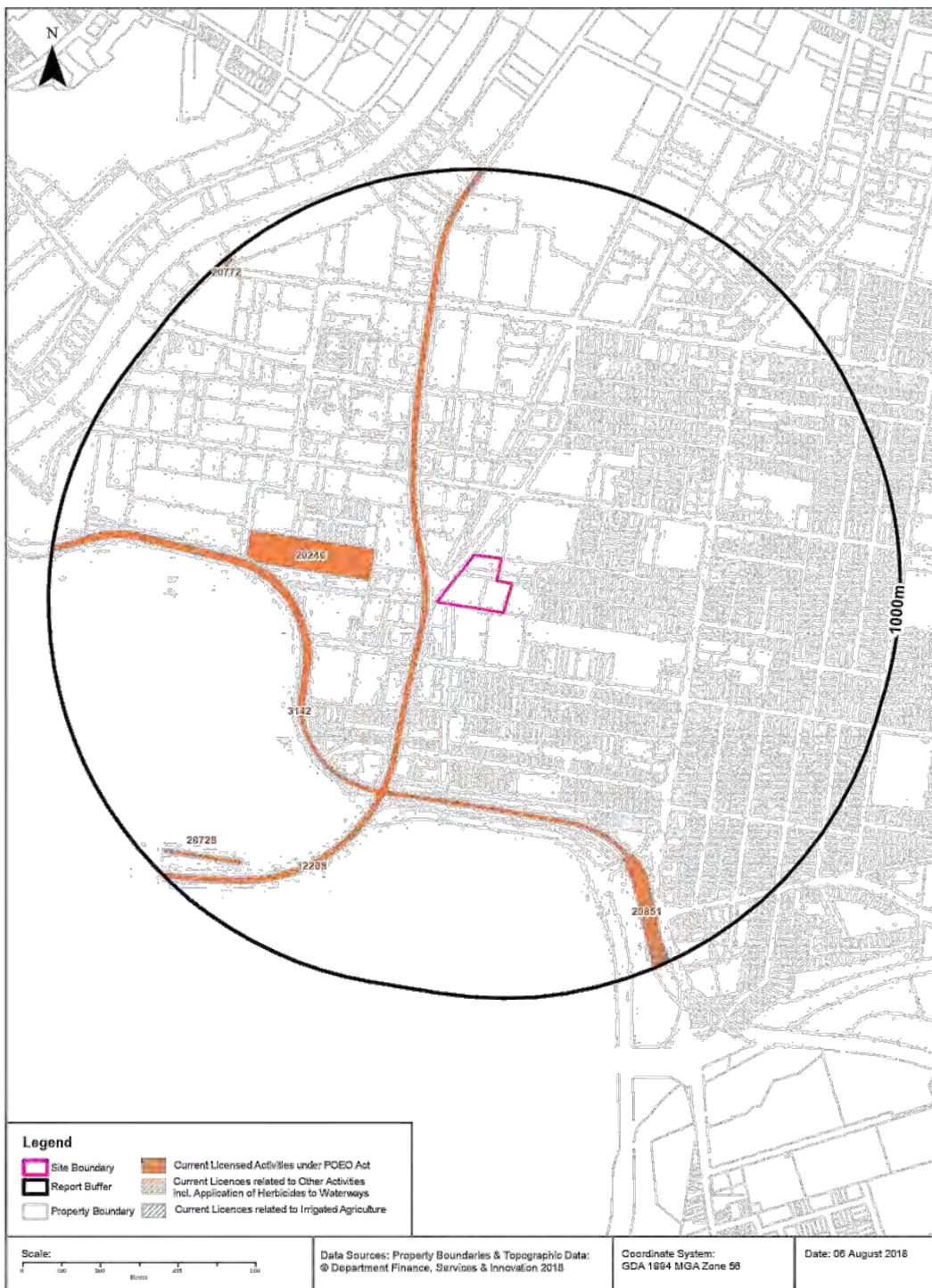
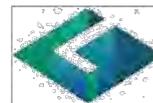
- James Hardie asbestos manufacturing and waste disposal sites
- Radiological investigation sites in Hunter’s Hill

Sites within the dataset buffer:

| Site Id | Site Name | Site Address | Dataset | Comments | Location Confidence | Distance | Direction |
|---------|----------------------|--------------|---------|----------|---------------------|----------|-----------|
| N/A | No records in buffer | | | | | | |

EPA Other Sites with Contamination Issues: Environment Protection Authority
 © State of New South Wales through the Environment Protection Authority

Current EPA Licensed Activities 146-154 O’Riordan Street, Mascot, NSW 2020



EPA Activities

146-154 O'Riordan Street, Mascot, NSW 2020

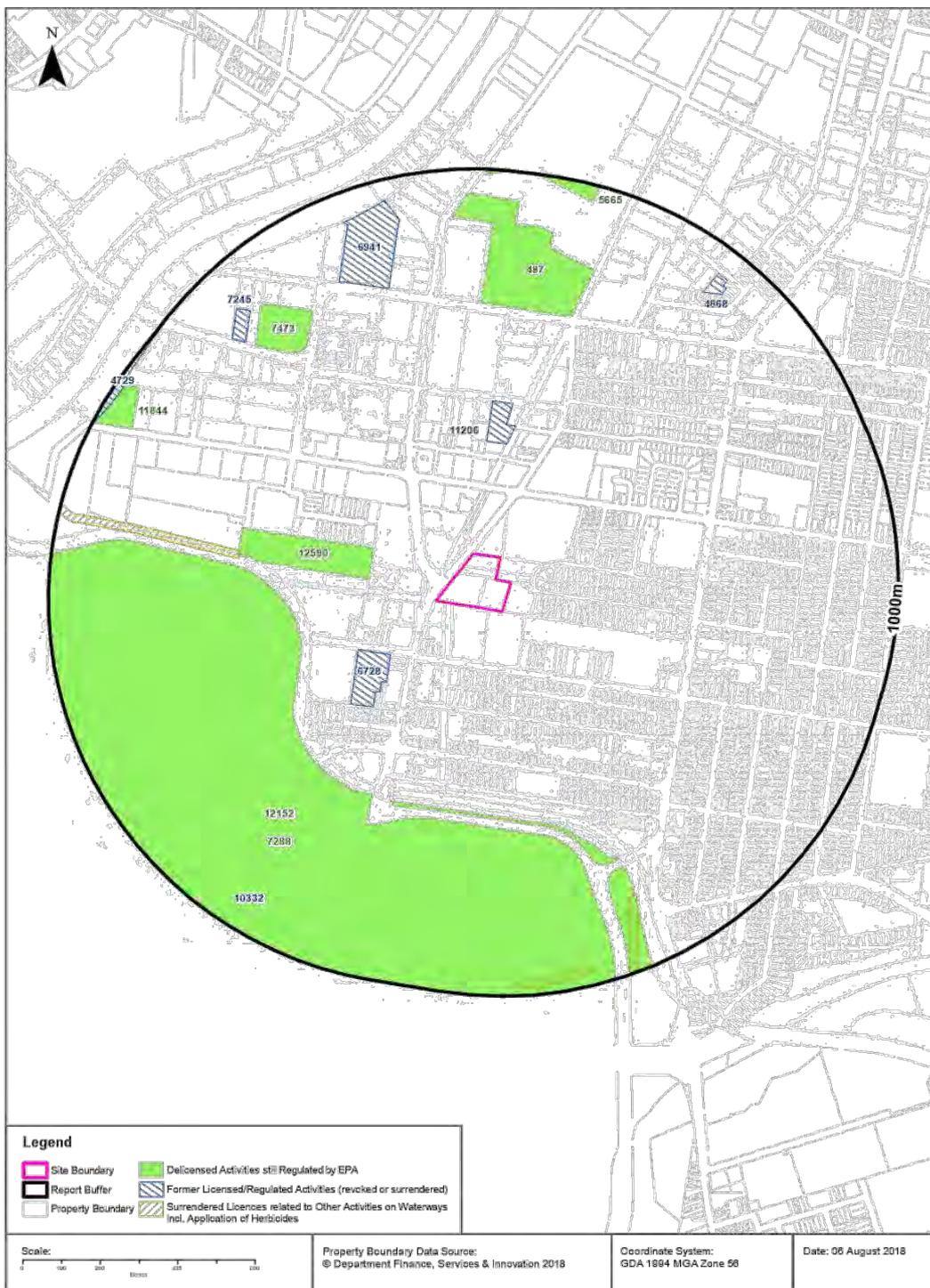
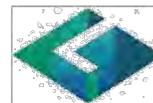
Licensed Activities under the POEO Act 1997

Licensed activities under the Protection of the Environment Operations Act 1997, within the dataset buffer:

| EPL | Organisation | Name | Address | Suburb | Activity | Loc Conf | Distance | Direction |
|-------|--|----------------------|---|---------------------|---|------------------------|----------|------------|
| 12208 | SYDNEY TRAINS | | PO BOX K349, HAYMARKET, NSW 1238 | | Railway systems activities | Road Match | 22m | West |
| 20246 | ENWAVE MASCOT PTY LTD | GridX Power Pty Ltd | 10 Bourke Road | MASCOT | Generation of electrical power from gas | Premise Match | 181m | West |
| 3142 | AUSTRALIAN RAIL TRACK CORPORATION LIMITED | | GPO BOX 14, SYDNEY, NSW 2001 | | Railway systems activities | Network of Features | 280m | South West |
| 20851 | JOHN HOLLAND PTY LTD | | Port Botany Freight Rail Corridor at General Holmes Dr, MASCOT, NSW 2020 | | Railway systems activities | Road Match | 710m | South East |
| 20728 | ENWAVE MASCOT PTY LTD | | Shiers Avenue, MASCOT, NSW 2020 | MASCOT, NSW 2020 | Generation of Electrical Power from Gas | Road Match | 839m | South West |
| 20772 | CPB CONTRACTORS PTY LIMITED | WESTCONNEX NEW M5 | Between Beverly Hills and St Peters, BEVERLY HILLS, NSW 2209 | | Road construction | Road Match | 981m | North West |

POEO Licence Data Source: Environment Protection Authority
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Delicensed & Former Licensed EPA Activities 146-154 O'Riordan Street, Mascot, NSW 2020



Lotsearch Pty Ltd ABN 89 600 138 018

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EPA Activities

146-154 O'Riordan Street, Mascot, NSW 2020

Delicensed Activities still regulated by the EPA

Delicensed activities still regulated by the EPA, within the dataset buffer:

| Licence No | Organisation | Name | Address | Suburb | Activity | Loc. Conf | Distance | Direction |
|------------|--|--------------------------------|-----------------------------------|------------|--|---------------|----------|------------|
| 12590 | QANTAS FLIGHT CATERING LIMITED | Qantas Flight Catering Centre | Qantas Jet Base (Kingsford Smith) | MASCOT | Hazardous, Industrial or Group A Waste Generation or Storage | Premise Match | 181m | West |
| 12152 | QANTAS AIRWAYS LIMITED | Qantas Jet Base | Sydney Airport | MASCOT | Hazardous, Industrial or Group A Waste Generation or Storage | Premise Match | 361m | South West |
| 7288 | SYDNEY AIRPORT CORPORATION LIMITED | SYDNEY AIRPORT | 241 O'RIORDAN STREET | MASCOT | Hazardous, Industrial or Group A Waste Generation or Storage | Premise Match | 361m | South West |
| 487 | GOODMAN FIELDER CONSUMER FOODS PTY LIMITED | GOODMAN FIELDER COMMERCIAL | 198 Bourke Road | MASCOT | Hazardous, Industrial or Group A Waste Generation or Storage | Premise Match | 547m | North |
| 7473 | EATON ELECTRIC SYSTEMS PTY LTD | EATON ELECTRIC SYSTEMS PTY LTD | 10 KENT ROAD | MASCOT | Hazardous, Industrial or Group A Waste Generation or Storage | Premise Match | 687m | North West |
| 11844 | HY-TEC INDUSTRIES PTY LTD | HY-TEC INDUSTRIES PTY LTD | 296 COWARD STREET | MASCOT | Concrete works | Premise Match | 901m | North West |
| 5665 | HANNANPRINT NSW PTY LIMITED | HANNANPRINT NSW | 55 DOODY STREET | ALEXANDRIA | Hazardous, Industrial or Group A Waste Generation or Storage | Premise Match | 956m | North |

Delicensed Activities Data Source: Environment Protection Authority
© State of New South Wales through the Environment Protection Authority

Former Licensed Activities under the POEO Act 1997, now revoked or surrendered

Former Licensed activities under the Protection of the Environment Operations Act 1997, now revoked or surrendered, within the dataset buffer:

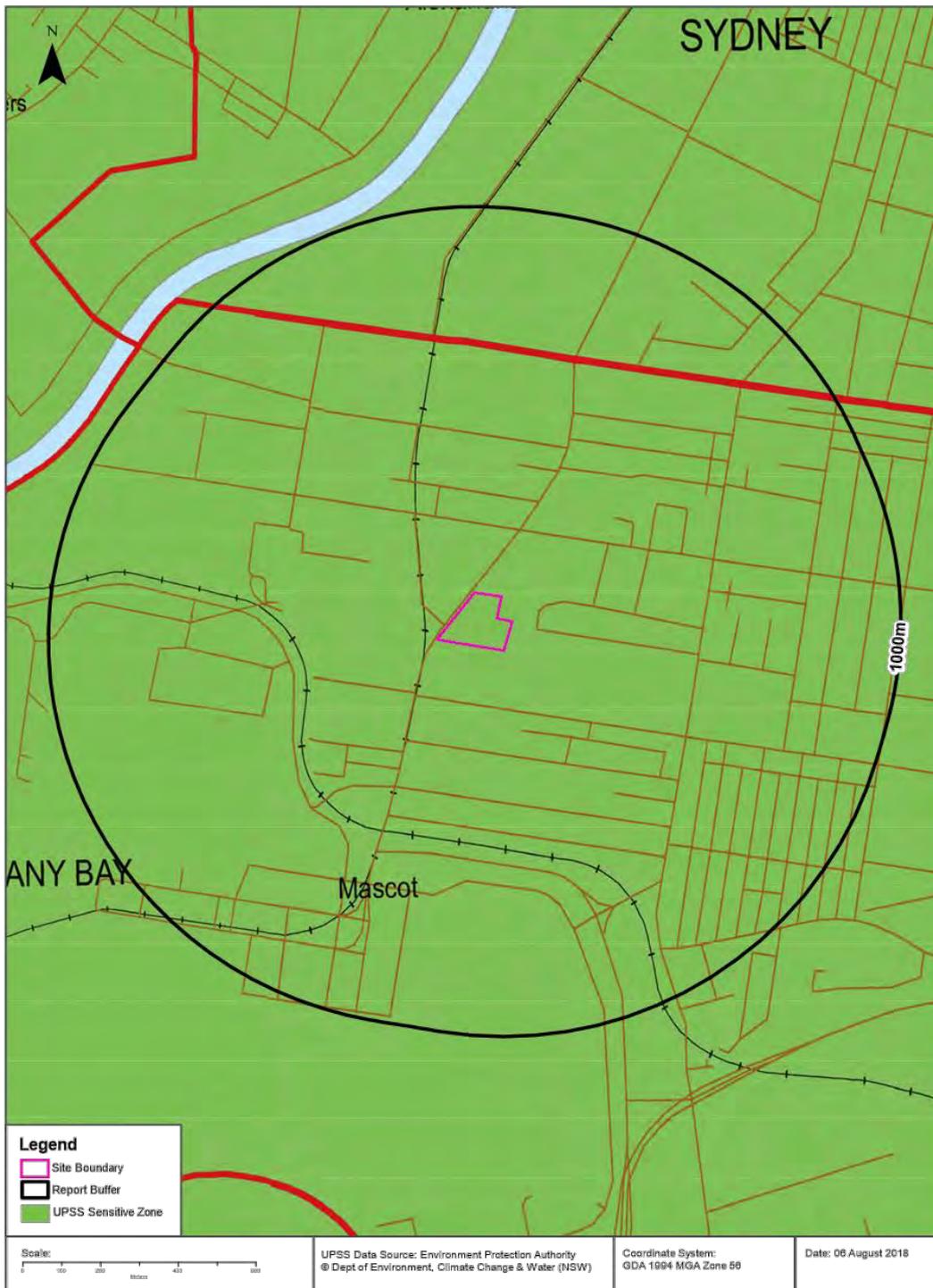
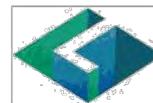
| Licence No | Organisation | Location | Status | Issued Date | Activity | Loc Conf | Distance | Direction |
|------------|--|--|-------------|-------------|---|---------------------|----------|------------|
| 6728 | INDUSTRIAL GALVANIZERS CORPORATION PTY LTD | 342 KING STREET, MASCOT, NSW 2020 | Surrendered | 30/08/2000 | Hazardous, Industrial or Group A Waste Generation or Storage | Premise Match | 183m | South West |
| 11206 | EMILY SULLIVAN | 7 CHURCH AVENUE, MASCOT, NSW 2020 | Surrendered | 23/08/2000 | Hazardous, Industrial or Group A Waste Generation or Storage | Premise Match | 294m | North |
| 6630 | SYDNEY WEED & PEST MANAGEMENT PTY LTD | WATERWAYS THROUGHOUT NSW - PROSPECT, NSW, 2148 | Surrendered | | Other Activities / Non Scheduled Activity - Application of Herbicides | Network of Features | 520m | - |
| 4653 | LUHRMANN ENVIRONMENT MANAGEMENT PTY LTD | WATERWAYS THROUGHOUT NSW | Surrendered | | Other Activities / Non Scheduled Activity - Application of Herbicides | Network of Features | 520m | - |

| License No | Organisation | Location | Status | Issue Date | Activity | Loc Cont | Distance | Direction |
|------------|----------------------------------|--|-------------|------------|--|---------------------|----------|------------|
| 4838 | Robert Orchard | Various Waterways throughout New South Wales - SYDNEY NSW 2000 | Surrendered | | Other Activities / Non Scheduled Activity - Application of Herbicides | Network of Features | 520m | - |
| 6941 | FUJI XEROX AUSTRALIA PTY LIMITED | 546 GARDENERS ROAD, ALEXANDRIA, NSW 2015 | Surrendered | 26/06/2000 | Hazardous, Industrial or Group A Waste Generation or Storage | Premise Match | 722m | North |
| 7245 | PLATING 'R US PTY LTD | 25-29 RICKETTY STREET, MASCOT, NSW 2020 | Surrendered | 26/06/2000 | Hazardous, Industrial or Group A Waste Generation or Storage | Premise Match | 804m | North West |
| 4868 | CON DIONYS | 1 BRADFORD STREET, BEACONSFIELD, NSW 2015 | Revoked | 30/04/2012 | Waste Storage, Transfer, Separating or Processing | Premise Match | 867m | North East |
| 10332 | GATE GOURMET AUSTRALIA PTY LTD | KEITH SMITH AVE & SIXTH ST, MASCOT, NSW 2020 | Revoked | 11/01/2000 | Hazardous, Industrial or Group A Waste Generation or Storage | Road Intersection | 896m | South West |
| 4729 | D CATERING RIVERSIDE PTY LIMITED | 300 COWARD STREET, MASCOT, NSW 2020 | Surrendered | 22/12/2000 | Non-thermal treatment of hazardous and other waste, Waste storage - hazardous, restricted solid, liquid, chemical and related waste and asbestos waste | Premise Match | 979m | North West |

Former Licensed Activities Data Source: Environment Protection Authority
 © State of New South Wales through the Environment Protection Authority

UPSS Sensitive Zones

146-154 O'Riordan Street, Mascot, NSW 2020



1991 Historical Business Directory Records
 146-154 O’Riordan Street, Mascot, NSW 2020



Historical Business Directories

146-154 O'Riordan Street, Mascot, NSW 2020

1991 Business to Business Directory Records Premise or Road Intersection Matches

Records from the 1991 UBD Business to Business Directory, mapped to a premise or road intersection, within the dataset buffer:

| Business Activity | Premise | Ref No. | Location Confidence | Distance to Feature Point | Direction |
|--|--|---------|---------------------|---------------------------|------------|
| Freight Forwarders | C.T. Freight Pty Ltd, 146 O'Riordan St Mascot 2020 | 46459 | Premise Match | 0m | Onsite |
| Freight Forwarders | Nippon Express Pty Ltd, 1/154 O'Riordan St Mascot 2020 | 46509 | Premise Match | 0m | Onsite |
| Freight Forwarders | Rainers Customs & Transport Services Pty Ltd, 4/154 O'Riordan St Mascot 2020 | 46518 | Premise Match | 0m | Onsite |
| Freight Forwarders | Tradeair International Freight Forwarding Services Pty Ltd, 2/154 O'Riordan St Mascot 2020 | 46526 | Premise Match | 0m | Onsite |
| Air Cargo Agents | Air Express International Pandair, 6/154 O'Riordan St, Mascot 2020 | 33678 | Premise Match | 0m | Onsite |
| Air Cargo Agents | Ansett International Air Freight 7/154 O'Riordan St, Mascot 2020 | 33682 | Premise Match | 0m | Onsite |
| Air Cargo Agents | International Cargo World Australia Pty. Ltd., 7/154 O'Riordan St., Mascot 2020 | 33715 | Premise Match | 0m | Onsite |
| Motor Spare Parts Mfrs &/or Imps &/or W/salers | Dana Ausfield Automotive Parts Distribution, 166 O'Riordan St, Mascot 2020 | 55063 | Premise Match | 35m | South West |
| Air Cargo Agents | John Fletcher International, 166 O' Riordan St., Mascot 2020 | 33718 | Premise Match | 35m | South West |
| Freight Forwarders | Cargo Plan International, 263 King St Mascot 2020 | 46462 | Premise Match | 69m | South |
| Customs Agents | Powerhouse Clearances Pty. Ltd., 263 King St., Mascot. 2020 | 41179 | Premise Match | 69m | South |
| Customs Agents | Snodgrass, W. K. & Associates Pty. Ltd. 263 King St, Mascot. 2020. | 41188 | Premise Match | 69m | South |
| Caterers | Steels Aviation Services Pty. Ltd., 263 King St, Mascot 2020 | 38612 | Premise Match | 69m | South |
| Clothing Mfrs &/or W/salers Industrial | Andrews. A. Pty. Ltd. 247 King St, Mascot. 2020 | 39307 | Premise Match | 71m | South East |
| Freight Forwarders | Asia Pacific Transportation, 247 King St Mascot 2020 | 46448 | Premise Match | 71m | South East |
| Freight Forwarders | Associated Transportation, 247 King St Mascot 2020 | 46449 | Premise Match | 71m | South East |
| Freight Forwarders | Brambles International Freight Pty Ltd, 247 King St Mascot 2020 | 46456 | Premise Match | 71m | South East |
| Freight Forwarders | Cargo Handling, 247 King St Mascot 2020 | 46461 | Premise Match | 71m | South East |
| Freight Forwarders | Hawk Air/Sea Cargo, 247 King St Mascot 2020 | 46484 | Premise Match | 71m | South East |
| Freight Forwarders | Michell Cotts Pty Ltd, 247 King St Mascot 2020 | 46502 | Premise Match | 71m | South East |
| Freight Forwarders | Qatco Pty Ltd, 247 King St Mascot 2020 | 46517 | Premise Match | 71m | South East |
| Air Cargo Agents | CH International Airfreight Pty. Ltd., 247 King St., Mascot 2020 | 33693 | Premise Match | 71m | South East |
| Air Cargo Agents | Hawk Air/Sea Cargo, 247 King St., Mascot 2020 | 33711 | Premise Match | 71m | South East |
| Air Cargo Agents | Michell Cotts Freight (Aust) Pty Ltd, 247 Kings St, Mascot 2020 | 33726 | Premise Match | 71m | South East |
| Freight Forwarders | Strang International Pty Ltd, 185 O'Riordan St Mascot 2020 | 46524 | Premise Match | 78m | West |
| Adhesive Mfrs &/or Imps &/or Dist | Emhart Australia Pty. Ltd., 191 O' Riordan St., Mascot 2020 | 33411 | Premise Match | 93m | West |
| Aircraft Mfrs &/or Imps &/or Dist | Aeromil, 277 King St, Mascot 2020 | 34229 | Premise Match | 125m | South West |
| Air Cargo Agents | Australian Air Freight Forwarders Pty Ltd, 279 Kings St, Mascot 2020 | 33685 | Premise Match | 125m | South West |

| Business Activity | Premise | Ref No. | Location Confidence | Distance to Feature Point | Direction |
|-----------------------------------|---|---------|---------------------|---------------------------|------------|
| Air Cargo Agents | Hency (Australia) Pty. Ltd., 279 King St., Mascot 2020 | 33712 | Premise Match | 125m | South West |
| Gear Cutters &/or Mfrs | Austral Engineering Products Pty Ltd, 205-213 O'Riordan St Mascot 2020 | 47545 | Premise Match | 127m | South West |
| Gear Cutters &/or Mfrs | Austral Engineering Products Pty Ltd, 209 O'Riordan St Mascot 2020 | 47546 | Premise Match | 127m | South West |
| Engineers Fabricating | A E P. Sheet Metal Pty Ltd, 205 O'Riordan St Mascot 2020 | 43676 | Premise Match | 127m | South West |
| Engineers General | Austral Engineering Products Pty Ltd, 205-213 O'Riordan St Mascot 2020 | 43892 | Premise Match | 127m | South West |
| Engineers General | Austral Engineering Products Pty Ltd, 209 O'Riordan St Mascot 2020 | 43893 | Premise Match | 127m | South West |
| Aircraft Mfrs &/or Imps &/or Dist | British Aerospace (Commercial Aircraft), Level 1 Sydney Airport Centre, 15 Bourke Rd, Mascot 2020 | 34232 | Premise Match | 133m | North West |

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

1991 Business to Business Directory Records Road or Area Matches

Records from the 1991 UBD Business to Business Directory, mapped to a road or an area, within the dataset buffer. Records are mapped to the road when a building number is not supplied, cannot be found, or the road has been renumbered since the directory was published:

| Business Activity | Premise | Ref No. | Location Confidence | Distance to Road Corridor or Area |
|---------------------------|---|---------|---------------------|-----------------------------------|
| Golf Equipment & Supplies | Zimmerer A J Pty. Ltd., 128 O'Riordan St Mascot 2020 | 47918 | Road Match | 0m |
| Galvanising &/or Timing | Mascot Galvanising Works Pty Ltd, 342 King St Mascot 2020 | 47415 | Road Match | 140m |

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

1986 Historical Business Directory Records
 146-154 O’Riordan Street, Mascot, NSW 2020



Historical Business Directories

146-154 O'Riordan Street, Mascot, NSW 2020

1986 Business to Business Directory Records Premise or Road Intersection Matches

Records from the 1986 UBD Business to Business Directory, mapped to a premise or road intersection, within the dataset buffer:

| Business Activity | Premise | Ref No. | Location Confidence | Distance to Feature Point | Direction |
|--|--|---------|---------------------|---------------------------|------------|
| CONTAINER TRANSPORT SERVICES. | Pacific Austral Container Services, 154 O'Riordan St., Mascot. | 20213 | Premise Match | 0m | Onsite |
| SHIPPING COMPANIES &/OR OWNERS. | Peace Line, 154 O'Riordan St., Mascot. | 86376 | Premise Match | 0m | Onsite |
| FREIGHT FORWARDERS. | Hawkair Cargo Pty. Ltd., 164 O'Riordan St, Mascot | 35417 | Premise Match | 0m | Onsite |
| FREIGHT FORWARDERS. | Helm Freight Company, 154 O'Riordan St., Mascot. | 35418 | Premise Match | 0m | Onsite |
| FREIGHT FORWARDERS. | Nippon Express, 154 O'Riordan St., Mascot. | 35445 | Premise Match | 0m | Onsite |
| FREIGHT FORWARDERS. | Pacific-Austral Pty. Ltd., 154 O'Riordan St., Mascot. | 35449 | Premise Match | 0m | Onsite |
| FREIGHT FORWARDERS. | Wards Express, 146 O'Riordan St., Mascot. | 35482 | Premise Match | 0m | Onsite |
| AIR CARGO AGENTS | Co-Load Incorporated Pty. Ltd., 154 O'Riordan St., Mascot. | 1833 | Premise Match | 0m | Onsite |
| AIR CARGO AGENTS. | Hawke Cargo Pty. Ltd., 154 O'Riordan St, Mascot | 1855 | Premise Match | 0m | Onsite |
| AIR CARGO AGENTS | Helm Freight Company, 154 O'Riordan St., Mascot. | 1856 | Premise Match | 0m | Onsite |
| AIR CARGO AGENTS. | Nippon Express, 154 O'Riordan St., Mascot. | 1873 | Premise Match | 0m | Onsite |
| BOND &/OR FREE STORES. | Nippon Express, 154 O'Riordan St., Mascot. | 6772 | Premise Match | 0m | Onsite |
| AIR CARGO AGENTS. | Pacific-Austral Pty. Ltd., 154 O'Riordan St., Mascot. | 1875 | Premise Match | 0m | Onsite |
| AIR CARGO AGENTS. | Pandair International Airfreight, 154 O'Riordan St., Mascot. | 1877 | Premise Match | 0m | Onsite |
| AIR CARGO AGENTS. | Wards Express, 146 O'Riordan St., Mascot. | 1899 | Premise Match | 0m | Onsite |
| FREIGHT FORWARDERS. | A.F.A. Meadows, 263 King St, Mascot. | 35356 | Premise Match | 69m | South |
| STORAGE & DISTRIBUTION CENTRES. | A.F.A. Meadows, 263 King St., Mascot. | 89547 | Premise Match | 69m | South |
| BOND &/OR FREE STORES. | A.F.A. Meadows, 263 King St, Mascot | 6749 | Premise Match | 69m | South |
| AIR CARGO AGENTS. | A.F.A. Meadows, 263 King St, Mascot | 1807 | Premise Match | 69m | South |
| CUSTOMS AGENTS | A.F.A. Meadows, 263 King St., Mascot | 20905 | Premise Match | 69m | South |
| CUSTOMS-TARIFF CONCESSION CONSULTANTS. | A.F.A. Meadows, 263 King St., Mascot. | 21049 | Premise Match | 69m | South |
| CARRIERS &/OR CARTAGE CONTRACTORS. | McRae, H. & D. Carriers Pty. Ltd., 247 King St., Mascot. | 12918 | Premise Match | 71m | South East |
| HAULAGE CONTRACTORS. | McRae, H. & D. Carriers Pty. Ltd., 247 King St., Mascot. | 44951 | Premise Match | 71m | South East |
| STORAGE & DISTRIBUTION CENTRES | McRae, H. & D. Carriers Pty. Ltd., 247 King St., Mascot. | 89596 | Premise Match | 71m | South East |
| BOND &/OR FREE STORES, | McRae, H. & D. Carriers Pty. Ltd., 247 King St., Mascot. | 6767 | Premise Match | 71m | South East |

| Business Activity | Premise | Ref No. | Location Confidence | Distance to Feature Point | Direction |
|---|---|---------|---------------------|---------------------------|------------|
| AIR CARGO AGENTS | C.F. Air Freight Pty. Ltd., 177 O'Riordan St., Mascot | 1826 | Premise Match | 72m | North West |
| CONTAINER TRANSPORT SERVICES. | Tradex Transport Pty. Ltd., 185 O'Riordan St., Mascot. | 20224 | Premise Match | 78m | West |
| CONTAINER-CARGO-REPAIR & STORAGE | Tradex Transport Pty. Ltd., 185 O'Riordan St., Mascot. | 20186 | Premise Match | 78m | West |
| FREIGHT FORWARDERS. | Tradex Transport Pty. Ltd., 185 O'Riordan St., Mascot. | 35471 | Premise Match | 78m | West |
| CUSTOMS AGENTS. | Tradex Transport Pty. Ltd., 185 O'Riordan St., Mascot | 21036 | Premise Match | 78m | West |
| AIR CARGO AGENTS. | Tradex Transport Pty. Ltd., 185 O'Riordan St., Mascot. | 1895 | Premise Match | 78m | West |
| ADHESIVES MFRS. &/OR DIST. | Emhart Australia Pty. Ltd. Bostik Division, 191 O'Riordan St., Mascot. | 1347 | Premise Match | 93m | West |
| SEALING COMPOUNDS. | Emhart Australia Pty. Ltd. Bostik Division, 191 O'Riordan St., Mascot. | 85336 | Premise Match | 93m | West |
| MERCHANTS-GENERAL. | Malucha, 277 King St., Mascot. | 58601 | Premise Match | 125m | South West |
| AIR CARGO AGENTS. | Australian Air Freight Forwarders Pty. Ltd., 279 King St., Mascot. | 1821 | Premise Match | 125m | South West |
| CHAIN-HEAVY MFRS. &/OR IMFS. &/OR DIST. | A.E.P. Engineering Sales Pty. Ltd., 209 O'Riordan St., Mascot. | 13426 | Premise Match | 127m | South West |
| STEEL FABRICATORS. | A.E.P. Sheet Metal Pty. Ltd., 205 O'Riordan St., Mascot. | 88846 | Premise Match | 127m | South West |
| GEAR CUTTERS &/OR MFRS. | Austral Engineering Products Pty. Ltd., 205-213 O'Riordan Street, Mascot. | 38627 | Premise Match | 127m | South West |
| CHAIN SPROCKETS MFRS. &/OR DIST. | Austral Engineering Products Pty. Ltd., 209 O'Riordan St., Mascot | 13486 | Premise Match | 127m | South West |
| GEAR CUTTERS &/OR MFRS. | Austral Engineering Products Pty. Ltd., 209 O'Riordan St., Mascot | 38632 | Premise Match | 127m | South West |
| MOTOR PANEL BEATERS &/OR SPRAY PAINTERS. | Kewin, G. K., 283 King St., Mascot. | 66454 | Premise Match | 127m | South West |
| PNEUMATIC TOOLS MFRS. &/OR DIST. | A.E.P. Engineering Sales Pty. Ltd., 209 O'Riordan St., Mascot. | 75330 | Premise Match | 127m | South West |
| PNEUMATIC TOOLS MFRS. &/OR DIST. | A.E.P. Engineering Sales Pty. Ltd., 205-213 O'Riordan St., Mascot. | 75328 | Premise Match | 127m | South West |
| AIR EQUIPMENT MFRS. &/OR DIST. | A.E.P. Engineering Sales Pty. Ltd., 209 O'Riordan St., Mascot. | 2507 | Premise Match | 127m | South West |
| CHAIN DRIVE SPECIALISTS. | A.E.P. Engineering Sales Pty. Ltd., 209 O'Riordan St., Mascot. | 13411 | Premise Match | 127m | South West |
| SHEET METAL WORKERS. | A.E.P. Sheet Metal Pty. Ltd., 205 O'Riordan St., Mascot. | 85949 | Premise Match | 127m | South West |
| ENGINEERS – FABRICATING. | A.E.P. Sheet Metal Pty. Ltd., 205 O'Riordan St., Mascot. | 29327 | Premise Match | 127m | South West |
| CONTAINER TRANSPORT SERVICES. | A.F.A. Meadows, 283 King St., Mascot. | 20188 | Premise Match | 127m | South West |
| ENGINEERS – GENERAL &/ OR MANUFACTURING &/ OR MECHANICAL. | Austral Engineering Products Pty. Ltd., 205-213 O'Riordan St., Mascot. | 29661 | Premise Match | 127m | South West |
| ENGINEERS – GENERAL &/ OR MANUFACTURING &/ OR MECHANICAL. | Austral Engineering Products Pty. Ltd., 209 O'Riordan St., Mascot. | 29746 | Premise Match | 127m | South West |

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1986 Business to Business Directory Records Road or Area Matches

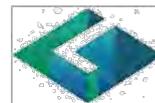
Records from the 1986 UBD Business to Business Directory, mapped to a road or an area, within the dataset buffer. Records are mapped to the road when a building number is not supplied, cannot be found, or the road has been renumbered since the directory was published:

| Business Activity | Premise | Ref No. | Location Confidence | Distance to Road Corridor or Area |
|---|--|---------|---------------------|-----------------------------------|
| LEASING COMPANIES. | Hertz Rent A Car, 188 O'Riordan St, Mascot. | 51473 | Road Match | 0m |
| IMPORTERS. | Kangaroo Golf Ltd 128 O'Riordan St, Mascot. | 47728 | Road Match | 0m |
| MOTOR PANEL BEATERS &/OR SPRAY PAINTERS. | Kewin, G. H Smash Repairs, 184 O'Riordan St, Mascot. | 66453 | Road Match | 0m |
| BUILDERS SUPPLIERS. | Winnapine Products Pty Ltd, 181 O'Riordan St, Mascot. | 8826 | Road Match | 0m |
| TIMBER MERCHANTS. | Winnapine Products Pty. Ltd., 181 O'Riordan St, Mascot. | 93648 | Road Match | 0m |
| FLOOR MATERIAL SPECIALISTS. | Winnapine Products Pty. Ltd., 181 O'Riordan St, Mascot. | 33528 | Road Match | 0m |
| PACKERS &/OR PACKING SERVICES. | World Wide Packers Pty. Ltd., 181 O'Riordan St., Mascot | 71333 | Road Match | 0m |
| ARTISTS-COMMERCIAL & INDUSTRIAL | A.S Promotion King St, Mascot. | 3829 | Road Match | 140m |
| FREIGHT FORWARDERS. | Australian Air Freight Forwarders Pty. Ltd., King St, Mascot, | 35374 | Road Match | 140m |
| AIR CARGO AGENTS | Australian Air Freight Forwarders Pty. Ltd, King St, Mascot | 1820 | Road Match | 140m |
| BOILER REPAIRERS &/OR SERVICEMEN. | Burner Combustion & Engineering Pty. Limited, 342 King St, Mascot. | 6572 | Road Match | 140m |
| FURNACE & COMBUSTION EQUIPMENT MFRS. &/OR IMPS. &/OR DIST. | Burner Combustion & Engineering Pty. Ltd., 342 King St, Mascot | 36569 | Road Match | 140m |
| GAS BURNERS-INDUSTRIAL-MFRS. &/OR DIST. | Burner Combustion & Engineering Pty. Ltd., 342 King St, Mascot. | 38441 | Road Match | 140m |
| ENGINEERS – FURNACES &/OR COMBUSTION. | Burner Combustion & Engineering Pty. Ltd., 342 King St, Mascot. | 29642 | Road Match | 140m |
| ENGINEERS-COMBUSTION. | Burner Combustion & Engineering Pty. Ltd., 342 King St, Mascot. | 28700 | Road Match | 140m |
| OIL BURNER MFRS. &/OR IMPS. &/OR DIST. | Burner Combustion & Engineering Pty. Ltd., 342 King St, Mascot. | 70504 | Road Match | 140m |
| HEAT EXCHANGER MFRS. &/OR DIST. | Burner Combustion & Engineering Pty. Ltd., 342 King St, Mascot. | 45443 | Road Match | 140m |
| OIL BURNER MFRS. &/OR IMPS. &/OR DIST. | Carmichael Steam Boilers Pty. Ltd., 342 King St, Mascot | 70505 | Road Match | 140m |
| DRYING ROOM SYSTEMS MFRS. &/OR INSTALLERS. | Carmichael Steam Boilers Pty. Ltd., 342 King St, Mascot. | 25586 | Road Match | 140m |
| BOILER REPAIRERS &/OR SERVICEMEN | Carmichael Steam Boilers Pty. Ltd., 342 King St, Mascot. | 6573 | Road Match | 140m |
| STEAM GENERATOR MFRS. &/OR DIST. | Carmichael Steam Boilers Pty. Ltd., 342 King St, Mascot. | 88772 | Road Match | 140m |
| STEAM PLANT &/OR EQUIPMENT MFRS. &/OR DIST. | Carmichael Steam Boilers Pty. Ltd., 342 King St, Mascot | 88779 | Road Match | 140m |
| BOILER PLANT MFRS. &/OR IMPS. &/OR DIST. | Carmichael Steam Boilers Pty. Ltd., 342 King St, Mascot | 6548 | Road Match | 140m |
| CONCRETE HANDLING EQUIPMENT & MACHINERY MFRS. &/OR IMPS. &/OR DIST. | Carmichael Steam Boilers Pty. Ltd., 342 King St, Mascot | 19808 | Road Match | 140m |
| BOILERMAKERS. | Carmichael Steam Boilers Pty. Ltd., 342 King St, Mascot. | 6596 | Road Match | 140m |
| ENGINEERS-COMBUSTION. | Carmichael Steam Boilers Pty. Ltd., 342 King St, Mascot | 28701 | Road Match | 140m |
| GAS BURNERS-INDUSTRIAL-MFRS. &/OR DIST. | Carmichael Steam Boilers Pty. Ltd., 342 King St, Mascot. | 38445 | Road Match | 140m |
| PRESSURE VESSEL MFRS. | Carmichael Steam Boilers Pty. Ltd., 342 King St, Mascot. | 75826 | Road Match | 140m |
| STEAM PLANT INSTALLATION SPECIALISTS. | Carmichael Steam Boilers Pty. Ltd., 342 King St, Mascot. | 88791 | Road Match | 140m |
| TIMBER TREATMENT SPECIALISTS. | Carmichael Steam Boilers Pty. Ltd., 342 King St, Mascot. | 93652 | Road Match | 140m |
| MOTOR GARAGES & SERVICE STATIONS. | Kings Street Auto Port, King St, Mascot. | 64949 | Road Match | 140m |

| Business Activity | Premise | Ref No. | Location Confidence | Distance to Road Corridor or Area |
|--|---|---------|---------------------|-----------------------------------|
| GALVANISING &/OR TINNING | Mascot Galvanising Works Pty Ltd, 342 King St, Mascot | 38180 | Road Match | 140m |
| MOTOR BODY BUILDERS | Sweetings Service Station, King St, Mascot. | 61439 | Road Match | 140m |
| ENGINEERS – GENERAL &/ OR MANUFACTURING &/ OR MECHANICAL | Sweetings Service Station, King St, Mascot. | 30359 | Road Match | 140m |
| MOTOR ACCESSORIES – RETAIL | Sweetings Service Station, King St, Mascot. | 61205 | Road Match | 140m |
| MOTOR GARAGES & SERVICE STATIONS | Sweetings Service Station, King St, Mascot. | 65543 | Road Match | 140m |
| MOTOR PANEL BEATERS &/OR SPRAY PAINTERS. | Sweetings Service Station, King St, Mascot. | 66808 | Road Match | 140m |

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

1982 Historical Business Directory Records
 146-154 O'Riordan Street, Mascot, NSW 2020



Historical Business Directories

146-154 O'Riordan Street, Mascot, NSW 2020

1982 Business Directory Records Premise or Road Intersection Matches

Records from the 1982 UBD Business Directory, mapped to a premise or road intersection, within the dataset buffer:

| Business Activity | Premise | Ref No. | Location Confidence | Distance to Feature Point | Direction |
|---|--|---------|---------------------|---------------------------|------------|
| AIR CARGO AGENTS. (A3240) | Ward's Air Cargo, 146 O'Riordan St., Mascot. 2020. | 1759 | Premise Match | 0m | Onsite |
| CRANES - MOBILE - MFRS. &/OR IMPS. &/OR DIST. (C8775) | Transmodac Liftslack Equipment Pty. Ltd., 263 King St. Mascot. 2020. | 19411 | Premise Match | 69m | South |
| CONTAINER TRANSPORT SERVICES. (C7485) | A.M.A. Meadows, 263 King St., Mascot. 2020. | 17876 | Premise Match | 69m | South |
| ICING SUGAR MFRS. (I0550) | Industrial Sugar Mills Pty. Ltd., 269 King St. Mascot. 2020. | 41375 | Premise Match | 69m | South |
| STORAGE & DISTRIBUTION CENTRES. (S7310) | A. M.A. Meadows, 263 King St., Mascot. 2020. | 77481 | Premise Match | 69m | South |
| FREIGHT FORWARDERS. (F6185) | A.M.A. Meadows, 263 King St. Mascot. 2020. | 32965 | Premise Match | 69m | South |
| CUSTOMS AGENTS. (C9165) | A.M.A. Meadows, 263 King St, Mascot. 2020. | 18598 | Premise Match | 69m | South |
| AIR CARGO AGENTS. (A3240) | A.M.A. Meadows, 263 King St., Mascot. 2020. | 1678 | Premise Match | 69m | South |
| BOND &/OR FREE STORES. (B4280) | A.M.A. Meadows, 263 King St., Mascot. 2020. | 7600 | Premise Match | 69m | South |
| ROAD TRANSPORT SERVICES - INTERSTATE. (R5845) | Cook, A. & Sons Pty. Ltd., 247 King St. Mascot. 2020. | 72135 | Premise Match | 71m | South East |
| HAULAGE CONTRACTORS. (H2750) | Cook, A. & Sons Pty. Ltd., 247 King St, Mascot. 2020. | 39412 | Premise Match | 71m | South East |
| CARRIERS &/OR CARTAGE CONTRACTORS. (C2115) | Cook, A. & Sons Pty. Ltd., 247 King St., Mascot. 2020. | 13634 | Premise Match | 71m | South East |
| ROAD TRANSPORT SERVICES - INTERSTATE. (R5810) | Cook, A. & Sons Pty. Ltd., 247 King St., Mascot. 2020. | 72028 | Premise Match | 71m | South East |
| CRANES - MOBILE & TRAVEL TOWER - PROPRIETORS &/OR HIRERS. (C8790) | Cook, A. & Sons Pty. Ltd., 247 King St. Mascot. 2020. | 19426 | Premise Match | 71m | South East |
| FREIGHT FORWARDERS. (F6185) | Cook, A. & Sons Pty. Ltd., 247 King St, Mascot. 2020. | 32996 | Premise Match | 71m | South East |
| STORAGE & DISTRIBUTION CENTRES (S7310) | Cook, A. & Sons Pty. Ltd., 247 King St. Mascot. 2020. | 77495 | Premise Match | 71m | South East |
| BOND &/OR FREE STORES. (B4280) | Cook, A. & Son Pty. Ltd., 247 King St, Mascot. 2020. | 7607 | Premise Match | 71m | South East |
| RAIL FORWARDING AGENTS. (R1750) | Cook, A. & Sons Pty. Ltd. 247 King St, Mascot. 2020. | 68450 | Premise Match | 71m | South East |
| TALLOW MERCHANTS &/OR REFINERS. (T0275) | Gearin O'Riordan Pty. Ltd., 177 O'Riordan St., Mascot. 2020. | 79022 | Premise Match | 72m | North West |
| SUGAR REFINERS. (S7740) | Industrial Sugar Mills Pty. Ltd., 259 King St Mascot. 2020. | 77544 | Premise Match | 72m | South East |
| STOCK FOODS MFRS. &/OR DIST. (S7065) | Gearin O'Riordan Pty. Ltd., 177 O'Riordan St., Mascot. 2020. | 77307 | Premise Match | 77m | North West |
| FREIGHT FORWARDERS. (F6185) | Tradex Transport Pty. Ltd., 185 O'Riordan St., Mascot. 2020. | 33061 | Premise Match | 78m | West |
| AIR CARGO AGENTS. (A3240) | Tradex Transport Pty. Ltd., 185 O'Riordan St., Mascot. 2020. | 1753 | Premise Match | 78m | West |

| Business Activity | Premise | Ref No. | Location Confidence | Distance to Feature Point | Direction |
|---|---|---------|---------------------|---------------------------|------------|
| CUSTOMS AGENTS. (C9165) | Radex Transport Pty. Ltd., 185 O'Riordan St., Mascot. 2020 | 18720 | Premise Match | 78m | West |
| WAX MFRS. &/OR IMPORTERS. (W2360) | Bostik Australia Pty. Ltd., 191 O'Riordan St., Mascot. 2020. | 83994 | Premise Match | 93m | West |
| ADHESIVES MFRS. &/OR DISTS. (A1110) | Bostik Australia Pty. Ltd., 191 O'Riordan St., Mascot. 2020. | 1203 | Premise Match | 93m | West |
| POLISH MFRS. &/OR DISTS. (P6980) | Bostik Australia Pty. Ltd., 191 O'Riordan St., Mascot. 2020. | 65528 | Premise Match | 93m | West |
| INSULATING MATERIALS MFRS. &/OR DISTS. &/OR SUPPLIERS (I3660) | Bostik Australia Pty. Ltd., 191 O'Riordan St., Mascot. 2020 | 42448 | Premise Match | 93m | West |
| ZINC MFRS. &/OR MERCHANTS. (Z0050) | Lysaght Durham Chemical Co. Pty. Ltd., 163 O'Riordan St., Mascot. 2020. | 85575 | Premise Match | 115m | North |
| ZINC OXIDE MFRS. &/OR DISTS. (Z0100) | Lysaght Durham Chemical Co. Pty. Ltd., 163 O'Riordan St., Mascot. 2020. | 85580 | Premise Match | 115m | North |
| CHAIN - HEAVY - MFRS. &/OR IMPS. &/OR DISTS. (C3435) | A.E.P. Engineering Sales Pty. Ltd., 209 O'Riordan St., Mascot. 2020. | 14206 | Premise Match | 127m | South West |
| STEEL FABRICATORS. (S6105) | A.E.P. Sheet Metal Pty. Ltd., 205 O'Riordan St., Mascot. 2020 Ph 667-1175 | 76815 | Premise Match | 127m | South West |
| CHAIN SPROCKETS MFRS. &/OR DISTS. (C3585) | Austral Engineering Products Pty. Ltd., 209 O'Riordan St., Mascot. 2020. | 14250 | Premise Match | 127m | South West |
| GEAR CUTTERS &/OR MFRS. (G2250) | Austral Engineering Products Pty. Ltd., 209 O'Riordan St., Mascot. 2020. | 35934 | Premise Match | 127m | South West |
| FAN &/OR BLOWER MFRS. &/OR DISTS. (F0225) | Industrial Air Handling Equipment Pty. Ltd., 205 O'Riordan St., Mascot. 2020. | 29941 | Premise Match | 127m | South West |
| MOTOR PANEL BEATERS &/OR SPRAY PAINTERS. (M7360) | Kewin. G. H., 283 King St., Mascot. 2020. | 58436 | Premise Match | 127m | South West |
| AIR EQUIPMENT MFRS. &/OR DISTS. (A3870) | A.E.P. Engineering Sales Pty. Ltd., 209 O'Riordan St., Mascot. 2020. | 2188 | Premise Match | 127m | South West |
| PNEUMATIC TOOLS MFRS. &/OR DISTS. (P6920) | A.E.P. Engineering Sales Pty. Ltd., 209 O'Riordan St., Mascot. 2020. | 65495 | Premise Match | 127m | South West |
| CHAIN DRIVE SPECIALISTS. (C3420) | A.E.P. Engineering Sales Ry. Ltd., 209 O'Riordan St., Mascot. 2020. | 14189 | Premise Match | 127m | South West |
| ENGINEERS - FABRICATING (E6870) | A.E.P. Sheet Metal Pty. Ltd., 205 O'Riordan St., Mascot. 2020. | 27450 | Premise Match | 127m | South West |
| SHEET METAL WORKERS. (S2595) | A.E.P. Sheet Metal Pty. Ltd., 205 O'Riordan St., Mascot. 2020. | 74213 | Premise Match | 127m | South West |
| ENGINEERS-GENERAL &/OR MANUFACTURING &/OR MECHANICAL (E7140) | Austral Engineering Products Pty. Ltd., 209 O'Riordan St., Mascot. 2020. | 27817 | Premise Match | 127m | South West |
| CUSTOMS BY-LAW CONSULTANTS. (C9180) | A.M.A. Meadows, 283 King St., Mascot. 2020. | 18734 | Premise Match | 127m | South West |

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1982 Business Directory Records Road or Area Matches

Records from the 1982 UBD Business Directory, mapped to a road or an area, within the dataset buffer. Records are mapped to the road when a building number is not supplied, cannot be found, or the road has been renumbered since the directory was published:

| Business Activity | Premise | Ref No. | Location Confidence | Distance to Road Corridor or Area |
|--|--|---------|---------------------|-----------------------------------|
| BOX & CASE MFRS. &/OR MERCHANTS. (B5390) | Winna Box Factory Pty. Ltd., 181 O'Riordan St., Mascot. 2020. | 8366 | Road Match | 0m |
| PACKERS &/OR PACKING SERVICES. (P0120) | World Wide Packers Pty. Ltd., 181 O'Riordan St., Mascot. 2020. | 62253 | Road Match | 0m |

| Business Activity | Premise | Ref No. | Location Confidence | Distance to Road Corridor or Area |
|---|---|---------|---------------------|-----------------------------------|
| ARTISTS - COMMERCIAL & INDUSTRIAL (A7385) | A.S, Promotion, King St., Mascot. 2020, | 3415 | Road Match | 140m |
| MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. (M6860) | Kings Street Auto Port, King St. Mascot. 2020. | 57051 | Road Match | 140m |
| GALVANISING &/OR TINNING.(G0200) | Mascot Galvanising Works Pty. Ltd., 342 King St., Mascot. 2020. | 35590 | Road Match | 140m |
| ENGINEERS-GENERAL &/OR MANUFACTURING &/OR MECHANICAL. (E7140) | Sweetings Service Station, King St., Mascot. 2020/ | 28403 | Road Match | 140m |
| MOTOR ACCESSORIES DEALERS.(M4690) | Sweetings Service Station, King St., Mascot. 2020. | 53981 | Road Match | 140m |
| MOTOR BODY REPAIRS &/OR CONVERTERS. (M5140) | Sweetings Service Station, King St., Mascot. 2020. | 54329 | Road Match | 140m |
| MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. (M6860) | Sweetings Service Station, King St., Mascot. 2020. | 57664 | Road Match | 140m |
| MOTOR PANEL BEATERS &/OR SPRAY PAINTERS. (M7360) | Sweetings Service Station, King St., Mascot. 2020. | 58766 | Road Match | 140m |

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

1978 Historical Business Directory Records
 146-154 O’Riordan Street, Mascot, NSW 2020



Historical Business Directories

146-154 O'Riordan Street, Mascot, NSW 2020

1978 Business Directory Records Premise or Road Intersection Matches

Records from the 1978 UBD Business Directory, mapped to a premise or road intersection, within the dataset buffer:

| Business Activity | Premise | Ref No. | Location Confidence | Distance to Feature Point | Direction |
|--|---|---------|---------------------|---------------------------|------------|
| FURNITURE MFRS. &/OR W/SALERS. -OFFICE. | Bendix Furniture Pty. Ltd., 70 Macintosh St., Mascot. | 32006 | Premise Match | 33m | East |
| FURNITURE-TUBULAR STEEL MFRS. &/OR W/SALERS | Bendix Furniture Pty. Ltd., 70 Macintosh St., Mascot. | 32271 | Premise Match | 33m | East |
| HOSPITAL SUPPLIES & EQUIPMENT MFRS. &/OR DIST. | Bendix Furniture Pty. Ltd., 70 Macintosh St., Mascot. | 35768 | Premise Match | 33m | East |
| CHAIR MFRS. | Bendix Furniture Pty. Ltd., 70 Macintosh St., Mascot. | 12381 | Premise Match | 33m | East |
| HOTEL &/OR MOTEL EQUIPMENT SUPPLIES. | Bendix Furniture Pty. Ltd., 70 Macintosh St., Mascot. | 35903 | Premise Match | 33m | East |
| CAFE EQUIPMENT &/OR SUPPLIES. | Bendix Furniture Pty. Ltd., 70 Macintosh St., Mascot. | 10362 | Premise Match | 33m | East |
| CONTAINER REPAIR & STORAGE. | Aust Forwarding Agency Group, 263 King St, Mascot | 16138 | Premise Match | 69m | South |
| FREIGHT FORWARDERS. | Aust Forwarding Agency Group, 263 King St, Mascot | 29868 | Premise Match | 69m | South |
| FREIGHT FORWARDERS. | Australian Forwarding Agency 263-273 King St, Mascot, | 29851 | Premise Match | 69m | South |
| CUSTOMS AGENTS | Aust Forwarding Agency Group, 263 King St, Mascot | 16825 | Premise Match | 69m | South |
| BOND &/OR FREE STORES. | Aust Forwarding Agency Group, 263 King St, Mascot | 6628 | Premise Match | 69m | South |
| AIR CARGO AGENTS | Aust Forwarding Agency Group, 263 King St, Mascot | 1692 | Premise Match | 69m | South |
| CUSTOMS BY-LAW CONSULTANTS. | Aust Forwarding Agency Group, 263 King St, Mascot | 16954 | Premise Match | 69m | South |
| CUSTOMS AGENTS. | Australian Forwarding Agency Pty. Ltd. 263-273 King St, Mascot. | 16798 | Premise Match | 69m | South |
| MOTOR PAINTERS. | Kewin, G. H., 273 King St., Mascot. | 51491 | Premise Match | 70m | South West |
| MOTOR PANEL BEATERS | Kewin, G. H., 273 King St., Mascot | 52134 | Premise Match | 70m | South West |
| HAULAGE CONTRACTORS. | Cook, A. & Sons Pty. Ltd., 247 King St., Mascot, | 35131 | Premise Match | 71m | South East |
| CARRIERS &/OR CARTAGE CONTRACTORS - MASTER. | Cook, A. & Sons Pty. Ltd., 247 King St., Mascot. | 11987 | Premise Match | 71m | South East |
| CRANES-MOBILE-PROPRIETORS &/OR HIRERS. | Cook, A. & Sons Pty. Ltd., 247 King St., Mascot. | 16664 | Premise Match | 71m | South East |
| BOND &/OR FREE STORES. | Cook, A. & Sons Pty. Ltd., 247 King St., Mascot. | 6633 | Premise Match | 71m | South East |
| TALLOW MERCHANTS &/OR REFINERS. | Gearin O'Riordan Pty. Limited 177 O'Riordan St., Mascot, | 69554 | Premise Match | 72m | North West |
| STOCK FOODS MFRS. &/OR DIST. | Gearin O'Riordan Pty. Limited 177 O'Riordan St., Mascot. | 68502 | Premise Match | 72m | North West |
| TALLOW MERCHANTS &/OR REFINERS. | Gearin O'Riordan Pty. Ltd., 177 O'Riordan St, Mascot | 69560 | Premise Match | 77m | North West |
| STOCK FOODS MFRS. &/OR DIST. | Gearin O'Riordan Pty. Ltd., 177 O'Riordan St, Mascot | 68524 | Premise Match | 77m | North West |
| EXPORTERS. | Gearin O'Riordan Pty. Ltd., 177 O'Riordan St, Mascot | 26869 | Premise Match | 77m | North West |
| FREIGHT FORWARDERS. | Tradex Transport Pty. Ltd., 185 O'Riordan St., Mascot. | 29970 | Premise Match | 78m | West |
| CUSTOMS AGENTS. | Tradex Transport Pty. Ltd., 185 O'Riordan St., Mascot. | 16937 | Premise Match | 78m | West |

| Business Activity | Premise | Ref No. | Location Confidence | Distance to Feature Point | Direction |
|--|--|---------|---------------------|---------------------------|------------|
| ADHESIVES MFRS. &/OR DISTS. | Bostik Australia Pty. Ltd., 191 O'Riordan St., Mascot | 1100 | Premise Match | 93m | West |
| POLISH MFRS. &/OR DISTS | Bostik Australia Pty. Ltd., 191 O'Riordan St., Mascot. | 58522 | Premise Match | 93m | West |
| WAX MFRS. &/OR IMPORTERS. | Bostik Australia Pty. Ltd., 191 O'Riordan St., Mascot. | 74042 | Premise Match | 93m | West |
| INSULATING MATERIALS MFRS. &/OR DISTS. &/OR SUPPLIERS. | Bostik Australia Pty. Ltd., 191 O'Riordan St., Mascot. | 37793 | Premise Match | 93m | West |
| ZINC MFRS.&/OR MERCHANTS | Lysaght Durham Chemical Co. Pty. Ltd., 163 O'Riordan St., Mascot | 75442 | Premise Match | 115m | North |
| ZINC OXIDE MFRS. | Lysaght Durham Chemical Co. Pty. Ltd., 163 O'Riordan St., Mascot. | 75446 | Premise Match | 115m | North |
| TYRE &/OR TUBE MFRS. &/OR DISTS. | Gwynne, R. L. Pty. Ltd., 279 King St., Mascot. | 73023 | Premise Match | 125m | South West |
| AIR CARGO AGENTS. | Manton Customs Services Pty. Ltd., 279 King St., Mascot. | 1724 | Premise Match | 125m | South West |
| ELECTRICAL METER BOX &/OR SURROUNDS MFRS. | A.E.P. Sheet Metal Pty. Ltd., 205 O'Riordan St. Mascot | 22599 | Premise Match | 127m | South West |
| STEEL FABRICATORS. | A.E.P. Sheet Metal Pty. Ltd., 205 O'Riordan St, Mascot | 68037 | Premise Match | 127m | South West |
| ELECTRICAL SWITCHBOARD MFRS. &/OR DISTS. SWITCHBOARD | A.E.P. Sheet Metal Pty. Ltd., 205 O'Riordan St. Mascot | 23008 | Premise Match | 127m | South West |
| CHAIN SPROCKET MFRS. | Austral Engineering Products Pty. Ltd, 209 O'Riordan St, Mascot | 12377 | Premise Match | 127m | South West |
| CHAIN SPROCKET MFRS. | Austral Engineering Products Pty. Ltd, 205-213 O'Riordan St., Mascot | 12376 | Premise Match | 127m | South West |
| GEAR CUTTERS &/OR MFRS. | Austral Engineering Products Pty. Ltd, 205-213 O'Riordan St., Mascot | 32580 | Premise Match | 127m | South West |
| GEAR CUTTERS &/OR MFRS. | Austral Engineering Products Pty. Ltd., 209 O'Riordan St Mascot. | 32586 | Premise Match | 127m | South West |
| MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. | Viscount Service Centre, 283 King St., Mascot. | 51041 | Premise Match | 127m | South West |
| CHAIN DRIVE SPECIALISTS | A.E.P. Engineering Sales Pty. Ltd, 205-213 O'Riordan St., Mascot | 12328 | Premise Match | 127m | South West |
| CHAIN DRIVE SPECIALISTS. | A.E.P. Engineering Sales Pty. Ltd, 209 O'Riordan St, Mascot | 12330 | Premise Match | 127m | South West |
| AIR EQUIPMENT MFRS. &/OR DISTS. | A.E.P. Engineering Sales Pty. Ltd, 205-213 O'Riordan St, Mascot | 2092 | Premise Match | 127m | South West |
| PNEUMATIC TOOLS MFRS. &/OR DISTS. | A.E.P. Engineering Sales Pty. Ltd, 205-213 O'Riordan St, Mascot, | 58482 | Premise Match | 127m | South West |
| PNEUMATIC TOOLS MFRS. &/OR DISTS. | A.E.P. Engineering Sales Pty. Ltd., 209 O'Riordan St, Mascot | 58486 | Premise Match | 127m | South West |
| SHEET METAL WORKERS. | A.E.P. Sheet Metal Pty. Ltd., 205 O'Riordan St, Mascot | 65678 | Premise Match | 127m | South West |
| SHEET METAL WORKERS. | A.E.P. Sheet Metal Pty. Ltd., 205 O'Riordan St, Mascot | 65667 | Premise Match | 127m | South West |
| ENGINEERS-FABRICATING. | A.E.P. Sheet Metal Pty. Ltd., 205 O'Riordan St, Mascot | 24515 | Premise Match | 127m | South West |
| ENGINEERS-HOT WATER-HEATING &/OR VENTILATING. | A.E.P. Sheet Metal Pty. Ltd., 205 O'Riordan St, Mascot | 25575 | Premise Match | 127m | South West |
| AIR EQUIPMENT MFRS. &/OR DISTS. | A.E.P. Engineering Sales Pty. Ltd., 209 O'Riordan St, Mascot | 2094 | Premise Match | 127m | South West |
| STORAGE & DELIVERY DEPOT. | Aust Forwarding Agency Group, 283 King St, Mascot | 98694 | Premise Match | 127m | South West |
| ENGINEERS- GENERAL &/OR MANUFACTURING &/OR MECHANICAL | Austral Engineering Products Pty. Ltd, 205-213 O'Riordan St., Mascot | 24820 | Premise Match | 127m | South West |
| ENGINEERS- GENERAL &/OR MANUFACTURING &/OR MECHANICAL | Austral Engineering Products Pty. Ltd., 209 O'Riordan St, Mascot. | 24853 | Premise Match | 127m | South West |
| AIR CARGO AGENTS. | Wathen Curnow & Cocks (Sydney) Pty. Ltd., 209 O'Riordan St., Mascot. | 1750 | Premise Match | 127m | South West |
| CHAIN-HEAVY MFRS. &/OR IMPS. &/OR DISTS. | A.E.P. Engineering Sales Pty. Ltd., 209 O'Riordan St, Mascot | 12342 | Premise Match | 129m | South West |

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| Business Activity | Premise | Ref No. | Location Confidence | Distance to Road Corridor or Area |
|--|---|---------|---------------------|-----------------------------------|
| SCRAP METAL MERCHANTS. | Major Metals & Disposal Pty. Ltd., 183 O'Riordan St., Mascot. | 65181 | Road Match | 0m |
| BOX & CASE MFRS &/OR MERCHANTS | Winna Box Factory Pty. Ltd., 181 O'Riordan St., Mascot. | 7284 | Road Match | 0m |
| CARRIERS &/OR CARTAGE CONTRACTORS - MASTER. | Ferns R.S.Pty. Ltd., Bourke Rd., Mascot. | 11995 | Road Match | 40m |
| ARTISTS-COMMERCIAL & INDUSTRIAL. | A.S. Promotion, King St., Mascot. | 3251 | Road Match | 140m |
| MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. | Kings Street Auto Port, King St., Mascot. | 50334 | Road Match | 140m |
| GALVANISING &/OR TINNING | Mascot Galvanising Works Pty. Ltd., 342 King St., Mascot. | 32332 | Road Match | 140m |
| MOTOR PAINTERS. | Sweetings Service Station, King St.-Mascot. | 51712 | Road Match | 140m |
| ENGINEERS GENERAL &/OR MANUFACTURING &/OR MECHANICAL | Sweetings Service Station, King St., Mascot. | 25448 | Road Match | 140m |
| MOTOR BODY REPAIRS &/OR CONVERTERS. | Sweetings Service Station, King St., Mascot. | 47873 | Road Match | 140m |
| MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. | Sweetings Service Station, King St., Mascot. | 50915 | Road Match | 140m |
| MOTOR PANEL BEATERS | Sweetings Service Station, King St., Mascot. | 52406 | Road Match | 140m |
| MOTOR ACCESSORIES DEALERS. | Sweetings Service Station, King St., Mascot. | 47516 | Road Match | 140m |

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

1975 Historical Business Directory Records
 146-154 O’Riordan Street, Mascot, NSW 2020



Historical Business Directories

146-154 O'Riordan Street, Mascot, NSW 2020

1975 Business Directory Records Premise or Road Intersection Matches

Records from the 1975 UBD Business Directory, mapped to a premise or road intersection, within the dataset buffer:

| Business Activity | Premise | Ref No. | Location Confidence | Distance to Feature Point | Direction |
|---|--|---------|---------------------|---------------------------|------------|
| HOSPITAL SUPPLIES & EQUIPMENT MFRS. &/OR DISTS. | Bendix Consolidated Industries Ltd., 70 Macintosh St, Mascot | 42465 | Premise Match | 33m | East |
| CHAIR MFRS. | Bendix Consolidated Industries Ltd., 70 Macintosh St, Mascot | 14309 | Premise Match | 33m | East |
| FURNITURE MFRS. &/OR W/SALERS. - OFFICE | Bendix Consolidated Industries Ltd., 70 Macintosh St, Mascot | 37150 | Premise Match | 33m | East |
| FURNITURE-TUBULAR STEEL MFRS. &/OR W/SALERS | Bendix Consolidated Industries Ltd., 70 Macintosh St, Mascot | 37458 | Premise Match | 33m | East |
| HOTEL &/OR MOTEL EQUIPMENT SUPPLIES. | Bendix Consolidated Industries Ltd., 70 Macintosh St, Mascot | 42624 | Premise Match | 33m | East |
| CAFE EQUIPMENT &/OR SUPPLIES | Bendix Consolidated Industries Ltd., 70 Macintosh St, Mascot | 11740 | Premise Match | 33m | East |
| SCRAP METAL MERCHANTS. | R. & G. Trading, 183 O'Riordan St., Mascot | 76157 | Premise Match | 39m | North West |
| HOTEL &/OR MOTEL EQUIPMENT SUPPLIES. | Accommodation Accessories Pty. Ltd. 269 King St, Mascot | 42613 | Premise Match | 69m | South |
| SHIPPING &/OR FORWARDING AGENTS. | A.F.A. Australia Forwarding Agency Group 263., 273 King St, Mascot | 77096 | Premise Match | 69m | South |
| PUMP HIRERS. | Ardac. 267 King St, Mascot | 71212 | Premise Match | 69m | South |
| CARRIERS &/OR CARTAGE CONTRACTORS - MASTER. | Aust Forwarding Agency Group, 263 King St, Mascot | 13816 | Premise Match | 71m | South |
| CONTAINER TRANSPORT SERVICES. | Aust Forwarding Agency Group, 263 King St, Mascot | 18703 | Premise Match | 71m | South |
| CARRIERS DEPOTS-RECEIVING &/OR DESPATCH. | Aust Forwarding Agency Group, 263 King St, Mascot | 13926 | Premise Match | 71m | South |
| CUSTOMS AGENTS. | A.F.A. Australian Forwarding Agency Group, 263-273 King St, Mascot | 19440 | Premise Match | 71m | South |
| CUSTOMS BY-LAW CONSULTANTS | A.F.A. Australian Forwarding Agency Group, 263-273 King St, Mascot | 19569 | Premise Match | 71m | South |
| FURNITURE REMOVALS &/OR STORAGE | Aust Forwarding Agency Group, 263 King St, Mascot | 37346 | Premise Match | 71m | South |
| BOND &/OR FREE STORES. | Aust Forwarding Agency Group, 263 King St, Mascot | 7090 | Premise Match | 71m | South |
| CUSTOMS AGENTS. | Aust Forwarding Agency Group, 263 King St, Mascot | 19468 | Premise Match | 71m | South |
| CUSTOMS BY-LAW CONSULTANTS | Aust Forwarding Agency Group, 263 King St, Mascot | 19575 | Premise Match | 71m | South |
| CUSTOMS AGENTS. | Australian Meadows Aircargo Pty. Ltd., 263 King St, Mascot | 19469 | Premise Match | 71m | South |
| PARCEL DELIVERY SPECIALISTS. | Australian Meadows Aircargo Pty. Ltd, 263 King St, Mascot | 66117 | Premise Match | 71m | South |
| AIR CARGO AGENTS | Australian Meadows Aircargo Pty. Ltd, 263 King St, Mascot | 1447 | Premise Match | 71m | South |
| BOND &/OR FREE STORES. | Australian Meadows Aircargo Pty. Ltd., 263 King St, Mascot | 7091 | Premise Match | 71m | South |
| AIR CARGO AGENTS | Australian Meadows Aircargo Pty. Ltd. 263 King St, Mascot | 1460 | Premise Match | 71m | South |
| AIR CARGO AGENTS. | Aust Forwarding Agency Group, 263 King St, Mascot | 1459 | Premise Match | 71m | South |
| SHIPPING &/OR FORWARDING AGENTS | Aust. Forwarding Agency Group, 253 King St, Mascot | 77111 | Premise Match | 71m | South East |

| Business Activity | Premise | Ref No. | Location Confidence | Distance to Feature Point | Direction |
|--|---|---------|---------------------|---------------------------|------------|
| SHIPPING &/OR FORWARDING AGENTS. | Australian Meadows Aircargo Pty. Ltd., 253 King St. Mascot | 77112 | Premise Match | 71m | South East |
| HAULAGE CONTRACTORS. | Cook, A. & Sons Pty. Ltd., 247 King St. Mascot | 41547 | Premise Match | 72m | South East |
| CRANES-MOBILE-PROPRIETORS &/OR HIRERS. | Cook, A. & Sons Pty. Ltd., 247 King St., Mascot. | 19290 | Premise Match | 72m | South East |
| BOND &/OR FREE STORES | Cook, A. & Sons Pty. Ltd., 247 King St., Mascot | 7099 | Premise Match | 72m | South East |
| TALLOW MERCHANTS &/OR REFINERS. | Gearin O'Riordan Pty. Limited 177 O'Riordan St, Mascot, | 82068 | Premise Match | 77m | North West |
| TALLOW MERCHANTS &/OR REFINERS. | Gearin O'Riordan Pty Ltd 177 O'Riordan St, Mascot | 82077 | Premise Match | 77m | North West |
| STOCK FOODS MFRS. &/OR DIST. | Gearin O'Riordan Pty. Limited, 177 O'Riordan St, Mascot. | 80967 | Premise Match | 77m | North West |
| STOCK FOODS MFRS. &/OR DIST. | Gearin O'Riordan Pty Ltd 177 O'Riordan St, Mascot | 80991 | Premise Match | 77m | North West |
| EXPORTERS. | Gearin O'Riordan Pty. Ltd, 177 O'Riordan St, Mascot | 31024 | Premise Match | 77m | North West |
| BOX & CASE MFRS. &/OR MERCHANTS | Winna Box Factory Pty. Ltd., 181 O'Riordan St., Mascot | 8027 | Premise Match | 89m | North |
| WAX MFRS. &/OR IMPORTERS. | Bostik Australia Pty. Ltd., 191 O'Riordan St. Mascot. | 86687 | Premise Match | 93m | West |
| INSULATING MATERIALS MFRS. &/OR DIST. &/OR SUPPLIERS. | Bostik Australia Pty. Ltd., 191 O'Riordan St., Mascot | 44707 | Premise Match | 93m | West |
| POLISH MFRS. &/OR DIST. | Bostik Australia Pty. Ltd., 191 O'Riordan St., Mascot | 68880 | Premise Match | 93m | West |
| ADHESIVES MFRS. &/OR DIST. | Bostik Australia Pty. Ltd., 191 O'Riordan St., Mascot. | 831 | Premise Match | 93m | West |
| ZINC OXIDE MFRS. | Durham Chemicals Australia Pty. Ltd. 163 O'Riordan St. Mascot | 88079 | Premise Match | 115m | North |
| ZINC MFRS. &/OR MERCHANTS | Durham Chemicals Australia Pty. Ltd. 163 O'Riordan St. Mascot. | 88074 | Premise Match | 115m | North |
| TYRE &/OR TUBE MFRS. &/OR DIST. | Gwynne. R. L. Pty. Ltd., 279 King St., Mascot. | 85694 | Premise Match | 126m | South West |
| CHAIN-HEAVY-MFRS. &/OR IMPS. &/OR DIST. | A. E. P. Engineering Sales Pty. Ltd. 209 O'Riordan St, Mascot. | 14275 | Premise Match | 127m | South West |
| GEAR CUTTERS &/OR MFRS. | Austral Engineering Products Pty. Ltd., 209 O'Riordan St, Mascot | 37849 | Premise Match | 127m | South West |
| MOTOR PANEL BEATERS | Kewin, G. H., 283 King St., Mascot. | 60891 | Premise Match | 127m | South West |
| MOTOR PAINTERS. | Kewin, G. H 283 King St., Mascot. | 60225 | Premise Match | 127m | South West |
| MOTOR GARAGES &/OR ENGINEERS | Viscount Service Station, 283 King St., Mascot. | 59725 | Premise Match | 127m | South West |
| CHAIN DRIVE SPECIALISTS. | A. E. P. Engineering Sales Pty. Ltd, 209 O'Riordan St, Mascot | 14259 | Premise Match | 127m | South West |
| PNEUMATIC TOOLS MFRS. &/OR DIST. | A. E. P. Engineering Sales Pty. Ltd., 209 O'Riordan St, Mascot. | 88850 | Premise Match | 127m | South West |
| ENGINEERS - GENERAL &/OR MANUFACTURING &/OR MECHANICAL | Austral Engineering Products Pty. Ltd., 209 O'Riordan St, Mascot | 28786 | Premise Match | 127m | South West |
| CHAIN-HEAVY-MFRS. &/OR IMPS. &/OR DIST. | A. E. P. Engineering Sales Pty. Ltd. 205-213 O'Riordan St., Mascot | 14274 | Premise Match | 129m | South West |
| ELECTRICAL SWITCHBOARD MFRS. &/OR DIST. | A.E.P. Sheet Metal Pty. Ltd. 205 O'Riordan St, Mascot | 26652 | Premise Match | 129m | South West |
| ELECTRICAL METER BOX &/OR SURROUNDS MFRS. | A. E. P. Sheet Metal Pty. Ltd. 205 O'Riordan St, Mascot | 26109 | Premise Match | 129m | South West |
| STEEL FABRICATORS. | A.E.P. Sheet Metal Pty. Ltd., 205 O'Riordan St, Mascot | 80444 | Premise Match | 129m | South West |
| CHAIN SPROCKET MFRS. | Austral Engineering Products Pty. Ltd. 205-213 O'Riordan St., Mascot. | 14303 | Premise Match | 129m | South West |
| GEAR CUTTERS &/OR MFRS. | Austral Engineering Products Pty. Ltd., 205-213 O'Riordan St., Mascot | 37841 | Premise Match | 129m | South West |
| CHAIN DRIVE SPECIALISTS | A. E. P. Engineering Sales Pty. Ltd. 205-213 O'Riordan St., Mascot | 14257 | Premise Match | 129m | South West |
| AIR EQUIPMENT MFRS. &/OR DIST. | A.E.P. Engineering Sales Pty. Ltd. 205-213 O'Riordan St., | 1808 | Premise Match | 129m | South West |

| Business Activity | Premise | Ref No. | Location Confidence | Distance to Feature Point | Direction |
|--|---|---------|---------------------|---------------------------|------------|
| PNEUMATIC TOOLS MFRS. &/OR DISTB. | A.E.P. Engineering Sales Pty Ltd, 205-213 O'Riordan St, Mascot | 88846 | Premise Match | 129m | South West |
| ENGINEERS-HOT WATER HEATING &/OR VENTILATING. | A.E.P. Sheet Metal Pty. Ltd, 205 O'Riordan St, Mascot | 29544 | Premise Match | 129m | South West |
| SHEET METAL WORKERS. | A.E.P. Sheet Metal Pty. Ltd, 205 O'Riordan St, Mascot | 76746 | Premise Match | 129m | South West |
| SHEET METAL WORKERS. | A.E.P. Sheet Metal Pty. Ltd, 205 O'Riordan St., Mascot, | 76730 | Premise Match | 129m | South West |
| WELDERS. Electric &/OR OXY. | A.E.P. Sheet Metal Pty. Ltd., 205 O'Riordan St, Mascot | 86755 | Premise Match | 129m | South West |
| ENGINEERS-FABRICATING | A.E.P. Sheet Metal Pty. Ltd., 205 O'Riordan St, Mascot | 28366 | Premise Match | 129m | South West |
| ENGINEERS-GENERAL &/OR MANUFACTURING &/OR MECHANICAL | Austral Engineering Products Pty. Ltd, 205-213 O'Riordan St, Mascot | 28707 | Premise Match | 129m | South West |

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1975 Business Directory Records Road or Area Matches

Records from the 1975 UBD Business Directory, mapped to a road or an area, within the dataset buffer. Records are mapped to the road when a building number is not supplied, cannot be found, or the road has been renumbered since the directory was published:

| Business Activity | Premise | Ref No. | Location Confidence | Distance to Road Corridor or Area |
|--------------------------------------|---|---------|---------------------|-----------------------------------|
| SUGAR REFINERS. | Industrial Sugar Mills Pty. Ltd., 389 King St, Mascot. | 81276 | Road Match | 140m |
| MOTOR SERVICE STATIONS - PETROL, OIL | Kings Street Auto Part, King St., Mascot, 2020 | 61836 | Road Match | 140m |
| GALVANISING &/OR TINNING. | Mascot Galvanising Works Pty. Ltd., 342 King St., Mascot. | 37549 | Road Match | 140m |

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

1970 Historical Business Directory Records
 146-154 O’Riordan Street, Mascot, NSW 2020



Historical Business Directories

146-154 O'Riordan Street, Mascot, NSW 2020

1970 Business Directory Records Premise or Road Intersection Matches

Records from the 1970 UBD Business Directory, mapped to a premise or road intersection, within the dataset buffer:

| Business Activity | Premise | Ref No. | Location Confidence | Distance to Feature Point | Direction |
|--|--|---------|---------------------|---------------------------|------------|
| PLYWOOD MFRS./MERCHANTS (P622) | Bretts Timber Agencies Pty. Ltd., 263 King St., Mascot | 350886 | Premise Match | 69m | South |
| DOOR MANUFACTURERS (D480) | Bretts Timber Agencies Pty Ltd., 263 King St., Mascot | 290106 | Premise Match | 69m | South |
| TIMBER MERCHANTS (T385) | Bretts Timber Agencies Pty.Ltd., 263 King St., Mascot | 368913 | Premise Match | 69m | South |
| BUILDERS' SUPPLIERS (B314) | Bretts Timber Agencies Pty. Ltd., 263 King St., Mascot | 271251 | Premise Match | 69m | South |
| FURNITURE/CABINET MAKERS/SUPPLIES (F695) | Bretts Timber Agencies Pty.Ltd., 263 King St., Mascot | 308939 | Premise Match | 69m | South |
| TIMBER IMPORTERS &/OR DISTRIBUTORS (T380) | Bretts Timber Agencies Pty Ltd., 263 King St., Mascot | 368822 | Premise Match | 69m | South |
| CARRIERS & CARTAGE CONTRACTORS (C150) | Cook, A. & Sons Pty. Ltd., 247-261 King St., Mascot | 278015 | Premise Match | 71m | South East |
| CARRIERS & CARTAGE CONTRACTORS-MASTER (C147) | Cook, A. & Sons Pty. Ltd., 247-261 King St., Mascot | 278450 | Premise Match | 71m | South East |
| HAULAGE CONTRACTORS (H323) | Cook, A. & Sons Pty. Ltd., 247-261 King St., Mascot | 315631 | Premise Match | 71m | South East |
| CRANES-MOBILE-PROPRIETORS &/OR HIRERS (C737) | Cook, A. & Sons Pty. Ltd., 247-261 King St., Mascot | 286272 | Premise Match | 71m | South East |
| BOND & FREE STORES (B525) | Cook, A. & Sons Pty. Ltd., 247-261 King St., Mascot | 268106 | Premise Match | 71m | South East |
| TALLOW MERCHANTS &/OR REFINERS (T040) | Gearin O'Riordan Pty.Ltd., 177 O'Riordan St., Mascot. | 367052 | Premise Match | 72m | North West |
| STOCK FOODS MANUFACTURERS&/OR DISTRIBUTORS (S757) | Gearin O'Riordan Pty.Ltd., 177 O'Riordan St,Mascot | 365881 | Premise Match | 72m | North West |
| EXPORTERS (E835) | Gearin O'Riordan Pty.Ltd., 177 O'Riordan St., Mascot | 301611 | Premise Match | 72m | North West |
| HOLDING COMPANIES (H470) | Gearin O'Riordan Pty. Ltd., 177 O'Riordan St., Mascot | 316423 | Premise Match | 72m | North West |
| EARTH MOVING EQUIP MFRS. IMPORTERS &/OR DIST. (E020) | American Heavy Equipment Co.Pty.Ltd., 185 O'RiordanSt., Mascot | 292922 | Premise Match | 78m | West |
| MOTOR SPARE PARTS MFRS. &/OR WHOLESALEERS (M732) | Thiess (Sales) Pty. Ltd., 185 O'Riordan St., Alexandria, 2015 | 342225 | Premise Match | 78m | West |
| COAL MINING CONTRACTORS-OPEN CUT (C500) | Thiess Bros Pty. Ltd., 185-189 O'Riordan St., Mascot | 284805 | Premise Match | 78m | West |
| MOTOR CAR/TRUCK IMPORTERS/DISTRIBUTORS (M524) | Thiess (Sales) Pty. Ltd., 185 O'Riordan St., Alexandria, 2015 | 336399 | Premise Match | 78m | West |
| MOTOR CAR/TRUCK DEALERS-NEW/USED (M520) | Thiess (Sales) Pty. Ltd., 185 O'Riordan St., Alexandria, 2015 | 336311 | Premise Match | 78m | West |
| MOTOR SPARE PARTS DEALERS-RETAIL (M728) | Thiess (Sales) Pty. Ltd., 185 O'Riordan St., Alexandria, 2015 | 342049 | Premise Match | 78m | West |
| BRIDGE BUILDERS & CONTRACTORS (B728) | Thiess Bros Pty. Ltd., 185-189 O'Riordan St., Mascot | 269687 | Premise Match | 78m | West |
| POLISH MFRS./DISTRIBUTORS (P638) | Bostik Aust. Pty. Ltd., 191-203 O'Riordan St., Mascot | 351040 | Premise Match | 93m | West |
| WAX MANUFACTURERS &/OR IMPORTERS (W115) | Bostik Aust.Pty Ltd., 191-203 O'Riordan St., Mascot | 373322 | Premise Match | 93m | West |
| ADHESIVE MFRS &/OR DIST. (A120) | Bostik Aust.Pty. Ltd., 191-203 O'Riordan St., Mascot | 259708 | Premise Match | 93m | West |

| Business Activity | Premise | Ref No. | Location Confidence | Distance to Feature Point | Direction |
|--|--|---------|---------------------|---------------------------|------------|
| INSULATING MATERIAL MFRS (I470) | Hoslik Australia Pty Ltd, 191-203 O'Riordan St, Mascot | 319806 | Premise Match | 93m | West |
| ZINC MFRS.&/OR MERCHANTS (Z010) | Durham Chemicals A/asia Pty.Ltd., 163-173 O'Riordan St, Mascot | 375640 | Premise Match | 116m | North |
| ZINC OXIDE MFRS.(Z020) | Durham Chemicals A/asia Pty.Ltd., 163-173 O'Riordan St, Mascot | 375644 | Premise Match | 116m | North |
| EARTH MOVING EQUIP.MFRS.,IMPORTERS &/OR DIST.(E020) | Ateco Pty.Ltd., 279 King St., Mascot | 292926 | Premise Match | 125m | South West |
| TRAILER & SEMI-TRAILER SPARE PARTS-MFRS &/OR DIST.(T590) | Gwynne R.L.Pty.Ltd., 279 King St., Mascot | 370710 | Premise Match | 125m | South West |
| WINCH MANUFACTURERS &/OR DISTRIBUTORS (W220) | McKee Sales Pty.Ltd, 279 King St, Mascot | 374281 | Premise Match | 125m | South West |
| STEEL FABRICATORS (S673) | A.E.P. Sheet Metal Pty. Ltd., 205 O'Riordan St., Mascot, 2020 | 365148 | Premise Match | 127m | South West |
| ELECTRICAL METER BOX & SURROUNDS-MFRS.(E318) | A.E.P.Sheet Metal Pty.Ltd., 205 O'Riordan St., Mascot, 2020 | 295494 | Premise Match | 127m | South West |
| ELECTRICAL SWITCHBOARD MANUFACTURERS (E335) | A.E.P.Sheet Metal Pty.Ltd., 205 O'Riordan St., Mascot, 2020. | 296188 | Premise Match | 127m | South West |
| MOTOR PANEL BEATERS (M680) | Kewin,G. H., 283 King St., Mascot | 340168 | Premise Match | 127m | South West |
| MOTOR PAINTERS (M672) | Kewin,G. H., 283 King St., Mascot | 339414 | Premise Match | 127m | South West |
| MOTOR GARAGES & ENGINEERS(M656) | Viscount Service Station, 283 King St. MASCOT | 338828 | Premise Match | 127m | South West |
| ENGINEERS-HOT WATER VENTILATING (E640) | A.E.P. Sheet Metal Pty. Ltd., 205 O'Riordan St., Mascot, 2020 | 299841 | Premise Match | 127m | South West |
| SHEET METAL WORKERS (S230) | A.E.P. Sheet Metal Pty. Ltd., 205 O'Riordan St., Mascot, 2020 | 360516 | Premise Match | 127m | South West |
| ENGINEERS-FABRICATING (E580) | A.E.P. Sheet Metal Pty. Ltd., 205 O'Riordan St., Mascot, 2020 | 298398 | Premise Match | 127m | South West |
| ENGINEERS-AIR CONDITIONING (E490) | A.E.P.Air Conditioning Pty.Ltd., 205 O'Riordan St., Mascot | 287316 | Premise Match | 127m | South West |
| VENTILATING EQUIPMENT MFRS &/OR DISTRIBUTORS (V120) | A.E.P.Sheet Metal Pty.Ltd., 205 O'Riordan St., Mascot, 2020 | 372516 | Premise Match | 127m | South West |
| WELDERS-ELECTRIC &/OR OXY (W145) | A.E.P.Sheet Metal Pty.Ltd., 205 O'Riordan St., Mascot, 2020 | 373411 | Premise Match | 127m | South West |
| AIR CONDITIONING UNITS &MACHINERY MFRS(A250) | A.E.P. Air Conditioning Pty. Ltd., 205 O'Riordan St., Mascot | 260779 | Premise Match | 127m | South West |

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1970 Business Directory Records Road or Area Matches

Records from the 1970 UBD Business Directory, mapped to a road or an area, within the dataset buffer. Records are mapped to the road when a building number is not supplied, cannot be found, or the road has been renumbered since the directory was published:

| Business Activity | Premise | Ref No. | Location Confidence | Distance to Road Corridor or Area |
|--|---|---------|---------------------|-----------------------------------|
| BOX & CASE MERCHANTS &/OR MANUFACTURERS (B645) | Winna Box Factory Pty. Ltd., 181 O'Riordan St., Mascot | 269485 | Road Match | 0m |
| MOTOR SERVICE STATIONS- PETROL,OIL Etc (M710) | King Street Auto Port, King St, MASCOT | 341250 | Road Match | 140m |
| GALVANISING & TINNING (G030) | Mascot Galvanising Works Pty.Ltd., 342 King St., Mascot | 310215 | Road Match | 140m |

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

1965 Historical Business Directory Records
 146-154 O’Riordan Street, Mascot, NSW 2020



Historical Business Directories

146-154 O'Riordan Street, Mascot, NSW 2020

1965 Business Directory Records Premise or Road Intersection Matches

Records from the 1965 UBD Business Directory, mapped to a premise or road intersection, within the dataset buffer:

| Business Activity | Premise | Ref No. | Location Confidence | Distance to Feature Point | Direction |
|--|--|---------|---------------------|---------------------------|------------|
| Fork-Lift Truck Manufacturers | Apac Industries Limited, 146 O'Riordan St., Mascot | 89276 | Premise Match | 0m | Onsite |
| Trucks & Trolleys - Industrial - Imports. &/or Mfrs. | Apac Industries Limited, 146 O'Riordan St., Mascot | 154147 | Premise Match | 0m | Onsite |
| Electronic Equipment Mfrs. &/or Dist. | Crypton A/asia Pty. Limited., 146 O'Riordan St., Mascot | 79997 | Premise Match | 0m | Onsite |
| Motor Garage Equipment/Tool Mfrs./Distributors | Crypton A/asia Pty. Ltd., 146 O'Riordan St., Mascot | 122004 | Premise Match | 0m | Onsite |
| Motor Foundation Hard Trim | Apac Industries Limited, 146 O'Riordan St., Mascot | 121995 | Premise Match | 0m | Onsite |
| SPRAYING EQUIPMENT MFRS &/OR DISTRIBUTORS | Apac Industries Ltd., 146 O'Riordan St., Mascot | 146796 | Premise Match | 0m | Onsite |
| Lawn Mowers - Motor Powered - Importers, Distributors &/or Manufacturers | Apac Industries Ltd., 146 O'Riordan St., Mascot | 107229 | Premise Match | 0m | Onsite |
| Lubricating Equipment Manufacturers | Apac Industries Ltd., 146 O'Riordan St., Mascot | 108469 | Premise Match | 0m | Onsite |
| Material-Handling Equip. Manufacturers | Apac Industries Ltd., 146 O'Riordan St., Mascot | 110380 | Premise Match | 0m | Onsite |
| Conveyors & Conveying Equip. Manufacturers | Apac Industries Ltd., 146 O'Riordan St., Mascot | 70393 | Premise Match | 0m | Onsite |
| Motor Testing/Tuning Equipment Mfrs./Distributors | Crypton A/asia Pty. Limited, 146 O'Riordan St., Mascot | 126960 | Premise Match | 0m | Onsite |
| Battery Charging & Testing Equipment Distributors | Crypton A/asia Pty. Ltd., 146 O'Riordan St., Mascot | 50005 | Premise Match | 0m | Onsite |
| Furniture - Office - Mfrs. &/or Wholesalers | Bendix Industries (N.S.W.) Pty. Ltd., 70 Macintosh St., Mascot | 93924 | Premise Match | 33m | East |
| Furniture - Tubular Steel - Mfrs &/or W/Salers | Bendix Industries (N.S.W.) Pty. Ltd., 70 Macintosh St., Mascot | 94251 | Premise Match | 33m | East |
| Chair Manufacturers | Bendix Industries (N.S.W.) Pty. Ltd., 70 Macintosh St., Mascot | 63870 | Premise Match | 33m | East |
| Hospital Equipment Mfrs. &/or Suppliers | Bendix Industries (N.S.W.) Pty. Ltd., 70 Macintosh St., Mascot | 100746 | Premise Match | 33m | East |
| Hotel Equipment/Supplies | Bendix Industries (N.S.W.) Pty. Ltd., 70 Macintosh St., Mascot | 101295 | Premise Match | 33m | East |
| Hairdressers' Supplies | Bendix Industries (N.S.W.) Pty. Ltd., 70 Macintosh St., Mascot | 98695 | Premise Match | 33m | East |
| Café Equipment & Supplies | Bendix Industries (N.S.W.) Pty. Ltd., 70 Macintosh St., Mascot | 59997 | Premise Match | 33m | East |
| Pump Manufacturers &/or Distributors | Royle, Arlan Pty. Ltd., 267 King St., Mascot | 137566 | Premise Match | 69m | South |
| TIMBER MERCHANTS | Bretts Timber Agencies Pty. Ltd., 263 King St., Mascot | 151755 | Premise Match | 69m | South |
| Wallboard Mfrs | Bretts Timber Agencies Pty. Ltd., 263 King St., Mascot | 155593 | Premise Match | 69m | South |
| Joinery Merchants | Bretts Timber Agencies Pty. Ltd., 263 King St., Mascot | 106637 | Premise Match | 69m | South |
| Builders' Suppliers | Ashfield Plywood & Timber Pty. Ltd., 263 King St., Mascot | 55978 | Premise Match | 69m | South |
| Cranes - Mobile - Proprietors & Hirers | Cook, A. & Sons Pty. Ltd., 247 King St., Mascot | 71062 | Premise Match | 71m | South East |
| Carriers & Cartage Contractors - Master | Cook, A. & Sons Pty. Ltd., 247-261 King St., Mascot | 62671 | Premise Match | 72m | South East |

| Business Activity | Premise | Ref No. | Location Confidence | Distance to Feature Point | Direction |
|---|---|---------|---------------------|---------------------------|------------|
| Carriers & Cartage Contractors | Cook, A. & Sons Pty. Ltd., 247-261 King St, Mascot | 62944 | Premise Match | 72m | South East |
| BOND & FREE STORES | Cook, A. & Sons Pty. Ltd., 247 King St, Mascot, 67 4946 | 52524 | Premise Match | 72m | South East |
| TALLOW MERCHANTS &/OR REFINERS | Gearin O'Riordan Pty. Ltd., 177 O'Riordan St., Mascot | 149924 | Premise Match | 77m | North West |
| STOCK FOODS MANUFACTURERS &/OR DISTRIBUTORS | Gearin O'Riordan Pty. Limited, 177 O'Riordan St, Mascot | 148986 | Premise Match | 77m | North West |
| Weighbridges | Gearin O'Riordan Pty. Limited, 177 O'Riordan St., Mascot | 156175 | Premise Match | 77m | North West |
| Earth Moving Equipment - Mfrs. Importers &/or Dist. | American Heavy Equipment Co. Pty. Ltd., 185 O'Riordan St., Mascot | 76868 | Premise Match | 78m | West |
| Coal Mining Contractors - Open Cut | Thiess Bros. Pty. Ltd., 185-189 O'Riordan St., Mascot | 69457 | Premise Match | 78m | West |
| Engineers - Civil | Thiess Bros. Pty. Limited, 185-189 O'Riordan St., Mascot | 80895 | Premise Match | 78m | West |
| Earth-Moving Contractors | Thiess Bros. Pty. Limited, 185-189 O'Riordan St., Mascot | 76818 | Premise Match | 78m | West |
| Engineers - Constructional | Thiess Bros. Pty. Ltd., 185-189 O'Riordan St., Mascot | 81025 | Premise Match | 78m | West |
| Bride Builders & Contractors | Thiess Bros. Pty. Ltd., 185-189 O'Riordan St., Mascot | 54242 | Premise Match | 78m | West |
| Builders & Contractors | Thiess Bros. Pty. Limited, 185-189 O'Riordan St., Mascot | 55669 | Premise Match | 78m | West |
| Road - Making Contractors | Thiess Bros. Pty. Limited, 185-189 O'Riordan St., Mascot | 140749 | Premise Match | 78m | West |
| Contractors - General | Thiess Bros. Pty. Limited, 185-189 O'Riordan St., Mascot | 70303 | Premise Match | 78m | West |
| Box & Case Merchants &/or Mfrs. | Winne Box Factory Pty. Ltd., 181 O'Riordan St., Mascot | 54026 | Premise Match | 89m | North |
| Chemists - Manufacturing &/or Wholesale | B. B. Chemical of Aust. Pty. Ltd., 191 O'Riordan St., Alexandria | 64446 | Premise Match | 93m | West |
| Dye & Bleach Manufacturers Imports. &/or Dist. | B.B. Chemical Co. of Aust. Pty. Ltd., 191 O'Riordan St., Alexandria | 76660 | Premise Match | 93m | West |
| Adhesive Mfrs. &/or Dist. | Bostik Aust. Pty. Ltd., 191-203 O'Riordan St., Mascot | 44588 | Premise Match | 93m | West |
| Polish Manufacturers/Distributors | Bostik Aust. Pty. Ltd., 191-203 O'Riordan St., Mascot | 135257 | Premise Match | 93m | West |
| Wax Mfrs. &/or Importers | Bostik Aust. Pty. Ltd., 191-203 O'Riordan St., Mascot | 156078 | Premise Match | 93m | West |
| Sealing Compounds | Bostik Australia Pty. Ltd., 191-203 O'Riordan St., Mascot | 143423 | Premise Match | 93m | West |
| Insulating Material Mfrs | Bostik Australia Pty. Ltd., 191-203 O'Riordan St., Mascot | 103950 | Premise Match | 93m | West |
| Motor Painters | Kibble & Abbey Pty. Ltd., 191 O'Riordan St., Mascot | 124001 | Premise Match | 93m | West |
| Motor Body Repairs/Converters | Kable & Abbey Pty. Ltd., 191 O'Riordan St., Mascot | 120171 | Premise Match | 93m | West |
| Motor Trimmers | Hyde, Frank, 191 O'Riordan St., Mascot | 127233 | Premise Match | 93m | West |
| Builders' Suppliers | Bostik Australia Pty. Limited, 191-203 O'Riordan St., Mascot | 56024 | Premise Match | 93m | West |
| Milk Vendors | Taylor, J. W., 191 O'Riordan St., Mascot | 115933 | Premise Match | 93m | West |
| Engineers - Abattoirs | Keith Engineering (Aust) Pty. Ltd., 163 O'Riordan St., Mascot | 80589 | Premise Match | 115m | North |
| ABATTOIRS' MACHINERY SUPPLIES - MFRS. | Keith Engineering Sales Pty. Ltd., 163 O'Riordan St., Mascot | 43258 | Premise Match | 115m | North |
| Zinc Mfrs. | Durham Chemicals A/asia Pty. Ltd., 163-173 O'Riordan St., Mascot | 158578 | Premise Match | 116m | North |
| Zinc Oxide | Durham Chemicals A/asia Pty. Ltd., 163-173 O'Riordan St., Mascot | 158581 | Premise Match | 116m | North |
| SIGNWRITERS | Taylor, R., 279 King St, Mascot | 144919 | Premise Match | 125m | South West |
| STEEL FABRICATORS | Austral Engineering Products Pty. Ltd., 205 O'Riordan St., Mascot | 148074 | Premise Match | 127m | South West |
| Electrical Meter Box & Surrounds - Mfrs | Austral Engineering Products Pty. Ltd., 205 O'Riordan St., Mascot | 79152 | Premise Match | 127m | South West |
| Electrical Switchboard Mfrs. | Austral Engineering Products Pty. Ltd., 205 O'Riordan St., Mascot | 79868 | Premise Match | 127m | South West |

| Business Activity | Premise | Ref No. | Location Confidence | Distance to Feature Point | Direction |
|---|---|---------|---------------------|---------------------------|------------|
| Motor Painters | Kewin, G. H., 283 King St., Mascot | 124007 | Premise Match | 127m | South West |
| Motor Panel Beaters | Kewin, G. H., 283 King St., Mascot | 124761 | Premise Match | 127m | South West |
| Motor Garages & Engineers | Viscount Service Station, 283 King St., Mascot | 123021 | Premise Match | 127m | South West |
| Air Equipment Mfrs. &/or Dist. | A.E.P. Air Conditioning Pty. Ltd., 205 O'Riordan St., Mascot | 45725 | Premise Match | 127m | South West |
| Air Conditioning Units & Machinery Mfrs | A.E.P. Air Conditioning Pty. Ltd., 205 O'Riordan St., Mascot | 45674 | Premise Match | 127m | South West |
| Air Conditioning Units & Machinery Mfrs. | Austral Engineering Products Pty. Ltd., 205 O'Riordan St., Mascot | 45679 | Premise Match | 127m | South West |
| Engineers - Air Conditioning | Austral Engineering Products Pty. Ltd., 205 O'Riordan St., Mascot | 80658 | Premise Match | 127m | South West |
| Engineers - Fabricating | Austral Engineering Products Pty. Ltd., 205 O'Riordan St., Mascot | 81677 | Premise Match | 127m | South West |
| Sheet Metal Workers | Austral Engineering Products Pty. Ltd., 205 O'Riordan St., Mascot | 143840 | Premise Match | 127m | South West |
| Welders - Electric &/or Oxy | Austral Engineering Products Pty. Ltd., 205 O'Riordan St., Mascot | 156232 | Premise Match | 127m | South West |
| Ventilating Equipment Mfrs. &/or Distributors | Austral Engineering Products Pty. Ltd., 205 O'Riordan St., Mascot | 155351 | Premise Match | 127m | South West |
| Engineers - Hot Water, Heating/Ventilating | Austral Engineering Products Pty. Ltd., 205 O'Riordan St., Mascot | 83102 | Premise Match | 127m | South West |

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1965 Business Directory Records Road or Area Matches

Records from the 1965 UBD Business Directory, mapped to a road or an area, within the dataset buffer. Records are mapped to the road when a building number is not supplied, cannot be found, or the road has been renumbered since the directory was published:

| Business Activity | Premise | Ref No. | Location Confidence | Distance to Road Corridor or Area |
|---|--|---------|---------------------|-----------------------------------|
| Engineers General &/or Mfrg. &/or Mechanical | Lekod Pty. Ltd., 210 O'Riordan St., Mascot | 82567 | Road Match | 0m |
| Motor Car Spring Mfrs. | Lewis, A. H. Pty. Ltd., O'Riordan St., Mascot | 121212 | Road Match | 0m |
| Engineers - Repitition | Standfield, R. A. Pty. Ltd., 210 O'Riordan St., Mascot | 84103 | Road Match | 0m |
| Plastic Manufacturers &/or Moulders | Standfield, R. A. Pty. Ltd., 210 O'Riordan St., Mascot | 134149 | Road Match | 0m |
| Engineers General &/or Mfrg. &/or Mechanical | Standfield, R. A. Pty. Ltd., 210 O'Riordan St., Mascot | 82888 | Road Match | 0m |
| Condiment Mfrs. &/or Dist. | Standfield, R. A. Pty. Ltd., 210 O'Riordan St., Mascot | 70019 | Road Match | 0m |
| Metal Pressers/Stampers | Standfield, R. A. Pty. Ltd., 210 O'Riordan St., Mascot | 114520 | Road Match | 0m |
| Galvanising & Tinning | Mascot Galvanising Works Pty. Ltd., 342 King St., Mascot | 94410 | Road Match | 140m |
| Irrigation Systems & Equipment Mfrs. &/or Dist. | McCarey Irrigation Pty. Ltd., 338a King St., Mascot | 105407 | Road Match | 140m |

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

1961 Historical Business Directory Records
 146-154 O’Riordan Street, Mascot, NSW 2020



Historical Business Directories

146-154 O'Riordan Street, Mascot, NSW 2020

1961 Business Directory Records Premise or Road Intersection Matches

Records from the 1961 UBD Business Directory, mapped to a premise or road intersection, within the dataset buffer:

| Business Activity | Premise | Ref No. | Location Confidence | Distance to Feature Point | Direction |
|---|---|---------|---------------------|---------------------------|------------|
| STEAM GENERATOR MFRS. | Clayton Manufacturing (Aust.) Pty. Ltd., 146 O'Riordan St., Mascot | 253251 | Premise Match | 0m | Onsite |
| STEAM CLEANING EQUIP. MFRS. | Clayton Manufacturing (Aust.) Pty. Ltd., 146 O'Riordan St., Mascot | 253238 | Premise Match | 0m | Onsite |
| ENGINEERS-STEAM | Clayton Manufacturing (Aust.) Pty. Ltd., 146 O'Riordan St., Mascot | 308411 | Premise Match | 0m | Onsite |
| FURNITURE-OFFICE-MFRS. | Bendix Industries (N.S.W.) Pty. Ltd., 70 Macintosh St., Mascot | 318124 | Premise Match | 33m | East |
| FURNITURE-TUBULAR STEEL-MFRS. &/OR W'SALERS | Bendix Industries (N.S.W.) Pty. Ltd., 70 Macintosh St., Mascot | 318281 | Premise Match | 33m | East |
| BEDSTEAD MANUFACTURERS | Bendix Industries (N.S.W.) Pty. Ltd., 70 Macintosh St., Mascot | 272953 | Premise Match | 33m | East |
| CHAIR MANUFACTURERS | Bendix Industries (N.S.W.) Pty. Ltd., 70 Macintosh St., Mascot | 286317 | Premise Match | 33m | East |
| HAIRDRESSERS' EQUIP. MFRS. | Bendix Industries (N.S.W.) Pty. Ltd., 70 Macintosh St., Mascot | 322663 | Premise Match | 33m | East |
| HOSPITAL EQUIPMENT MFRS. &/OR SUPPLIERS | Bendix Industries (N.S.W.) Pty. Ltd., 70 Macintosh St., Mascot | 324669 | Premise Match | 33m | East |
| HOTEL EQUIPMENT/SUPPLIES | Bendix Industries (N.S.W.) Pty. Ltd., 70 Macintosh St., Mascot | 325058 | Premise Match | 33m | East |
| FURNITURE-TUBULAR STEEL-MFRS. &/OR W'SALERS | Bendix Industries (NSW) Pty Ltd 70 Macintosh St., Mascot | 318282 | Premise Match | 33m | East |
| HAIRDRESSERS' SUPPLIES | Bendix Industries (N.S.W.) Pty. Ltd., 70 Macintosh St., Mascot | 322676 | Premise Match | 33m | East |
| SANITARYWARE IMPORTERS | Bendix Industries (N.S.W.) Pty. Ltd., 70 Macintosh St., Mascot | 247752 | Premise Match | 33m | East |
| MOTOR SERVICE STATIONS—PETROL, OIL, Etc. | Viscount Service Station, 273b King St, MASCOT | 351248 | Premise Match | 69m | South |
| BOND & FREE STORES | Cook A & Sons Pty Ltd 247-261 King St., Mascot | 274133 | Premise Match | 74m | South East |
| TALLOW MERCHANTS &/OR REFINERS | Gearin O'Riordan Pty Limited 177 O'Riordan St., Mascot | 255259 | Premise Match | 77m | North West |
| TALLOW MERCHANTS &/OR REFINERS | Gearin O'Riordan Pty. Ltd., 177 O'Riordan St., Mascot | 255260 | Premise Match | 77m | North West |
| STOCK FOODS MANUFACTURERS &/OR DISTRIBUTORS | Gearin O'Riordan Pty Limited 177 O'Riordan St., Mascot | 254030 | Premise Match | 77m | North West |
| STOCK FOODS MANUFACTURERS &/OR DISTRIBUTORS | Gearin, O'Riordan Pty. Limited, 177 O'Riordan St., Mascot | 254031 | Premise Match | 77m | North West |
| WEIGHBRIDGES | Gearin, O'Riordan Pty. Limited, 177 O'Riordan St., Mascot | 261798 | Premise Match | 77m | North West |
| EARTH MOVING MACHINERY PARTS-MFRS. &/OR DIST. | American Heavy Equipment Co. Pty. Ltd., 185 O'Riordan St., Mascot | 299708 | Premise Match | 78m | West |
| EARTH-MOVING EQUIPMENT MFRS., IMPORTERS | American Heavy Equipment Co. Pty. Ltd., 185 O'Riordan St., Mascot | 299888 | Premise Match | 78m | West |
| CRUSHING MACHINE MFRS. &/OR DISTRIBUTORS | American Heavy Equipment Company Pty. Ltd., 185 O'Riordan St., Mascot | 293836 | Premise Match | 78m | West |
| MOTOR CAR/TRUCK DEALERS—NEW/USED | American Heavy Equipment Co. Pty. Ltd., 185 O'Riordan St., Mascot | 344831 | Premise Match | 78m | West |
| MOTOR CAR/TRUCK IMPORTERS/DISTRIBUTORS | Thiess (Sales) Pty. Ltd., 185 O'Riordan St., Mascot | 345552 | Premise Match | 78m | West |
| EARTH-MOVING CONTRACTORS | Thiess Bros Pty Limited 185-189 O'Riordan St., Mascot | 299864 | Premise Match | 78m | West |

| Business Activity | Premise | Ref No. | Location Confidence | Distance to Feature Point | Direction |
|--|--|---------|---------------------|---------------------------|------------|
| ENGINEERS-CIVIL | Thiess Bros Pty Limited 185-189 O'Riordan St., Mascot P.O. Box 98-Mascot | 304883 | Premise Match | 78m | West |
| ENGINEERS-CIVIL | Thiess Bros. Pty. Limited, 185-189 O'Riordan St. Mascot | 304884 | Premise Match | 78m | West |
| MOTOR CAR/TRUCK DEALERS—NEW/USED | Thiess (Sales) Pty. Ltd., 185 O'Riordan St., Mascot | 345423 | Premise Match | 78m | West |
| EARTH-MOVING CONTRACTORS | Thiess Bros. Pty. Limited, 185-189 O'Riordan St., Mascot | 299865 | Premise Match | 78m | West |
| BUILDERS & CONTRACTORS | Thiess Bros Pty Limited 185-189 O'riordan St., Mascot | 276677 | Premise Match | 78m | West |
| BUILDERS & CONTRACTORS | Thiess Bros. Pty. Limited, 185-189 O'Riordan St., Mascot | 276678 | Premise Match | 78m | West |
| CONTRACTORS-GENERAL | Thiess Bros Pty Limited 185-189 O'Riordan St., Mascot | 292903 | Premise Match | 78m | West |
| ROAD-MAKING CONTRACTORS | Thiess Bros Pty Limited 185-189 O'Riordan St., Mascot | 246538 | Premise Match | 78m | West |
| ROAD-MAKING CONTRACTORS | Thiess Bros. Pty. Limited, 185-189 O'Riordan St., Mascot | 246539 | Premise Match | 78m | West |
| CONTRACTORS-GENERAL | Thiess Bros. Pty. Limited, 185-189 O'Riordan St. Mascot | 292904 | Premise Match | 78m | West |
| MOTOR PAINTERS | Smith & Bassett Pty. Ltd., 191 O'Riordan St., Mascot | 349178 | Premise Match | 93m | West |
| MOTOR PANEL BEATERS | Smith & Bassett Pty. Ltd. 191 O'Riordan St., Mascot | 349961 | Premise Match | 93m | West |
| MOTOR BODY REPAIRS/CONVERTERS | Smith & Bassett Pty. Ltd., 191 O'Riordan St., Mascot | 344438 | Premise Match | 93m | West |
| MOTOR TRIMMERS | Hyde, Frank, 191 O'Riordan St., Mascot | 352284 | Premise Match | 93m | West |
| MILK VENDORS | Taylor, J. W., 191 O'Riordan St., Mascot | 338730 | Premise Match | 93m | West |
| ZINC MERCHANTS | Durham Chemicals Aust. Pty. Ltd., 163-173 O'Riordan St., Mascot | 264427 | Premise Match | 115m | North |
| ZINC OXIDE MFRS. | Durham Chemicals Aust. Pty. Ltd., 163-173 O'Riordan St., Mascot | 264434 | Premise Match | 115m | North |
| PRESSURE VESSEL MFRS. | Byrne & Thomas Pty. Ltd., 283 King St., Mascot | 361761 | Premise Match | 127m | South West |
| STEEL FABRICATORS | Austral Engineering Products Pty. Ltd., 205 O'Riordan St., Mascot | 253389 | Premise Match | 133m | South West |
| SHEET METAL WORKERS | Austral Engineering Products Pty. Ltd., 205 O'Riordan St., Mascot | 249186 | Premise Match | 133m | South West |
| ENGINEERS-HOT WATER, HEATING/VENTILATING | Austral Engrg. Products Pty. Ltd., 205 O'Riordan St., Mascot | 307300 | Premise Match | 133m | South West |

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1961 Business Directory Records Road or Area Matches

Records from the 1961 UBD Business Directory, mapped to a road or an area, within the dataset buffer. Records are mapped to the road when a building number is not supplied, cannot be found, or the road has been renumbered since the directory was published:

| Business Activity | Premise | Ref No. | Location Confidence | Distance to Road Corridor or Area |
|--|---|---------|---------------------|-----------------------------------|
| CRANES-MOBILE-IMPORTERS &/OR DISTRIBUTORS | American Heavy Equipment Company Pty. Ltd., 183 O'Riordan St., Mascot | 293666 | Road Match | 0m |
| MOTOR GARAGE EQUIPMENT/TOOL MFRS./DISTRIBUTORS | Clayton (Aust.) Pty. Ltd., O'Riordan St., Mascot | 346420 | Road Match | 0m |
| STEAM PLANT EQUIPMENT MFRS. &/OR DIST. | Clayton Industries (Aust.) Pty. Ltd., O'Riordan St., Mascot | 253263 | Road Match | 0m |
| MOTOR GARAGES & ENGINEERS | Clayton Manufacturing Pty. Ltd., O'Riordan St. MASCOT | 346898 | Road Match | 0m |
| MOTOR SERVICE STATIONS—PETROL, OIL, Etc. | Lewis, A. H. Pty. Ltd., O'Riordan St. MASCOT | 350787 | Road Match | 0m |
| MOTOR CAR SPRING MFRS. | Lewis, A. H. Pty. Ltd., O'Riordan St., Mascot | 344797 | Road Match | 0m |

| Business Activity | Premise | Ref No. | Location Confidence | Distance to Road Corridor or Area |
|--|---|---------|---------------------|-----------------------------------|
| WELDING ARC SET MFRS. | Samson Arcwell Electrical Pty. Ltd., 4-6 Old Botany Rd., Mascot | 282606 | Road Match | 0m |
| WELDING MACHINE MFRS | Samson Arcwell Electrical Pty. Ltd., 4-6 Old Botany Rd., Mascot | 262675 | Road Match | 0m |
| ELECTRODES (WELDERS) - MANUFACTURERS | Samson Arcwell Electrical Pty. Ltd., 6 Old Botany Rd., Mascot | 303704 | Road Match | 0m |
| PENCIL SHARPENER MFRS. | Standfield R A Pty Ltd 210 O'Riordan St Mascot | 357308 | Road Match | 0m |
| CONDIMENT MFRS. &/OR DISTS. | Standfield, R. A. Pty. Ltd., 210 O'Riordan St., Mascot | 292560 | Road Match | 0m |
| ENGINEERS-GENERAL/MFRG / MECHANICAL | Standfield, R. A. Pty. Ltd., 210 O'Riordan St., Mascot | 307055 | Road Match | 0m |
| ENGINEERS-REPETITION | Standfield, R. A. Pty. Ltd., 210 O'Riordan St., Mascot | 308330 | Road Match | 0m |
| METAL PRESSERS/STAMPERS | Standfield, R. A. Pty. Ltd., 210 O'Riordan St., Mascot | 338319 | Road Match | 0m |
| BOX & CASE MERCHANTS &/OR MANUFACTURERS | Winna Box Factory Pty. Ltd., 181 O'Riordan St., Mascot | 275586 | Road Match | 0m |
| BOND & FREE STORES | Cook, A. & Sons Pty. Ltd., 747-761 King St., Mascot | 274114 | Road Match | 140m |
| GALVANISING & TINNING | Mascot Galvanising Works Pty. Ltd., 342 King St., Mascot | 318453 | Road Match | 140m |
| ENGINEERS-GENERAL/MFRG / MECHANICAL | McCarey Irrigation & Engineering, King St., Mascot | 306747 | Road Match | 140m |
| IRRIGATION SYSTEMS & EQUIPMENT MFRS. &/OR DISTS. | McCarey Irrigation & Engineering, King St., Mascot | 328757 | Road Match | 140m |

Business Directory Content: Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

1950 Historical Business Directory Records
 146-154 O'Riordan Street, Mascot, NSW 2020



Historical Business Directories

146-154 O'Riordan Street, Mascot, NSW 2020

1950 Business Directory Records Premise or Road Intersection Matches

Records from the 1950 UBD Business Directory, mapped to a premise or road intersection, within the dataset buffer:

| Business Activity | Premise | Ref No. | Location Confidence | Distance to Feature Point | Direction |
|--------------------------------------|---|---------|---------------------|---------------------------|------------|
| PAINT, VARNISH & STAIN MANUFACTURERS | Campbell, W. F. Pty. Ltd., 70 Macintosh St., Mascot | 90618 | Premise Match | 33m | East |
| MOTOR GARAGES &/OR ENGINEERS | Quartly, A., 273 King St., Mascot | 84245 | Premise Match | 70m | South West |
| MOTOR PAINTERS | Quartly, A., 273 King St., Mascot | 84985 | Premise Match | 70m | South West |
| MOTOR PANEL BEATERS | Quartly, A., 273 King St., Mascot | 85459 | Premise Match | 70m | South West |
| MOTOR GARAGES &/OR ENGINEERS | Stevens, W. H., 265 King St., Mascot | 84428 | Premise Match | 70m | South West |

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

1950 Business Directory Records Road or Area Matches

Records from the 1950 UBD Business Directory, mapped to a road or an area, within the dataset buffer. Records are mapped to the road when a building number is not supplied, cannot be found, or the road has been renumbered since the directory was published:

| Business Activity | Premise | Ref No. | Location Confidence | Distance to Road Corridor or Area |
|--|--|---------|---------------------|-----------------------------------|
| STEAM CLEANING EQUIPMENT MANUFACTURERS | Andersen Engineering Pty. Ltd., 29-35 Old Botany Rd., Mascot | 105132 | Road Match | 0m |
| CHEMICAL MANUFACTURERS | Andersen Products Pty. Ltd., 29 Old Botany Rd., Mascot | 20985 | Road Match | 0m |
| MACHINERY MERCHANTS &/OR IMPORTERS | Andersen Products Pty. Ltd., 29 Old Botany Rd., Mascot | 70007 | Road Match | 0m |
| MANUFACTURERS' AGENTS | Andersen Products Pty. Ltd., 29-35 Old Botany Rd., Mascot | 70749 | Road Match | 0m |
| ENGINEERS-GENERAL &/OR MANUFACTURING &/OR MECHANICAL | Andersen, P. M. Eng. Pty. Ltd., 29-35 Old Botany Rd., Mascot | 40398 | Road Match | 0m |
| CHEMISTS-MANUFACTURING & WHOLESALE | Andersol Chemicals Pty. Ltd., 20-35 Old Botany Rd., Mascot | 70405 | Road Match | 0m |
| CHEMICAL MANUFACTURERS | Andersol Chemicals Pty. Ltd., 29 Old Botany Rd., Mascot | 20986 | Road Match | 0m |
| CLEANSER & CLEANING PREPARATIONS MFRS. &/OR DISTRIBUTORS | Andersol Chemicals Pty. Ltd., 29-35 Old Botany Rd., Mascot | 23005 | Road Match | 0m |
| DETERGENT MFRS. &/OR DISTRIBUTORS | Andersol Chemicals Pty. Ltd., 29-35 Old Botany Rd., Mascot | 32554 | Road Match | 0m |
| ENGINEERS-STEAM | Anderson, P. M. Engineering Pty. Ltd., 29 Old Botany Rd., Mascot | 42349 | Road Match | 0m |
| FOUNDERS-FERROUS | Cole Bros., 42 Old Botany Rd., Mascot | 47651 | Road Match | 0m |
| CARRIERS & CARTAGE CONTRACTORS (MASTER) | Corfield, E. G. Estate of the Late, "Aliceville," Old Botany Rd., Mascot | 20153 | Road Match | 0m |
| BUILDERS' SUPPLIERS | Corfield, E. G., 124 Old Botany Rd., Mascot | 11741 | Road Match | 0m |

| Business Activity | Premise | Ref No. | Location Confidence | Distance to Road Corridor or Area |
|--|--|---------|---------------------|-----------------------------------|
| GRAVEL, SAND & SOIL SUPPLIES | Cottland, E. G., 124 Old Botany Rd., Mascot | 55177 | Road Match | 0m |
| ZINC MERCHANTS | Durham Chemicals Australia Pty. Ltd., 58-66 Old Botany Rd., Mascot | 114769 | Road Match | 0m |
| ZINC MERCHANTS | Gearin, M. and Sons Pty. Ltd., 58-60 Old Botany Rd., Mascot | 114771 | Road Match | 0m |
| STOCK FOODS MFRS. &/OR DISTRIBUTORS | Gearin, O'Riordan Ltd., 41 Old Botany Rd., Mascot | 105678 | Road Match | 0m |
| FERTILIZER MANUFACTURERS & SUPPLIERS | Gearin, O'Riordan Ltd., Old Botany Rd., Mascot | 43769 | Road Match | 0m |
| TALLOW MERCHANTS & REFINERS | Gearin, O'Riordan Ltd., 70 Old Botany Rd., Mascot | 106922 | Road Match | 0m |
| DOG FOOD &/OR MEDICINE MANUFACTURERS | Gearin, O'Riordan, 70 Old Botany Rd., Mascot | 33195 | Road Match | 0m |
| POULTRY FOOD MFRS. &/OR DISTRIBUTORS | Gearin, O'Riordan Ltd., Old Botany Rd., Mascot | 94423 | Road Match | 0m |
| BISCUIT MFRS. &/OR DISTRIBUTORS | Hackshall's Ltd., 4-18 Old Botany Rd., Mascot | 8222 | Road Match | 0m |
| CARRIERS & CARTAGE CONTRACTORS | Jarvie, A., 38 Old Botany Rd., Mascot | 19097 | Road Match | 0m |
| HAULAGE CONTRACTORS-HEAVY | Jarvie, A., 38 Old Botany Rd., Mascot | 61877 | Road Match | 0m |
| TRANSPORT SERVICES-INTERSTATE | Jarvie, A., 38 Old Botany Rd., Mascot | 110248 | Road Match | 0m |
| MOTOR CAR SPRING MANUFACTURERS | Lewis, A. H., 11 Old Botany Rd., Mascot | 82767 | Road Match | 0m |
| SPRING MANUFACTURERS | Lewis, A. H., 11 Old Botany Rd., Mascot | 104794 | Road Match | 0m |
| AGRICULTURAL MACHINERY PARTS MFRS. | Paterson, J., 144 Old Botany Rd., Mascot | 1419 | Road Match | 0m |
| ENGINEERS-GENERAL &/OR MANUFACTURING &/OR MECHANICAL | Paterson, J., 144 Old Botany Rd., Mascot | 41096 | Road Match | 0m |
| ENGINEERS-STRUCTURAL | Paterson, J., 144 Old Botany Rd., Mascot | 42484 | Road Match | 0m |
| SHEET METAL WORKERS | Paterson, J., 144 Old Botany Rd., Mascot | 101795 | Road Match | 0m |
| WELDERS-ELECTRIC &/OR OXY | Paterson, J., 144 Old Botany Rd., Mascot | 112989 | Road Match | 0m |
| WIREWORKERS-GENERAL | Salvey, G. H., 13 Old Botany Rd., Mascot | 113959 | Road Match | 0m |
| DISPLAY FITTINGS MFRS. &/OR SUPPLIERS | Salvey, G. H., 13 Old Botany Rd., Mascot | 33065 | Road Match | 0m |
| MILK BARS & CONFECTIONERS | Shearer, A. A., 142 Old Botany Rd., Mascot | 77348 | Road Match | 0m |
| ENGINEERS-GENERAL &/OR MANUFACTURING &/OR MECHANICAL | Stiff, C. J., 48 Old Botany Rd., Mascot | 41261 | Road Match | 0m |
| MOTOR GARAGES &/OR ENGINEERS | Stiff, C. J., 48 Old Botany Rd., Mascot | 84432 | Road Match | 0m |
| MILK VENDORS | Taylor, J. W., Old Botany Rd., Mascot | 77946 | Road Match | 0m |
| LIVERY STABLES | Vallely, H., 104 Old Botany Rd., Mascot | 69668 | Road Match | 0m |
| RIDING SCHOOLS | Vallely, H., 104 Old Botany Rd., Mascot | 99545 | Road Match | 0m |
| BUTCHERS-RETAIL | Ball, A., King St., Mascot | 13093 | Road Match | 140m |
| GROCERS-RETAIL | Bastow, J. E., King St., Mascot | 56393 | Road Match | 140m |
| BEAUTY SALONS &/OR LADIES' HAIRDRESSERS | Betty's Beauty Box, King St., Mascot | 6890 | Road Match | 140m |
| GROCERS-RETAIL | Bray, W., King St. East, Mascot | 56525 | Road Match | 140m |
| PAINT, VARNISH & STAIN MANUFACTURERS | Consolidated Paints and Products Co., 358 King St., Mascot | 90625 | Road Match | 140m |
| GROCERS-RETAIL | Jerome, B. W., King St., Mascot | 57888 | Road Match | 140m |
| GALVANISING | Mascot Galvanising Works, 342 King St., Mascot | 53925 | Road Match | 140m |
| GROCERS-RETAIL | Murphy's Corner, King and Sharp Sts., Mascot | 58513 | Road Match | 140m |

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

Historical Business Directories

146-154 O'Riordan Street, Mascot, NSW 2020

Dry Cleaners, Motor Garages & Service Stations Premise or Road Intersection Matches

Dry Cleaners, Motor Garages & Service Stations from UBD Business Directories, mapped to a premise or road intersection, within the dataset buffer:

| Business Activity | Premise | Ref No. | Year | Location Confidence | Distance to Feature Point | Direction |
|---|---|---------|------|---------------------|---------------------------|------------|
| MOTOR SERVICE STATIONS—PETROL, OIL, Etc. | Viscount Service Station, 273b King St. MASCOT | 351248 | 1961 | Premise Match | 69m | South |
| MOTOR GARAGES &/OR ENGINEERS | Quartly, A., 273 King St., Mascot | 84245 | 1950 | Premise Match | 70m | South West |
| MOTOR GARAGES &/OR ENGINEERS | Slevens, W. H., 265 King St., Mascot | 84428 | 1950 | Premise Match | 70m | South West |
| MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS | Viscount Service Centre, 283 King St., Mascot. | 51041 | 1978 | Premise Match | 127m | South West |
| MOTOR GARAGES &/OR ENGINEERS. | Viscount Service Station, 283 King St., Mascot. | 59725 | 1975 | Premise Match | 127m | South West |
| MOTOR GARAGES & ENGINEERS(M6S6) | Viscount Service Station, 283 King St. MASCOT | 338828 | 1970 | Premise Match | 127m | South West |
| Motor Garages & Engineers | Viscount Service Station, 283 King St. Mascot | 123021 | 1985 | Premise Match | 127m | South West |
| MOTOR SERVICE STATIONS- PETROL, Etc. | Quattleys Garage, Cnr. King St. and Old Botany Rd., Mascot | 86311 | 1950 | Road Intersection | 154m | South West |
| MOTOR GARAGES & ENGINEERS | Smalley, W. J. Pty. Ltd., 50 Macintosh St. MASCOT | 348145 | 1961 | Premise Match | 176m | East |
| MOTOR GARAGES &/OR ENGINEERS | Smalley, W. J., 50 Macintosh St., Mascot | 84380 | 1950 | Premise Match | 176m | East |
| MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. | Quartly's Service Station, 322 King St., Mascot. | 50702 | 1978 | Premise Match | 180m | South West |
| MOTOR GARAGES &/OR ENGINEERS. | Quartly's Service Station, 322 King St., Mascot. | 59427 | 1975 | Premise Match | 180m | South West |
| Motor Garages & Engineers | Quartly's Service Station, 322 King St. Mascot | 123014 | 1985 | Premise Match | 180m | South West |
| MOTOR GARAGES & ENGINEERS | Quartly's Service Station, 322 King St. Mascot | 347961 | 1961 | Premise Match | 180m | South West |
| MOTOR GARAGES & ENGINEERS(M6S6) | Quartly's Service Station, 322 King St. MASCOT | 338461 | 1970 | Premise Match | 213m | South West |
| MOTOR GARAGES & ENGINEERS(M6S6) | Geary, K. R. (Mascot) Pty. Ltd., 149 O'Riordan St. MASCOT | 337853 | 1970 | Premise Match | 216m | North |
| MOTOR GARAGES &/OR ENGINEERS. | Cook, W. H. & Son, 276a King St., Mascot. | 58692 | 1975 | Premise Match | 221m | South East |
| MOTOR GARAGES & ENGINEERS(M6S6) | ReX-Press, 295 King St. MASCOT, 2020 | 338507 | 1970 | Premise Match | 228m | West |
| Motor Service Stations - Petrol, Oil, Etc. | Golden Fleece Service Station, 131-133 O'Riordan St. Alexandria | 125357 | 1985 | Premise Match | 316m | North |
| MOTOR GARAGES & ENGINEERS | Golden Fleece Service Station, 131-133 O'Riordan St. City of Sydney | 347247 | 1961 | Premise Match | 316m | North |
| MOTOR SERVICE STATIONS—PETROL, OIL, Etc. | Golden Fleece Service Station, 131-133 O'Riordan St. MASCOT | 350613 | 1961 | Premise Match | 316m | North |
| MOTOR SERVICE STATIONS - PETROL, OIL | Airport Service Station, 239 O'Riordan St., Mascot. | 61362 | 1975 | Premise Match | 330m | South West |
| MOTOR SERVICE STATIONS—PETROL, OIL, Etc. | Airport Service Station, 239 O'Riordan St. MASCOT | 350295 | 1961 | Premise Match | 330m | South West |
| Motor Garages & Service Stations | Ampol Mascot Self Serve, 239 O'Riordan St. Mascot 2020 | 53481 | 1991 | Premise Match | 338m | South West |
| MOTOR GARAGES & SERVICE STATIONS. | Airport Service Station, 239 O'Riordan St., Mascot. | 63866 | 1985 | Premise Match | 338m | South West |

| Business Activity | Premise | Ref No. | Year | Location Confidence | Distance to Feature Point | Direction |
|--|---|---------|------|---------------------|---------------------------|------------|
| MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS (M6860) | Airport Service Station, 239 O'Riordan St., Mascot, 2020 | 55937 | 1992 | Premise Match | 338m | South West |
| MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. | Airport Service Station, 239 O'Riordan St., Mascot. | 49216 | 1978 | Premise Match | 338m | South West |
| Motor Garages & Engineers | Truck Sales & Service Pty. Ltd., 200 O'Riordan St. Mascot | 123019 | 1988 | Premise Match | 341m | South |
| MOTOR SERVICE STATIONS-PETROL,OIL,Etc. (M716) | Airport Service Station, 239 O'Riordan St. MASCOT | 340739 | 1970 | Premise Match | 371m | South West |
| Motor Service Stations - Petrol, Oil, Etc. | Airport Service Station, 239 O'Riordan St. Mascot | 129504 | 1988 | Premise Match | 371m | South West |
| MOTOR GARAGES & SERVICE STATIONS. | Caltex Mascot Service Station, 125 O'Riordan St., Mascot. | 64360 | 1988 | Premise Match | 382m | North East |
| MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS (M6860) | Golden Fleece Mascot Service Station, 125 O'Riordan St Mascot2020 | 56851 | 1981 | Premise Match | 382m | North East |
| MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. | Golden Fleece Service Station, 125 O'Riordan St., Mascot. | 50173 | 1978 | Premise Match | 382m | North East |
| MOTOR GARAGES & ENGINEERS(M686) | Robey Auto Repairs & Towing Service, 64 Robey St. MASCOT | 338523 | 1970 | Premise Match | 427m | South |
| Motor Garages & Engineers | Hambly, W., 127 Baxter Rd. Mascot | 123006 | 1985 | Premise Match | 446m | South |
| Motor Garages & Engineers | Haynes, L. G., 127 Baxter Rd. Mascot | 123007 | 1985 | Premise Match | 446m | South |
| MOTOR GARAGES & ENGINEERS | Haynes, L. G., 127 Baxter Rd. MASCOT | 347348 | 1961 | Premise Match | 446m | South |
| MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS (M6860) | Smith, S. H., 844 Botany Rd. Mascot, 2020 | 57580 | 1981 | Premise Match | 456m | East |
| MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. | Smith, S. H., 844 Botany Rd., Mascot. | 50846 | 1978 | Premise Match | 456m | East |
| MOTOR GARAGES &/OR ENGINEERS. | Smith, S. H., 844 Botany Rd. Mascot. | 59545 | 1975 | Premise Match | 456m | East |
| MOTOR GARAGES & ENGINEERS(M686) | Smith,S. H., 844 Botany Rd.MASCOT | 338617 | 1970 | Premise Match | 456m | East |
| Motor Garages & Engineers | Smith, S. H., 844 Botany Rd. Mascot | 123017 | 1985 | Premise Match | 456m | East |
| MOTOR GARAGES & ENGINEERS | Smith, S. H., 844 Botany Rd. MASCOT | 348153 | 1961 | Premise Match | 456m | East |
| MOTOR GARAGES &/OR ENGINEERS | Smith, S. H., 844 Botany Rd. Mascot | 84385 | 1950 | Premise Match | 456m | East |
| MOTOR SERVICE STATIONS-PETROL, Etc. | Smith, S. H., 844 Botany Rd., Mascot | 86400 | 1950 | Premise Match | 456m | East |
| MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS | Right-Way Motor Repairs, 124 O'Riordan St. Mascot. | 50742 | 1978 | Premise Match | 493m | North East |

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

Historical Business Directories

146-154 O'Riordan Street, Mascot, NSW 2020

Dry Cleaners, Motor Garages & Service Stations Road or Area Matches

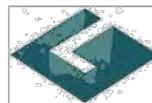
Dry Cleaners, Motor Garages & Service Stations from UBD Business Directories, mapped to a road or an area, within the dataset buffer. Records are mapped to the road when a building number is not supplied, cannot be found, or the road has been renumbered since the directory was published:

| Business Activity | Premise | Ref No. | Year | Location Confidence | Distance to Road Corridor or Area |
|---|--|---------|------|---------------------|-----------------------------------|
| MOTOR GARAGES & ENGINEERS | Clayton Manufacturing Pty. Ltd., O'Riordan St. MASCOT | 346898 | 1961 | Road Match | 0m |
| MOTOR SERVICE STATIONS—PETROL, OIL, Etc. | Lewis, A. H. Pty. Ltd., O'Riordan St. MASCOT | 350787 | 1961 | Road Match | 0m |
| MOTOR GARAGES &/OR ENGINEERS | Stiff, C. J., 48 Old Botany Rd., Mascot | 84432 | 1950 | Road Match | 0m |
| MOTOR SERVICE STATIONS- PETROL, OIL, Etc. (M718) | King Street Auto Port, King St. MASCOT | 341250 | 1970 | Road Match | 140m |
| MOTOR GARAGES & SERVICE STATIONS. | Kings Street Auto Port, King St., Mascot. | 64949 | 1980 | Road Match | 140m |
| MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS | Kings Street Auto Port, King St., Mascot. | 50334 | 1978 | Road Match | 140m |
| MOTOR SERVICE STATIONS - PETROL, OIL | Kings Street Auto Port, King St., Mascot. 2020 | 61836 | 1975 | Road Match | 140m |
| MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. (M6860) | Kings Street Auto Port, King St., Mascot. 2020. | 57051 | 1982 | Road Match | 140m |
| MOTOR GARAGES & SERVICE STATIONS. | Sweetings Service Station, King St., Mascot. | 65543 | 1986 | Road Match | 140m |
| MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. | Sweetings Service Station, King St., Mascot. | 50915 | 1978 | Road Match | 140m |
| MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. (M6860) | Sweetings Service Station, King St., Mascot. 2020. | 57664 | 1982 | Road Match | 140m |
| MOTOR GARAGES & ENGINEERS | May & Blake Chalmers Cres. MASCOT | 347663 | 1961 | Road Match | 262m |
| MOTOR GARAGES & ENGINEERS(M686) | May & Blake Pty. Ltd., Chalmers Cres. MASCOT | 338225 | 1970 | Road Match | 262m |
| Motor Garages & Engineers | May & Blake, Chalmers Cres. Mascot | 123011 | 1960 | Road Match | 262m |
| MOTOR GARAGES & ENGINEERS | May & Blake, Chalmers Cres. MASCOT | 347664 | 1961 | Road Match | 262m |
| MOTOR SERVICE STATIONS- PETROL, OIL | Golden Fleece Service Station, 131 O'Riordan St. Mascot. | 61799 | 1975 | Road Match | 341m |
| MOTOR SERVICE STATIONS- PETROL, OIL, Etc. (M718) | Golden Fleece Service Station, 131 O'Riordan St. Mascot | 341150 | 1970 | Road Match | 341m |
| Motor Service Stations - Petrol, Oil, Etc. | Lyrdon, Peter & David, 243 O'Riordan St. Mascot | 125909 | 1965 | Road Match | 463m |
| MOTOR GARAGES & ENGINEERS | Coggins, W. T. Pty. Ltd., 210 Kent Rd. MASCOT | 346911 | 1961 | Road Match | 471m |
| MOTOR SERVICE STATIONS—PETROL, OIL, Etc. | Coggins, W. T. Pty. Ltd., 210 Kent Rd. MASCOT | 350481 | 1961 | Road Match | 471m |
| MOTOR GARAGES &/OR ENGINEERS | Mascot Service Station, Botany Rd., Mascot | 83385 | 1950 | Road Match | 475m |
| MOTOR SERVICE STATIONS- PETROL, Etc. | Mascot Super Service Garage, Botany Rd., Mascot. | 85753 | 1950 | Road Match | 475m |

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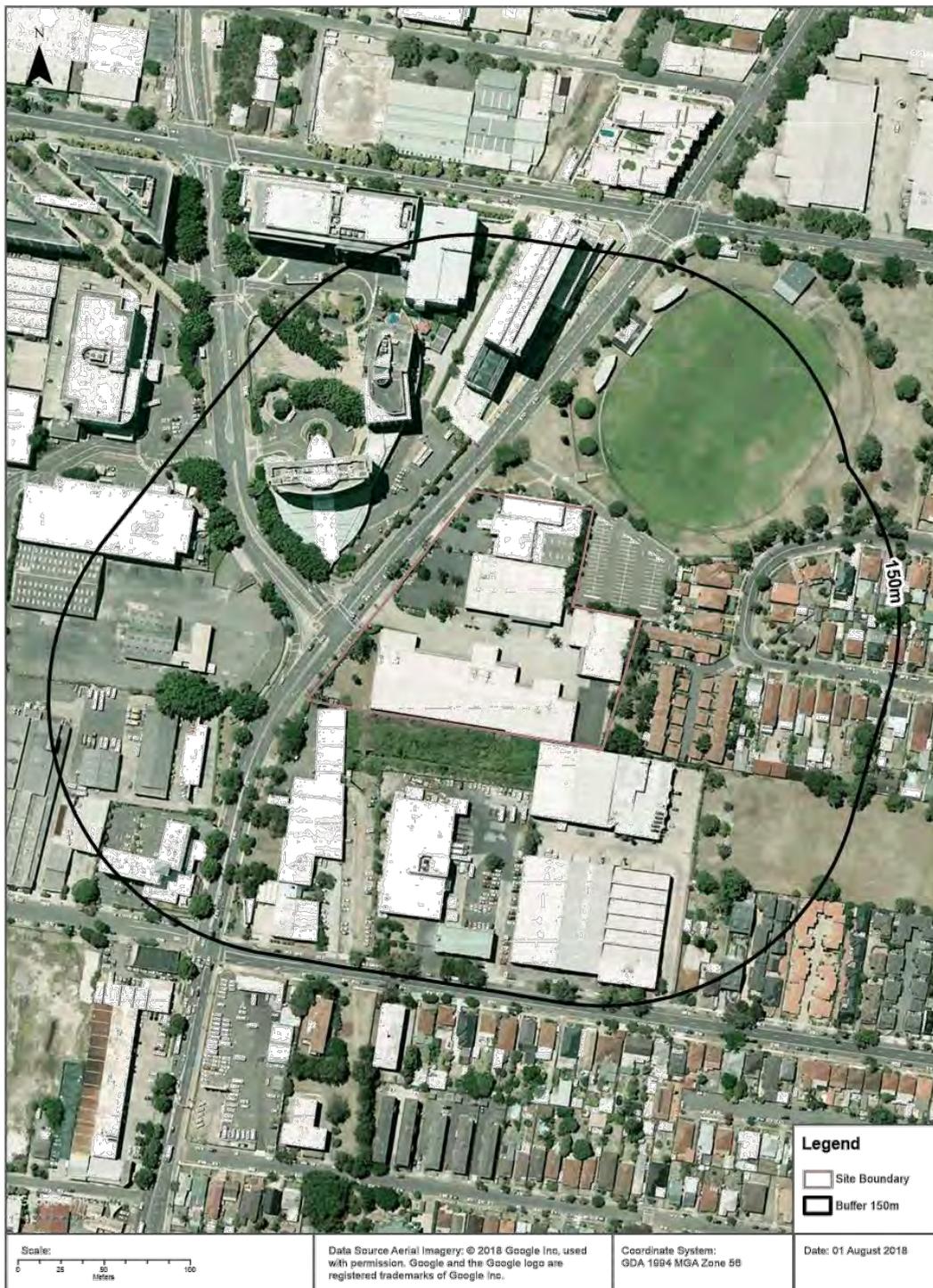
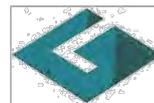
Aerial Imagery 2015

146-154 O’Riordan Street, Mascot, NSW 2020



Aerial Imagery 2009

146-154 O'Riordan Street, Mascot, NSW 2020



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Aerial Imagery 2000

146-154 O’Riordan Street, Mascot, NSW 2020



Aerial Imagery 1991

146-154 O'Riordan Street, Mascot, NSW 2020



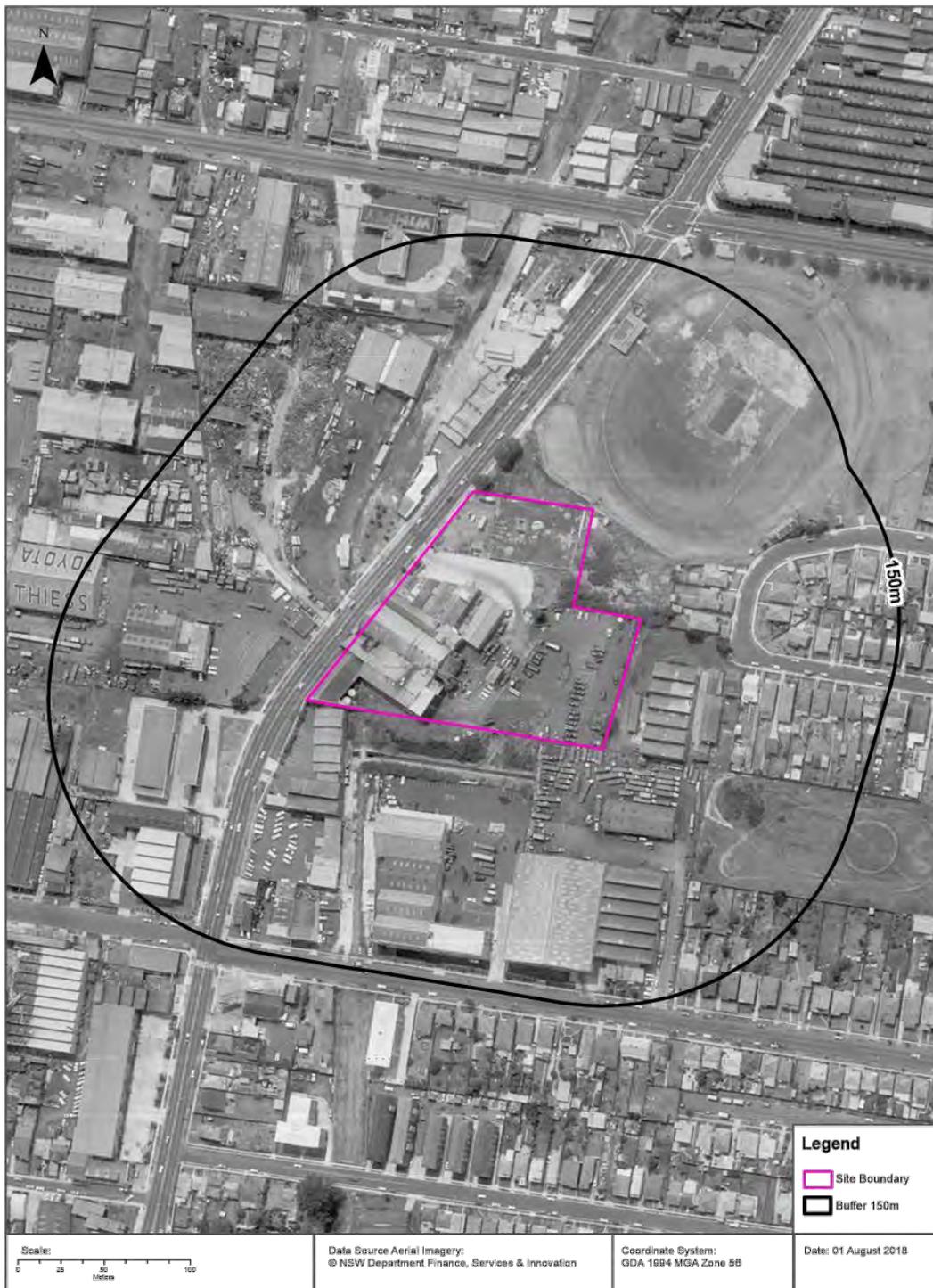
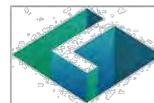
Aerial Imagery 1982

146-154 O'Riordan Street, Mascot, NSW 2020



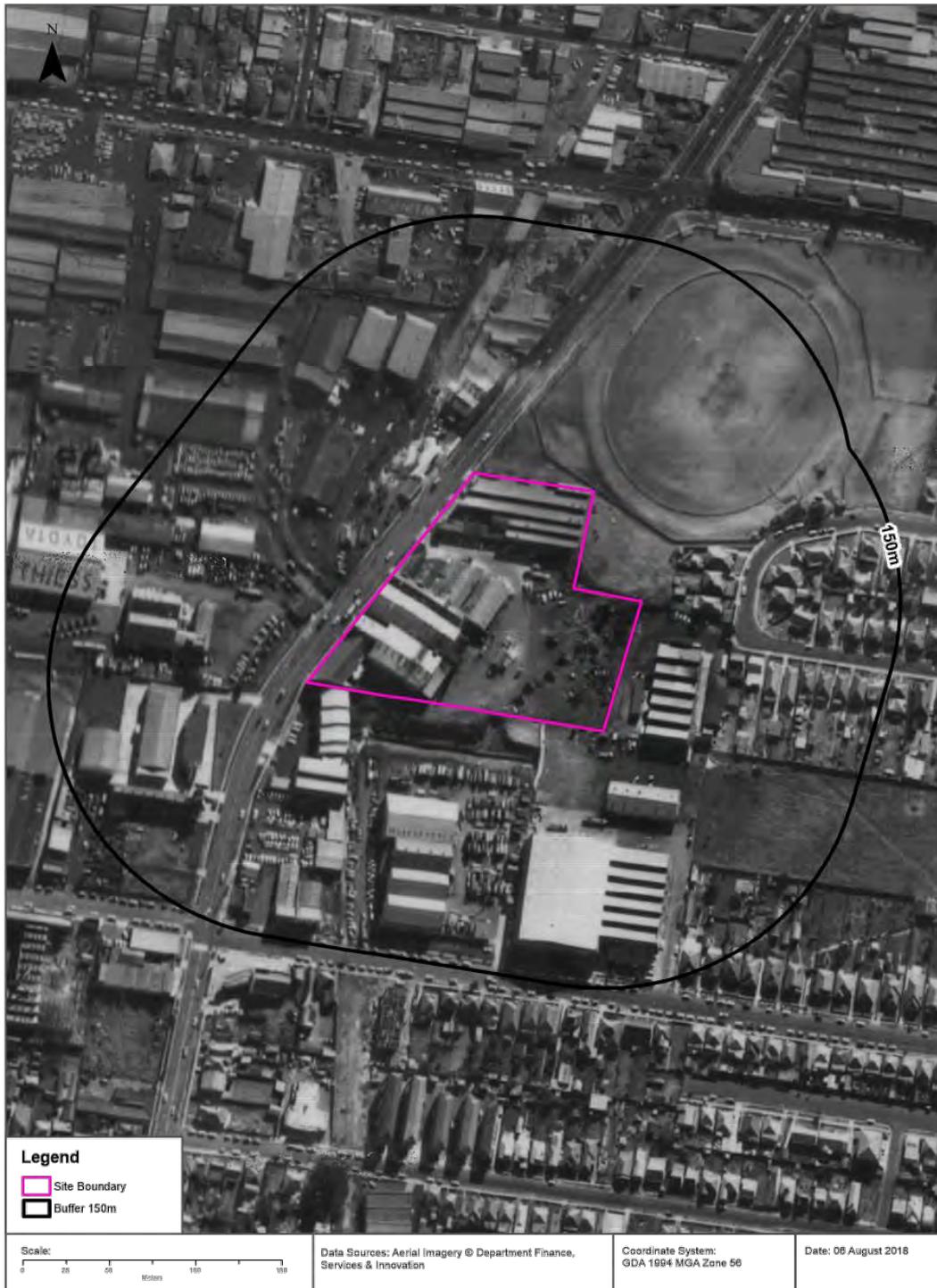
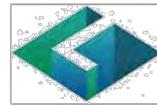
Aerial Imagery 1976

146-154 O’Riordan Street, Mascot, NSW 2020



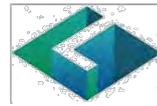
Aerial Imagery 1970

146-154 O'Riordan Street, Mascot, NSW 2020



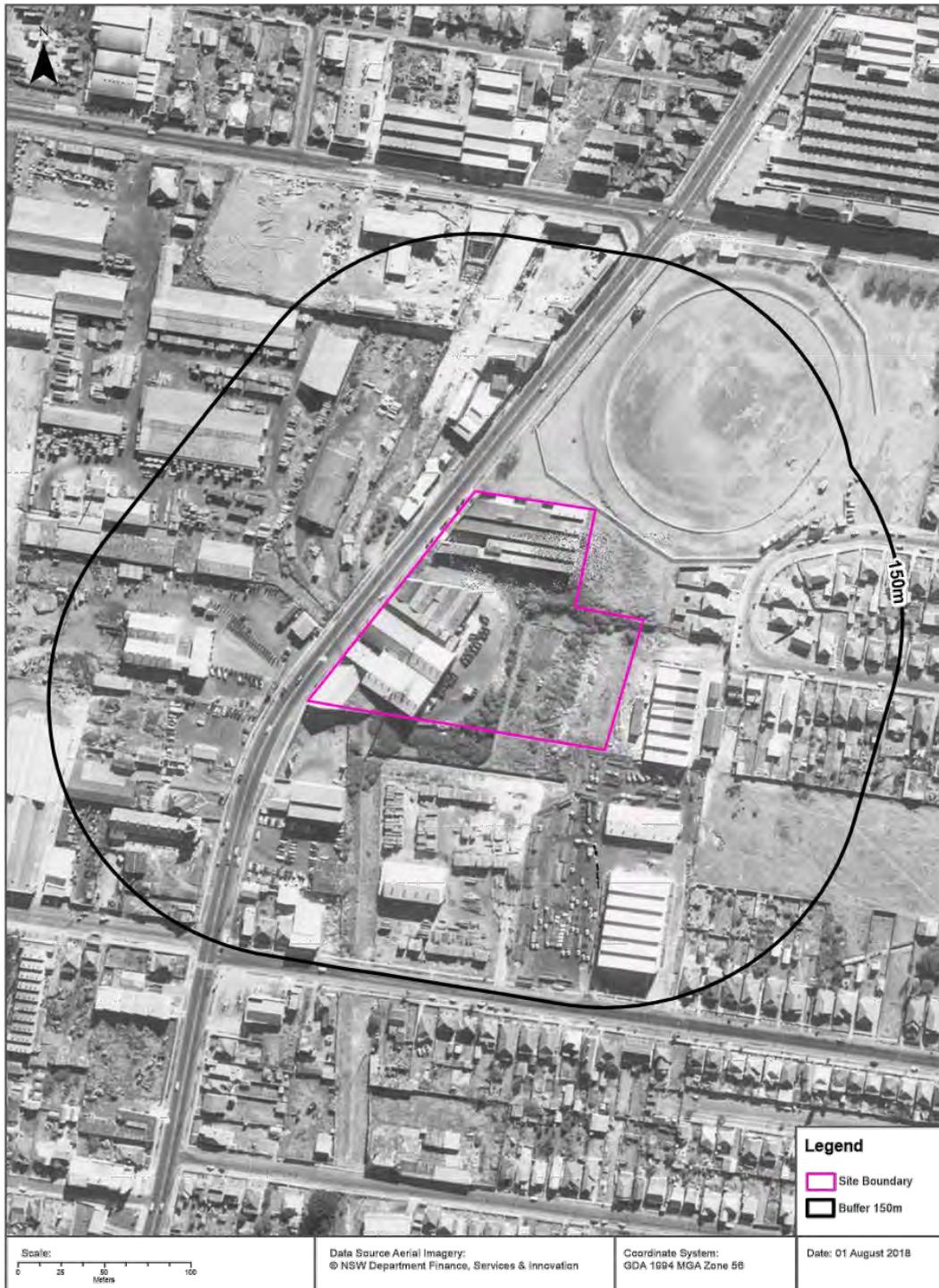
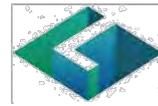
Aerial Imagery 1965

146-154 O’Riordan Street, Mascot, NSW 2020



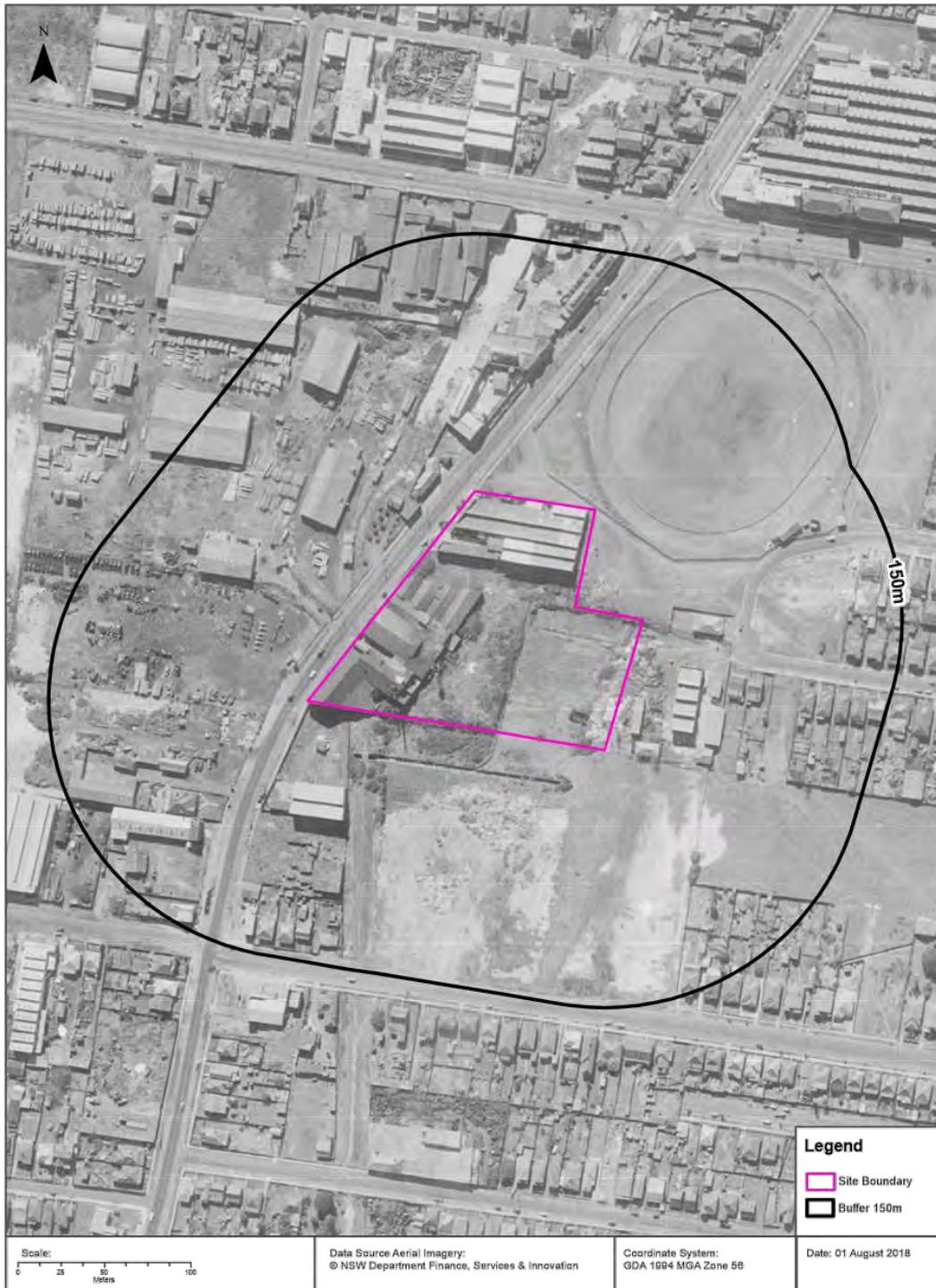
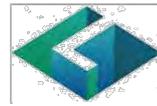
Aerial Imagery 1961

146-154 O’Riordan Street, Mascot, NSW 2020



Aerial Imagery 1955

146-154 O’Riordan Street, Mascot, NSW 2020

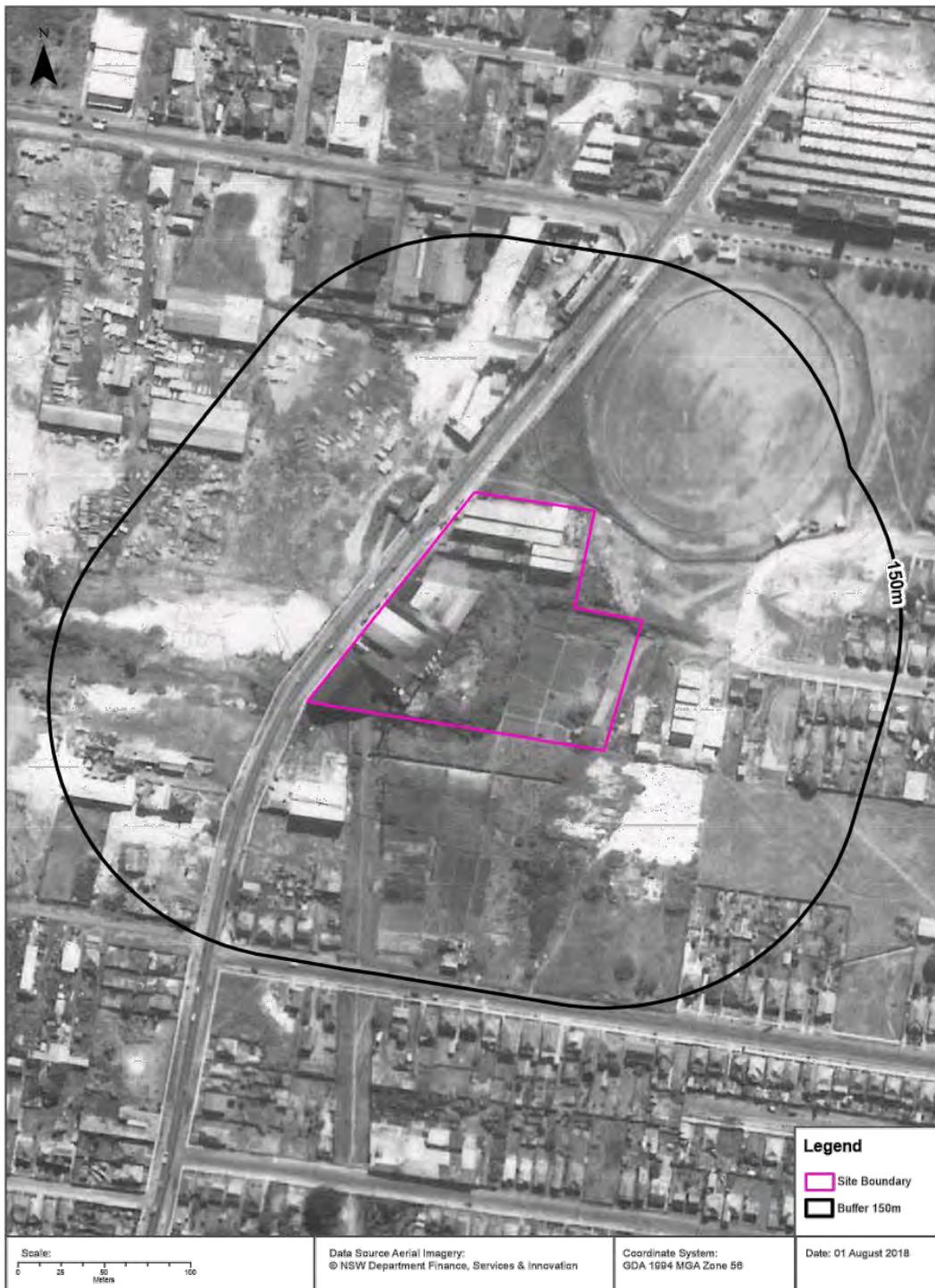
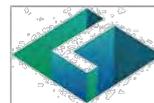


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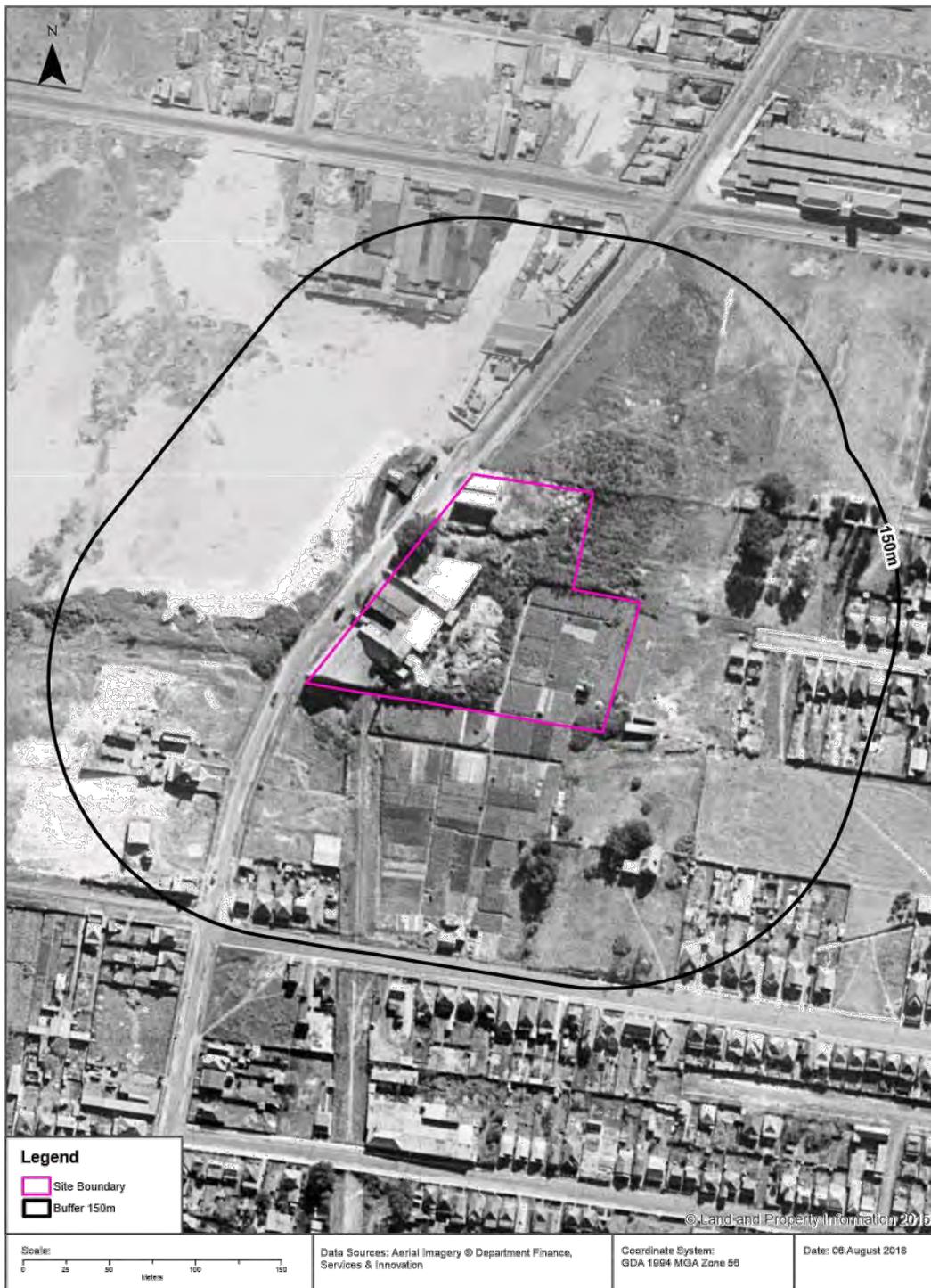
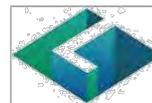
Aerial Imagery 1951

146-154 O’Riordan Street, Mascot, NSW 2020



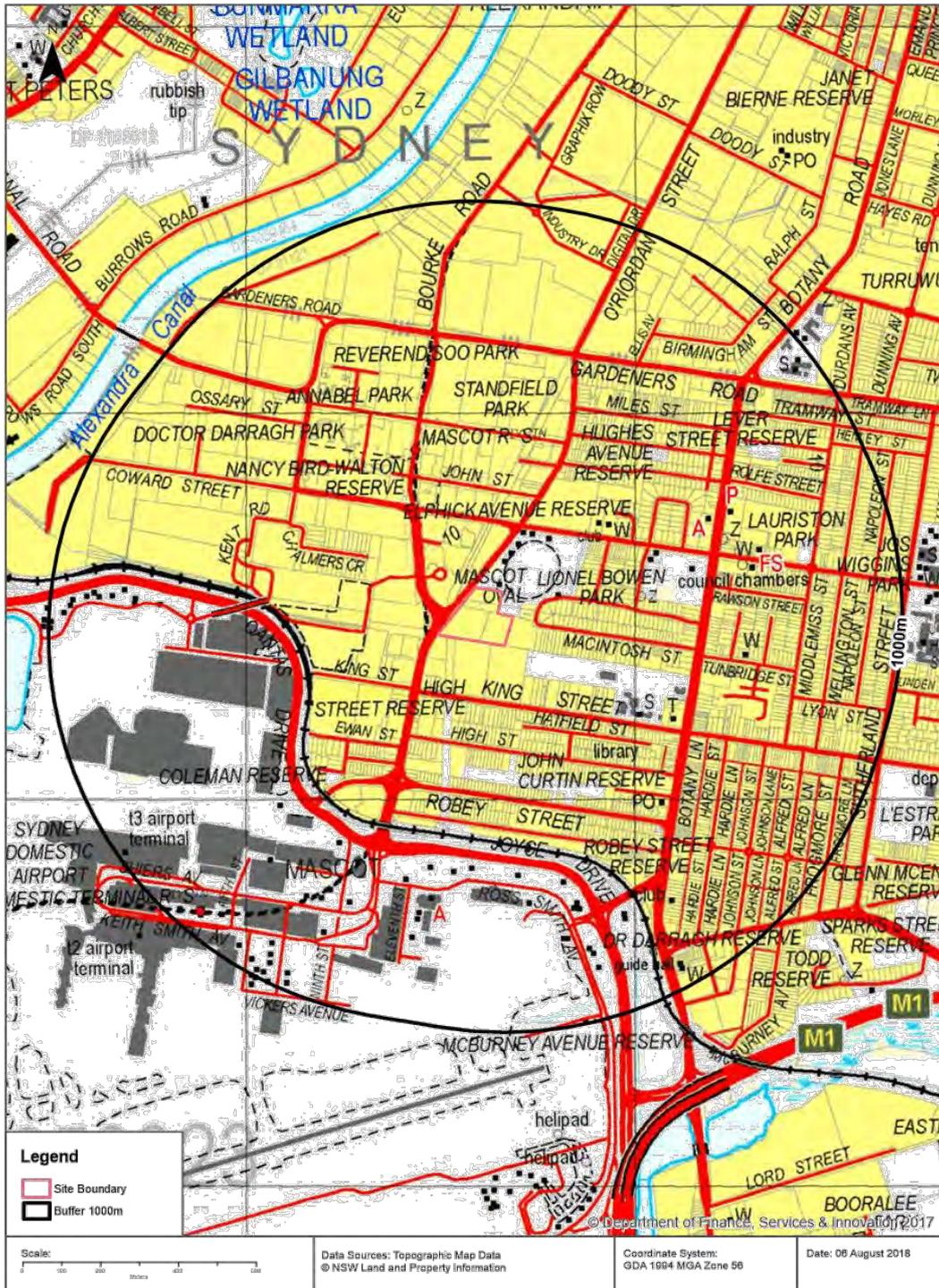
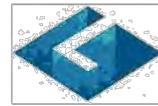
Aerial Imagery 1943

146-154 O'Riordan Street, Mascot, NSW 2020



Topographic Map 2015

146-154 O'Riordan Street, Mascot, NSW 2020

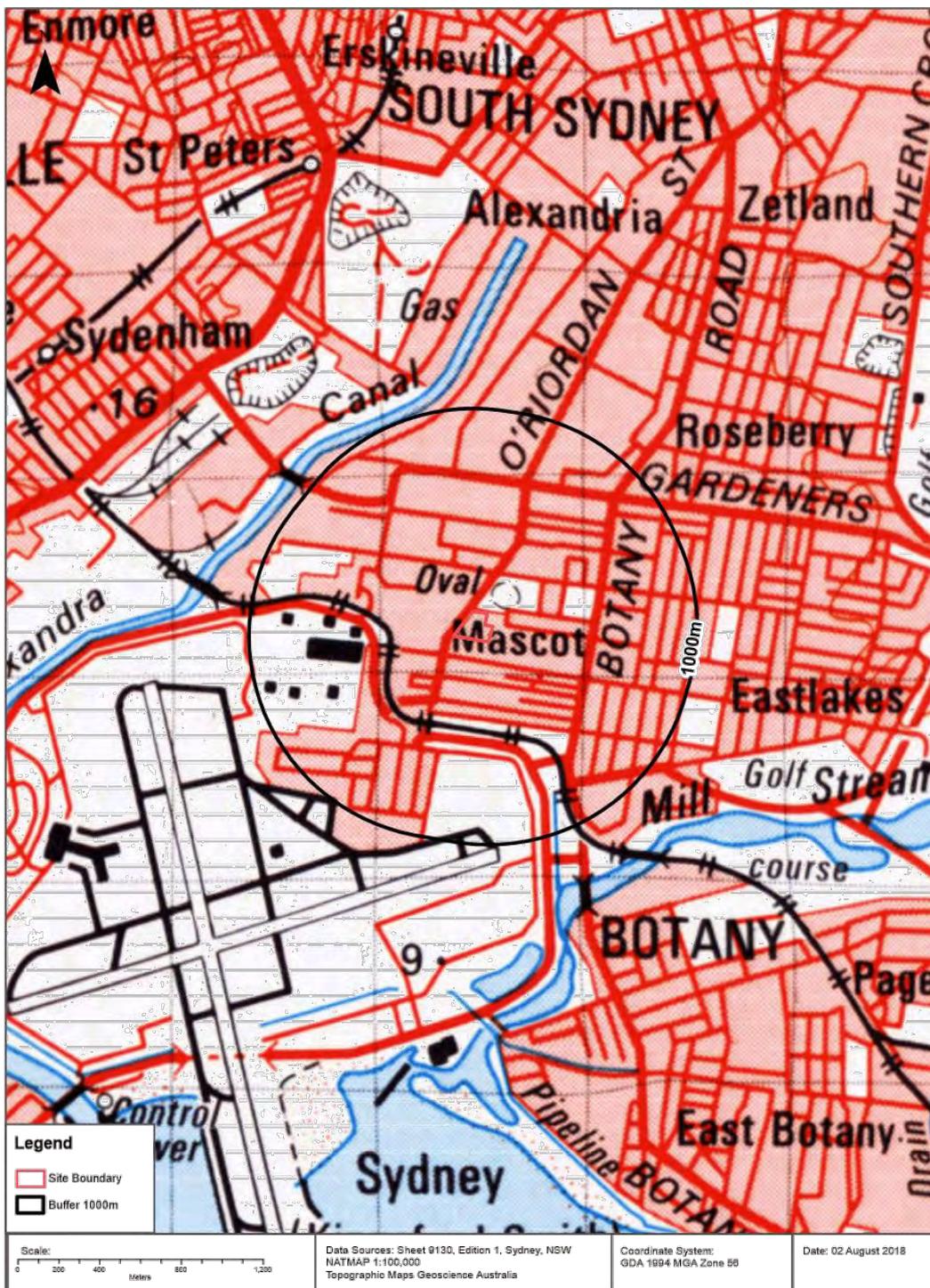


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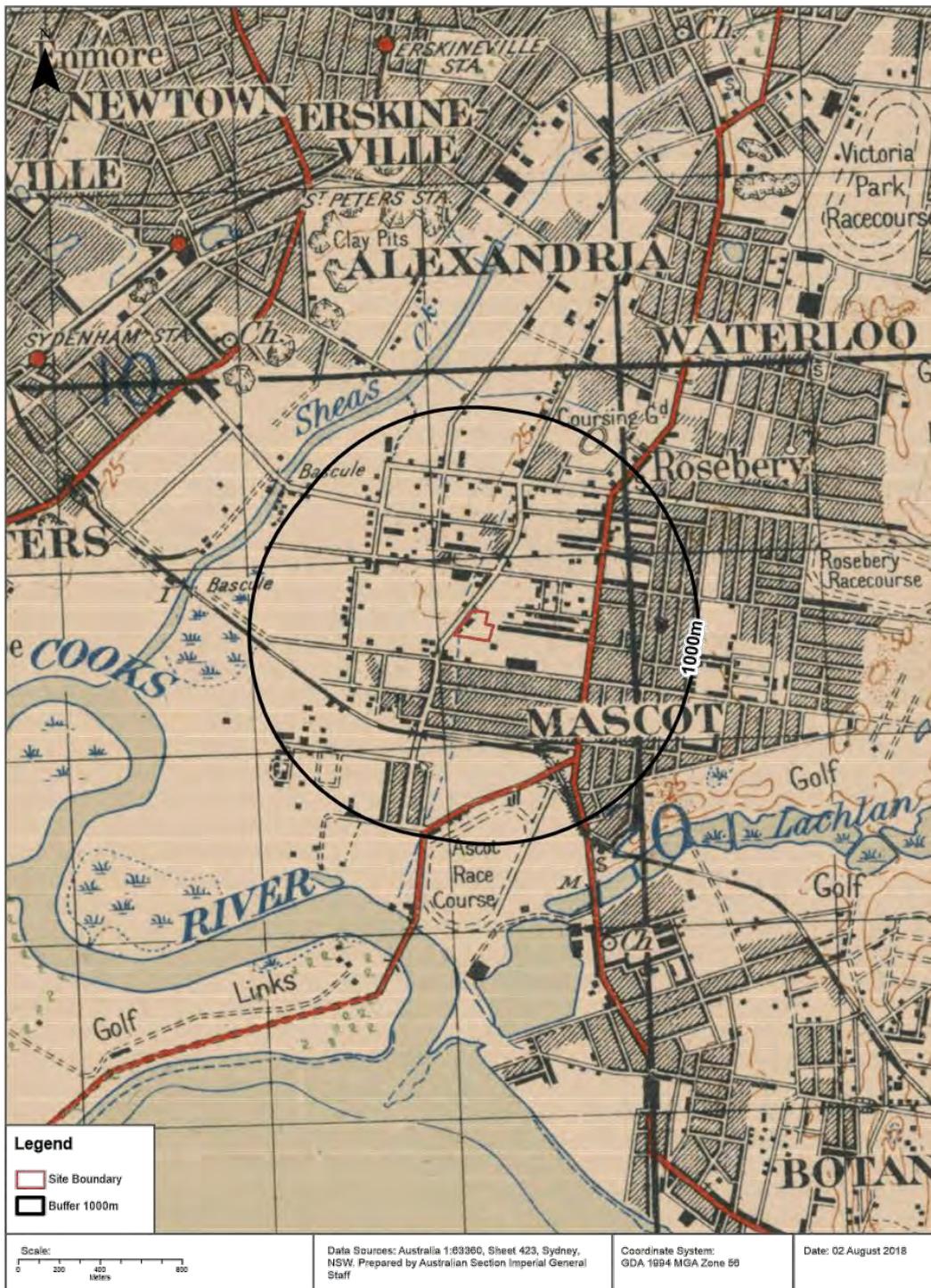
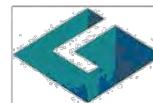
Historical Map 1975

146-154 O’Riordan Street, Mascot, NSW 2020



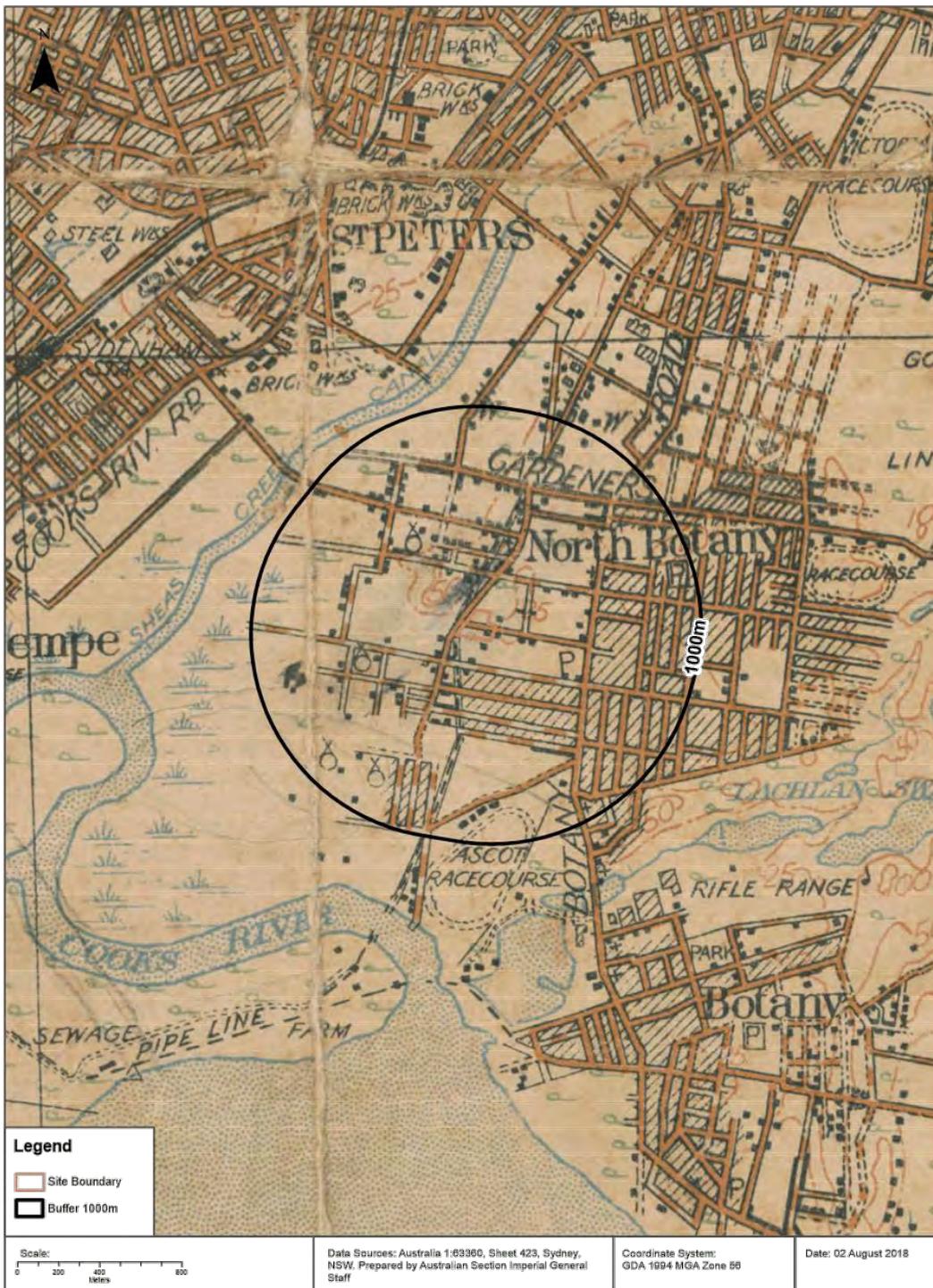
Historical Map 1936

146-154 O'Riordan Street, Mascot, NSW 2020



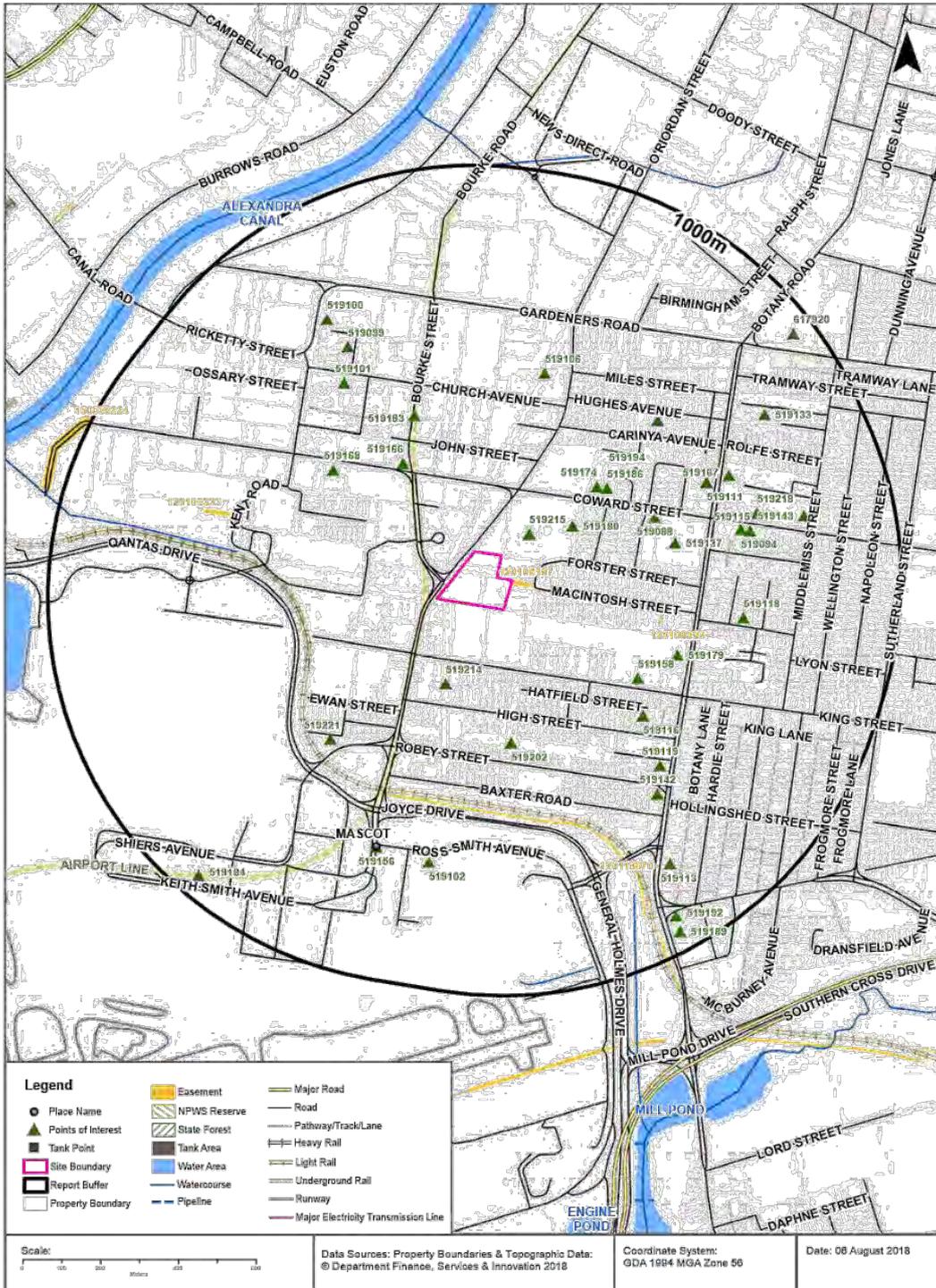
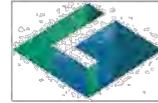
Historical Map 1917

146-154 O’Riordan Street, Mascot, NSW 2020



Topographic Features

146-154 O'Riordan Street, Mascot, NSW 2020



Topographic Features

146-154 O'Riordan Street, Mascot, NSW 2020

Points of Interest

What Points of Interest exist within the dataset buffer?

| Map Id | Feature Type | Label | Distance | Direction |
|--------|---------------------------|---------------------------------------|----------|------------|
| 519215 | Sports Field | MASCOT OVAL | 92m | North East |
| 519180 | Park | LIONEL BOWEN PARK | 199m | North East |
| 519214 | Park | HIGH STREET RESERVE | 214m | South |
| 519166 | Park | NANCY BIRD-WALTON RESERVE | 291m | North West |
| 519174 | Club | GRAPHIC ARTS CLUB MASCOT | 305m | North East |
| 519186 | Place Of Worship | GREEK ORTHODOX CHURCH OF ST CATHERINE | 324m | North East |
| 519202 | Park | JOHN CURTIN RESERVE | 345m | South |
| 519183 | Railway Station | MASCOT RAILWAY STATION | 384m | North |
| 519158 | Primary School | MASCOT PUBLIC SCHOOL | 390m | South East |
| 519088 | Community Facility | MASCOT SENIOR CITIZENS CENTRE | 403m | East |
| 519194 | Park | ELPHICK AVENUE RESERVE | 409m | North East |
| 519168 | Embassy | CONSULATE OF THE REPUBLIC MOZAMBIQUE | 413m | North West |
| 519137 | Park | MASCOT MEMORIAL PARK | 432m | East |
| 519116 | Library | MASCOT LIBRARY | 453m | South East |
| 519221 | Park | COLEMAN RESERVE | 454m | South West |
| 519179 | Preschool | MASCOT PUBLIC SCHOOL PRESCHOOL | 463m | East |
| 519106 | Park | STANDFIELD PARK | 485m | North |
| 519130 | Park | HUGHES AVENUE RESERVE | 534m | North East |
| 519101 | Park | DOCTOR DARRAGH PARK | 548m | North West |
| 519111 | Ambulance Station | MASCOT AMBULANCE STATION | 562m | North East |
| 519119 | Post Office | MASCOT POST OFFICE | 571m | South East |
| 519094 | Local Government Chambers | THE COUNCIL OF THE CITY OF BOTANY BAY | 604m | East |
| 519118 | Place Of Worship | ORTHODOX CHURCH | 605m | East |
| 519099 | Park | ANNABEL PARK | 620m | North West |
| 519167 | Police Station | MASCOT POLICE STATION | 621m | North East |
| 519142 | Park | ROBEY STREET RESERVE | 622m | South East |
| 519115 | Fire Station | MASCOT FIRE STATION | 628m | East |
| 519218 | Place Of Worship | ROSEBERY UNITING CHURCH | 654m | East |
| 519156 | Suburb | MASCOT | 660m | South |
| 519102 | Ambulance Station | MASCOT AIR AMBULANCE STATION | 676m | South |

| Map Id | Feature Type | Label | Distance | Direction |
|--------|------------------|-----------------------------------|----------|------------|
| 519100 | Park | REVEREND SOO PARK | 709m | North West |
| 519143 | Park | LAURISTON PARK | 770m | East |
| 519133 | Park | LEVER STREET RESERVE | 770m | North East |
| 519113 | Club | MASCOT RSL CLUB | 785m | South East |
| 519192 | Park | DR DARRAGH RESERVE | 909m | South East |
| 519184 | Railway Station | DOMESTIC TERMINAL RAILWAY STATION | 941m | South West |
| 617920 | Primary School | GARDENERS ROAD PUBLIC SCHOOL | 946m | North East |
| 519189 | Place Of Worship | BECKENHAM MEMORIAL CHURCH | 950m | South East |

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Topographic Features

146-154 O'Riordan Street, Mascot, NSW 2020

Tanks (Areas)

What are the Tank Areas located within the dataset buffer?

Note. The large majority of tank features provided by LPI are derived from aerial imagery & are therefore primarily above ground tanks.

| Map Id | Tank Type | Status | Name | Feature Currency | Distance | Direction |
|--------|----------------------|--------|------|------------------|----------|-----------|
| | No records in buffer | | | | | |

Tanks (Points)

What are the Tank Points located within the dataset buffer?

Note. The large majority of tank features provided by LPI are derived from aerial imagery & are therefore primarily above ground tanks.

| Map Id | Tank Type | Status | Name | Feature Currency | Distance | Direction |
|--------|----------------------|--------|------|------------------|----------|-----------|
| | No records in buffer | | | | | |

Tanks Data Source: © Land and Property Information (2015)

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Major Easements

What Major Easements exist within the dataset buffer?

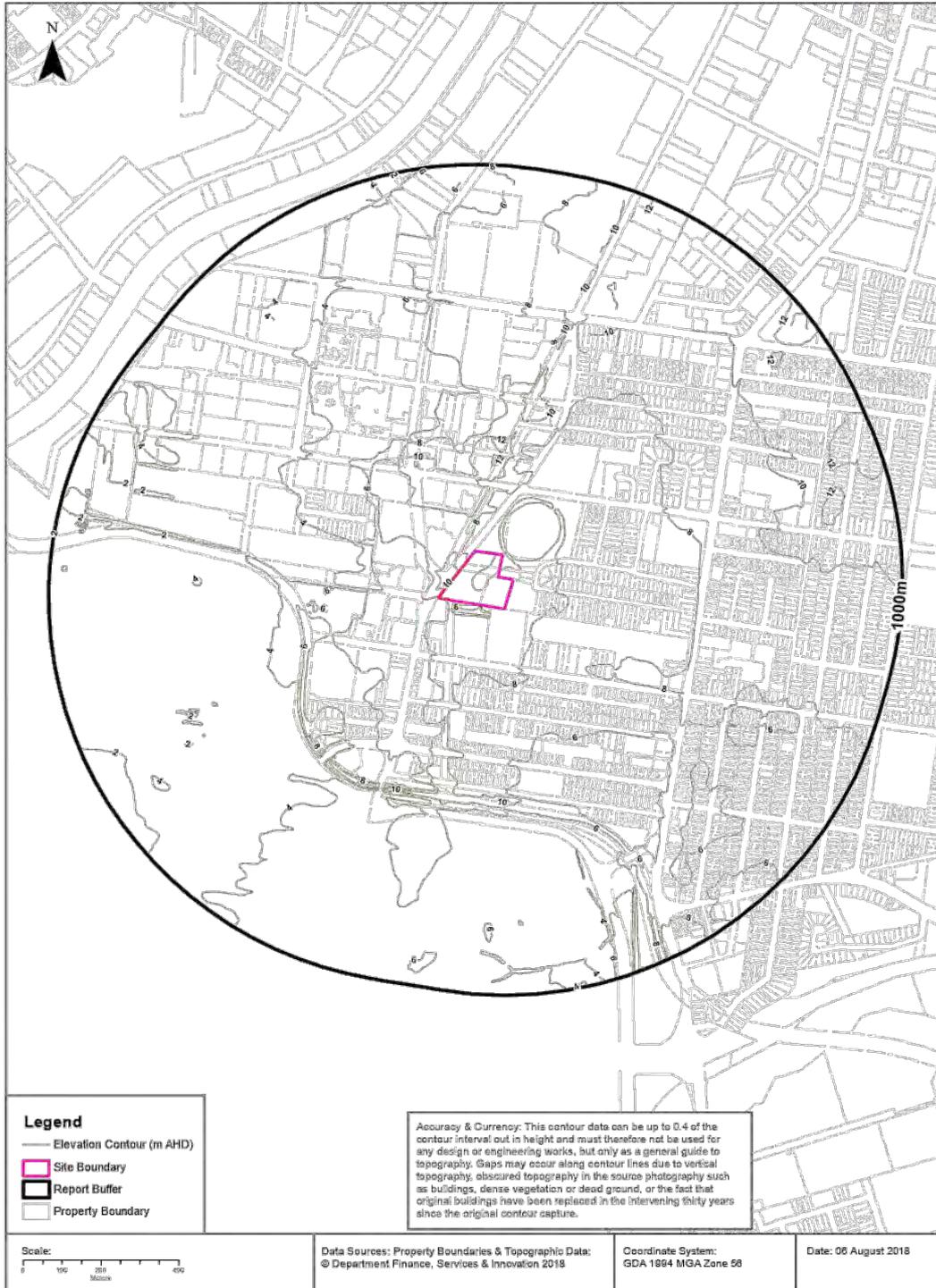
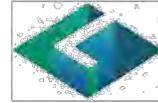
Note. Easements provided by LPI are not at the detail of local governments. They are limited to major easements such as Right of Carriageway, Electrical Lines (66kVa etc.), Easement to drain water & Significant subterranean pipelines (gas, water etc.).

| Map Id | Easement Class | Easement Type | Easement Width | Distance | Direction |
|-----------|----------------|---------------|----------------|----------|-----------|
| 120108187 | Primary | Undefined | | 0m | East |
| 120108383 | Primary | Undefined | | 394m | East |
| 120119970 | Primary | Undefined | | 520m | South |
| 120108333 | Primary | Undefined | | 536m | West |
| 150038224 | Primary | Right of way | | 997m | West |

Easements Data Source: © Land and Property Information (2015)

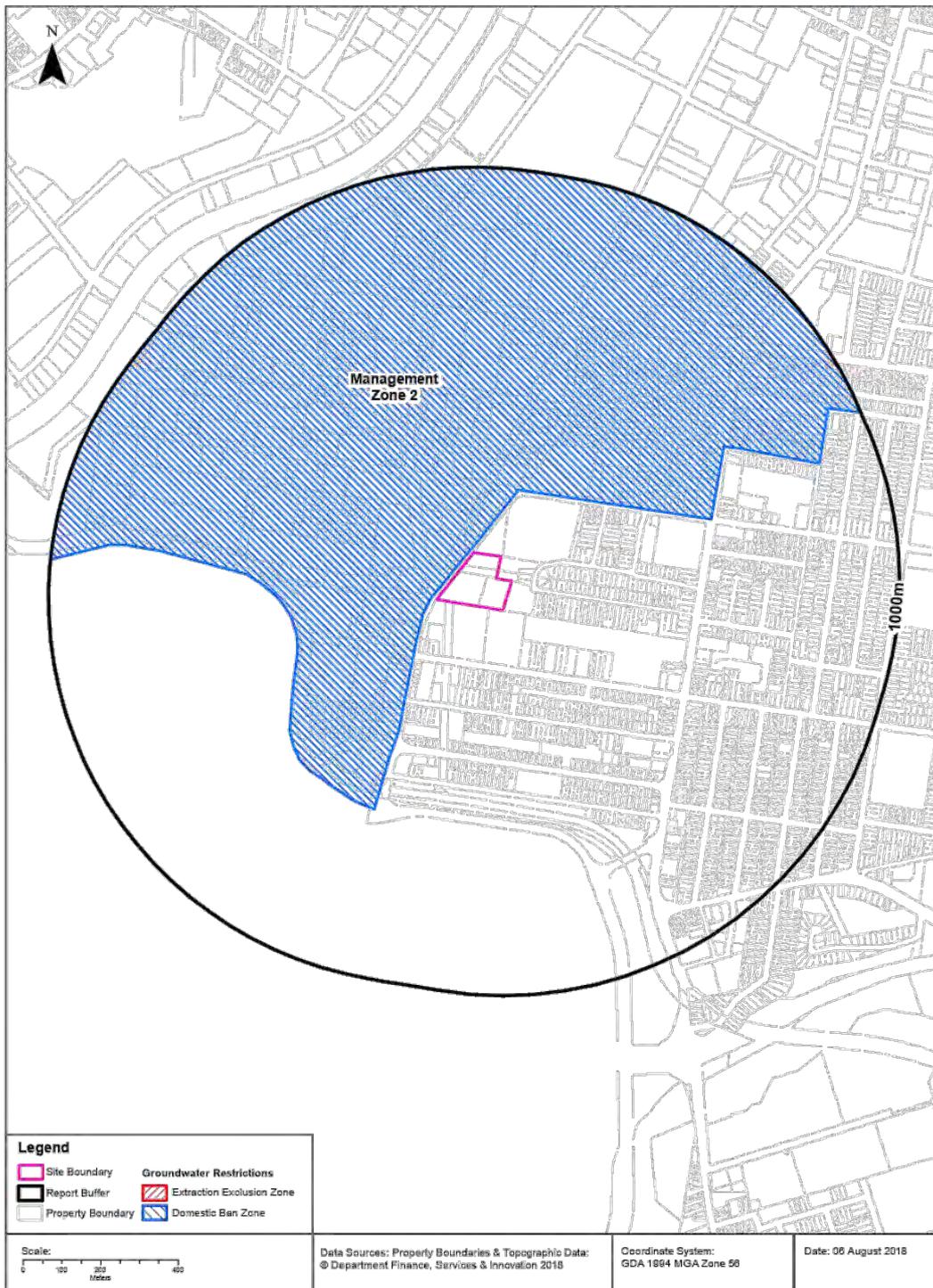
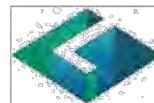
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Elevation Contours (m AHD)
 146-154 O'Riordan Street, Mascot, NSW 2020



Botany Groundwater Management Zones

146-154 O'Riordan Street, Mascot, NSW 2020



Topographic Features

146-154 O'Riordan Street, Mascot, NSW 2020

State Forest

What State Forest exist within the dataset buffer?

| State Forest Number | State Forest Name | Distance | Direction |
|---------------------|----------------------|----------|-----------|
| N/A | No records in buffer | | |

State Forest Data Source: © Land and Property Information (2015)

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National Parks and Wildlife Service Reserves

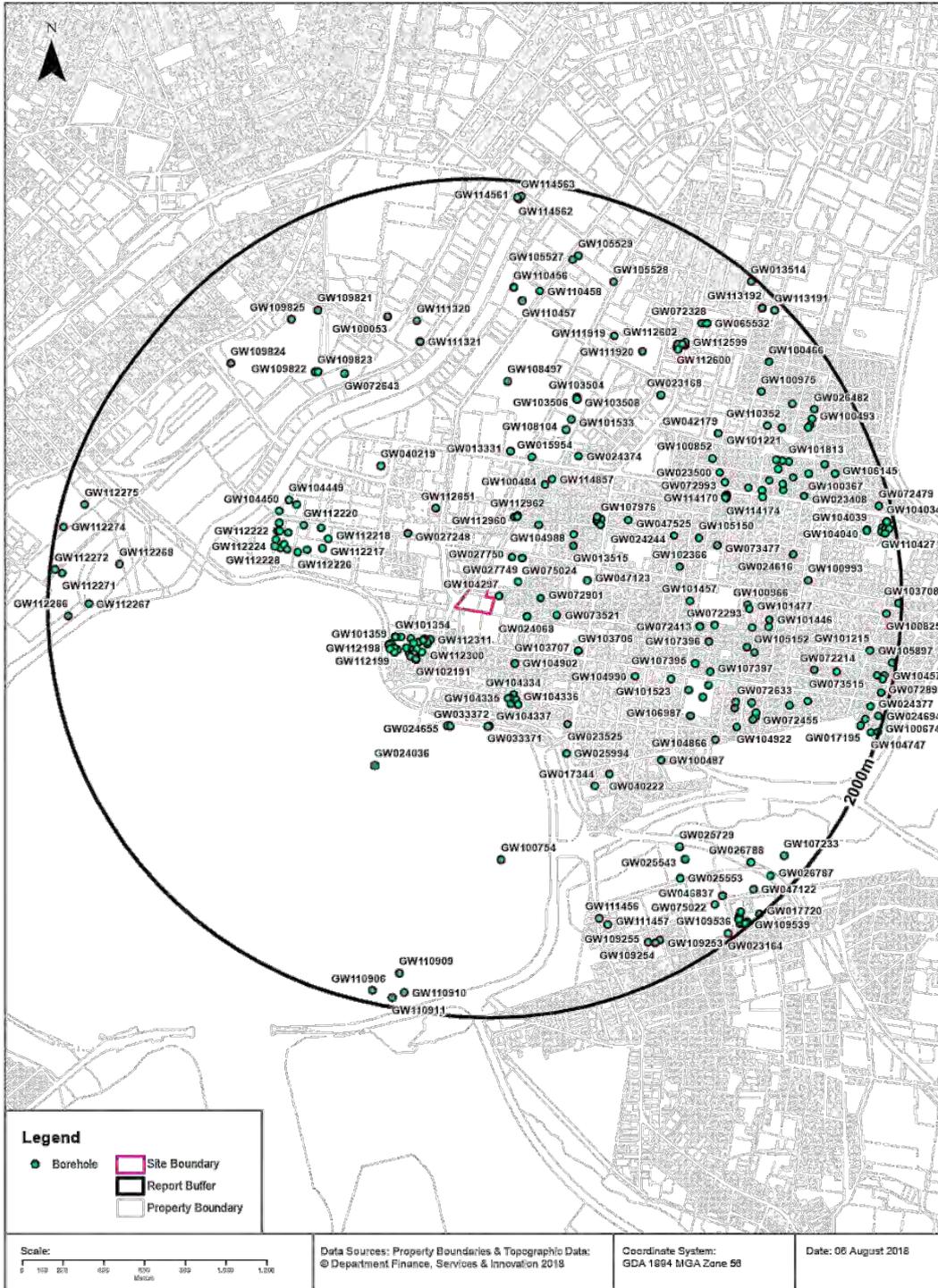
What NPWS Reserves exist within the dataset buffer?

| Reserve Number | Reserve Type | Reserve Name | Gazotted Date | Distance | Direction |
|----------------|----------------------|--------------|---------------|----------|-----------|
| N/A | No records in buffer | | | | |

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Groundwater Boreholes
146-154 O'Riordan Street, Mascot, NSW 2020



Hydrogeology & Groundwater

146-154 O’Riordan Street, Mascot, NSW 2020

Hydrogeology

Description of aquifers on-site:

| Description |
|--|
| Porous, extensive highly productive aquifers |

Description of aquifers within the dataset buffer:

| Description |
|--|
| Porous, extensive highly productive aquifers |

Hydrogeology Map of Australia : Commonwealth of Australia (Geoscience Australia)
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Botany Groundwater Management Zones

Groundwater management zones relating to the Botany Sand Beds aquifer within the dataset buffer:

| Management Zone No. | Restriction | Distance | Direction |
|---------------------|--------------|----------|-----------|
| 2 | Domestic ban | 11m | North |

Botany Groundwater Management Zones Data Source : NSW Department of Primary Industries

Hydrogeology & Groundwater

146-154 O'Riordan Street, Mascot, NSW 2020

Groundwater Boreholes

Boreholes within the dataset buffer:

| GW No. | License No | Work Type | Owner Type | Authorised Purpose | Intended Purpose | Name | Complete Date | Final Depth (m) | Drilled Depth (m) | Salinity (mg/L) | SWI (m) | Yield (L/s) | Elev (AHD) | Dist | Dir |
|-----------|--------------------------|-----------|---------------------|--------------------------|--------------------------|---------------------------------|---------------|-----------------|-------------------|-----------------|---------|-------------|------------|------|------------|
| GW104 297 | 10BL156 208, 10WA11 3023 | Bore | Private | Domestic | Domestic | | 20/12/1994 | | 42.00 | | 4.00 | 0.400 | | 24m | East |
| GW027 749 | 10BL021 267 | Bore | Local Govt | Irrigation | Recreation (groundwater) | | 01/12/1965 | 16.40 | 16.50 | | | | | 141m | North East |
| GW024 068 | 10BL017 315, 10WA11 2890 | Spear | Private | Domestic | Domestic | | 01/05/1966 | 4.20 | 4.30 | | | | | 180m | East |
| GW027 750 | 10BL021 265, 10WA11 4789 | Bore | Local Govt | Recreation (groundwater) | Recreation (groundwater) | | 01/12/1965 | 17.30 | 17.40 | | | | | 180m | North East |
| GW112 310 | 10BL160 586 | Bore | Private | Monitoring Bore | Monitoring Bore | | 23/01/2002 | 6.00 | 6.00 | | | | | 198m | South West |
| GW112 311 | 10BL160 586 | Bore | Private | Monitoring Bore | Monitoring Bore | | 24/01/2002 | 4.00 | 4.00 | | | | | 200m | South West |
| GW075 024 | | Bore | NSW Office of Water | | Monitoring Bore | BOTANY BOREFIELD AT MASCOT OVAL | 16/07/1998 | 19.50 | 20.50 | | 0.76 | | 8.48 | 211m | North East |
| GW112 298 | 10BL160 586 | Bore | Private | Monitoring Bore | Monitoring Bore | | 21/01/2002 | 4.00 | 4.00 | | | | | 216m | South West |
| GW112 309 | 10BL160 586 | Bore | Private | Monitoring Bore | Monitoring Bore | | 22/01/2002 | 4.00 | 4.00 | | | | | 216m | South West |
| GW112 308 | 10BL160 586 | Bore | Private | Monitoring Bore | Monitoring Bore | | 23/01/2002 | 6.00 | 6.00 | | | | | 216m | South West |
| GW112 307 | 10BL160 586 | Bore | Private | Monitoring Bore | Monitoring Bore | | 22/01/2002 | 4.00 | 4.00 | | | | | 222m | South West |
| GW112 299 | 10BL160 586 | Bore | Private | Monitoring Bore | Monitoring Bore | | 21/01/2002 | 4.00 | 4.00 | | | | | 227m | South West |
| GW072 901 | | Bore | Private | | Domestic | | 15/11/1994 | 7.00 | 7.00 | | | | | 229m | East |
| GW112 291 | 10BL160 586 | Bore | Private | Monitoring Bore | Monitoring Bore | | 14/01/2002 | 6.00 | 6.00 | | | | | 246m | South West |
| GW112 202 | 10BL156 771 | Bore | Private | Monitoring Bore | Monitoring Bore | | 27/05/1996 | 5.90 | 5.90 | | | | | 263m | South West |
| GW112 306 | 10BL160 586 | Bore | Private | Monitoring Bore | Monitoring Bore | | 22/01/2002 | 4.00 | 4.00 | | | | | 269m | South West |
| GW112 300 | 10BL160 586 | Bore | Private | Monitoring Bore | Monitoring Bore | | 21/01/2002 | 4.00 | 4.00 | | | | | 273m | South West |
| GW112 302 | 10BL160 586 | Bore | Private | Monitoring Bore | Monitoring Bore | | 22/01/2002 | 4.00 | 4.00 | | | | | 276m | South West |
| GW104 902 | 10BL157 111, 10WA11 3115 | Bore | Private | Domestic | Domestic | | 27/09/1995 | 7.10 | 7.10 | Good | 1.83 | 1.000 | | 277m | South East |
| GW112 305 | 10BL160 586 | Bore | Private | Monitoring Bore | Monitoring Bore | | 21/01/2002 | 4.00 | 4.00 | | | | | 289m | South West |
| GW112 304 | 10BL160 586 | Bore | Private | Monitoring Bore | Monitoring Bore | | 22/01/2002 | 4.00 | 4.00 | | | | | 292m | South West |
| GW112 301 | 10BL160 586 | Bore | Private | Monitoring Bore | Monitoring Bore | | 22/01/2002 | 6.00 | 6.00 | | | | | 294m | South West |

| GW No. | Licence No | Work Type | Owner Type | Authorised Purpose | Intended Purpose | Name | Complete Date | Final Depth (m) | Drilled Depth (m) | Salinity (mg/L) | SWI (m) | Yield (L/s) | Elev (AHD) | Dist | Dir |
|-----------|-------------|-----------|------------|--------------------|------------------|------|---------------|-----------------|-------------------|-----------------|---------|-------------|------------|------|------------|
| GW112 303 | 10BL160 586 | Bore | Private | Monitoring Bore | Monitoring Bore | | 22/01/2001 | 4.00 | 4.00 | | | | | 295m | South West |
| GW112 292 | 10BL160 586 | Bore | Private | Monitoring Bore | Monitoring Bore | | 21/01/2002 | 4.00 | 4.00 | | | | | 297m | South West |
| GW112 203 | 10BL156 771 | Bore | Private | Monitoring Bore | Monitoring Bore | | 27/05/1996 | 6.00 | 6.00 | | | | | 300m | South West |
| GW112 293 | 10BL160 586 | Bore | Private | Monitoring Bore | Monitoring Bore | | 21/01/2002 | 4.00 | 4.00 | | | | | 302m | South West |
| GW112 294 | 10BL160 586 | Bore | Private | Monitoring Bore | Monitoring Bore | | 21/01/2002 | 4.00 | 4.00 | | | | | 303m | South West |
| GW112 295 | 10BL160 586 | Bore | Private | Monitoring Bore | Monitoring Bore | | 21/01/2001 | 4.00 | 4.00 | | | | | 307m | South West |
| GW112 196 | 10BL156 771 | Bore | Private | Monitoring Bore | Monitoring Bore | | 27/07/1996 | 5.05 | 5.05 | | | | | 309m | South West |
| GW102 193 | 10BL159 044 | Bore | Private | Monitoring Bore | Monitoring Bore | | 22/03/1999 | 3.90 | 3.90 | | | | | 317m | South West |
| GW102 191 | 10BL159 044 | Bore | Private | Monitoring Bore | Monitoring Bore | | 18/03/1999 | 4.00 | 4.00 | | | | | 317m | South West |
| GW102 197 | 10BL159 044 | Bore | Private | Monitoring Bore | Monitoring Bore | | 22/03/1999 | 3.60 | 3.60 | | | | | 317m | South West |
| GW102 192 | 10BL159 044 | Bore | Private | Monitoring Bore | Monitoring Bore | | 19/03/1999 | 4.00 | 4.00 | | | | | 317m | South West |
| GW102 178 | 10BL159 044 | Bore | Private | Monitoring Bore | Monitoring Bore | | 22/03/1999 | 4.40 | 4.40 | | | | | 317m | South West |
| GW102 169 | 10BL159 044 | Bore | Private | Monitoring Bore | Monitoring Bore | | 07/01/1999 | 4.50 | 4.50 | | | | | 317m | South West |
| GW102 186 | 10BL159 044 | Bore | Private | Monitoring Bore | Monitoring Bore | | 22/03/1999 | 4.20 | 4.20 | | | | | 317m | South West |
| GW102 198 | 10BL159 044 | Bore | Private | Monitoring Bore | Monitoring Bore | | 22/03/1999 | 3.50 | 3.50 | | | | | 317m | South West |
| GW102 190 | 10BL159 044 | Bore | Private | Monitoring Bore | Monitoring Bore | | 18/03/1999 | 4.00 | 4.00 | | | | | 317m | South West |
| GW102 184 | 10BL159 044 | Bore | Private | Monitoring Bore | Monitoring Bore | | 18/03/1999 | 4.20 | 4.20 | | | | | 317m | South West |
| GW102 205 | 10BL159 044 | Bore | Private | Monitoring Bore | Monitoring Bore | | 22/03/1999 | 3.30 | 3.30 | | | | | 317m | South West |
| GW102 173 | 10BL159 044 | Bore | Private | Monitoring Bore | Monitoring Bore | | 06/01/1999 | 4.50 | 4.50 | | | | | 317m | South West |
| GW102 171 | 10BL159 044 | Bore | Private | Monitoring Bore | Monitoring Bore | | 07/01/1999 | 6.00 | 6.00 | | | | | 317m | South West |
| GW102 188 | 10BL159 044 | Bore | Private | Monitoring Bore | Monitoring Bore | | 22/03/1999 | 4.00 | 4.00 | | | | | 317m | South West |
| GW102 194 | 10BL159 044 | Bore | Private | Monitoring Bore | Monitoring Bore | | 22/03/1999 | 3.70 | 3.70 | | | | | 317m | South West |
| GW102 189 | 10BL159 044 | Bore | Private | Monitoring Bore | Monitoring Bore | | 22/03/1999 | 4.00 | 4.00 | | | | | 318m | South West |
| GW102 172 | 10BL159 044 | Bore | Private | Monitoring Bore | Monitoring Bore | | 06/01/1999 | 4.50 | 4.50 | | | | | 318m | South West |
| GW102 164 | 10BL159 044 | Bore | Private | Monitoring Bore | Monitoring Bore | | 07/01/1999 | 5.00 | 5.00 | | | | | 318m | South West |
| GW102 160 | 10BL159 044 | Bore | Private | Monitoring Bore | Monitoring Bore | | 07/01/1999 | 5.00 | 5.00 | | | | | 318m | South West |
| GW102 168 | 10BL159 044 | Bore | Private | Monitoring Bore | Monitoring Bore | | 07/01/1999 | 5.00 | 5.00 | | | | | 318m | South West |
| GW102 203 | 10BL159 044 | Bore | Private | Monitoring Bore | Monitoring Bore | | 18/03/1999 | 3.50 | 3.50 | | | | | 318m | South West |
| GW102 199 | 10BL159 044 | Bore | Private | Monitoring Bore | Monitoring Bore | | 22/03/1999 | 3.50 | 3.50 | | | | | 318m | South West |
| GW102 200 | 10BL159 044 | Bore | Private | Monitoring Bore | Monitoring Bore | | 19/03/1999 | 3.50 | 3.50 | | | | | 318m | South West |
| GW102 196 | 10BL159 044 | Bore | Private | Monitoring Bore | Monitoring Bore | | 22/03/1999 | 3.60 | 3.60 | | | | | 318m | South West |
| GW102 162 | 10BL159 044 | Bore | Private | Monitoring Bore | Monitoring Bore | | 07/01/1999 | 5.00 | 5.00 | | | | | 318m | South West |
| GW102 201 | 10BL159 044 | Bore | Private | Monitoring Bore | Monitoring Bore | | 18/03/1999 | 3.50 | 3.50 | | | | | 318m | South West |
| GW102 165 | 10BL159 044 | Bore | Private | Monitoring Bore | Monitoring Bore | | 07/01/1999 | 5.00 | 5.00 | | | | | 318m | South West |

| GW No. | License No | Work Type | Owner Type | Authorised Purpose | Intended Purpose | Name | Complete Date | Final Depth (m) | Drilled Depth (m) | Salinity (mg/L) | SWL (m) | Yield (L/s) | Elev (AHD) | Dist | Dir |
|-----------|--------------------------|-----------|------------|--------------------|------------------|-----------------|---------------|-----------------|-------------------|-----------------|---------|-------------|------------|------|------------|
| GW102 185 | 10BL159 044 | Bore | Private | Monitoring Bore | Monitoring Bore | | 18/03/1999 | 4.20 | 4.20 | | | | | 318m | South West |
| GW102 176 | 10BL 159 044 | Bore | Private | Monitoring Bore | Monitoring Bore | | 06/01/1999 | 4.50 | 4.50 | | | | | 318m | South West |
| GW102 187 | 10BL159 044 | Bore | Private | Monitoring Bore | Monitoring Bore | | 22/03/1999 | 4.20 | 4.20 | | | | | 318m | South West |
| GW102 204 | 10BL 159 044 | Bore | Private | Monitoring Bore | Monitoring Bore | | 22/03/1999 | 3.30 | 3.30 | | | | | 318m | South West |
| GW112 201 | 10BL156 771 | Bore | Private | Monitoring Bore | Monitoring Bore | | 27/05/1996 | 5.60 | 5.60 | | | | | 318m | South West |
| GW102 195 | 10BL159 044 | Bore | Private | Monitoring Bore | Monitoring Bore | | 22/03/1999 | 3.60 | 3.60 | | | | | 318m | South West |
| GW073 521 | | Spear | Private | | Domestic | | 29/10/1995 | 3.00 | 3.00 | | | | | 320m | East |
| GW112 296 | 10BL160 586 | Bore | Private | Monitoring Bore | Monitoring Bore | | 21/01/2002 | 6.00 | 6.00 | | | | | 324m | South West |
| GW112 297 | 10BL160 586 | Bore | Private | Monitoring Bore | Monitoring Bore | | 21/01/2002 | 6.00 | 6.00 | | | | | 325m | South West |
| GW101 358 | 10BL157 307 | Bore | Private | Monitoring Bore | Monitoring Bore | | 22/11/1995 | 6.00 | 6.00 | | | | | 326m | South West |
| GW101 360 | 10BL157 307 | Bore | Private | Monitoring Bore | Monitoring Bore | | 22/11/1995 | 6.00 | 6.00 | | | | | 326m | South West |
| GW101 354 | 10BL157 307 | Bore | Private | Monitoring Bore | Monitoring Bore | | 22/11/1995 | 6.00 | 6.00 | | | | | 326m | South West |
| GW101 361 | 10BL157 307 | Bore | Private | Monitoring Bore | Monitoring Bore | | 22/11/1995 | 4.30 | 4.30 | | | | | 326m | South West |
| GW101 352 | 10BL157 307 | Bore | Private | Monitoring Bore | Monitoring Bore | | 22/11/1995 | 5.70 | 5.70 | | | | | 326m | South West |
| GW101 359 | 10BL157 307 | Bore | Private | Monitoring Bore | Monitoring Bore | | 22/11/1995 | 6.00 | 6.00 | | | | | 326m | South West |
| GW101 350 | 10BL157 307 | Bore | Private | Monitoring Bore | Monitoring Bore | | 22/11/1995 | 5.90 | 5.90 | | | | | 326m | South West |
| GW101 362 | 10BL157 307 | Bore | Private | Monitoring Bore | Monitoring Bore | | 22/11/1995 | 5.90 | 5.90 | | | | | 326m | South West |
| GW101 357 | 10BL157 307 | Bore | Private | Monitoring Bore | Monitoring Bore | | 22/11/1995 | 5.90 | 5.90 | | | | | 326m | South West |
| GW101 353 | 10BL157 307 | Bore | Private | Monitoring Bore | Monitoring Bore | | 22/11/1995 | 6.00 | 6.00 | | | | | 326m | South West |
| GW101 355 | 10BL157 307 | Bore | Private | Monitoring Bore | Monitoring Bore | | 22/11/1995 | 6.00 | 6.00 | | | | | 326m | South West |
| GW101 356 | 10BL157 307 | Bore | Private | Monitoring Bore | Monitoring Bore | | 22/11/1995 | 5.60 | 5.60 | | | | | 326m | South West |
| GW101 351 | 10BL157 307 | Bore | Private | Monitoring Bore | Monitoring Bore | | 22/11/1995 | 5.05 | 5.05 | | | | | 326m | South West |
| GW112 197 | 10BL156 771 | Bore | Private | Monitoring Bore | Monitoring Bore | | 27/05/1996 | 5.70 | 5.70 | | | | | 350m | South West |
| GW112 195 | 10BL 156 771 | Bore | Private | Monitoring Bore | Monitoring Bore | | 27/05/1996 | 5.90 | 5.90 | | | | | 357m | South West |
| GW112 980 | 10BL602 812 | Bore | Private | Monitoring Bore | Monitoring Bore | Caltex - Mascot | 17/11/2008 | 5.50 | 5.50 | | | | | 359m | North East |
| GW112 204 | 10BL156 771 | Bore | Private | Monitoring Bore | Monitoring Bore | | 27/05/1996 | 6.00 | 6.00 | | | | | 361m | South West |
| GW112 961 | 10BL602 812 | Bore | Private | Monitoring Bore | Monitoring Bore | Caltex - Mascot | 17/11/2008 | 5.00 | 5.00 | | | | | 367m | North East |
| GW112 200 | 10BL156 771 | Bore | Private | Monitoring Bore | Monitoring Bore | | 27/05/1996 | 6.00 | 6.00 | | | | | 370m | South West |
| GW112 198 | 10BL156 771 | Bore | Private | Monitoring Bore | Monitoring Bore | | 27/05/1996 | 6.00 | 6.00 | | | | | 372m | South West |
| GW112 982 | 10BL602 812 | Bore | Private | Monitoring Bore | Monitoring Bore | Caltex - Mascot | 17/11/2008 | 5.00 | 5.00 | | | | | 373m | North East |
| GW112 199 | 10BL156 771 | Bore | Private | Monitoring Bore | Monitoring Bore | | 27/05/1996 | 6.00 | 6.00 | | | | | 379m | South West |
| GW103 538 | 10BL160 017, 10WA11 3300 | Bore | | Domestic | Domestic | | 18/02/2001 | 7.00 | 7.00 | | | | | 386m | North East |
| GW027 248 | 10BL020 568 | Spear | Private | Industrial | Industrial | | 01/11/1965 | 4.80 | 4.90 | | | | | 408m | North West |

| GW No. | Licence No | Work Type | Owner Type | Authorised Purpose | Intended Purpose | Name | Complete Date | Final Depth (m) | Drilled Depth (m) | Salinity (mg/L) | SWL (m) | Yield (L/s) | Elev (AHD) | Dist | Dir |
|-----------|--------------------------|-----------|--------------|--------------------------|--------------------------|-------|---------------|-----------------|-------------------|-----------------|---------|-------------|------------|------|------------|
| GW112 851 | 10BL504 737 | Bore | Private | Dewatering (groundwater) | Dewatering (groundwater) | | 23/12/2011 | 6.00 | 6.00 | | | | | 416m | North West |
| GW104 334 | 10BL160 591 | Bore | Private | Monitoring Bore | Monitoring Bore | | 05/04/2002 | 3.50 | 3.50 | | 0.90 | | | 420m | South |
| GW104 335 | 10BL160 591 | Bore | Private | Monitoring Bore | Monitoring Bore | | 05/04/2002 | 3.50 | 3.50 | | 1.40 | | | 430m | South |
| GW104 333 | 10BL160 591 | Bore | Private | Monitoring Bore | Monitoring Bore | | 05/04/2002 | 3.50 | 3.50 | | 1.20 | | | 430m | South |
| GW104 336 | 10BL160 591 | Bore | Private | Monitoring Bore | Monitoring Bore | | 05/04/2002 | 3.50 | 3.50 | | 1.00 | | | 445m | South |
| GW104 337 | 10BL160 591 | Bore | Private | Monitoring Bore | Monitoring Bore | | 05/04/2002 | 3.50 | 3.50 | | 1.40 | | | 457m | South |
| GW013 515 | 10BL008 626, 10WA11 2796 | Spear | Private | Domestic | Domestic | | 01/01/1958 | 8.20 | 8.20 | | | | | 460m | North East |
| GW047 123 | 10BL105 637, 10WA11 4669 | Bore | Local Govt | Recreation (groundwater) | Recreation (groundwater) | | 01/07/1973 | 18.90 | 18.90 | | | | | 465m | East |
| GW104 338 | 10BL160 591 | Bore | Private | Monitoring Bore | Monitoring Bore | | 05/04/2002 | 3.50 | 3.50 | | 1.20 | | | 471m | South |
| GW103 706 | 10BL160 099 | Bore | | Monitoring Bore | Monitoring Bore | | 02/11/2000 | 4.30 | 4.30 | | | | | 471m | South East |
| GW103 707 | 10BL160 099 | Bore | | Monitoring Bore | Monitoring Bore | | 03/11/2000 | 4.20 | 4.20 | | | | | 471m | South East |
| GW103 705 | 10BL160 099 | Bore | | Monitoring Bore | Monitoring Bore | | 02/11/2000 | 4.70 | 4.70 | | | | | 471m | South East |
| GW104 988 | 10BL160 392, 10WA11 3311 | Bore | Private | Domestic | Domestic | | 15/12/2001 | 7.00 | 7.00 | | 4.00 | 1.000 | | 488m | North East |
| GW033 372 | 10BL024 741 | Bore | Federal Govt | Industrial | Industrial | | 01/03/1970 | 11.80 | 11.90 | | | | | 558m | South |
| GW033 371 | 10BL024 740 | Bore | Federal Govt | Industrial | Industrial | | 01/03/1970 | 11.80 | 11.90 | | | | | 559m | South |
| GW100 484 | 10BL157 840 | Bore | Private | Monitoring Bore | Monitoring Bore | | 19/12/1996 | 4.00 | 4.00 | | 0.00 | | | 569m | North East |
| GW031 808 | 10BL024 739 (Unknown) | P W D | | Test Bore | Water Explore | | 01/06/1969 | 18.20 | 18.30 | | | | | 581m | South |
| GW024 855 | 10BL018 264 | Bore | Private | Industrial | General Use | | 01/06/1966 | 9.10 | 9.10 | | | | | 582m | South |
| GW114 857 | 10BL605 585 | Bore | Private | Monitoring Bore | Monitoring Bore | | 15/05/2014 | 6.00 | 6.00 | | | | | 609m | North East |
| GW112 403 | 10BL602 019, 10WA11 4432 | Well | Private | Groundwater Remediation | Groundwater Remediation | | 29/11/2007 | 0.90 | 0.90 | | | | | 619m | North East |
| GW112 404 | 10BL602 019, 10WA11 4432 | Well | Private | Groundwater Remediation | Groundwater Remediation | | 29/11/2007 | 1.30 | 1.30 | | | | | 622m | North East |
| GW113 311 | 10BL160 868 | Bore | Private | Monitoring Bore | Monitoring Bore | Shell | 01/01/2002 | 4.00 | 4.00 | | 1.78 | | | 624m | North East |
| GW112 405 | 10BL602 019, 10WA11 4432 | Well | Private | Groundwater Remediation | Groundwater Remediation | | 29/11/2007 | 1.30 | 1.30 | | | | | 633m | North East |
| GW107 976 | 10BL164 933 | Spear | Private | Dewatering (groundwater) | Dewatering (groundwater) | | 05/10/2004 | 3.50 | 3.50 | | | | | 642m | North East |
| GW015 954 | 10BL006 808 | Bore | Private | Industrial | Industrial | | 01/05/1957 | 20.10 | 20.10 | | | | | 667m | North |
| GW023 525 | 10BL016 753 | Spear | Private | Domestic | General Use | | 01/11/1965 | 5.90 | 5.90 | | | | | 669m | South East |
| GW013 331 | 10BL006 748 | Bore | Private | General Use, Industrial | Industrial | | 01/08/1954 | 14.90 | 14.90 | | | | | 670m | North |
| GW112 218 | 10BL160 943 | Bore | Private | Monitoring Bore | Monitoring Bore | | 03/12/2002 | 4.00 | 4.00 | | | | | 708m | West |

| GW No. | Licence No | Work Type | Owner Type | Authorised Purpose | Intended Purpose | Name | Complete Date | Final Depth (m) | Drilled Depth (m) | Salinity (mg/L) | SWL (m) | Yield (L/s) | Elev (AHD) | Dist | Dir |
|-----------|--------------------------|-----------|------------|--------------------------|--------------------------|------|---------------|-----------------|-------------------|-----------------|---------|-------------|------------|------|------------|
| GW112 217 | 10BL160 943 | Bore | Private | Monitoring Bore | Monitoring Bore | | 03/12/2002 | 4.10 | 4.10 | | | | | 712m | West |
| GW040 219 | | Spear | Private | | Industrial | | | 6.30 | 6.30 | | | | 3.89 | 740m | North West |
| GW047 525 | 10BL105 640, 10WA11 4683 | Bore | Local Govt | Recreation (groundwater) | Recreation (groundwater) | | 01/05/1975 | 17.10 | 19.40 | | | | | 756m | North East |
| GW112 219 | 10BL160 943 | Bore | Private | Monitoring Bore | Monitoring Bore | | 03/12/2002 | 4.00 | 4.00 | | | | | 764m | North West |
| GW024 374 | 10BL016 571 | Spear | Private | Irrigation | General Use | | 01/12/1965 | 5.10 | 5.20 | Poor | | | | 775m | North East |
| GW112 227 | 10BL160 943 | Bore | Private | Monitoring Bore | Monitoring Bore | | 03/12/2002 | 3.50 | 3.50 | | | | | 779m | West |
| GW104 990 | 10BL160 430, 10WA11 3313 | Bore | Private | Domestic | Domestic | | 22/01/2002 | 6.00 | 6.00 | | 3.50 | 1.000 | | 779m | South East |
| GW025 994 | 10BL016 721 | Bore | Private | Not Known | General Use | | 01/03/1966 | 13.20 | 13.30 | Good | | | | 789m | South East |
| GW112 226 | 10BL160 943 | Bore | Private | Monitoring Bore | Monitoring Bore | | 03/12/2002 | 4.40 | 4.40 | | | | | 819m | West |
| GW112 220 | 10BL160 943 | Bore | Private | Monitoring Bore | Monitoring Bore | | 03/12/2002 | 4.00 | 4.00 | | | | | 845m | North West |
| GW108 104 | 10BL160 615 | Bore | | Industrial | Industrial | | 10/05/2007 | | 70.00 | | | 13.000 | | 858m | North East |
| GW112 225 | 10BL160 943 | Bore | Private | Monitoring Bore | Monitoring Bore | | 03/12/2002 | 4.10 | 4.10 | | | | | 871m | West |
| GW024 036 | 10BL017 949 | Spear | Private | Industrial | General Use | | 01/01/1966 | 6.00 | 6.10 | | | | | 873m | South West |
| GW112 229 | 10BL160 943 | Bore | Private | Monitoring Bore | Monitoring Bore | | 03/12/2002 | 4.00 | 4.00 | | | | | 895m | West |
| GW112 231 | 10BL160 943 | Bore | Private | Monitoring Bore | Monitoring Bore | | 03/12/2002 | 4.00 | 4.00 | | | | | 897m | West |
| GW112 228 | 10BL160 943 | Bore | Private | Monitoring Bore | Monitoring Bore | | 03/12/2002 | 4.00 | 4.00 | | | | | 905m | West |
| GW101 533 | 10BL157 298 | Bore | Private | Industrial | Industrial | | 06/11/1997 | 20.00 | 20.00 | Good | 4.40 | 1.000 | | 915m | North East |
| GW102 366 | 10BL159 184, 10WA11 3281 | Bore | | Domestic | Domestic | | 23/05/1999 | 7.00 | 7.00 | | | | | 925m | East |
| GW104 448 | 10BL160 854 | Bore | Private | Monitoring Bore | Monitoring Bore | | 25/11/2002 | 3.50 | 3.50 | | | 1.000 | | 928m | North West |
| GW112 224 | 10BL160 943 | Bore | Private | Monitoring Bore | Monitoring Bore | | 03/12/2002 | 4.10 | 4.10 | | | | | 935m | West |
| GW024 244 | 10BL018 810, 10WA11 2967 | Spear | Private | Domestic | General Use | | 01/11/1965 | 3.00 | 3.00 | Fair | | | | 936m | East |
| GW112 230 | 10BL160 943 | Bore | Private | Monitoring Bore | | | 03/12/2002 | 4.00 | 4.00 | | | | | 940m | West |
| GW112 223 | 10BL160 943 | Bore | Private | Monitoring Bore | Monitoring Bore | | 31/12/2002 | 4.20 | 4.20 | | | | | 940m | West |
| GW101 523 | 10BL158 689, 10WA11 3260 | Bore | Private | Domestic | Domestic | | 01/06/1998 | 6.10 | 6.10 | Good | 1.52 | 1.000 | | 949m | East |
| GW112 222 | 10BL160 943 | Bore | Private | Monitoring Bore | Monitoring Bore | | 03/12/2002 | 4.20 | 4.20 | | | | | 950m | West |
| GW112 221 | 10BL160 943 | Bore | Private | Monitoring Bore | Monitoring Bore | | 03/12/2002 | 4.20 | 4.20 | | | | | 958m | West |
| GW101 457 | 10BL158 490, 10WA11 3250 | Spear | Private | Domestic | Domestic | | 02/03/1998 | 6.00 | 6.00 | | | | | 962m | East |
| GW104 449 | 10BL160 854 | Bore | Private | Monitoring Bore | Monitoring Bore | | 01/01/2002 | 3.50 | 3.50 | | | 1.000 | | 973m | North West |
| GW104 450 | 10BL160 854 | Bore | Private | Monitoring Bore | Monitoring Bore | | 01/01/2002 | 3.50 | 3.50 | | | 0.500 | | 985m | North West |

| GW No. | Licence No | Work Type | Owner Type | Authorised Purpose | Intended Purpose | Name | Complete Date | Final Depth (m) | Drilled Depth (m) | Salinity (mg/L) | SWI (m) | Yield (L/s) | Elev (AHD) | Dist | Dir |
|----------|------------------------|-----------|---------------------|--------------------------|--------------------------|------------------------------------|---------------|-----------------|-------------------|-----------------|---------|-------------|------------|-------|------------|
| GW040222 | | Well | Private | | Industrial | | | 7.00 | 7.00 | | | | 8.69 | 989m | South East |
| GW017344 | 10BL008344 | Bore | Private | Not Known | Industrial | | 01/02/1955 | 13.80 | 13.80 | | | | | 999m | South East |
| GW108497 | 10BL161956, 10WA114717 | Bore | Private | Recreation (groundwater) | | | 16/01/2008 | 8.00 | | | | 3.000 | | 1011m | North |
| GW103507 | 10BL159488 | Bore | | Monitoring Bore | Monitoring Bore | | 14/10/1999 | 6.00 | 6.00 | | | | | 1016m | North East |
| GW103508 | 10BL159488 | Bore | | Monitoring Bore | Monitoring Bore | | 15/10/1999 | 6.00 | 6.00 | | | | | 1016m | North East |
| GW103506 | 10BL159488 | Bore | | Monitoring Bore | Monitoring Bore | | 13/10/1999 | 6.00 | 6.00 | | | | | 1016m | North East |
| GW103505 | 10BL159488 | Bore | | Monitoring Bore | Monitoring Bore | | 14/10/1999 | 6.00 | 6.00 | | | | | 1016m | North East |
| GW072413 | 10BL156159, 10WA113021 | Spear | Private | Domestic | Domestic | | 31/10/1994 | 6.00 | 6.00 | | | | | 1020m | East |
| GW103504 | 10BL159488 | Bore | | Monitoring Bore | Monitoring Bore | | 13/10/1999 | 6.10 | 6.10 | | | | | 1025m | North East |
| GW107395 | 10BL163147 | Bore | | Monitoring Bore | Monitoring Bore | | 22/07/2003 | 3.60 | 3.60 | | | | | 1037m | East |
| GW075023 | | Bore | NSW Office of Water | | Monitoring Bore | BOTANY BOREFIELD AT LESTRANGE PARK | 15/07/1998 | 18.50 | 26.00 | | | | 8.44 | 1048m | South East |
| GW105150 | 10BL157960, 10WA113111 | Bore | Private | Domestic | Domestic | | 20/09/1995 | 5.00 | 5.00 | | | | | 1049m | East |
| GW107396 | 10BL163147 | Bore | | Monitoring Bore | Monitoring Bore | | 22/07/2003 | 3.50 | 3.50 | | | | | 1076m | East |
| GW072293 | | Spear | Private | | Domestic | | 29/11/1994 | 6.60 | | | | | | 1092m | East |
| GW106987 | 10BL161311, 10WA113334 | Spear | Private | Domestic | Domestic | | 10/04/2005 | 7.00 | 7.00 | | | | | 1108m | South East |
| GW100487 | 10BL157229 | Bore | | Domestic | | | 01/01/1996 | 5.00 | | | 4.00 | | | 1112m | South East |
| GW107397 | 10BL163147 | Bore | | Monitoring Bore | Monitoring Bore | | 27/07/2003 | 3.60 | 3.60 | | | | | 1120m | East |
| GW073477 | 10BL157226, 10WA113127 | Bore | | Domestic | Domestic | | 20/10/1995 | 5.00 | | | | | | 1125m | East |
| GW023805 | 10BL017288, 10WA112883 | Spear | Private | Domestic | General Use | | 01/01/1966 | 4.50 | 4.80 | Good | | | | 1127m | South East |
| GW105117 | 10BL160666, 10WA114711 | Bore | Private | Recreation (groundwater) | Recreation (groundwater) | | 12/12/2012 | 14.00 | 14.00 | 220 | 1.30 | 5.000 | | 1132m | East |
| GW072843 | 10BL156189 | Bore | Local Govt | Test Bore | Test Bore | | 25/09/1996 | 12.00 | 12.00 | | | | | 1215m | North West |
| GW100754 | 10BL156761, 10WA114629 | Bore | Private | Industrial | Industrial | | 21/06/1995 | 148.00 | 148.00 | 560 | 6.00 | 8.200 | | 1220m | South |
| GW111321 | 10BL601845 | Bore | Private | Monitoring Bore | Monitoring Bore | | 09/01/2007 | 5.00 | 5.00 | | 2.63 | | | 1222m | North |
| GW114173 | 10BL604101 | Bore | Private | Monitoring Bore | Monitoring Bore | | 05/10/2010 | 4.00 | 4.00 | | | | | 1240m | East |
| GW114174 | 10BL604101 | Bore | Private | Monitoring Bore | Monitoring Bore | | 05/10/2010 | 4.00 | 4.00 | | | | | 1243m | East |
| GW114172 | 10BL604101 | Bore | Private | Monitoring Bore | Monitoring Bore | | 05/10/2010 | 4.00 | 4.00 | | | | | 1243m | North East |

| GW No. | Licence No | Work Type | Owner Type | Authorised Purpose | Intended Purpose | Name | Complete Date | Final Depth (m) | Drilled Depth (m) | Salinity (mg/L) | SWI (m) | Yield (L/s) | Elev (AHD) | Dist | Dir |
|-----------|--------------------------|-----------|------------|--------------------|------------------|------|---------------|-----------------|-------------------|-----------------|---------|-------------|------------|-------|------------|
| GW100 966 | 10BL156 935, 10WA11 3086 | Spear | Private | Domestic | Domestic | | 23/08/1995 | 5.50 | 5.50 | Good | 1.83 | 1.000 | | 1245m | East |
| GW114 171 | 10BL604 101 | Bore | Private | Monitoring Bore | Monitoring Bore | | 05/10/2010 | 4.00 | 4.00 | | | | | 1248m | North East |
| GW114 170 | 10BL604 101 | Bore | Private | Monitoring Bore | Monitoring Bore | | 05/10/2010 | 4.00 | 4.00 | | | | | 1251m | North East |
| GW101 477 | 10BL158 445, 10WA11 3241 | Spear | Private | Domestic | Domestic | | 05/01/1998 | 6.00 | 6.00 | | | | | 1255m | East |
| GW026 070 | 10BL017 804, 10WA11 2932 | Spear | Private | Domestic | Domestic | | 01/01/1966 | 3.60 | 3.70 | | | | | 1263m | East |
| GW023 500 | 10BL017 646, 10WA11 2923 | Spear | Private | Domestic | General Use | | 01/01/1966 | 5.40 | 5.50 | Good | | | | 1265m | North East |
| GW023 168 | 10BL017 001 | Spear | Private | Domestic | General Use | | 01/01/1966 | 4.50 | 4.60 | | | | | 1265m | North East |
| GW100 852 | 10BL157 549, 10WA11 3165 | Spear | Private | Domestic | Domestic | | 14/03/1996 | 6.10 | 6.10 | Good | 1.83 | 1.000 | | 1266m | North East |
| GW072 993 | 10BL158 242, 10WA11 3026 | Bore | | Domestic | | | 01/01/1995 | 48.77 | 48.76 | | | 0.667 | | 1268m | North East |
| GW104 866 | 10BL161 625, 10WA11 3339 | Bore | Private | Domestic | Domestic | | 17/03/2003 | 6.71 | 6.71 | | 3.66 | 1.190 | | 1273m | South East |
| GW101 475 | 10BL158 448, 10WA11 3240 | Spear | Private | Domestic | Domestic | | 04/02/1998 | 6.00 | 6.00 | | | | | 1275m | East |
| GW072 632 | | Bore | Private | | Domestic | | 02/12/1994 | 5.00 | 5.00 | | | | | 1285m | East |
| GW101 787 | 10BL157 379, 10WA11 3154 | Bore | | Domestic | Domestic | | 18/12/1995 | 5.80 | 5.80 | Good | 1.83 | 1.000 | | 1291m | South East |
| GW109 821 | 10BL164 967 | Bore | Private | Monitoring Bore | Monitoring Bore | | 23/10/2000 | 29.00 | 29.00 | 10.6 | 12.5 | 0.100 | | 1298m | North West |
| GW109 822 | 10BL164 967 | Bore | Private | Monitoring Bore | Monitoring Bore | | 04/04/1997 | 10.45 | 10.45 | 958 | 3.00 | | | 1305m | North West |
| GW023 472 | 10BL017 260, 10WA11 2877 | Spear | Private | Domestic | General Use | | 01/03/1966 | 3.60 | 3.70 | Good | | | | 1307m | East |
| GW111 320 | 10BL601 845 | Bore | Private | Monitoring Bore | Monitoring Bore | | 09/01/2007 | 5.20 | 5.20 | | 2.52 | | | 1327m | North |
| GW104 922 | 10BL160 557, 10WA11 3318 | Bore | Private | Domestic | Domestic | | 09/03/2002 | 7.00 | 7.00 | | 3.50 | 1.000 | | 1338m | South East |
| GW105 152 | 10BL157 076, 10WA11 3110 | Bore | Private | Domestic | Domestic | | 20/09/1995 | 5.00 | 5.00 | | | | | 1354m | East |
| GW042 179 | | Well | Private | | Not Known | | | 24.00 | 24.00 | | | | 12.26 | 1355m | North East |
| GW101 446 | 10BL158 458, 10WA11 3243 | Spear | Private | Domestic | Domestic | | 04/01/1998 | 6.00 | 6.00 | | | | | 1356m | East |
| GW072 633 | | Bore | Private | | Domestic | | 03/12/1994 | 5.00 | 5.00 | | | | | 1360m | East |
| GW023 162 | 10BL016 979 | Spear | Private | Domestic | General Use | | 01/01/1966 | 4.80 | 4.90 | Good | | | | 1363m | North East |

| GW No. | Licence No | Work Type | Owner Type | Authorised Purpose | Intended Purpose | Name | Complete Date | Final Depth (m) | Drilled Depth (m) | Salinity (mg/L) | SWL (m) | Yield (L/s) | Elev (AHD) | Dist | Dir |
|-----------|--------------------------|------------|------------|--------------------------|--------------------------|--------------------|---------------|-----------------|-------------------|-----------------|---------|-------------|------------|-------|------------|
| GW111 919 | 10BL602 004 | Spear | Private | Monitoring Bore | Monitoring Bore | | 01/01/2007 | 7.00 | 7.00 | | 90.0 | 0.200 | | 1377m | North East |
| GW111 920 | 10BL602 005 | Spear | Private | Monitoring Bore | Monitoring Bore | | 01/01/2007 | 6.00 | 6.00 | | 9.00 | 0.200 | | 1380m | North East |
| GW100 053 | 10BL154 407, 10WA11 4697 | Spear | Local Govt | Recreation (groundwater) | Recreation (groundwater) | | 20/04/1994 | 7.00 | 7.00 | | 1.00 | 3.800 | | 1385m | North |
| GW072 634 | | Spear | Private | | Domestic | | 24/10/1994 | 6.10 | 6.10 | | | | | 1395m | South East |
| GW100 803 | 10BL156 210, 10WA11 3024 | Bore | | Domestic | | | 31/12/1994 | 6.00 | 6.00 | | 2.00 | | | 1397m | East |
| GW072 455 | 10BL156 142, 10WA11 3019 | Bore | | Domestic | Domestic | | 24/10/1994 | 5.80 | 5.80 | | | | | 1402m | South East |
| GW023 561 | 10BL017 493, 10WA11 2901 | Spear | Private | Domestic | General Use | | 01/01/1966 | 5.40 | 5.50 | Good | | | | 1409m | East |
| GW110 457 | 10BL603 007 | Well | Private | Monitoring Bore | Monitoring Bore | | 01/05/2009 | 3.60 | 3.60 | | 1.70 | | | 1415m | North |
| GW023 968 | | Spear | Private | | General Use | | 01/01/1966 | 4.50 | 4.60 | Good | | | | 1419m | East |
| GW100 575 | 10BL158 007, 10WA11 3192 | Spear | Private | Domestic | Domestic | | 20/04/1997 | 5.00 | 5.00 | | | | | 1471m | East |
| GW110 456 | 10BL603 007 | Well | Private | Monitoring Bore | Monitoring Bore | | 01/05/2009 | 3.20 | 3.60 | | 2.30 | | | 1474m | North |
| GW110 458 | 10BL603 007 | Well | Private | Monitoring Bore | Monitoring Bore | | 01/05/2009 | 2.80 | 2.80 | | 2.30 | | | 1475m | North |
| GW024 616 | 10BL019 001, 10WA11 2979 | Spear | Private | Domestic | Domestic | | 01/09/1966 | 5.60 | 5.60 | | | | | 1484m | East |
| GW025 729 | 10BL016 155 | (Unkn own) | Private | Industrial | Industrial | | 01/01/1940 | 21.30 | | | | | | 1485m | South East |
| GW112 603 | 10BL604 110 | Bore | Private | Monitoring Bore | Monitoring Bore | Shell - Alexandria | 13/07/2010 | 5.00 | 5.00 | | 4.00 | | | 1493m | North East |
| GW112 600 | 10BL604 110 | Bore | Private | Monitoring Bore | Monitoring Bore | Shell - Alexandria | 13/07/2010 | 4.60 | 4.60 | | 3.30 | | | 1495m | North East |
| GW112 602 | 10BL604 110 | Bore | Private | Monitoring Bore | Monitoring Bore | Shell - Alexandria | 13/07/2010 | 5.00 | 5.00 | | 3.80 | | | 1512m | North East |
| GW101 231 | 10BL158 390, 10WA11 3225 | Spear | Private | Domestic | Domestic | | 21/12/1997 | 7.00 | 7.00 | | | | | 1516m | East |
| GW112 598 | 10BL604 110 | Bore | Private | Monitoring Bore | Monitoring Bore | Shell - Alexandria | 13/07/2010 | 5.00 | 5.00 | | | | | 1525m | North East |
| GW101 161 | 10BL157 031, 10WA11 3100 | Spear | Private | Domestic | Domestic | | 06/09/1995 | 6.10 | 6.10 | Good | 3.50 | 1.000 | | 1526m | East |
| GW112 599 | 10BL604 110 | Bore | Private | Monitoring Bore | Monitoring Bore | Shell - Alexandria | 13/07/2010 | 4.50 | 4.50 | | 3.60 | | | 1529m | North East |
| GW100 945 | 10BL156 905, 10WA11 3083 | Spear | Private | Domestic | Domestic | | 14/08/1995 | 7.10 | 7.10 | Good | 2.13 | 1.000 | | 1533m | North East |
| GW112 601 | 10BL604 110 | Bore | Private | Monitoring Bore | Monitoring Bore | Shell - Alexandria | 13/07/2010 | 5.00 | 5.00 | | 4.20 | | | 1535m | North East |
| GW102 800 | 10BL159 567, 10WA11 3293 | Bore | | Domestic | Domestic | | 12/01/2000 | 6.10 | 6.10 | Good | | | | 1539m | East |
| GW112 597 | 10BL604 110 | Bore | Private | Monitoring Bore | Monitoring Bore | Shell - Alexandria | 13/07/2010 | 5.00 | 5.00 | | 3.80 | | | 1543m | North East |

| GW No. | License No | Work Type | Owner Type | Authorised Purpose | Intended Purpose | Name | Complete Date | Final Depth (m) | Drilled Depth (m) | Salinity (mg/L) | SWI (m) | Yield (L/s) | Elev (AHD) | Dist | Dir |
|-----------|--------------------------|-----------|------------|---------------------------|--------------------------|------|---------------|-----------------|-------------------|-----------------|---------|-------------|------------|-------|------------|
| GW103 183 | 10BL159 777, 10WA11 3296 | Bore | | Domestic | Domestic | | 01/01/1985 | 6.70 | 6.70 | | 2.00 | 0.378 | | 1543m | North East |
| GW100 993 | 10BL156 957, 10WA11 3091 | Spear | Private | Domestic | Domestic | | 29/08/1995 | 5.49 | 5.49 | Good | 2.13 | 1.000 | | 1544m | East |
| GW025 543 | 10BL016 154 | Bore | Private | Industrial | Industrial | | 01/01/1963 | 18.50 | 18.60 | Good | | | 7.05 | 1550m | South East |
| GW109 821 | 10BL164 967 | Bore | Private | Monitoring Bore | Monitoring Bore | | 03/04/1997 | 35.00 | 35.00 | 4400 | 14.50 | | | 1554m | North West |
| GW100 997 | 10BL156 173, 10WA11 3201 | Spear | Private | Domestic | Domestic | | 01/10/1997 | 8.23 | 8.24 | Good | | 1.000 | | 1568m | North East |
| GW110 352 | 10BL602 743, 10WA11 4783 | Bore | Local Govt | Recreation (groundwater) | Recreation (groundwater) | | 01/01/1975 | 40.00 | 40.00 | | 10.00 | 2.000 | | 1579m | North East |
| GW109 825 | 10BL164 967 | Bore | Private | Monitoring Bore | Monitoring Bore | | 10/02/2005 | 22.00 | 22.00 | | 14.90 | | | 1584m | North West |
| GW023 967 | 10BL017 821, 10WA11 2935 | Spear | Private | Domestic | General Use | | 01/05/1966 | 2.70 | 2.70 | Good | | | | 1585m | East |
| GW101 813 | 10BL157 317, 10WA11 3139 | Bore | | Domestic | Domestic | | 16/11/1995 | 8.54 | 8.54 | Good | 2.75 | 1.000 | | 1597m | North East |
| GW111 456 | 10BL604 566 | Bore | Private | Monitoring Bore | Monitoring Bore | | 14/04/2011 | 5.20 | 6.20 | | 2.77 | | | 1603m | South |
| GW023 408 | 10BL016 677 | Spear | Private | Domestic | General Use | | 01/12/1965 | 7.00 | 7.00 | | | | | 1603m | East |
| GW025 553 | 10BL016 153 (Unknown) | Bore | Private | Industrial | Industrial | | 01/01/1940 | 17.00 | | | | | | 1610m | South East |
| GW072 214 | | Bore | Private | | Domestic | | 01/03/1995 | 5.00 | 5.00 | | | | | 1612m | East |
| GW109 824 | 10BL164 967 | Bore | Private | Monitoring Bore | Monitoring Bore | | 05/04/2005 | 20.70 | 20.70 | | 4.51 | | | 1615m | North West |
| GW105 528 | 10BL180 254 | Bore | | Monitoring Bore | Monitoring Bore | | 02/12/1993 | 5.00 | 5.00 | | | | | 1620m | North East |
| GW023 600 | 10BL017 285, 10WA11 2881 | Spear | Private | Domestic | General Use | | 01/01/1966 | 7.30 | 7.30 | Good | | | | 1622m | East |
| GW101 221 | 10BL158 317, 10WA11 3219 | Spear | Private | Domestic | Domestic | | 12/12/1997 | 6.10 | 6.10 | Good | 2.13 | 1.000 | | 1637m | North East |
| GW100 975 | 10BL156 944, 10WA11 3087 | Spear | Private | Domestic | Domestic | | 10/05/1993 | 6.10 | 6.10 | Good | 2.74 | 1.000 | | 1645m | North East |
| GW111 457 | 10BL604 566 | Bore | Private | Monitoring Bore | Monitoring Bore | | 14/04/2011 | 6.20 | 6.20 | | 2.77 | | | 1645m | South |
| GW112 268 | 10BL161 855 | Bore | Private | Monitoring Bore | Monitoring Bore | | 21/03/2003 | 12.35 | 12.35 | | | | | 1659m | West |
| GW105 527 | 10BL180 254 | Bore | | Monitoring Bore | Monitoring Bore | | 15/12/2000 | 5.00 | 5.00 | | | | | 1661m | North |
| GW100 367 | 10BL157 662, 10WA11 3172 | Spear | Private | Domestic | Domestic | | 30/05/1995 | 6.00 | 6.00 | Good | 2.90 | 0.500 | | 1662m | East |
| GW017 782 | 10BL009 960 | Bore | Private | Industrial (low Security) | Industrial | | 01/09/1959 | 15.50 | 15.50 | | | | | 1665m | North East |
| GW072 328 | 10BL156 241 | Bore | Private | Industrial | Industrial | | 18/06/1994 | 13.00 | 14.00 | | | | | 1681m | North East |
| GW065 532 | | Bore | Private | | Industrial | | 01/11/1990 | 18.00 | | | | | | 1681m | North East |
| GW105 529 | 10BL180 254 | Bore | | Monitoring Bore | Monitoring Bore | | 07/02/2001 | 5.00 | 5.00 | | | | | 1688m | North |

| GW No. | License No | Work Type | Owner Type | Authorised Purpose | Intended Purpose | Name | Complete Date | Final Depth (m) | Drilled Depth (m) | Salinity (mg/L) | SWI (m) | Yield (L/s) | Elev (AHD) | Dist | Dir |
|-----------|--------------------------|-----------|---------------------|--------------------------------------|--------------------------------------|----------------------------------|---------------|-----------------|-------------------|-----------------|---------|-------------|------------|-------|------------|
| GW073 515 | 10BL157 331, 10WA11 3143 | Spear | Private | Domestic | Domestic | | 23/11/1995 | 7.00 | 7.00 | | | | | 1722m | East |
| GW101 037 | 10BL158 242, 10WA11 3209 | Spear | Private | Domestic | Domestic | | 24/11/1997 | 4.88 | 4.88 | Good | | 1.000 | | 1741m | North East |
| GW101 226 | 10BL158 322, 10WA11 3223 | Spear | Private | Domestic | Domestic | | 09/12/1997 | 5.30 | 5.30 | Good | 3.36 | 0.500 | | 1751m | East |
| GW024 023 | 10BL018 142 | Spear | Private | Domestic | General Use | | 01/05/1966 | 8.20 | 8.20 | Good | | | | 1752m | North East |
| GW100 486 | 10BL157 947, 10WA11 3186 | Spear | Private | Domestic | Domestic | | 12/03/1997 | 5.00 | 5.00 | | | | | 1765m | North East |
| GW100 813 | 10BL158 314, 10WA11 3035 | Spear | Private | Domestic | Domestic | | 25/11/1994 | 10.98 | 10.98 | Good | 7.93 | 0.800 | | 1767m | North East |
| GW026 788 | 10BL016 246 | Spear | Private | Industrial | Industrial | | 01/11/1965 | 20.40 | 20.40 | | | | | 1777m | South East |
| GW106 146 | 10BL157 073, 10WA11 3108 | Spear | Private | Domestic | Domestic | | 14/08/1995 | 5.79 | 5.79 | Good | | 0.800 | | 1782m | East |
| GW100 493 | 10BL157 767, 10WA11 3175 | Spear | Private | Domestic | Domestic | | 08/11/1996 | 9.75 | 9.75 | Fresh | 5.80 | | | 1788m | North East |
| GW112 267 | 10BL161 855 | Bore | Private | Monitoring Bore | Monitoring Bore | | 20/03/2003 | 12.12 | 12.12 | | | | | 1798m | West |
| GW109 255 | 10BL602 488 | Bore | Private | Monitoring Bore | Monitoring Bore | | 21/08/2008 | 7.30 | 7.30 | Fresh | 0.72 | | | 1803m | South East |
| GW046 837 | 10BL107 198 | Bore | Local Govt | Test Bore | Recreation (groundwater) | | 01/11/1970 | 14.80 | 14.80 | | | | | 1806m | South East |
| GW075 022 | | Bore | NSW Office of Water | | Monitoring Bore | BOTANY BOREFIELD AT BORALEE PARK | 14/07/1998 | 15.75 | 16.75 | | 1.77 | | 8.45 | 1816m | South East |
| GW026 482 | 10BL018 809 | Spear | Private | Domestic | General Use | | 01/01/1966 | 5.40 | 5.50 | Good | | | | 1819m | North East |
| GW109 253 | 10BL602 488 | Bore | Private | Monitoring Bore | Monitoring Bore | | 21/08/2008 | 10.30 | 10.30 | Fresh | 1.42 | | | 1820m | South East |
| GW109 254 | 10BL502 488 | Bore | Private | Monitoring Bore | Monitoring Bore | | 21/08/2008 | 9.70 | 9.70 | Fresh | 1.03 | | | 1822m | South East |
| GW110 909 | 10BL603 566 | Well | Private | Monitoring Bore | Monitoring Bore | | 19/01/2010 | 5.80 | 5.80 | | 2.50 | | | 1829m | South |
| GW104 040 | 10BL159 958 | Bore | | Monitoring Bore | Monitoring Bore | | 10/11/2000 | 7.00 | 7.00 | | 2.80 | | | 1859m | East |
| GW101 215 | 10BL158 280, 10WA11 3217 | Spear | Private | Domestic | Domestic | | 24/11/1997 | 7.62 | 7.62 | Good | | 1.000 | | 1862m | East |
| GW104 039 | 10BL159 958 | Bore | | Monitoring Bore | Monitoring Bore | | 10/11/2000 | 7.00 | 7.00 | | 2.80 | | | 1864m | East |
| GW107 233 | 10BL161 832, 10CA11 4693 | Bore | | Irrigation, Recreation (groundwater) | Irrigation, Recreation (groundwater) | | 28/06/2005 | 21.50 | 21.50 | | 0.37 | 11.000 | | 1879m | South East |
| GW047 122 | 10BL105 036, 10WA11 4677 | Bore | Local Govt | Recreation (groundwater) | Recreation (groundwater) | | 01/11/1970 | 19.50 | 19.50 | | | | | 1882m | South East |
| GW112 275 | 10BL161 855 | Bore | Private | Monitoring Bore | Monitoring Bore | | 27/02/2003 | 16.50 | 16.50 | | | | | 1888m | West |
| GW026 787 | 10BL016 247 | Spear | Private | Industrial | Industrial | | 01/10/1965 | 24.80 | 24.80 | | | | | 1895m | South East |

| GW No. | License No | Work Type | Owner Type | Authorised Purpose | Intended Purpose | Name | Complete Date | Final Depth (m) | Drilled Depth (m) | Salinity (mg/L) | SWI (m) | Yield (L/s) | Elev (AHD) | Dist | Dir |
|-----------|--------------------------|------------|------------|--------------------|------------------|------|---------------|-----------------|-------------------|-----------------|---------|-------------|------------|-------|------------|
| GW112 266 | 10BL161 855 | Bore | Private | Monitoring Bore | Monitoring Bore | | 19/03/2003 | 10.37 | 10.37 | | | | | 1897m | West |
| GW017 195 | 10BL008 550, 10WA11 2795 | Spear | Private | Domestic | General Use | | 01/12/1957 | 3.30 | 3.40 | Good | | | | 1904m | East |
| GW114 562 | 10BL605 489 | Bore | Other Govt | Monitoring Bore | Monitoring Bore | SCA | 06/12/2013 | 4.00 | 2.70 | 448 | 2.51 | | | 1912m | North |
| GW114 561 | 10BL605 489 | Bore | Other Govt | Monitoring Bore | Monitoring Bore | SCA | 06/12/2013 | 4.00 | 4.00 | 529 | 2.92 | | | 1917m | North |
| GW102 741 | 10BL159 434, 10WA11 3288 | Bore | | Domestic | Domestic | | 28/10/1999 | 7.00 | 7.00 | | | | | 1919m | East |
| GW072 958 | | Bore | Private | | Domestic | | 14/08/1995 | 5.00 | 5.00 | | | | | 1920m | East |
| GW113 192 | 10BL605 409 | Bore | Private | Monitoring Bore | Monitoring Bore | | 05/07/2013 | 5.30 | 5.30 | | | | | 1920m | North East |
| GW110 910 | 10BL603 566 | Well | Private | Monitoring Bore | Monitoring Bore | | 19/01/2010 | 6.00 | 6.00 | | 3.00 | | | 1921m | South |
| GW109 542 | 10BL601 927 | Bore | Private | Monitoring Bore | Monitoring Bore | | 20/07/2007 | 6.00 | | | | | | 1923m | South East |
| GW024 377 | 10BL018 538, 10WA11 2954 | (Unkn own) | Private | Domestic | General Use | | 01/07/1986 | 4.50 | 4.60 | | | | | 1925m | East |
| GW100 825 | 10BL157 608, 10WA11 3169 | Spear | Private | Domestic | Domestic | | 23/04/1996 | 7.01 | 7.02 | Good | 4.88 | 1.000 | | 1927m | East |
| GW114 563 | 10BL605 489 | Bore | Other Govt | Monitoring Bore | Monitoring Bore | SCA | 06/12/2013 | 4.00 | 3.90 | 591 | | | | 1928m | North |
| GW110 427 | 10BL160 571 | Bore | Private | Monitoring Bore | Monitoring Bore | | 13/02/2002 | 7.00 | 7.00 | | | | | 1929m | East |
| GW109 541 | 10BL601 927 | Bore | Private | Monitoring Bore | Monitoring Bore | | 20/07/2007 | 6.00 | | | | | | 1934m | South East |
| GW112 271 | 10BL161 855 | Bore | Private | Monitoring Bore | Monitoring Bore | | 07/03/2003 | 19.51 | 19.51 | | | | | 1935m | West |
| GW110 428 | 10BL160 571 | Bore | Private | Monitoring Bore | Monitoring Bore | | 12/02/2002 | 4.00 | 4.00 | | | | | 1937m | East |
| GW110 906 | 10BL603 567 | Well | Private | Monitoring Bore | Monitoring Bore | | 19/01/2010 | 5.80 | 5.80 | | 3.50 | | | 1938m | South |
| GW109 540 | 10BL601 927 | Bore | Private | Monitoring Bore | Monitoring Bore | | 20/07/2007 | 6.00 | | | | | | 1939m | South East |
| GW109 538 | 10BL601 927 | Bore | Private | Monitoring Bore | Monitoring Bore | | 20/07/2007 | 6.00 | | | | | | 1942m | South East |
| GW072 479 | 10BL156 279, 10WA11 3028 | Bore | Private | Domestic | Domestic | | 21/11/1994 | 5.80 | 5.80 | | 2.60 | 1.000 | | 1943m | East |
| GW110 430 | 10BL160 571 | Bore | Private | Monitoring Bore | Monitoring Bore | | 12/02/2002 | 4.00 | 4.00 | | | | | 1944m | East |
| GW110 429 | 10BL160 571 | Bore | Private | Monitoring Bore | Monitoring Bore | | 12/02/2002 | 4.00 | 4.00 | | | | | 1946m | East |
| GW109 537 | 10BL601 927 | Bore | Private | Monitoring Bore | Monitoring Bore | | 08/02/2006 | 6.00 | | | | | | 1948m | South East |
| GW101 445 | 10BL158 450, 10WA11 3242 | Spear | Private | Domestic | Domestic | | 08/01/1998 | 6.00 | 6.00 | | | | | 1950m | East |
| GW110 431 | 10BL160 571 | Bore | Private | Monitoring Bore | Monitoring Bore | | 12/02/2002 | 5.00 | 5.00 | | | | | 1952m | East |
| GW110 911 | 10BL603 566 | Well | Private | Monitoring Bore | Monitoring Bore | | 19/01/2010 | 6.00 | 6.00 | | 3.20 | | | 1954m | South |
| GW113 191 | 10BL605 409 | Bore | Private | Monitoring Bore | Monitoring Bore | | 05/07/2013 | 8.00 | 8.00 | | | | | 1954m | North East |
| GW104 570 | 10BL161 119, 10WA11 3327 | Bore | | Domestic | Domestic | | 09/12/2002 | 6.50 | 6.50 | | | | | 1955m | East |

| GW No. | Licence No | Work Type | Owner Type | Authorised Purpose | Intended Purpose | Name | Complete Date | Final Depth (m) | Drilled Depth (m) | Salinity (mg/L) | SWI (m) | Yield (L/s) | Elev (AHD) | Dist | Dir |
|-----------|--------------------------|-----------|------------|--------------------|------------------|------|---------------|-----------------|-------------------|-----------------|---------|-------------|------------|-------|------------|
| GW109 536 | 10BL601 927 | Bore | Private | Monitoring Bore | Monitoring Bore | | 24/01/2006 | 6.00 | | | | | | 1955m | South East |
| GW072 897 | | Spear | Private | | Domestic | | 10/12/1994 | 5.80 | 5.80 | Good | | | | 1956m | East |
| GW109 535 | 10BL601 927 | Bore | Private | Monitoring Bore | Monitoring Bore | | 25/01/2006 | 6.00 | | | | | | 1961m | South East |
| GW112 274 | 10BL161 855 | Bore | Private | Monitoring Bore | Monitoring Bore | | 26/02/2003 | 13.70 | 13.70 | | | | | 1962m | West |
| GW104 747 | 10BL156 760, 10WA11 3076 | Bore | Private | Domestic | Domestic | | 01/01/1995 | 5.49 | 5.48 | | | | | 1963m | East |
| GW104 032 | 10BL159 958 | Bore | | Monitoring Bore | Monitoring Bore | | 08/11/2000 | 7.00 | 7.00 | | 2.00 | | | 1965m | East |
| GW104 031 | 10BL159 958 | Bore | | Monitoring Bore | Monitoring Bore | | 08/11/2000 | 7.00 | 7.00 | | 2.00 | | | 1965m | East |
| GW104 035 | 10BL159 958 | Bore | | Monitoring Bore | Monitoring Bore | | 09/11/2000 | 7.00 | 7.00 | | 2.00 | | | 1965m | East |
| GW104 034 | 10BL159 958 | Bore | | Monitoring Bore | Monitoring Bore | | 09/11/2000 | 7.00 | 7.00 | | 2.00 | | | 1965m | East |
| GW104 033 | 10BL159 958 | Bore | | Monitoring Bore | Monitoring Bore | | 08/11/2000 | 4.00 | 4.00 | | 2.00 | | | 1965m | East |
| GW104 038 | 10BL159 958 | Bore | | Monitoring Bore | Monitoring Bore | | 10/11/2000 | 4.00 | 4.00 | | 2.00 | | | 1965m | East |
| GW104 036 | 10BL159 958 | Bore | | Monitoring Bore | Monitoring Bore | | 09/11/2000 | 7.00 | 7.00 | | 2.00 | | | 1965m | East |
| GW104 037 | 10BL159 958 | Bore | | Monitoring Bore | Monitoring Bore | | 09/11/2000 | 4.00 | 4.00 | | 2.00 | | | 1965m | East |
| GW109 534 | 10BL601 927 | Bore | Private | Monitoring Bore | Monitoring Bore | | 27/01/2006 | 6.00 | | | | | | 1967m | South East |
| GW023 164 | 10BL016 801, 10WA11 2846 | Bore | Private | Domestic | General Use | | 01/01/1960 | 3.60 | 3.70 | Good | | | | 1969m | South East |
| GW110 414 | 10BL160 571 | Bore | Private | Monitoring Bore | Monitoring Bore | | 13/02/2002 | 4.00 | 4.00 | | | | | 1971m | East |
| GW112 272 | 10BL161 855 | Bore | Private | Monitoring Bore | Monitoring Bore | | 03/03/2003 | 14.84 | 14.84 | | | | | 1973m | West |
| GW024 694 | 10BL018 847, 10WA11 2970 | Bore | Private | Domestic | General Use | | 01/08/1966 | 3.00 | 3.00 | Good | | | | 1976m | East |
| GW013 514 | 10BL008 711 | Spear | Private | Industrial | Industrial | | 01/03/1958 | 9.10 | 9.10 | Good | | | | 1978m | North East |
| GW105 897 | 10BL162 078, 10WA11 3346 | Bore | | Domestic | | | 12/05/2005 | | | | | | | 1980m | East |
| GW109 539 | 10BL601 927 | Bore | Private | Monitoring Bore | Monitoring Bore | | 06/11/2008 | 6.00 | | | | | | 1981m | South East |
| GW109 533 | 10BL601 927 | Bore | Private | Monitoring Bore | Monitoring Bore | | 30/01/2006 | 6.00 | | | | | | 1982m | South East |
| GW103 708 | 10BL160 084, 10WA11 3301 | Bore | | Domestic | Domestic | | 26/04/2001 | 6.00 | 6.00 | | | | | 1985m | East |
| GW017 720 | 10BL008 578 | Bore | Private | Industrial | Industrial | | 01/10/1956 | 20.40 | 20.40 | | | | | 1991m | South East |
| GW100 674 | 10BL156 858, 10WA11 3079 | Spear | Private | Domestic | Domestic | | 21/08/1995 | 5.49 | 5.49 | Good | | 1.000 | | 1995m | East |

Borehole Data Source : NSW Department of Primary Industries - Office of Water / Water Administration Ministerial Corporation for all bores prefixed with GW. All other bores © Commonwealth of Australia (Bureau of Meteorology) 2015. Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Hydrogeology & Groundwater

146-154 O'Riordan Street, Mascot, NSW 2020

Driller's Logs

Drill log data relevant to the boreholes within the dataset buffer:

| Groundwater No | Drillers Log | Distance | Direction |
|----------------|--|----------|------------|
| GW027749 | 0.00m-2.43m Sand 2.43m-5.18m Sand Peaty 5.18m-5.79m Peat Sandy 5.79m-8.22m Sand Very Dirty Peaty 8.22m-10.97m Peat Small 8.22m-10.97m Clay 10.97m-16.15m Sand White Water Supply 16.15m-16.45m Clay White Puggy | 141m | North East |
| GW024068 | 0.00m-1.52m Loam Light Sandy 1.52m-2.13m Loam Dark Brown 2.13m-2.74m Loam Sandy Water Supply 2.74m-3.35m Loam Dark Brown 3.35m-4.26m Sand | 180m | East |
| GW027750 | 0.00m-4.57m Sand Dry 4.57m-10.97m Sand Water Supply 10.97m-11.28m Clay Sandy Pete 11.28m-12.80m Sand Grey Slightly Peaty Water Supply 12.80m-14.63m Sand Very Dirty Pete Water Supply 14.63m-15.84m Sand Peaty Water Supply 15.84m-17.37m Sand Grey Clay Pete Water Supply 17.37m-17.38m Clay Sandy | 180m | North East |
| GW075024 | 0.00m-4.00m PEATY SAND, BLACK 4.00m-9.00m SAND, FINE COFFEE BROWN 9.00m-11.00m PEATY SAND, DARK BROWN 11.00m-15.50m SILTY SAND, MED GRAINED, GREY 15.50m-19.00m SANDY CLAY, DARK GREY | 211m | North East |
| GW072901 | 0.00m-7.00m Peaty Sand Fine To Medium | 229m | East |
| GW104902 | 0.00m-7.10m UNCONSOLIDATED ALL SANDS | 277m | South East |
| GW102169 | 0.00m-0.10m Fill: Light brown/red Silty Sand, dry 0.10m-1.80m Fill: Dark brown Clayey Sand, moist, with plastic, wire, steel fragments 1.80m-2.50m Light Grey Clayey Sand, wet 2.50m-3.50m Dark grey Clayey Sand, wet, some Silt and Peat 3.50m-4.50m Dark brown Sand, wet, with Silt and Peat | 317m | South West |
| GW102171 | 0.00m-0.30m Fill: Brown/red Sand, some Silt 0.30m-0.80m Fill: Dark brown Sand, some Silt, wire, Clay, pipe and metal fragments 0.80m-1.70m Fill: Grey Clayey Sand, moist 1.70m-3.70m Dark grey/brown Silty Sand, wet, some Clay and Silt 3.70m-5.00m Dark Grey Silty Sand, some Peat | 317m | South West |
| GW102173 | 0.00m-0.70m Fill: Brown/red Silty Sand, dry, steel, rock and glass fragments 0.70m-1.00m Dark brown Sand, moist, some Silt and Peat 1.00m-2.20m Light brown Sand, moist, some Silt and Peat 2.20m-3.40m Dark grey Clayey Sand, some Silt and Clay 3.40m-4.50m Dark grey Sand, wet, some Silt and Peat | 317m | South West |
| GW102178 | 0.00m-0.17m Concrete 0.17m-2.70m Fill: Dark grey/black Sand, concrete fragments, timber and sandstone fragments 2.70m-3.50m Dark brown/grey Clayey Sand, moist, with Silt and Peat. 3.50m-4.40m Dark brown/grey Sand, wet, some Silt and Peat | 317m | South West |
| GW102184 | 0.00m-2.40m Fill: Dark grey/black Sand, moist, some rock, glass asbestos fragments 2.40m-3.40m Dark brown/red Clayey Sand, moist, some Silt and Peat 3.40m-4.20m Dark grey/black Sand, wet, some Silt and Peat | 317m | South West |
| GW102186 | 0.00m-0.19m Concrete 0.19m-2.70m Fill: Dark brown/red Sand, moist, concrete brick and asbestos fragments 2.70m-3.70m Dark brown/black Sand, wet, some Silt and Peat 3.70m-4.20m Light brown Sand, wet, some Silt and Peat | 317m | South West |

| Groundwater No | Drillers Log | Distance | Direction |
|----------------|--|----------|------------|
| GW102188 | 0.00m-0.20m Concrete 0.20m-2.70m Fill: Dark brown/red Sand, moist, rock fragments 2.70m-4.00m Dark grey/black Sand, moist, some Silt and Peat | 317m | South West |
| GW102190 | 0.00m-0.17m Concrete 0.17m-2.70m Fill: Dark brown/grey Sand, moist, glass and Sandstone fragments 2.70m-3.60m Black Peaty Clay, moist, some Sand 3.60m-4.00m Dark brown Sand, wet, some Silt and Peat | 317m | South West |
| GW102191 | 0.00m-0.22m Concrete 0.22m-2.70m Fill: Dark grey/black Sand, moist, rock and metal fragments 2.70m-4.00m Dark brown/grey Sand, some Silt and Peat | 317m | South West |
| GW102192 | 0.00m-0.22m Concrete 0.22m-2.50m Fill: Brown/grey Sand, moist, rocks and steel fragments 2.50m-3.20m Black Peaty Clay, moist, some Sand 3.20m-4.00m Brown/black Sand, wet, some Silt and Peat | 317m | South West |
| GW102193 | 0.00m-0.17m Concrete 0.17m-2.60m Fill: Dark brown Sand, moist, rocks and concrete fragments 2.60m-3.90m Dark brown/black Sand, moist, some Silt and Peat | 317m | South West |
| GW102194 | 0.00m-0.19m Concrete 0.19m-2.40m Fill: Dark brown Sand, rock and concrete fragments 2.40m-3.00m Dark grey/black Clayey Sand, moist, some Silt and Peat 3.00m-3.70m Dark brown Sand, wet, some Silt and Peat | 317m | South West |
| GW102197 | 0.00m-0.16m Concrete 0.16m-2.30m Fill: Light and dark brown Sand, moist, concrete and rock fragments 2.30m-3.60m Dark brown/grey Sand, moist, some Silt and Peat | 317m | South West |
| GW102198 | 0.00m-0.15m Concrete 0.15m-2.30m Fill: Dark brown/black Sand, moist, some Clay and rubble 2.30m-3.10m Dark brown/grey Sand, moist, some Silt, Clay and Peat 3.10m-3.50m Black Peaty Clay, moist, some Sand | 317m | South West |
| GW102205 | 0.00m-2.20m Fill: Dark brown Sand, moist, wire, timber, and metal fragments 2.20m-3.30m Dark brown/grey Sand, moist, some Silt and Peat | 317m | South West |
| GW102160 | 0.00m-0.15m Concrete 0.15m-1.50m Fill: dark brown/grey, moist Sand, file and metal fragments 1.50m-2.80m Fill: Kinker ash, dark grey, moist, loose 2.60m-3.80m Dark brown/grey Sandy Clay, moist, some ash 3.80m-5.00m Dark brown Sand, wet, some peat | 318m | South West |
| GW102162 | 0.00m-0.15m Concrete 0.15m-2.50m Fill: Dark grey/black Sand, Silt, and Concrete fragments 2.50m-3.70m Dark brown/grey Clayey Sand, with Silt 3.70m-5.00m Dark brown/grey Sand, wet, some Silt and Peat | 318m | South West |
| GW102164 | 0.00m-0.15m Concrete 0.15m-2.60m Fill: Dark brown/grey Sand, some metal, rock, brick 2.60m-3.80m Dark brown/grey Clayey Sand, wet, some Silt and Clay 3.80m-5.00m Dark brown/black Sand, wet, some Silt and Peat | 318m | South West |
| GW102165 | 0.00m-0.10m Concrete 0.10m-0.70m Fill: Dark brown/grey Sand, moist, glass fragments 0.70m-2.60m Fill: Light brown/red Sand, moist, some Sandstone 2.60m-4.20m Black Peaty Clay, moist, some Sand 4.20m-5.00m Dark brown Sand, wet, some Silt and Peat | 318m | South West |
| GW102168 | 0.00m-0.10m Concrete 0.10m-0.80m Fill: Dark brown/grey Sandy Clay, moist, some brick and rock fragments 0.80m-2.40m Fill: Sandstone boulders 2.40m-3.20m Black Peaty Clay, moist 3.20m-5.00m Brown/black Sand, wet, some Silt and Peat | 318m | South West |
| GW102172 | 0.00m-0.70m Fill: Dark brown/grey Sandy Clay, moist, rock fragments 0.70m-1.80m Dark brown/grey Silty Sand, moist 1.80m-2.80m Light brown Sand, some Silt and Peat 2.80m-4.50m Dark grey/brown Sand, wet, some Silt and Peat | 318m | South West |
| GW102176 | 0.00m-0.10m Fill: Light brown/grey Sand, dry, some Silt 0.10m-0.70m Fill: Dark brown Sand, dry, steel, broken concrete 0.70m-2.20m Dark brown Sand, some Silt 2.20m-2.90m Light brown Sand, moist, some Peat 2.90m-3.40m Dark grey Clayey Sand, wet, some Silt and Peat 3.40m-4.50m Dark grey Sand, wet, some Silt and Peat | 318m | South West |
| GW102185 | 0.00m-0.16m Concrete 0.16m-2.70m Fill: Dark grey Sand, moist, rock and brick fragments 2.70m-3.60m Dark grey/black Sand, moist, some Silt and Peat 3.60m-4.20m Light brown Sand, wet, some Silt and Peat | 318m | South West |

| Groundwater No | Drillers Log | Distance | Direction |
|----------------|--|----------|------------|
| GW102187 | 0.00m-0.22m Concrete 0.22m-2.80m Fill: Grey/brown Sand, moist, Sandstone fragments and timber 2.80m-3.70m Dark brown/black Sand, moist, some Silt and Peat 3.70m-4.20m Light brown Sand, wet, some Silt and Peat | 318m | South West |
| GW102189 | 0.00m-0.20m Concrete 0.20m-2.70m Fill: Dark brown/red Sand, moist, brick and rock fragments 2.70m-3.50m Dark brown/black Clayey Sand, moist, some Silt and Peat 3.50m-4.00m Dark brown/black Sand, wet, some Silt and Peat. | 318m | South West |
| GW102195 | 0.00m-0.15m Concrete 0.15m-2.40m Fill: Light and dark brown Sandy Clay, rubble 2.40m-3.60m Dark grey/black Sandy Clay, wet, sheen on soil | 318m | South West |
| GW102196 | 0.00m-0.12m Concrete 0.12m-2.40m Fill: Dark brown/grey Sand, moist, brick and concrete fragments 2.40m-3.60m Dark brown Sand, wet, some Clay, Silt and Peat | 318m | South West |
| GW102199 | 0.00m-0.15m Concrete 0.15m-2.30m Fill: Dark brown/grey Sand, moist, clay, brick, and rock fragments 2.30m-3.00m Dark brown Clayey Sand, moist, some Silt and Peat 3.00m-3.50m Dark grey/brown Sand, wet, some Silt and Peat | 318m | South West |
| GW102200 | 0.00m-0.16m Concrete 0.16m-1.50m Fill: Rippled Sandstone with metal and brick fragments 1.50m-2.30m Dark brown/black Sand, moist, some Silt and Peat 2.30m-3.50m Light brown/grey Sand, wet, some Silt and Peat | 318m | South West |
| GW102201 | 0.00m-1.20m Fill: Dark brown/grey Sandy Clay, moist, rock fragments 1.20m-2.70m Light brown Sand, moist, some Silt and Peat 2.70m-3.50m Brown/grey Sand, wet, some Silt and Peat | 318m | South West |
| GW102203 | 0.00m-1.20m Fill: Dark brown Sand, brick and metal fragments 1.20m-2.70m Light brown Sand, moist, some Silt and Peat 2.70m-3.50m Dark brown/grey Sand, wet, some Silt and Peat | 318m | South West |
| GW102204 | 0.00m-2.20m Fill: Dark brown/red Sand, moist, metal, wire, and Sandstone fragments 2.20m-3.30m Dark brown/grey Sand, moist, some Silt and Peat | 318m | South West |
| GW101350 | 0.00m-5.90m SAND, FINE TO MEDIUM GRAINED | 326m | South West |
| GW101351 | 0.00m-5.05m SAND, SILTY PEATY, WITH TRACES OF CLAY | 326m | South West |
| GW101352 | 0.00m-5.70m SAND, SILTY, PEATY | 326m | South West |
| GW101353 | 0.00m-6.00m SAND FINE TO MEDIUM GRAINED, TRACE OF SILT | 326m | South West |
| GW101354 | 0.00m-6.00m SAND, FINE TO MEDIUM GRAINED WITH SOME SILT | 326m | South West |
| GW101355 | 0.00m-6.00m SAND, SILTY PEATY WITH TRACE OF CLAY | 326m | South West |
| GW101356 | 0.00m-5.60m SAND, silty, peaty with traces of clay and some thin peat lenses | 326m | South West |
| GW101357 | 0.00m-5.90m SAND, FINE TO MEDIUM GRAINED, TRACE OF SILT | 326m | South West |
| GW101358 | 0.00m-6.00m SAND, FINE TO MEDIUM GRAINED | 326m | South West |
| GW101359 | 0.00m-6.00m SAND, FINE TO MEDIUM GRAINED WITH SOME SILT, SOME PEAT LENSES | 326m | South West |
| GW101360 | 0.00m-6.00m SAND, FINE TO MEDIUM GRAINED, TRACE OF SILT SOME PEAT LENSES | 326m | South West |
| GW101361 | 0.00m-4.30m SAND, FINE TO MEDIUM GRAINED WITH SOME SILT | 326m | South West |
| GW101362 | 0.00m-5.90m SAND, FINE TO MEDIUM GRAINED | 326m | South West |
| GW103588 | 0.00m-7.00m SAND | 386m | North East |
| GW027248 | 0.00m-1.21m Topsoil 0.00m-1.21m Loam Sandy 1.21m-3.04m Sand 3.04m-4.87m Sand Slightly Silty Water Supply | 408m | North West |
| GW112651 | 0.00m-6.00m SAND LIGHT M/GRAIN | 416m | North West |
| GW104334 | 0.00m-0.30m TOPSOIL: SILTY SAND 0.30m-3.50m SAND | 420m | South |

| Groundwater No | Drillers Log | Distance | Direction |
|----------------|---|----------|------------|
| GW104333 | 0.00m-0.20m TOPSOIL/SILTY SAND 0.20m-0.90m FILL GRAVELLY SAND 0.90m-3.50m SAND: CLAYEY PEATY SAND | 430m | South |
| GW104335 | 0.00m-0.10m PAVEMENT: CONCRETE 0.10m-0.80m FILL: SILTY SAND 0.80m-1.80m BOTANY SAND: SILTY SAND 1.80m-3.50m BOTANY SAND: SAND | 430m | South |
| GW104336 | 0.00m-0.10m PAVEMENT: CONCRETE 0.10m-0.60m FILL: GRAVELLY CLAYEY SAND 0.60m-1.00m BOTANY SAND: SAND 1.00m-2.80m BOTANY SAND: CLAY/PEAT 2.80m-3.50m BOTANY SAND: SAND | 445m | South |
| GW104337 | 0.00m-0.10m PAVEMENT: CONCRETE AND BRICK 0.10m-3.50m BOTANY SAND: SAND | 457m | South |
| GW013515 | 0.00m-8.22m Sand | 460m | North East |
| GW047123 | 0.00m-1.52m Soil Black Sandy 1.52m-10.06m Sand Peat Water Supply 10.06m-10.67m Peat Sand 10.67m-14.94m Sand Some Peat Water Supply, Traces Clay 14.94m-15.24m Peat Sand 15.24m-18.29m Sand Some Peat Water Supply 18.29m-18.90m Peat Sand 18.90m-18.91m Clay Grey | 465m | East |
| GW103705 | 0.00m-0.15m CONCRETE PAVEMENT 0.15m-0.70m SAND: MEDIUM BROWN /ROCKS AND GLASS 0.70m-1.60m SAND: WHITE NATURAL MATERIAL 1.60m-4.70m SAND: VERY DARK BROWN | 471m | South East |
| GW103706 | 0.00m-0.11m CONCRETE SLAB 0.11m-0.26m FILL 0.26m-0.36m CONCRETE SLAB 0.36m-0.50m SAND: BROWN 0.50m-1.60m SAND: YELLOW-BROWN 1.60m-2.40m LOAMY SAND: DARK BROWN 2.40m-3.40m SANDY LOAM: VERY DARK BROWN 3.40m-4.30m SANDY LOAM: DARK GREY | 471m | South East |
| GW103707 | 0.00m-0.90m SAND: ORANGE BROWN 0.90m-1.20m SAND: RED 1.20m-1.50m SAND: SHARP BOUNDARY PALE IN COLOUR 1.50m-1.70m SAND: GREY 1.70m-2.10m SAND: WHITE 2.10m-2.30m LOAMY SAND 2.30m-2.80m LOAMY SAND: PALER RED BROWN 2.80m-4.20m SAND: YELLOW-GREY | 471m | South East |
| GW104338 | 0.00m-0.10m PAVEMENT: CONCRETE 0.10m-0.80m FILL: GRAVELLY SAND 0.80m-1.60m BOTANY SAND: SAND 1.60m-3.50m BOTANY SAND: CLAYEY PEATY SAND | 471m | South |
| GW104988 | 0.00m-7.00m SAND | 488m | North East |
| GW033372 | 0.00m-0.91m Made Ground 0.91m-3.04m Sand 3.04m-4.57m Sand Wet 4.57m-5.18m Peat 5.18m-5.79m Sand Peaty Water Supply 5.79m-6.70m Sand Grey Clay Seams 6.70m-9.14m Sand Peat 9.14m-9.60m Sand Water Supply 9.60m-11.58m Sand Peat Water Supply 11.58m-11.88m Clay Stiff Peaty | 558m | South |
| GW033371 | 0.00m-0.91m Made Ground 0.91m-4.26m Sand 4.26m-4.41m Sand Peat Water Supply 4.41m-5.02m Clay Peaty 5.02m-6.09m Sand Peat Water Supply 6.09m-8.83m Sand Water Supply 8.83m-9.75m Clay Yellow Sandy 9.75m-10.07m Sand Water Supply Peat Fine 10.07m-11.58m Peat Sandy 11.58m-11.88m Clay Peaty | 559m | South |
| GW100484 | 0.00m-0.30m CONCRETE 0.30m-2.50m FILL 2.50m-4.00m NATURAL SANDS | 569m | North East |

| Groundwater No | Drillers Log | Distance | Direction |
|----------------|---|----------|------------|
| GW031808 | 0.00m-0.15m Sand Dark Brown Light Brown 0.15m-5.63m Sand Yellow Fine 0.15m-5.63m Clay Yellow 5.63m-6.55m Sand 5.63m-6.55m Clay Black Silty 6.55m-6.85m Sand Black 6.55m-6.85m Clay Black 6.85m-8.38m Sand 8.38m-9.14m Clay 9.14m-9.90m Sand Yellow Fine Water Supply 9.90m-11.12m Sand Grey 9.90m-11.12m Clay Grey Fossils/wood Water Supply 11.12m-11.43m Sand Black 11.12m-11.43m Clay Black 11.43m-11.58m Clay Black 11.58m-11.88m Sand Grey Clayey 11.88m-12.80m Sand 11.88m-12.80m Clay Water Supply 12.80m-12.95m Clay Grey Dry 12.80m-12.95m Sand Grey 12.95m-14.17m Clay White Light Grey Sandy 14.17m-16.15m Clay Grey Yellow Red 16.15m-18.28m Clay Dark Grey Stiff | 581m | South |
| GW024655 | 0.00m-1.21m Ash Rubble 1.21m-2.43m Sand Peaty 2.43m-5.48m Peat Black 5.48m-7.92m Sand Peaty 5.48m-7.92m Clay Seams Water Supply 7.92m-9.14m Sand Grey Clean Water Supply | 582m | South |
| GW114857 | 0.00m-0.21m CONCRETE 0.21m-2.20m FILL CLAYEY SILTY SAND DARK BROWN,TRACE OF SANDSTONE 2.20m-2.80m SAND, FINE TO MED. GRAINED 2.80m-4.20m CLAYEY SILTY SAND, FINE GRAINED 4.20m-6.00m SAND,FINE TO MEDIUM GRAINED YELLOW AND GREY BROWN | 509m | North East |
| GW107976 | 0.00m-0.70m topsoil, fill 0.70m-2.00m sand, loose 2.00m-2.50m sandy, coarse 2.50m-3.50m sand, peaty | 642m | North East |
| GW015954 | 0.00m-0.30m Made Ground 0.30m-1.62m Sand White Fine 1.62m-5.10m Sand Fine 5.10m-5.18m Peat 5.18m-5.70m Sand Fine 5.70m-6.78m Peat 6.78m-8.22m Sand Fine Water Supply 8.22m-8.61m Peat 8.61m-10.97m Sand Dark Brown Fine Water Supply 10.97m-11.12m Peat 11.12m-12.80m Sand Dark Brown Fine Water Supply 12.80m-13.71m Sand Fine Water Supply 13.71m-13.79m Peat 13.79m-16.15m Sand Dark Grey Fine Water Supply 16.15m-17.98m Sand Dark Brown Fine Water Supply 17.98m-19.20m Sand Dark Grey Water Supply 19.20m-19.50m Clay Dark Grey 19.50m-19.81m Sand Clay 19.81m-20.11m Clay | 567m | North |
| GW023525 | 0.00m-2.43m Sand 2.43m-3.04m Sand Hard Cemented 3.04m-5.94m Sand Water Supply | 669m | South East |
| GW013331 | 0.00m-1.52m Sand Yellow Loamy 1.52m-7.92m Sand Peaty Dirty 7.92m-10.36m Sand Dirty Water Supply 10.36m-10.66m Wood Peaty 10.66m-12.19m Sand Peaty Water Supply 12.19m-12.49m Clay Sandy 12.49m-14.94m Sand Dark Peat Water Supply | 670m | North |
| GW047525 | 0.00m-0.61m Peat Sandy 0.61m-1.52m Sand Peaty 1.52m-4.27m Sand Dirty Water Supply 4.27m-6.25m Sand Indurated Water Supply 6.25m-12.65m Sand Dirty Water Supply 12.65m-12.95m Clay Soft Sandy Water Supply 12.95m-13.87m Sand Grey Some Clay Water Supply 13.87m-17.07m Sand Grey Dirty Water Supply Wood Decomposed 17.07m-19.20m Clay Grey Peaty Sandy 19.20m-19.35m Sandstone | 756m | North East |

| Groundwater No | Drillers Log | Distance | Direction |
|----------------|---|----------|------------|
| GW024374 | 0.00m-5.18m Sand Water Supply | 775m | North East |
| GW104990 | 0.00m-6.00m SAND | 779m | South East |
| GW025994 | 0.00m-0.30m Made Ground 0.30m-4.41m Sand Yellow Moist 4.41m-10.51m Sand Grey Water Supply 10.51m-13.25m Sand Grey White Water Supply | 789m | South East |
| GW024036 | 0.00m-6.09m Sand | 873m | South West |
| GW101533 | 0.00m-2.00m FILL, CONCRETE BLOCKS 2.00m-11.00m SAND, BROWN, PEATY 11.00m-13.50m SAND, BLACK, PEATY 13.50m-18.00m SAND, BROWN, W.B. 18.00m-19.50m SAND BROWN WITH GREY CLAY SEAMS. 19.50m-20.00m CLAY DARK BROWN | 915m | North East |
| GW102366 | 0.00m-7.00m SAND | 925m | East |
| GW024244 | 0.00m-1.52m Soil 1.52m-3.04m Water Supply | 936m | East |
| GW101523 | 0.00m-6.10m UNCONSOLIDATED SAND | 949m | East |
| GW101457 | 0.00m-6.00m sand | 962m | East |
| GW017344 | 0.00m-0.76m Made Ground 0.76m-2.43m Sand Grey 2.43m-3.65m Sand Water Supply 3.65m-4.87m Sand Grey 4.87m-7.01m Sand Greasy 7.01m-7.92m Sand Water Supply 7.92m-8.53m Sand Grey Peaty 8.53m-9.29m Sand Clay 9.29m-10.05m Sand Peat Clay 10.05m-10.36m Sand Water Supply 10.36m-11.58m Sand Peaty 11.58m-11.88m Sand 11.88m-12.34m Clay Grey Peaty 12.34m-13.71m Sand Grey Peaty Water Supply 13.71m-13.80m Peat | 999m | South East |
| GW103505 | 0.00m-0.16m CONCRETE 0.16m-0.80m FILL (SILTY SAND) SILT AND GRAVEL 0.80m-1.60m FILL (SILTY SAND) SILT AND SHELLS 1.60m-2.70m SAND, BROWN/ORANGE WITH SILT 2.70m-3.30m SAND, GREY BROWN, MOIST WITH SILT 3.30m-6.00m SAND, BROWN/ORANGE, SOME SILT | 1010m | North East |
| GW103506 | 0.00m-0.17m CONCRETE 0.17m-1.00m FILL (SILTY SAND) SANDSTONE FRAG. 1.00m-1.30m SAND, GREY/MOIST WITH SOME SILT 1.30m-1.80m SAND, BROWN, RED, MOIST, SOME SILT 1.80m-2.30m SAND, WHITE, MOIST 2.30m-3.30m SAND, GREY/BROWN, MOIST SOME SILT 3.30m-6.00m SAND, YELLOW/BROWN, MOIST WITH SILT | 1016m | North East |
| GW103507 | 0.00m-0.16m CONCRETE 0.16m-1.20m FILL (SILTY SAND) SOME GRAVEL, SHELLS 1.20m-1.80m SAND, BROWN AND GREY, SOME SILT 1.80m-2.30m SAND, WHITE, MOIST, FINE GRAINED 2.30m-2.80m SANDY PEAT, DARK BROWN, MOIST, SILT 2.80m-6.00m SILTY SAND, BROWN/ORANGE, WITH SILT | 1018m | North East |
| GW103508 | 0.00m-0.16m CONCRETE 0.16m-0.70m FILL (SILTY SAND) DARK BROWN, MOIST/GRAVEL 0.70m-1.60m FILL (SILTY SAND) SOME CLAY/SANDSTONE 1.60m-3.40m SAND, RED/BROWN, WITH SILT 3.40m-3.80m SAND, YELLOW/BROWN/MOIST WITH SILT 3.80m-6.00m SILTY SAND, DARK BROWN/GREY/SILT | 1016m | North East |
| GW072413 | 0.00m-5.00m SAND | 1020m | East |
| GW103504 | 0.00m-0.50m BITUMEN 0.50m-0.60m FILL (SILTY SAND) GRAVEL/SANDSTONE 0.60m-2.00m FILL (SAND), GRAVEL, SOME ASH AND CLAY 2.00m-2.80m SANDY LOAM, DARK BROWN WITH SILT 2.80m-6.10m SAND, YELLOW, ORANGE, MOIST | 1025m | North East |
| GW107395 | 0.00m-0.40m MOSTLY ASH 0.40m-1.00m SILTY SAND 1.00m-3.50m GRADES TO PALE GREY | 1027m | East |

| Groundwater No | Drillers Log | Distance | Direction |
|----------------|--|----------|------------|
| GW075023 | 0.00m-2.00m PEATY SAND 2.00m-8.00m SAND,FINE GRAINED,YELLOW 8.00m-9.50m SAND,DENSE,FINE,OLIVE GREY 9.50m-11.00m PEATY SAND,DARK BROWN 11.00m-12.00m SAND,GREY 12.00m-14.00m PEATY SAND,DARK BROWN 14.00m-15.00m SANDY PEAT,BLACK 15.00m-19.00m CLAYEY SAND,BROWN 19.00m-26.00m CLAY,DARK GREY | 1048m | South East |
| GW105150 | 0.00m-5.00m SAND | 1049m | East |
| GW107396 | 0.00m-0.30m SILTY SAND 0.30m-1.00m SILTY SAND,MEDIUM DENSITY 1.00m-3.50m GRADES TO PALE GREY BROWN SAT. | 1076m | East |
| GW105987 | 0.00m-7.00m Sand | 1108m | South East |
| GW107397 | 0.00m-0.50m SILTY SAND 0.50m-2.50m SILTY SAND,MEDIUM DENSITY 2.50m-3.60m GRADES TO YELLO/GREY | 1120m | East |
| GW023605 | 0.00m-0.60m Sand Grey 0.60m-4.57m Sand White Water Supply | 1127m | South East |
| GW105117 | 0.00m-0.60m GREY SAND 0.60m-0.80m ROCK 0.80m-3.50m SAND LIGHT BROWN 3.50m-6.30m YELLOW SAND 6.30m-9.80m WHITE SAND 9.80m-9.90m GREY CLAY 9.90m-13.30m GREY SAND 13.30m-14.00m PEATY SAND | 1132m | East |
| GW072643 | 0.00m-2.00m FILL 2.00m-6.50m MEDIUM SANDY GRAVEL 6.50m-7.20m GREY SILTY CLAY W/IL 7.20m-8.50m MEDIUM SAND WB 8.50m-16.00m BROWN SILTY SAND WB 16.00m-12.00m GREY SHALE CLAY | 1215m | North West |
| GW100754 | 0.00m-1.30m FILL 1.30m-13.90m LAYERED SANDS 13.90m-15.40m PEAT 15.40m-18.60m LAYERED SANDS 18.60m-24.80m GREY MARINE CLAY 24.80m-38.20m GREY F/G SANDSTONE CLAY MATRIX 38.20m-47.30m MOIST WHITE F/G S/STONE 47.30m-51.70m YELLOW M/G S/S- CLAY MATRIX 51.70m-54.90m FRACTURE WHITE S/STONE 54.90m-63.70m SHALE 63.70m-68.80m SHALE/QUARTZ/S/S CROSS BED 68.80m-93.20m WHITE M/G S/STONE 93.20m-96.50m SILSTONE 96.50m-101.80m WHITE M/G S/STONE 101.80m-117.20m DARK GREY SHALE 117.20m-130.10m WHITE M/G S/STONE 130.10m-135.00m WHITE M/G S-S QUARTZ MATRIX 135.00m-136.30m SHALE 136.30m-139.50m WHITE M/G S/STONE 139.50m-142.00m FRACTURED GREY S/STONE 142.00m-148.00m GREY M/G S/STONE | 1220m | South |
| GW111321 | 0.00m-0.18m CONCRETE 0.18m-0.90m GRAVELLY CLAYEY SAND,DENSE,MOIST 0.90m-1.60m GRAVEL SILTY DENSE,VERY MOIST 1.60m-2.00m SAND,CLAYEY SAND,GREY,FINE GRAINED 2.00m-5.00m CLAY,SANDY,SOFT L/PLASTICITY,SAND FINE GRAINED | 1222m | North |
| GW100966 | 0.00m-5.50m UNCONSOLIDATED ALL SANDS | 1245m | East |
| GW101477 | 0.00m-6.00m SAND | 1255m | East |
| GW026070 | 0.00m-3.85m Sand | 1263m | East |
| GW023168 | 0.00m-4.57m Sand White Water Supply | 1265m | North East |
| GW023500 | 0.00m-5.48m Sand Water Supply | 1265m | North East |
| GW100852 | 0.00m-6.10m UNCONSOLIDATED ALL SAND | 1266m | North East |

| Groundwater No | Drillers Log | Distance | Direction |
|----------------|---|----------|------------|
| GW104866 | 0.00m-6.71m UNCONSOLIDATED ALL SAND | 1273m | South East |
| GW101475 | 0.00m-6.00m SAND | 1275m | East |
| GW072632 | | 1285m | East |
| GW101787 | 0.00m-5.79m Unconsolidated Sand | 1291m | South East |
| GW109823 | 0.00m-3.00m FILL 3.00m-6.00m CLAYEY SAND 6.00m-8.11m SAND 8.11m-11.50m SANDY CLAY 11.50m-29.00m SHALE | 1298m | North West |
| GW109822 | 0.00m-2.60m FILL 2.60m-3.80m CLAYEY SAND 3.80m-8.20m SAND 8.20m-10.45m CLAY | 1305m | North West |
| GW023472 | 0.00m-0.60m Sand Grey 0.60m-1.52m Sand White 1.52m-1.82m Sand Hard Cemented 1.82m-3.65m Sand Yellow Water Supply | 1307m | East |
| GW111320 | 0.00m-0.18m CONCRETE 0.18m-0.33m SAND, GRAVELLY CLAYEY M/DENSE 0.33m-0.70m SAND, VERY LOOSE MOIST 0.70m-1.50m SAND, CLAYEY MEDIUM DENSE MOIST, DARK BROWN 1.50m-4.00m SAND, LOOSE, VERY MOIST, BROWN 4.00m-4.50m SAND CLAYEY MEDIUM DENSE, GREY/BROWN 4.50m-5.20m CLAY SANDY, SOFT, SATURATED, L/PLASTICITY | 1327m | North |
| GW104922 | 0.00m-7.00m SAND | 1338m | South East |
| GW105152 | 0.00m-5.00m SAND | 1354m | East |
| GW101446 | 0.00m-6.00m SAND | 1356m | East |
| GW072633 | | 1360m | East |
| GW023162 | 0.00m-2.43m Sand White 2.43m-4.87m Loam Water Supply | 1363m | North East |
| GW100053 | 0.00m-0.95m FILL 0.95m-2.12m BROWN PEAT & SAND 2.12m-6.00m WHITESAND (WB) 6.00m-7.00m DARK GREY CLAY | 1385m | North |
| GW072634 | 0.00m-6.10m Unconsolidated Sand | 1395m | South East |
| GW072456 | 0.00m-5.80m UNCONSOLIDATED ALL SAND | 1402m | South East |
| GW023561 | 0.00m-0.91m Sand Black 0.91m-5.48m Sand White Water Supply | 1409m | East |
| GW110457 | 0.00m-0.25m CONCRETE 0.25m-0.90m FILL 0.90m-1.70m SANDY SILT, SILT 1.70m-3.60m SAND | 1415m | North |
| GW023968 | 0.00m-2.43m Sand White 2.43m-4.57m Loam Water Supply | 1419m | East |
| GW100575 | 0.00m-5.00m SAND | 1471m | East |
| GW110456 | 0.00m-0.30m CONCRETE 0.30m-0.50m FILL 0.50m-0.60m CONCRETE 0.60m-1.80m SILTY SAND 1.80m-3.60m SAND | 1474m | North |
| GW110458 | 0.00m-0.70m FILL 0.70m-2.80m SANDS | 1475m | North |
| GW024616 | 0.00m-5.63m Sand Water Supply | 1484m | East |
| GW112603 | 0.00m-1.30m FILL SANDY, GRAVELLY, GRAVEL 1.30m-4.00m SILTY SAND, BROWN/M/GRAINED, WELL GRADED 4.00m-5.00m SILTY SAND, DARK BROWN, FINE TO MED, GRAINED | 1493m | North East |
| GW112600 | 0.00m-0.30m CONCRETE 0.30m-4.60m (Unknown) | 1495m | North East |

| Groundwater No | Drillers Log | Distance | Direction |
|----------------|---|----------|------------|
| GW112602 | 0.00m-1.50m FILL, CLAYEY, GRAVELLY, BROWN DRY TO MOIST 1.50m-5.00m SILTY SAND, BROWN TO D/BROWN WET | 1512m | North East |
| GW101231 | 0.00m-7.00m Sand | 1516m | East |
| GW112598 | 0.00m-0.30m CONCRETE 0.30m-1.30m SANDSTONE CRUSHED 1.30m-3.50m SAND, DARK BROWN, FINE TO MEDIUM GRAINED 3.50m-4.50m SAND MOIST TO WET 4.50m-5.00m SAND BROWN TO LIGHT BROWN, WET | 1525m | North East |
| GW101161 | 0.00m-6.10m UNCONSOLIDATED, ALL SAND | 1526m | East |
| GW112599 | 0.00m-0.30m CONCRETE 0.30m-0.80m GRAVELLY SAND, FINE, DARK BROWN 0.80m-1.60m SAND GREY FINE TO MED GRAINED 1.60m-3.50m SAND TO DARK BROWN 3.50m-4.50m SAND WET | 1529m | North East |
| GW100945 | 0.00m-7.10m ALL SAND UNCONSOLIDATED | 1533m | North East |
| GW112601 | 0.00m-0.30m CONCRETE 0.30m-1.30m FILL SANDY BROWN, SOME SANDSTONE 1.30m-5.00m FILL SANDY BROWN COARSE MOIST WET | 1535m | North East |
| GW102800 | 0.00m-6.10m CONSOLIDATED ALL SANDS | 1539m | East |
| GW112597 | 0.00m-0.80m FILL, CLAYEY, SANDY GRAVELLY SANDSTONE 0.80m-1.10m SAND, LIGHT GREY, FINE GRAINED, MOIST 1.10m-3.00m SAND TO DARK BROWN 3.00m-3.90m SAND TO LIGHT BROWN 3.90m-5.00m SAND WET STRONG HYDROCARBON ODOUR | 1543m | North East |
| GW100993 | 0.00m-5.49m UNCONSOLIDATED ALL SANDS | 1544m | East |
| GW025543 | 0.00m-0.09m Made Ground 0.09m-2.74m Sand Coarse 2.74m-7.62m Sand 7.62m-7.77m Clay Grey 7.77m-9.44m Sand 9.44m-12.49m Sand Grey Water Supply 12.49m-12.80m Wood Peat 12.80m-14.02m Sand Water Supply 14.02m-14.63m Clay Peaty 14.63m-18.28m Sand Water Supply 18.28m-18.59m Clay Peaty | 1550m | South East |
| GW109821 | 0.00m-2.20m FILL 2.20m-35.00m ASHFIELD SHALE | 1554m | North West |
| GW100997 | 0.00m-8.23m UNCONSOLIDATED SAND | 1568m | North East |
| GW109825 | 0.00m-4.50m FILL 4.50m-22.00m SHALE | 1584m | North West |
| GW023967 | 0.00m-1.82m Sand White 1.82m-2.43m Sand Grey Water Supply 2.43m-2.74m Mud Black | 1585m | East |
| GW101813 | 0.00m-8.54m UNCONSOLIDATED SAND | 1597m | North East |
| GW023408 | 0.00m-1.52m Soil Black Hard 1.52m-7.01m Sand Water Supply | 1603m | East |
| GW111456 | 0.00m-0.60m SAND SILTY 0.60m-6.20m SAND | 1603m | South |
| GW072214 | | 1612m | East |
| GW109824 | 0.00m-4.50m FILL 4.50m-9.00m LAMINITE 9.00m-17.00m SHALE 17.00m-20.70m SANDSTONE | 1615m | North West |
| GW105528 | 0.00m-1.00m SAND, GREY, SOME GRAVEL, CLAY WET 1.00m-1.50m GRAVELLY CLAY YELLOW BROWN 1.50m-2.50m SANDY SILT BLACK 2.50m-4.00m SAND, L/BROWN, GREY 4.00m-5.00m SAND GREY L/BROWN | 1620m | North East |

| Groundwater No | Drillers Log | Distance | Direction |
|----------------|---|----------|------------|
| GW023600 | 0.00m-0.60m Sand Grey 0.60m-7.31m Sand Yellow Water Supply | 1622m | East |
| GW101221 | 0.00m-6.10m Unconsolidated - all sand | 1637m | North East |
| GW100975 | 0.00m-6.10m UNCONSOLIDATED ALL SANDS | 1645m | North East |
| GW111457 | 0.00m-0.09m ASPHALT 0.09m-0.20m BASE COURSE 0.20m-0.60m SAND FILLING 0.60m-1.30m SAND 1.30m-2.00m COFFEE ROCK 2.00m-6.20m SAND | 1645m | South |
| GW105527 | 0.00m-0.80m FILL,SANDY GRAVEL 0.80m-2.10m SAND,MEDIUM GRAINED,BROWN/YELLOW 2.10m-5.00m SAND,MEDIUM GRAINED,YELLOW/WHITE | 1661m | North |
| GW100367 | 0.00m-5.00m ALL SAND - UNCONSOLIDATED | 1662m | East |
| GW017782 | 0.00m-1.82m Made Ground 1.82m-4.26m Peat 4.26m-4.87m Sand Peaty 4.87m-9.44m Sand 9.44m-10.36m Clay Sandy 10.36m-11.88m Sand Clay 11.88m-14.63m Sand 14.63m-15.54m Sand Clay | 1665m | North East |
| GW072328 | 0.00m-1.00m FELT 1.00m-8.00m PEATY WHITE SAND 8.00m-9.50m BROWN PEATY SAND 9.50m-10.80m PEAT ON CLAY 10.80m-13.00m BROWN PEATY SAND 13.00m-14.00m SHALEY GREY CLAY | 1681m | North East |
| GW105529 | 0.00m-2.00m FILL,SILTY SAND/GRAVEL 2.00m-5.00m SAND,BEIGE/BROWN/YELLOW MOT. | 1688m | North |
| GW073515 | 0.00m-7.00m SAND | 1722m | East |
| GW101037 | 0.00m-4.88m UNCONSOLIDATED. ALL SAND | 1741m | North East |
| GW101226 | 0.00m-5.30m Unconsolidated - all sand | 1751m | East |
| GW024023 | 0.00m-0.30m Sand White 0.30m-2.13m Sand Hard Cemented 2.13m-6.22m Sand Yellow Water Supply | 1752m | North East |
| GW100466 | 0.00m-5.00m SAND | 1765m | North East |
| GW100813 | 0.00m-10.98m UNCONSOLIDATED ALL SANDS | 1767m | North East |
| GW026788 | 0.00m-1.21m Sand White 1.21m-10.36m Sand 10.36m-10.97m Peat 10.97m-12.19m Sand 12.19m-12.49m Peat 12.49m-13.72m Sand Dirty Peat 13.72m-15.84m Sand Dirty 15.84m-17.67m Sand Yellow 17.67m-18.89m Sand Grey Clayey 18.89m-20.42m Clay Grey Peat | 1777m | South East |
| GW106145 | 0.00m-5.79m sand, unconsolidated | 1782m | East |
| GW100493 | 0.00m-0.35m SANDY, GRAVELLY FILL 0.35m-0.60m SAND, GREY, FINE-MED, DRY 0.60m-4.00m SAND, ORANGE, FINE-MED 4.00m-5.80m SAND, LIGHT ORANGE, MOIST 5.80m-9.50m SAND, LIGHT GREY, FINE, WET | 1788m | North East |
| GW109255 | 0.00m-0.30m FILL, SAND AND GRAVEL 0.30m-2.90m SILTY SAND,WET @ 1.5m BGL 2.90m-7.30m SAND | 1803m | South East |

| Groundwater No | Drillers Log | Distance | Direction |
|----------------|---|----------|------------|
| GW046837 | 0.00m-2.44m Sand Dark Brown 2.44m-5.79m Sand 5.79m-7.01m Sand Peaty 7.01m-7.62m Peat 7.62m-9.14m Sand Dirty 9.14m-9.30m Clay 9.30m-12.19m Sand Dirty 12.19m-12.50m Sand Soak 12.50m-12.80m Sand Water Bearing Water Supply 12.80m-14.02m Peat 14.02m-14.78m Sandstone | 1806m | South East |
| GW075022 | 0.00m-2.00m SILTY SAND 2.00m-5.00m SAND, YELLOW BROWN 5.00m-6.00m PEATY SAND 6.00m-6.50m SAND, YELLOW 6.50m-8.00m PEATY SAND, GREY 8.00m-9.00m PEAT, FIRM, BLACK 9.00m-13.00m SAND, FINE TO MED GRAINED, BROWN 13.00m-14.00m PEATY SAND, BROWN 14.00m-14.50m PEAT, MED, BLACK 14.50m-15.00m CLAY, GREY 15.00m-15.75m SANDY CLAY, WHITE GREY 15.75m-16.75m BED ROCK | 1816m | South East |
| GW026482 | 0.00m-5.48m Sand Water Supply | 1819m | North East |
| GW109253 | 0.00m-0.60m FILL, SAND 0.60m-2.80m SILTY SAND 2.80m-10.30m SAND WET BELOW 1.4 m | 1820m | South East |
| GW109254 | 0.00m-0.30m FILL, SAND AND GRAVEL 0.30m-2.60m SILTY SAND WET @ 1.0 m 2.60m-9.70m SAND | 1822m | South East |
| GW110909 | 0.00m-0.30m ROADBASE GREY 0.30m-1.00m SAND WITH GRAVEL, BROWN-GREY 1.00m-2.00m SAND WITH GRAVEL DARK GREY 2.00m-3.80m SAND LIGHT BROWN 3.80m-5.80m SAND GREY | 1829m | South |
| GW104040 | 0.00m-0.10m CONCRETE 0.10m-2.00m FILL, SAND, YELLOWISH 2.00m-6.50m SAND, MEDIUM BROWN 6.50m-7.00m SAND, LIGHT BROWN | 1859m | East |
| GW101215 | 0.00m-7.62m Unconsolidated - all sand. | 1862m | East |
| GW104039 | 0.00m-0.10m CONCRETE 0.10m-2.00m SAND, DARK BROWN 2.00m-7.00m SAND, MEDIUM LIGHT BROWN | 1864m | East |
| GW107233 | 0.00m-0.30m TOPSOIL 0.30m-1.50m GREY SAND 1.50m-6.50m YELLOW SAND 6.50m-12.20m BROWN SILTY SAND 12.20m-12.60m BLACK PEAT 12.60m-13.10m BLACK PEATY SAND 13.10m-16.70m BROWN PEATY SAND 16.70m-16.90m BLACK PEAT 16.90m-18.40m BROWN SAND 18.40m-18.80m BLACK PEAT 18.80m-21.30m BROWN SAND 21.30m-21.50m BLACK PEAT | 1879m | South East |
| GW047122 | 0.00m-1.52m Made Ground 1.52m-4.57m Sand Dirty 4.57m-8.23m Sand 8.23m-8.53m Peat 8.53m-9.14m Sand 9.14m-9.45m Peat 9.45m-12.19m Sand Peaty 12.19m-16.46m Sand Water Supply 16.46m-17.68m Sand Peaty Wood Water Supply 17.68m-18.29m Sand Dirty Water Supply 18.20m-19.51m Sand Grey Clay Bands 19.51m-19.52m Clay Still Peaty | 1882m | South East |

| Groundwater No | Drillers Log | Distance | Direction |
|----------------|--|----------|------------|
| GW026787 | 0.00m-3.96m Sand Dry 3.96m-6.09m Sand Clean Water Supply 6.09m-8.53m Sand Peaty 8.53m-9.44m Sand Clean Peaty 9.44m-16.45m Sand Peaty 16.45m-18.59m Sand Clean Water Supply 18.59m-21.03m Sand Water Supply 21.03m-21.33m Sand Grey Clayey 21.33m-22.55m Sand Peaty 22.55m-24.84m Clay Dark Grey Stiff | 1895m | South East |
| GW017195 | 0.00m-3.35m Sand Water Supply | 1904m | East |
| GW114562 | 0.00m-0.05m ASPHALT 0.05m-0.18m CONCRETE 0.18m-0.58m SILTY SAND DARK BROWN MG.SOFT 0.58m-0.75m SAND, LIGHT BROWN, soft 0.75m-0.95m SILTY SAND DARK BROWN MG.SOFT 0.95m-1.05m SAND,WHITE ORANGE MOTTLED.SOFT 1.05m-1.55m GRAVELLY SAND, LIGHT BROWN SOFT 1.55m-1.75m SAND ORANGE SOFT 1.75m-2.25m CLAY DARK BROWN FG, SOFT 2.25m-2.70m SILTY CLAY DARK BROWN FG SOFT | 1912m | North |
| GW114561 | 0.00m-0.15m ASPHALT 0.15m-0.21m CONCRETE 0.22m-0.50m SILTY SAND BLACK,CG.SOFT 0.50m-1.00m SAND GREY BROWN CG BROWN 1.00m-1.50m SAND WHITE CG SOFT 1.50m-1.60m SANDY CLAY BLACK SOFT 1.60m-2.15m SAND GREY CG SOFT 2.15m-2.70m SAND BROWN,CG.SOFT | 1917m | North |
| GW102741 | 0.00m-7.00m SAND | 1919m | East |
| GW072958 | | 1920m | East |
| GW110910 | 0.00m-0.30m ROADBASE GREY 0.30m-1.00m SAND SILTY WITH GRAVEL,GREY,BROWN 1.00m-3.00m SAND BROWN 3.00m-4.50m SAND WITH SHELLS GREY 4.50m-6.00m SAND WITH GRAVELS BLACK. | 1921m | South |
| GW024377 | 0.00m-4.57m Sand Water Supply | 1925m | East |
| GW100825 | 0.00m-7.01m UNCONSOLIDATED ALL SANDS | 1927m | East |
| GW114563 | 0.00m-0.08m ASPHALT 0.08m-0.21m CONCRETE 0.21m-0.31m SAND LIGHT BROWN, SOFT 0.31m-0.99m SILTY SAND DARK BROWN MG SOFT 0.99m-1.23m SANDY CLAY BROWN SOFT FG 1.23m-1.31m SANDY CLAY BROWN SOFT FG 1.31m-1.95m SAND LIGHT BROWN SOFT 1.95m-2.52m CLAYEY SAND DARK BROWN SOFT 2.52m-2.80m CLAY DARK BROWN SOFT 2.80m-3.34m CLAYEY SAND, DARK BROWN SOFT 3.34m-3.54m CLAY, DARK BROWN SOFT 3.54m-3.90m CLAY, DARK BROWN SOFT | 1928m | North |
| GW110427 | 0.00m-0.10m GRASS 0.10m-1.00m SAND, YELLOW ORANGE, M/GRAINED 1.00m-2.00m SAND GREY BROWN, M/GRAINED, DRY 2.00m-3.00m SAND AS ABOVE, WET 3.00m-4.00m SAND AS ABOVE, WET 4.00m-5.00m SAND LIGHT BROWN, M/GRAINED, SATURATED 5.00m-6.00m SAND AS ABOVE, SATURATED 6.00m-7.00m SAND AS ABOVE | 1929m | East |
| GW110428 | 0.00m-0.10m BITUMEN 0.10m-0.50m SAND, GREY/BROWN M/GRAINED, DRY 0.50m-2.00m SAND, YELLOW/ORANGE, M/GRAINED 2.00m-3.00m SAND, LIGHT BROWN, M/GRAINED, DAMP 3.00m-3.80m SAND AS ABOVE, WET 3.80m-4.00m SAND AS ABOVE, SATURATED | 1937m | East |
| GW110906 | 0.00m-1.00m ROADBASE GREY 1.00m-2.80m SAND GREY 2.80m-5.80m SAND BROWN | 1938m | South |
| GW072479 | 0.00m-5.80m UNCONSOLIDATED SANDS | 1943m | East |

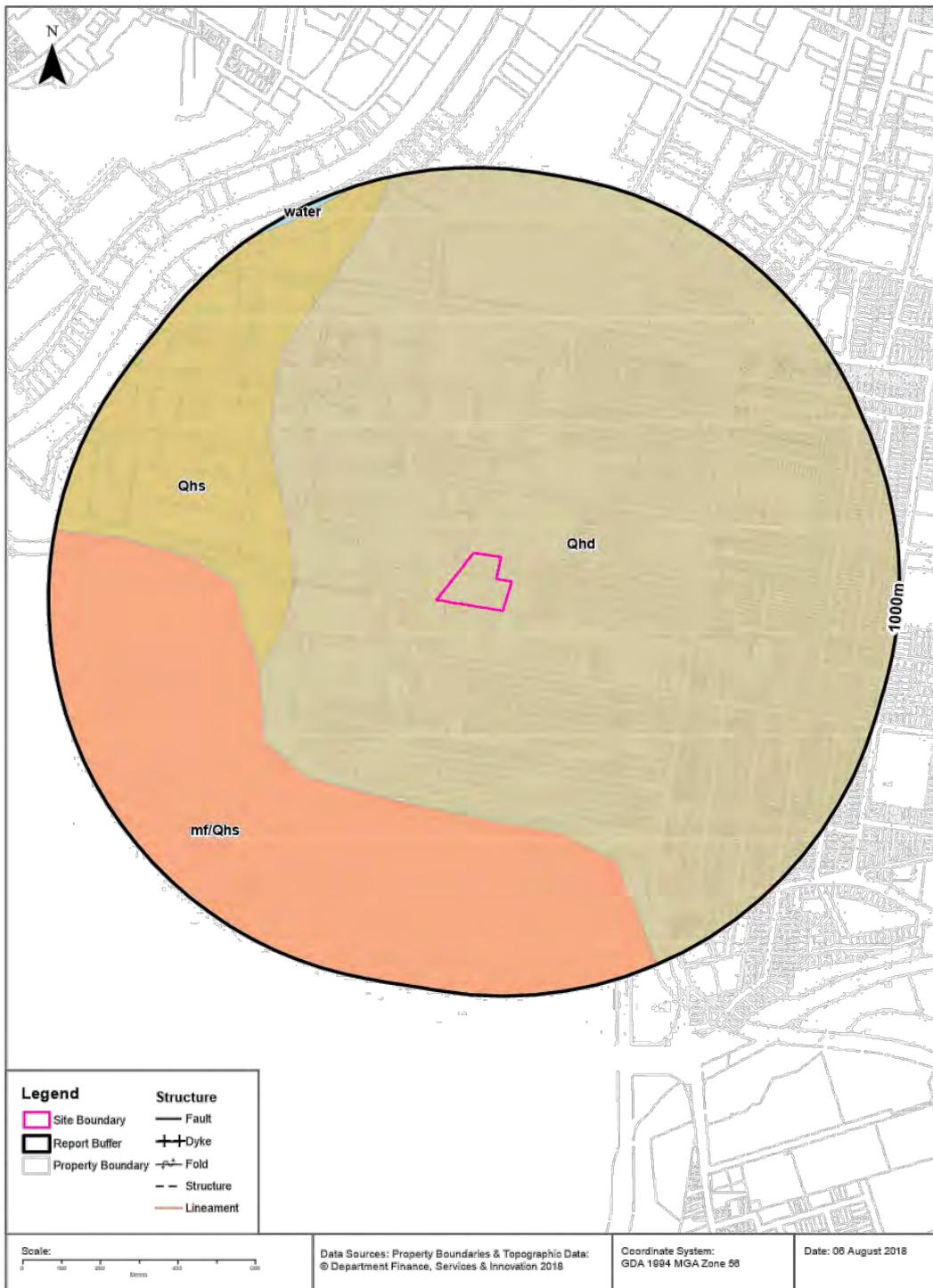
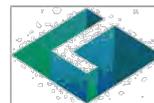
| Groundwater No | Drillers Log | Distance | Direction |
|----------------|---|----------|---------------|
| GW110430 | 0.00m-0.10m BITUMEN 0.10m-1.00m SAND, ORANGE/BROWN, FINE M/GRAINED 1.00m-2.00m SAND, WHITE/GREY, WELL SORTED F/M/GRAINED 2.00m-3.00m SAND, BROWN/GREY, WET, M/GRAINED 3.00m-3.80m SAND, AS ABOVE 3.80m-4.00m SAND AS ABOVE, SATURATED | 1944m | East |
| GW110429 | 0.00m-0.10m BITUMEN 0.10m-1.00m SAND, GREY/BROWN, FINE M/GRAINED 1.00m-2.00m SAND, AS ABOVE 2.00m-3.00m SAND, LBROWN, M/GRAINED, WET M/DENSE 3.00m-3.80m SAND, AS ABOVE 3.80m-4.00m SAND, AS ABOVE, SATURATED | 1946m | East |
| GW101445 | 0.00m-6.00m SAND | 1950m | East |
| GW110431 | 0.00m-0.10m BITUMEN 0.10m-1.00m SAND, GREY BROWN 1.00m-2.00m SAND, GREY BROWN, M/GRAINED, DRY 2.00m-3.00m SAND, LBROWN, DAMP, WELL SORTED 3.00m-4.00m SAND, AS ABOVE, WET 4.00m-4.80m SAND, LBROWN, WET, M/GRAINED 4.80m-5.00m SAND, AS ABOVE | 1952m | East |
| GW110911 | 0.00m-0.30m ROADBASE GREY 0.30m-2.20m SAND SILTY WITH GRAVEL GREY 2.20m-3.50m SAND WITH SHELLS GREY 3.50m-6.00m SAND WITH SHELLS DARK GREY/BLACK | 1954m | South |
| GW104570 | 0.00m-6.50m SAND | 1955m | East |
| GW072897 | 0.00m-5.80m Unconsolidated Sand | 1956m | East |
| GW104031 | 0.00m-0.10m GRASS 0.10m-2.00m SAND, MEDIUM BROWN 2.00m-3.00m SAND, LIGHT MED. BROWN 3.00m-4.00m SAND, LIGHT BROWN 4.00m-5.00m AS ABOVE 5.00m-6.00m AS ABOVE SATURED 6.00m-7.00m AS ABOVE | 1955m | East |
| GW104032 | 0.00m-0.10m GRASS 0.10m-2.00m FILL, SAND, LIGHT ORANGE 2.00m-5.00m SAND, MEDIUM BROWN 5.00m-7.00m SAND, LIGHT BROWN, MED. GRAINED | 1965m | East |
| GW104033 | 0.00m-2.00m FILL SAND, DARK BROWN, YELLOW 2.00m-4.00m SAND, MEDIUM BROWN, SATURED | 1965m | East |
| GW104034 | 0.00m-2.00m FILL, SAND, GREY DARK ORANGEY BROWN 2.00m-4.00m SAND, MEDIUM BROWN, NO ODOUR 4.00m-5.00m AS ABOVE, DENSE SAND 5.00m-7.00m SAND, LIGHT BROWN | 1965m | East |
| GW104035 | 0.00m-2.00m FILL SAND, MEDIUM DARK BROWN, GREYISH 2.00m-3.00m SAND, LIGHT BROWN, WET 3.00m-7.00m SAND, AS ABOVE, SATURED, DARK BROWN | 1965m | East |
| GW104036 | 0.00m-1.00m fill 1.00m-2.00m peat 2.00m-7.00m sand | 1965m | East |
| GW104037 | 0.00m-0.10m GRASS 0.10m-4.00m SAND, MEDIUM GRAINED | 1965m | East |
| GW104038 | 0.00m-0.10m GRASS 0.10m-4.00m SAND, LIGHT BROWN | 1965m | East |
| GW023164 | 0.00m-3.65m Sand Water Supply | 1969m | South East |
| GW110414 | 0.00m-0.10m GRASS 0.10m-1.00m SAND, ORANGE BROWN, M/GRAINED, DRY 1.00m-2.00m SAND, AS ABOVE 2.00m-3.00m SAND, LIGHT BROWN, M/GRAINED, WELL SORTED 3.00m-4.00m SAND, AS ABOVE, SATURATED | 1971m | East |
| GW024694 | 0.00m-3.04m Sand Water Supply | 1976m | East |
| GW013514 | 0.00m-9.14m Sand Water Supply | 1978m | North East |
| GW103708 | 0.00m-6.00m SAND | 1985m | East |

| Groundwater No | Drillers Log | Distance | Direction |
|----------------|--|----------|------------|
| GW017720 | 0.00m-0.76m Topsoil 0.76m-1.06m Sand White 1.06m-1.37m Sand Peaty Water Supply 1.37m-3.65m Sand Water Supply 3.65m-7.92m Sand Light Brown Water Supply 7.92m-8.07m Peat 8.07m-17.06m Sand Dirty Water Supply 17.06m-17.37m Peat 17.37m-18.89m Clay Grey 18.89m-20.42m Sand Grey Fossils:shell Fragments Water Supply 20.42m-20.43m Clay Grey | 1991m | South East |
| GW10067# | 0.00m-5.49m SAND | 1995m | East |

Drill Log Data Source: NSW Department of Primary Industries - Office of Water / Water Administration Ministerial Corp
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Geology 1:100,000

146-154 O'Riordan Street, Mascot, NSW 2020



Geology

146-154 O'Riordan Street, Mascot, NSW 2020

Geological Units

What are the Geological Units onsite?

| Symbol | Description | Unit Name | Group | Sub Group | Age | Dom Lith | Map Sheet | Dataset |
|--------|--|-----------|-------|-----------|------------|----------|-----------|-----------|
| Qhd | Medium to fine-grained marine sand with podsoils | | | | Quaternary | | Sydney | 1:100,000 |

What are the Geological Units within the dataset buffer?

| Symbol | Description | Unit Name | Group | Sub Group | Age | Dom Lith | Map Sheet | Dataset |
|--------|--|-----------|-------|-----------|------------|----------|-----------|-----------|
| mf/Qhs | | | | | | | Sydney | 1:100,000 |
| Qhd | Medium to fine-grained marine sand with podsoils | | | | Quaternary | | Sydney | 1:100,000 |
| Qhs | Peat, sandy peat, and mud. | | | | Quaternary | | Sydney | 1:100,000 |
| Water | | | | | | | Sydney | 1:100,000 |

Geological Structures

What are the Geological Structures onsite?

| Feature | Name | Description | Map Sheet | Dataset |
|-------------|------|-------------|-----------|-----------|
| No features | | | | 1:100,000 |

What are the Geological Structures within the dataset buffer?

| Feature | Name | Description | Map Sheet | Dataset |
|-------------|------|-------------|-----------|-----------|
| No features | | | | 1:100,000 |

Geological Data Source : NSW Department of Industry, Resources & Energy
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Naturally Occurring Asbestos Potential

146-154 O’Riordan Street, Mascot, NSW 2020

Naturally Occurring Asbestos Potential

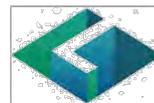
Naturally Occurring Asbestos Potential within the dataset buffer:

| Potential | Sym | Strat Name | Group | Formation | Scale | Min Age | Max Age | Rock Type | Dom Lith | Description | Dist | Dir |
|----------------------|-----|------------|-------|-----------|-------|---------|---------|-----------|----------|-------------|------|-----|
| No records in buffer | | | | | | | | | | | | |

Mining Subsidence District Data Source: © State of New South Wales through NSW Department of Industry, Resources & Energy

Soil Landscapes

146-154 O'Riordan Street, Mascot, NSW 2020



Soils

146-154 O'Riordan Street, Mascot, NSW 2020

Soil Landscapes

What are the onsite Soil Landscapes?

| Soil Code | Name | Group | Process | Map Sheet | Scale |
|-----------|----------|-------|---------|-----------|-----------|
| AEtg | TUGGERAH | | AEOLIAN | Sydney | 1:100,000 |

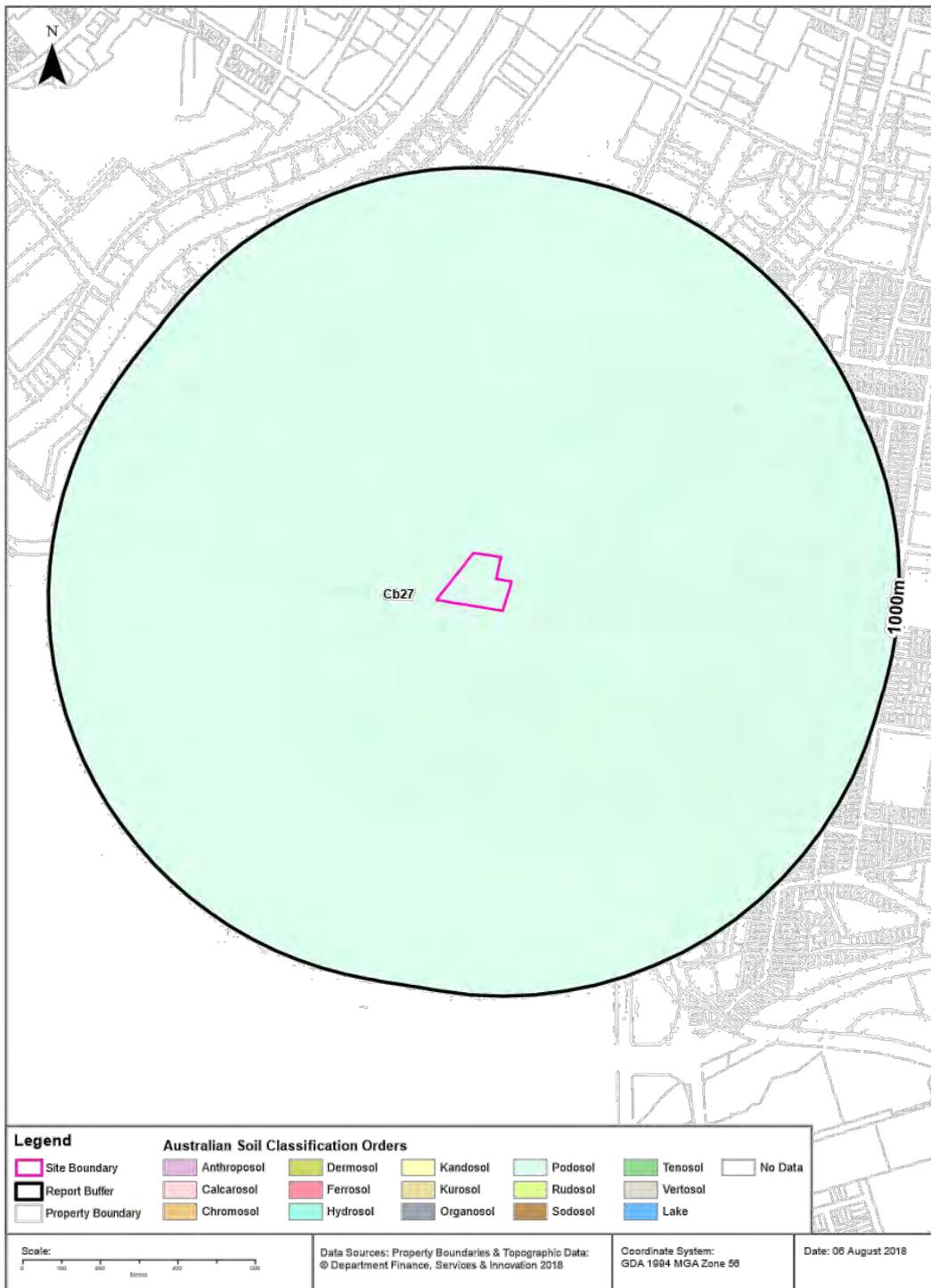
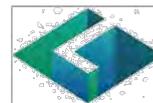
What are the Soil Landscapes within the dataset buffer?

| Soil Code | Name | Group | Process | Map Sheet | Scale |
|-----------|-------------------|-------|-------------------|-----------|-----------|
| AEtg | TUGGERAH | | AEOLIAN | Sydney | 1:100,000 |
| DTxx | DISTURBED TERRAIN | | DISTURBED TERRAIN | Sydney | 1:100,000 |

Soils Landscapes Data Source : NSW Office of Environment and Heritage
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Atlas of Australian Soils

146-154 O'Riordan Street, Mascot, NSW 2020



Soils

146-154 O'Riordan Street, Mascot, NSW 2020

Atlas of Australian Soils

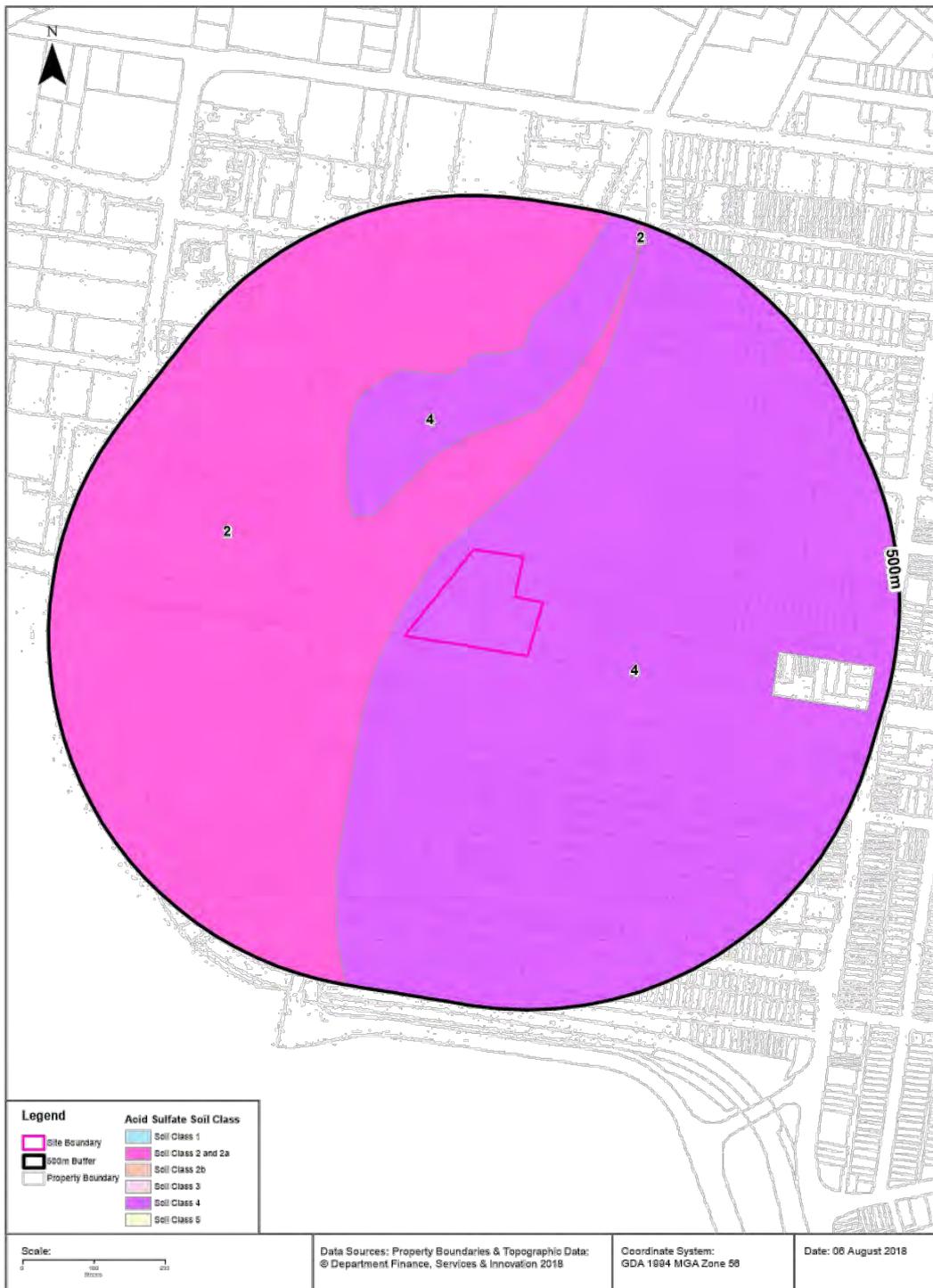
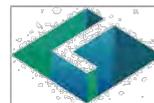
Soil mapping units and Australian Soil Classification orders within the dataset buffer:

| Map Unit Code | Soil Order | Map Unit Description | Distance |
|---------------|------------|---|----------|
| Cb27 | Podosol | Coastal sand plains and dunes, lagoons, and swampy areas: chief soils are leached sands (Uc2.3 and Uc2.2). Associated are dunes of siliceous sands (Uc1.2) and/or calcareous sands (Uc1.1) fringing the coastline; and swampy areas of (Uf6) soils and (Uc1.2) soils with peaty surfaces. Unit Cb27 has similarities with units Cb28 and Ca6. | 0m |

Atlas of Australian Soils Data Source: CSIRO
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Acid Sulfate Soils

146-154 O'Riordan Street, Mascot, NSW 2020



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Acid Sulfate Soils

146-154 O’Riordan Street, Mascot, NSW 2020

Standard Local Environmental Plan Acid Sulfate Soils

What is the on-site Acid Sulfate Soil Plan Class that presents the largest environmental risk?

| Soil Class | Description | LEP |
|------------|---|--|
| 4 | Works more than 2 metres below natural ground surface present an environmental risk; Works by which the watertable is likely to be lowered more than 2 metres below natural ground surface, present an environmental risk | Botany Bay Local Environmental Plan 2013 |

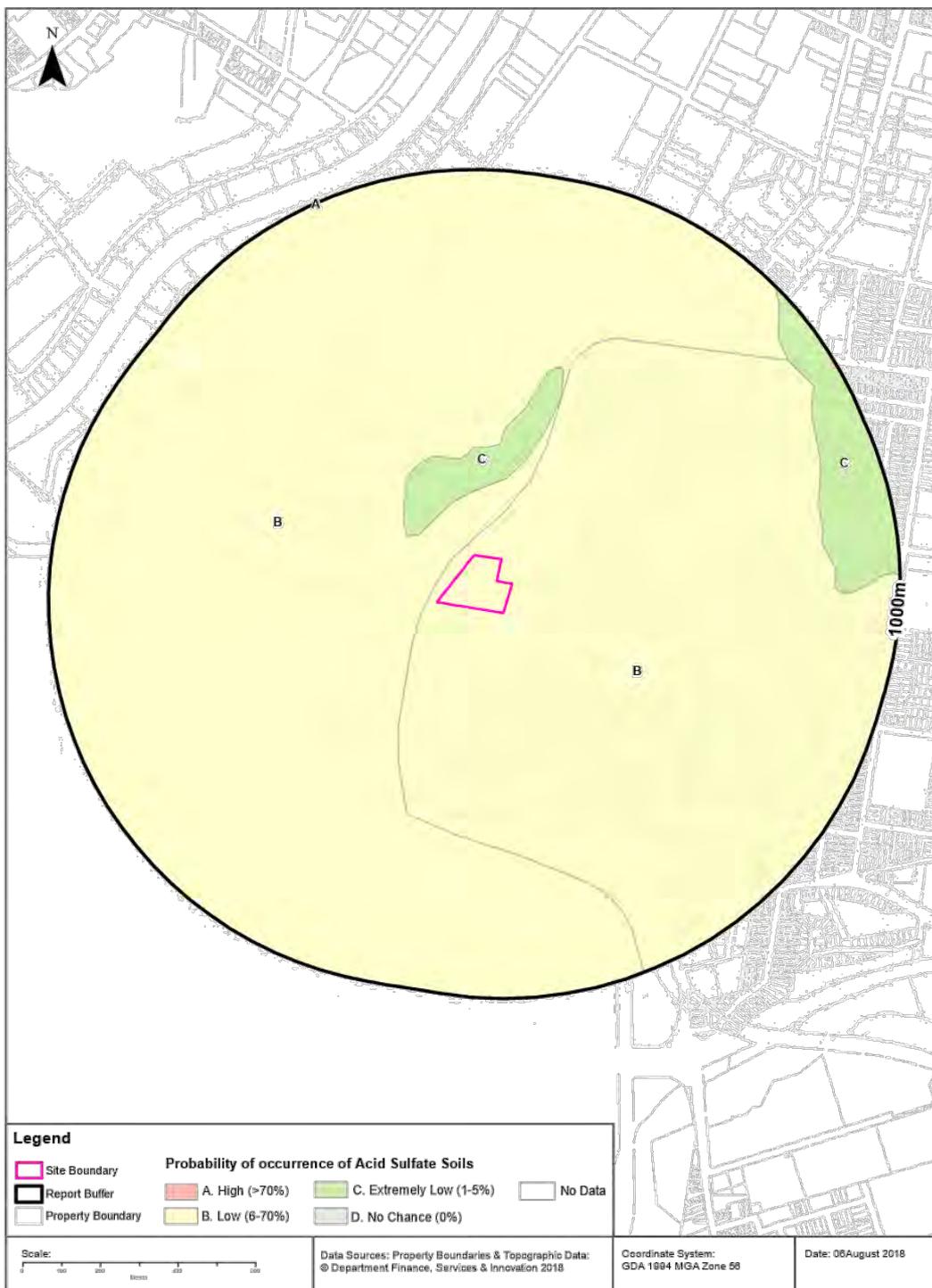
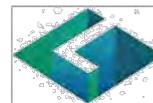
If the on-site Soil Class is 5, what other soil classes exist within 500m?

| Soil Class | Description | LEP | Distance | Direction |
|------------|-------------|-----|----------|-----------|
| N/A | | | | |

Acid Sulfate Data Source Accessed 07/10/2016: NSW Crown Copyright - Planning and Environment
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Atlas of Australian Acid Sulfate Soils

146-154 O'Riordan Street, Mascot, NSW 2020



Acid Sulfate Soils

146-154 O'Riordan Street, Mascot, NSW 2020

Atlas of Australian Acid Sulfate Soils

Atlas of Australian Acid Sulfate Soil categories within the dataset buffer:

| Class | Description | Distance |
|-------|---|----------|
| B | Low Probability of occurrence. 6-70% chance of occurrence. | 0m |
| C | Extremely low probability of occurrence. 1-5% chance of occurrence with occurrences in small localised areas. | 135m |
| A | High Probability of occurrence. >70% chance of occurrence. | 996m |

Atlas of Australian Acid Sulfate Soils Data Source: CSIRO

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Dryland Salinity

146-154 O’Riordan Street, Mascot, NSW 2020

Dryland Salinity - National Assessment

Is there Dryland Salinity - National Assessment data onsite?

No

Is there Dryland Salinity - National Assessment data within the dataset buffer?

No

What Dryland Salinity assessments are given?

| Assessment 2000 | Assessment 2020 | Assessment 2050 | Distance | Direction |
|-----------------|-----------------|-----------------|----------|-----------|
| N/A | N/A | N/A | N/A | N/A |

Dryland Salinity Data Source : National Land and Water Resources Audit

The Commonwealth and all suppliers of source data used to derive the maps of "Australia, Forecast Areas Containing Land of High Hazard or Risk of Dryland Salinity from 2000 to 2050" do not warrant the accuracy or completeness of information in this product. Any person using or relying upon such information does so on the basis that the Commonwealth and data suppliers shall bear no responsibility or liability whatsoever for any errors, faults, defects or omissions in the information. Any persons using this information do so at their own risk.

In many cases where a high risk is indicated, less than 100% of the area will have a high hazard or risk.

Dryland Salinity Potential of Western Sydney

Dryland Salinity Potential of Western Sydney within the dataset buffer?

| Feature Id | Classification | Description | Distance | Direction |
|------------|-----------------------|-------------|----------|-----------|
| N/A | Outside Data Coverage | | | |

Dryland Salinity Potential of Western Sydney Data Source : NSW Office of Environment and Heritage

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Mining Subsidence Districts

146-154 O’Riordan Street, Mascot, NSW 2020

Mining Subsidence Districts

Mining Subsidence Districts within the dataset buffer:

| District | Distance | Direction |
|---|----------|-----------|
| There are no Mining Subsidence Districts within the report buffer | | |

Mining Subsidence District Data Source: © Land and Property Information (2016)
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Environmental Zoning

146-154 O'Riordan Street, Mascot, NSW 2020

State Environmental Planning Policy Protected Areas

Are there any State Environmental Planning Policy Protected Areas onsite or within the dataset buffer?

| Dataset | Onsite | Within Site Buffer | Distance |
|----------------------------------|--------|--------------------|----------|
| SEPP14 - Coastal Wetlands | No | No | N/A |
| SEPP26 - Littoral Rainforests | No | No | N/A |
| SEPP71 - Coastal Protection Zone | No | No | N/A |

SEPP Protected Areas Data Source: NSW Department of Planning & Environment
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State Environmental Planning Policy Major Developments (2005)

State Environmental Planning Policy Major Developments within the dataset buffer:

| Map Id | Feature | Effective Date | Distance | Direction |
|--------|--------------------------|----------------|----------|-----------|
| N/A | No records within buffer | | | |

SEPP Major Development Data Source: NSW Department of Planning & Environment
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State Environmental Planning Policy Strategic Land Use Areas

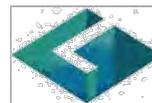
State Environmental Planning Policy Strategic Land Use Areas onsite or within the dataset buffer:

| Strategic Land Use | SEPPNo | Effective Date | Amendment | Amendment Year | Distance | Direction |
|--------------------------|--------|----------------|-----------|----------------|----------|-----------|
| No records within buffer | | | | | | |

SEPP Strategic Land Use Data Source: NSW Department of Planning & Environment
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LEP Planning Zones

146-154 O'Riordan Street, Mascot, NSW 2020



Local Environmental Plan

146-154 O'Riordan Street, Mascot, NSW 2020

Land Zoning

What Local Environmental Plan Land Zones exist within the dataset buffer?

| Zone | Description | Purpose | LEP or SEPP | Published Date | Commenced Date | Currency Date | Amendment | Distance | Direction |
|------|----------------------------|-----------------|--|----------------|----------------|---------------|----------------|----------|------------|
| B5 | Business Development | | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 19/02/2016 | | 0m | Onsite |
| R3 | Medium Density Residential | | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 19/02/2016 | | 0m | East |
| RE1 | Public Recreation | | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 19/02/2016 | | 0m | North East |
| SP2 | Infrastructure | Classified Road | Botany Bay Local Environmental Plan 2013 | 09/10/2015 | 09/10/2015 | 19/02/2016 | Amendment No 4 | 0m | South East |
| SP2 | Infrastructure | Sewerage | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 19/02/2016 | | 0m | South West |
| R2 | Low Density Residential | | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 19/02/2016 | | 16m | East |
| B5 | Business Development | | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 19/02/2016 | | 20m | North |
| SP2 | Infrastructure | Sewerage | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 19/02/2016 | | 23m | North |
| B5 | Business Development | | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 19/02/2016 | | 24m | North West |
| B5 | Business Development | | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 19/02/2016 | | 32m | West |
| R3 | Medium Density Residential | | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 19/02/2016 | | 93m | South East |
| R3 | Medium Density Residential | <Null> | Botany Bay Local Environmental Plan 2013 | 09/10/2015 | 09/10/2015 | 19/02/2016 | | 141m | South |
| B4 | Mixed Use | | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 19/02/2016 | | 155m | North |
| B4 | Mixed Use | | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 19/02/2016 | | 160m | North East |
| SP2 | Infrastructure | Sewerage | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 19/02/2016 | | 162m | South |
| IN1 | General Industrial | | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 19/02/2016 | | 178m | West |
| SP2 | Infrastructure | Sewerage | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 19/02/2016 | | 186m | North |
| B2 | Local Centre | | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 19/02/2016 | | 209m | North West |
| SP2 | Infrastructure | Sewerage | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 19/02/2016 | | 262m | North |
| SP2 | Infrastructure | Sewerage | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 19/02/2016 | | 278m | South |
| RE1 | Public Recreation | | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 19/02/2016 | | 281m | North West |
| RE1 | Public Recreation | | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 19/02/2016 | | 282m | South |
| RE1 | Public Recreation | | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 19/02/2016 | | 330m | East |
| SP2 | Infrastructure | Railway | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 19/02/2016 | | 334m | West |
| DM | Deferred Matter | | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 19/02/2016 | | 339m | East |
| SP2 | Infrastructure | Sewerage | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 19/02/2016 | | 350m | North |
| R2 | Low Density Residential | | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 19/02/2016 | | 355m | South |
| SP2 | Infrastructure | Airport | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 19/02/2016 | | 361m | South West |

| Zone | Description | Purpose | LEP or SEPP | Published Date | Commenced Date | Currency Date | Amendment | Distance | Direction |
|------|----------------------------|------------------------|--|----------------|----------------|---------------|-----------------|----------|------------|
| RE1 | Public Recreation | | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 19/02/2016 | | 388m | North East |
| B2 | Local Centre | | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 19/02/2016 | | 400m | South East |
| R2 | Low Density Residential | | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 19/02/2016 | | 402m | South East |
| SP2 | Infrastructure | Sewerage | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 19/02/2016 | | 403m | South |
| SP2 | Infrastructure | Sewerage | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 19/02/2016 | | 411m | North |
| SP2 | Infrastructure | Electricity Substation | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 19/02/2016 | | 411m | North |
| B5 | Business Development | | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 19/02/2016 | | 420m | South West |
| B2 | Local Centre | | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 19/02/2016 | | 425m | East |
| RE1 | Public Recreation | | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 19/02/2016 | | 432m | South West |
| R2 | Low Density Residential | | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 19/02/2016 | | 448m | South East |
| B2 | Local Centre | | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 19/02/2016 | | 469m | North East |
| B2 | Local Centre | | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 19/02/2016 | | 500m | East |
| RE1 | Public Recreation | | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 19/02/2016 | | 503m | North East |
| B7 | Business Park | | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 19/02/2016 | | 523m | North West |
| R3 | Medium Density Residential | | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 19/02/2016 | | 525m | North East |
| R2 | Low Density Residential | | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 19/02/2016 | | 530m | East |
| R3 | Medium Density Residential | | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 19/02/2016 | | 534m | East |
| RE1 | Public Recreation | | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 19/02/2016 | | 605m | South East |
| B2 | Local Centre | | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 10/02/2017 | | 622m | South East |
| R3 | Medium Density Residential | | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 19/02/2016 | | 630m | East |
| SP2 | Infrastructure | Classified Road | Sydney Local Environmental Plan 2012 | 14/12/2012 | 14/12/2012 | 16/12/2016 | | 636m | North East |
| B6 | Enterprise Corridor | | Sydney Local Environmental Plan 2012 | 12/06/2015 | 12/06/2015 | 16/12/2016 | Amendment No 17 | 647m | North |
| IN1 | General Industrial | | Sydney Local Environmental Plan 2012 | 12/06/2015 | 12/06/2015 | 16/12/2016 | Amendment No 17 | 647m | North |
| SP2 | Infrastructure | Classified Road | Sydney Local Environmental Plan 2012 | 14/12/2012 | 14/12/2012 | 16/12/2016 | | 656m | North East |
| B6 | Enterprise Corridor | | Sydney Local Environmental Plan 2012 | 12/06/2015 | 12/06/2015 | 16/12/2016 | Amendment No 17 | 657m | North East |
| B4 | Mixed Use | | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 19/02/2016 | | 659m | South East |
| SP2 | Infrastructure | | Sydney Local Environmental Plan 2012 | 12/06/2015 | 12/06/2015 | 16/12/2016 | Amendment No 17 | 674m | North |
| B7 | Business Park | | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 19/02/2016 | | 687m | North West |
| B7 | Business Park | | Sydney Local Environmental Plan 2012 | 12/06/2015 | 12/06/2015 | 16/12/2016 | Amendment No 17 | 694m | North East |
| RE1 | Public Recreation | | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 19/02/2016 | | 716m | North East |
| R3 | Medium Density Residential | | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 19/02/2016 | | 719m | North East |
| B5 | Business Development | | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 19/02/2016 | | 730m | South East |
| SP2 | Infrastructure | Railway | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 19/02/2016 | | 730m | South East |
| SP2 | Infrastructure | Airport | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 19/02/2016 | | 732m | South East |

| Zone | Description | Purpose | LEP or SEPP | Published Date | Commenced Date | Currency Date | Amendment | Distance | Direction |
|------|----------------------------|---------------------------|--|----------------|----------------|---------------|-----------------|----------|------------|
| B2 | Local Centre | | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 19/02/2016 | | 744m | North East |
| RE1 | Public Recreation | | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 19/02/2016 | | 744m | East |
| SP2 | Infrastructure | Classified Road | Sydney Local Environmental Plan 2012 | 14/12/2012 | 14/12/2012 | 16/12/2016 | | 851m | North East |
| SP2 | Infrastructure | Educational Establishment | Sydney Local Environmental Plan 2012 | 14/12/2012 | 14/12/2012 | 16/12/2016 | | 863m | North East |
| RE1 | Public Recreation | | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 19/02/2016 | | 906m | South East |
| IN2 | Light Industrial | | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 19/02/2016 | | 910m | South East |
| B7 | Business Park | | Sydney Local Environmental Plan 2012 | 12/06/2015 | 12/06/2015 | 16/12/2016 | Amendment No 17 | 969m | North East |
| R2 | Low Density Residential | | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 19/02/2016 | | 979m | South East |
| IN1 | General Industrial | | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 19/02/2016 | | 983m | North West |
| R3 | Medium Density Residential | | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 19/02/2016 | | 984m | North East |

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Local Environmental Plan

146-154 O'Riordan Street, Mascot, NSW 2020

Minimum Subdivision Lot Size

What are the onsite Local Environmental Plan Minimum Subdivision Lot Sizes?

| Symbol | Minimum Lot Size | LEP or SEPP | Published Date | Commenced Date | Currency Date | Amendment | Percentage of Site Area |
|---------|------------------|-------------|----------------|----------------|---------------|-----------|-------------------------|
| No Data | | | | | | | |

Maximum Height of Building

What are the onsite Local Environmental Plan Maximum Height of Buildings?

| Symbol | Maximum Height of Building | LEP or SEPP | Published Date | Commenced Date | Currency Date | Amendment | Percentage of Site Area |
|--------|----------------------------|--|----------------|----------------|---------------|-----------|-------------------------|
| 18 | 22.00 m | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | | 99.9 |

Floor Space Ratio

What are the onsite Local Environmental Plan Floor Space Ratios?

| Symbol | Floor Space Ratio | LEP or SEPP | Published Date | Commenced Date | Currency Date | Amendment | Percentage of Site Area |
|--------|-------------------|-------------|----------------|----------------|---------------|-----------|-------------------------|
| 84 | 3.00 | LEP | 21/06/2013 | 21/06/2013 | 09/10/2015 | | 99.9 |

Land Application

What are the onsite Local Environmental Plan Land Applications?

| Application Type | LEP or SEPP | Published Date | Commenced Date | Currency Date | Amendment | Percentage of Site Area |
|------------------|--|----------------|----------------|---------------|-----------|-------------------------|
| Included | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 21/06/2013 | | 100 |

Land Reservation Acquisition

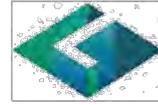
What are the onsite Local Environmental Plan Land Reservation Acquisitions?

| Reservation | LEP | Published Date | Commenced Date | Currency Date | Amendment | Comments | Percentage of Site Area |
|-------------|-----|----------------|----------------|---------------|-----------|----------|-------------------------|
| No Data | | | | | | | |

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Heritage Items

146-154 O'Riordan Street, Mascot, NSW 2020



Heritage

146-154 O'Riordan Street, Mascot, NSW 2020

State Heritage Items

What are the State Heritage Items located within the dataset buffer?

| Map Id | Name | Address | LGA | Listing Date | Listing No | Plan No | Distance | Direction |
|--------|----------------------|---------|-----|--------------|------------|---------|----------|-----------|
| N/A | No records in buffer | | | | | | | |

Heritage Data Source: NSW Crown Copyright - Planning & Environment
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Local Heritage Items

What are the Local Heritage Items located within the dataset buffer?

| Map Id | Name | Classification | Significance | LEP or Act | Published Date | Commenced Date | Currency Date | Distance | Direction |
|--------------|---|------------------|--------------|--|----------------|----------------|---------------|----------|------------|
| 182 | Mascot Park | Item - Landscape | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 0m | North East |
| 1139 | Mascot Public School Building Group | Item - General | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 61m | South East |
| 1129 | House group | Item - General | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 276m | South |
| 1130 | Mature Ficus | Item - Landscape | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 278m | South |
| 1131 | House - "Daktari" | Item - General | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 278m | South |
| 168 | Memorial Park | Item - Landscape | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 332m | East |
| 195 | M.B.W.S. Pumping Station | Item - General | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 332m | North East |
| 13, 168, 170 | Commonwealth Water Pumping Station and Sewerage Pumping Station | Item - General | State | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 359m | South West |
| 194 | Botany Family Day Care | Item - General | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 386m | East |
| 127 | Mature Ficus | Item - Landscape | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 432m | East |
| 134 | Mature Hoop Pine | Item - Landscape | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 501m | East |
| 135 | House | Item - General | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 503m | East |
| 177 | Former Tennyson Hotel | Item - General | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 518m | South East |
| 139 | Commercial Building Group | Item - General | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 526m | South East |

| Map Id | Name | Classification | Significance | LEP or Act | Published Date | Commenced Date | Currency Date | Distance | Direction |
|--------|-------------------------------------|----------------|--------------|--|----------------|----------------|---------------|----------|------------|
| I33 | Commercial Building Group | Item - General | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 527m | East |
| I32 | Coronation Hall | Item - General | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 537m | East |
| I31 | Former National Bank of Australasia | Item - General | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 559m | East |
| I30 | Electricity Substation No 147 | Item - General | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 571m | East |
| I41 | Commercial Building Group | Item - General | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 574m | South East |
| I29 | House Group | Item - General | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 575m | East |
| I42 | Commercial Building Group | Item - General | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 578m | South East |
| I186 | House | Item - General | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 579m | East |
| I43 | Commercial Building Group | Item - General | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 587m | South East |
| I44 | Commercial Building Group | Item - General | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 591m | South East |
| I148 | House | Item - General | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 600m | South East |
| I45 | Commercial Building Group | Item - General | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 601m | South East |
| I93 | Fire Station | Item - General | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 609m | East |
| I88 | Uniting Church and Rectory | Item - General | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 613m | East |
| I116 | House | Item - General | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 621m | South East |
| I46 | Commercial Building Group | Item - General | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 637m | South East |
| I152 | House | Item - General | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 646m | North East |
| I149 | Terrace Group | Item - General | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 648m | South East |
| I117 | House | Item - General | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 657m | South East |
| I101 | House Group | Item - General | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 667m | East |
| I92 | House - "Highhurstwood" | Item - General | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 683m | East |
| I85 | House | Item - General | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 684m | East |
| I147 | House - "Beverley" | Item - General | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 684m | South East |
| I91 | House - "Ofara" | Item - General | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 697m | East |

| Map Id | Name | Classification | Significance | LEP or Act | Published Date | Commenced Date | Currency Date | Distance | Direction |
|--------|-------------------------------------|----------------|--------------|--|----------------|----------------|---------------|----------|------------|
| I48 | Single Storey Terrace Group | Item - General | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 703m | South East |
| I90 | House | Item - General | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 707m | East |
| I134 | House | Item - General | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 708m | South East |
| I135 | House | Item - General | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 711m | South East |
| I89 | House | Item - General | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 719m | East |
| I87 | House | Item - General | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 727m | East |
| I86 | Shop | Item - General | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 738m | East |
| I28 | Commercial Building Group | Item - General | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 744m | North East |
| I136 | House | Item - General | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 752m | South East |
| I118 | Corner Store | Item - General | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 758m | South East |
| I133 | House Group | Item - General | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 764m | South East |
| I145 | House | Item - General | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 764m | East |
| I26 | Former Bank Building | Item - General | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 772m | North East |
| I28 | Commercial Building Group | Item - General | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 778m | North East |
| I167 | House | Item - General | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 780m | East |
| I119 | House | Item - General | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 802m | South East |
| I144 | House | Item - General | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 810m | East |
| I70 | New Market Hotel | Item - General | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 814m | North East |
| I2227 | Former H. G. Whittle & Sons Factory | Item - General | Local | Sydney Local Environmental Plan 2012 | 22/01/2016 | 22/01/2016 | 06/05/2016 | 825m | North East |
| I146 | House Group | Item - General | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 827m | South East |
| I2229 | Former White Way Service Station | Item - General | Local | Sydney Local Environmental Plan 2012 | 22/01/2016 | 22/01/2016 | 06/05/2016 | 833m | North East |
| I137 | House | Item - General | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 840m | South East |
| I108 | Terrace Group | Item - General | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 850m | North East |
| I143 | Terrace Group | Item - General | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 854m | South East |

| Map Id | Name | Classification | Significance | LEP or Act | Published Date | Commenced Date | Currency Date | Distance | Direction |
|--------|---|----------------|--------------|--|----------------|----------------|---------------|----------|------------|
| I2225 | Former Sil-Ora Dental Products Factory | Item - General | Local | Sydney Local Environmental Plan 2012 | 22/01/2016 | 22/01/2016 | 06/05/2016 | 855m | North East |
| I84 | Shop | Item - General | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 856m | East |
| I107 | Terrace Group | Item - General | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 858m | North East |
| I1373 | Gardeners Road Public School | Item - General | Local | Sydney Local Environmental Plan 2012 | 14/12/2012 | 14/12/2012 | 06/05/2016 | 863m | North East |
| I2226 | Electricity Substation No. 375 | Item - General | Local | Sydney Local Environmental Plan 2012 | 22/01/2016 | 22/01/2016 | 06/05/2016 | 878m | North East |
| I142 | House Group | Item - General | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 884m | South East |
| I7 | Former warehouse 'Boltons Trading Co' (15-25 Birmingham Street) | Item - General | Local | Sydney Local Environmental Plan 2012 | 14/12/2012 | 14/12/2012 | 06/05/2016 | 888m | North East |
| I120 | House "Verandale" | Item - General | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 890m | South East |
| I138 | House | Item - General | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 907m | South East |
| I50 | House | Item - General | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 912m | South East |
| I51 | House | Item - General | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 918m | South East |
| I52 | Beckenham Memorial Church | Item - General | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 930m | South East |
| I83 | House | Item - General | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 938m | East |
| I106 | House | Item - General | Local | Botany Bay Local Environmental Plan 2013 | 21/06/2013 | 21/06/2013 | 09/10/2015 | 989m | North East |
| I2224 | Former Walter Barr Pty Ltd Factory | Item - General | Local | Sydney Local Environmental Plan 2012 | 22/01/2016 | 22/01/2016 | 06/05/2016 | 997m | North East |

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Natural Hazards

146-154 O’Riordan Street, Mascot, NSW 2020

Bush Fire Prone Land

What are the nearest Bush Fire Prone Land Categories that exist within the dataset buffer?

| Bush Fire Prone Land Category | Distance | Direction |
|-------------------------------|----------|-----------|
| No records within buffer | | |

NSW Bush Fire Prone Land - © NSW Rural Fire Service under Creative Commons 4.0 International Licence

Ecological Constraints - Native Vegetation & RAMSAR Wetlands
 146-154 O'Riordan Street, Mascot, NSW 2020



Ecological Constraints

146-154 O’Riordan Street, Mascot, NSW 2020

Native Vegetation

What native vegetation exists within the dataset buffer?

| Map ID | Map Unit Name | Threatened Ecological Community NSW | Threatened Ecological Community EPBC Act | Understorey | Disturbance | Disturbance Index | Dominant Species | Dist | Direction |
|-----------|--------------------------------|-------------------------------------|--|------------------|------------------|-------------------|--------------------------|------|------------|
| Urban_E/N | Urban_E/N: Urban Exotic/Native | | | 00: Not assessed | 00: Not assessed | 0: Not assessed | Urban Exotic/Native | 0m | Onsite |
| Weed_Ex | Weed_Ex: Weeds and Exotics | | | 00: Not assessed | 00: Not assessed | 0: Not assessed | Exotic Species >90%cover | 724m | South East |

Native Vegetation of the Sydney Metropolitan Area : NSW Office of Environment and Heritage
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RAMSAR Wetlands

What RAMSAR Wetland areas exist within the dataset buffer?

| Map ID | RAMSAR Name | Wetland Name | Designation Date | Source | Distance | Direction |
|--------|----------------------|--------------|------------------|--------|----------|-----------|
| N/A | No records in buffer | | | | | |

RAMSAR Wetlands Data Source: © Commonwealth of Australia - Department of Environment

Ecological Constraints

146-154 O’Riordan Street, Mascot, NSW 2020

Groundwater Dependent Ecosystems Atlas

| Type | GDE Potential | Geomorphology | Ecosystem Type | Aquifer Geology | Distance |
|------|--------------------------|---------------|----------------|-----------------|----------|
| N/A | No records within buffer | | | | |

Groundwater Dependent Ecosystems Atlas Data Source: The Bureau of Meteorology
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Ecological Constraints

146-154 O'Riordan Street, Mascot, NSW 2020

Inflow Dependent Ecosystems Likelihood

| Type | IDE Likelihood | Geomorphology | Ecosystem Type | Aquifer Geology | Distance |
|------|--------------------------|---------------|----------------|-----------------|----------|
| N/A | No records within buffer | | | | |

Inflow Dependent Ecosystems Likelihood Data Source: The Bureau of Meteorology
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Ecological Constraints

146-154 O'Riordan Street, Mascot, NSW 2020

NSW BioNet Atlas

Species on the NSW BioNet Atlas that have a NSW or federal conservation status, a NSW sensitivity status, or are listed under a migratory species agreement, and are within 10km of the site?

| Kingdom | Class | Scientific | Common | NSW Conservation Status | NSW Sensitivity Class | Federal Conservation Status | Migratory Species Agreements |
|----------|----------|--|----------------------------|-------------------------|-----------------------|-----------------------------|------------------------------|
| Animalia | Amphibia | <i>Crinia tinnula</i> | Wallum Froglet | Vulnerable | Not Sensitive | Not Listed | |
| Animalia | Amphibia | <i>Litoria aurea</i> | Green and Golden Bell Frog | Endangered | Not Sensitive | Vulnerable | |
| Animalia | Amphibia | <i>Pseudophryne australis</i> | Red-crowned Toadlet | Vulnerable | Not Sensitive | Not Listed | |
| Animalia | Aves | <i>Actitis hypoleucos</i> | Common Sandpiper | Not Listed | Not Sensitive | Not Listed | ROKAMBA; CAMBA; JAMBA |
| Animalia | Aves | <i>Anseranas semipalmata</i> | Maggie Goose | Vulnerable | Not Sensitive | Not Listed | |
| Animalia | Aves | <i>Anthochaera phrygia</i> | Regent Honeyeater | Critically Endangered | Not Sensitive | Critically Endangered | |
| Animalia | Aves | <i>Apus pacificus</i> | Fork-tailed Swift | Not Listed | Not Sensitive | Not Listed | ROKAMBA; CAMBA; JAMBA |
| Animalia | Aves | <i>Ardea ibis</i> | Cattle Egret | Not Listed | Not Sensitive | Not Listed | CAMBA; JAMBA |
| Animalia | Aves | <i>Ardenna carneipes</i> | Flesh-footed Shearwater | Vulnerable | Not Sensitive | Not Listed | ROKAMBA; JAMBA |
| Animalia | Aves | <i>Ardenna pacificus</i> | Wedge-tailed Shearwater | Not Listed | Not Sensitive | Not Listed | JAMBA |
| Animalia | Aves | <i>Ardenna tenuirostris</i> | Short-tailed Shearwater | Not Listed | Not Sensitive | Not Listed | ROKAMBA; JAMBA |
| Animalia | Aves | <i>Arenaria interpres</i> | Ruddy Turnstone | Not Listed | Not Sensitive | Not Listed | ROKAMBA; CAMBA; JAMBA |
| Animalia | Aves | <i>Artamus cyanopterus cyanopterus</i> | Dusky Woodswallow | Vulnerable | Not Sensitive | Not Listed | |
| Animalia | Aves | <i>Botaurus poiciloptilus</i> | Australasian Bittern | Endangered | Not Sensitive | Endangered | |
| Animalia | Aves | <i>Burhinus grallarius</i> | Bush Stone-curlew | Endangered | Not Sensitive | Not Listed | |
| Animalia | Aves | <i>Calidris acuminata</i> | Sharp-tailed Sandpiper | Not Listed | Not Sensitive | Not Listed | ROKAMBA; CAMBA; JAMBA |
| Animalia | Aves | <i>Calidris alba</i> | Sanderling | Vulnerable | Not Sensitive | Not Listed | ROKAMBA; CAMBA; JAMBA |
| Animalia | Aves | <i>Calidris bairdi</i> | Baird's Sandpiper | Not Listed | Not Sensitive | Not Listed | ROKAMBA; JAMBA |
| Animalia | Aves | <i>Calidris canutus</i> | Red Knot | Not Listed | Not Sensitive | Endangered | ROKAMBA; CAMBA; JAMBA |
| Animalia | Aves | <i>Calidris ferruginea</i> | Curlew Sandpiper | Endangered | Not Sensitive | Critically Endangered | ROKAMBA; CAMBA; JAMBA |
| Animalia | Aves | <i>Calidris melanotos</i> | Pectoral Sandpiper | Not Listed | Not Sensitive | Not Listed | ROKAMBA; JAMBA |
| Animalia | Aves | <i>Calidris rubicollis</i> | Red-necked Stint | Not Listed | Not Sensitive | Not Listed | ROKAMBA; CAMBA; JAMBA |
| Animalia | Aves | <i>Calidris tenuirostris</i> | Great Knot | Vulnerable | Not Sensitive | Critically Endangered | ROKAMBA; CAMBA; JAMBA |
| Animalia | Aves | <i>Collocephalon imbricatum</i> | Gang-gang Cockatoo | Vulnerable | Category 3 | Not Listed | |
| Animalia | Aves | <i>Calyptorhynchus lathami</i> | Glossy Black-Cockatoo | Vulnerable | Category 2 | Not Listed | |
| Animalia | Aves | <i>Charadrius leschenaultii</i> | Greater Sandplover | Vulnerable | Not Sensitive | Vulnerable | ROKAMBA; CAMBA; JAMBA |
| Animalia | Aves | <i>Charadrius mongolus</i> | Lesser Sandplover | Vulnerable | Not Sensitive | Endangered | ROKAMBA; CAMBA; JAMBA |

| Kingdom | Class | Scientific | Common | NSW Conservation Status | NSW Sensitivity Class | Federal Conservation Status | Migratory Species Agreements |
|----------|-------|----------------------------------|---------------------------|-----------------------------------|-----------------------|-----------------------------|------------------------------|
| Animalia | Aves | <i>Charadrius veredus</i> | Oriental Plover | Not Listed | Not Sensitive | Not Listed | ROKAMBA, JAMBA |
| Animalia | Aves | <i>Chlidonias leucoplerus</i> | White-winged Black Tern | Not Listed | Not Sensitive | Not Listed | ROKAMBA; CAMBA; JAMBA |
| Animalia | Aves | <i>Dasyornis brachyplerus</i> | Eastern Brislebird | Endangered | Category 2 | Endangered | |
| Animalia | Aves | <i>Diomedea exulans</i> | Wandering Albatross | Endangered | Not Sensitive | Endangered | JAMBA |
| Animalia | Aves | <i>Diomedea gibsoni</i> | Gibson's Albatross | Vulnerable | Not Sensitive | Vulnerable | |
| Animalia | Aves | <i>Egretta sacra</i> | Eastern Reef Egret | Not Listed | Not Sensitive | Not Listed | CAMBA |
| Animalia | Aves | <i>Ephianura albatross</i> | White-fronted Chat | Endangered Population, Vulnerable | Not Sensitive | Not Listed | |
| Animalia | Aves | <i>Erythrorhynchus radiatus</i> | Red Goshawk | Critically Endangered | Category 2 | Vulnerable | |
| Animalia | Aves | <i>Esacus magnirostris</i> | Beach Stone-curlew | Critically Endangered | Not Sensitive | Not Listed | |
| Animalia | Aves | <i>Fregata ariel</i> | Lesser Frigatebird | Not Listed | Not Sensitive | Not Listed | ROKAMBA; CAMBA; JAMBA |
| Animalia | Aves | <i>Gallinago hardwickii</i> | Latham's Snipe | Not Listed | Not Sensitive | Not Listed | ROKAMBA; CAMBA; JAMBA |
| Animalia | Aves | <i>Gelochelidon nitotica</i> | Gull-billed Tern | Not Listed | Not Sensitive | Not Listed | CAMBA |
| Animalia | Aves | <i>Haematopus fuliginosus</i> | Sooty Oystercatcher | Vulnerable | Not Sensitive | Not Listed | |
| Animalia | Aves | <i>Haematopus longirostris</i> | Pied Oystercatcher | Endangered | Not Sensitive | Not Listed | |
| Animalia | Aves | <i>Haliaeetus leucogaster</i> | White-bellied Sea-Eagle | Vulnerable | Not Sensitive | Not Listed | CAMBA |
| Animalia | Aves | <i>Hieraaetus morphnoides</i> | Little Eagle | Vulnerable | Not Sensitive | Not Listed | |
| Animalia | Aves | <i>Hirundapus caudacutus</i> | White-throated Needletail | Not Listed | Not Sensitive | Not Listed | ROKAMBA; CAMBA; JAMBA |
| Animalia | Aves | <i>Hydroprogne caspia</i> | Caspian Tern | Not Listed | Not Sensitive | Not Listed | CAMBA; JAMBA |
| Animalia | Aves | <i>Ixobrychus flavicollis</i> | Black Bittern | Vulnerable | Not Sensitive | Not Listed | |
| Animalia | Aves | <i>Lathamus discolor</i> | Swift Parrot | Endangered | Category 3 | Critically Endangered | |
| Animalia | Aves | <i>Limicola falcinellus</i> | Broad-billed Sandpiper | Vulnerable | Not Sensitive | Not Listed | ROKAMBA; CAMBA; JAMBA |
| Animalia | Aves | <i>Limosa lapponica</i> | Bar-tailed Godwit | Not Listed | Not Sensitive | Not Listed | ROKAMBA; CAMBA; JAMBA |
| Animalia | Aves | <i>Limosa limosa</i> | Black-tailed Godwit | Vulnerable | Not Sensitive | Not Listed | ROKAMBA; CAMBA; JAMBA |
| Animalia | Aves | <i>Lophoictinia isura</i> | Square-tailed Kite | Vulnerable | Category 3 | Not Listed | |
| Animalia | Aves | <i>Macronectes giganteus</i> | Southern Giant Petrel | Endangered | Not Sensitive | Endangered | |
| Animalia | Aves | <i>Macronectes halli</i> | Northern Giant-Petrel | Vulnerable | Not Sensitive | Vulnerable | |
| Animalia | Aves | <i>Merops ornatus</i> | Rainbow Bee-eater | Not Listed | Not Sensitive | Not Listed | JAMBA |
| Animalia | Aves | <i>Neochmia ruficauda</i> | Star Finch | Presumed Extinct | Not Sensitive | Endangered | |
| Animalia | Aves | <i>Neophema chrysogaster</i> | Orange-bellied Parrot | Critically Endangered | Category 3 | Critically Endangered | |
| Animalia | Aves | <i>Neophema pulchella</i> | Turquoise Parrot | Vulnerable | Category 3 | Not Listed | |
| Animalia | Aves | <i>Ninox strenua</i> | Powerful Owl | Vulnerable | Category 3 | Not Listed | |
| Animalia | Aves | <i>Numerius madagascariensis</i> | Eastern Curlew | Not Listed | Not Sensitive | Critically Endangered | ROKAMBA; CAMBA; JAMBA |
| Animalia | Aves | <i>Numerius minutus</i> | Little Curlew | Not Listed | Not Sensitive | Not Listed | ROKAMBA; CAMBA; JAMBA |

| Kingdom | Class | Scientific | Common | NSW Conservation Status | NSW Sensitivity Class | Federal Conservation Status | Migratory Species Agreements |
|----------|----------|------------------------------------|--------------------------|-------------------------|-----------------------|-----------------------------|------------------------------|
| Animalia | Aves | <i>Numenius phaeopus</i> | Whimbrel | Not Listed | Not Sensitive | Not Listed | ROKAMBA; CAMBA; JAMBA |
| Animalia | Aves | <i>Onychoprion fuscatus</i> | Sooty Tern | Vulnerable | Not Sensitive | Not Listed | |
| Animalia | Aves | <i>Pandion cristatus</i> | Eastern Osprey | Vulnerable | Category 3 | Not Listed | |
| Animalia | Aves | <i>Petroica boodang</i> | Scarlet Robin | Vulnerable | Not Sensitive | Not Listed | |
| Animalia | Aves | <i>Petroica phoenicea</i> | Flame Robin | Vulnerable | Not Sensitive | Not Listed | |
| Animalia | Aves | <i>Fezoporus wallicus wallicus</i> | Eastern Ground Parrot | Vulnerable | Category 3 | Not Listed | |
| Animalia | Aves | <i>Phaethon lepturus</i> | White-tailed Tropicbird | Not Listed | Not Sensitive | Not Listed | CAMBA; JAMBA |
| Animalia | Aves | <i>Pluvialis fulva</i> | Pacific Golden Plover | Not Listed | Not Sensitive | Not Listed | ROKAMBA; CAMBA; JAMBA |
| Animalia | Aves | <i>Pluvialis squatarola</i> | Grey Plover | Not Listed | Not Sensitive | Not Listed | ROKAMBA; CAMBA; JAMBA |
| Animalia | Aves | <i>Polytelis swainsonii</i> | Superb Parrot | Vulnerable | Category 3 | Vulnerable | |
| Animalia | Aves | <i>Procelsterna cerulea</i> | Grey Ternlet | Vulnerable | Not Sensitive | Not Listed | |
| Animalia | Aves | <i>Ptilinopus regina</i> | Rose-crowned Fruit-Dove | Vulnerable | Not Sensitive | Not Listed | |
| Animalia | Aves | <i>Ptilinopus superbus</i> | Superb Fruit-Dove | Vulnerable | Not Sensitive | Not Listed | |
| Animalia | Aves | <i>Rostratula australis</i> | Australian Painted Snipe | Endangered | Not Sensitive | Endangered | |
| Animalia | Aves | <i>Stagonopleura guttata</i> | Diamond Firetail | Vulnerable | Not Sensitive | Not Listed | |
| Animalia | Aves | <i>Stercorarius parasiticus</i> | Arctic Jaeger | Not Listed | Not Sensitive | Not Listed | ROKAMBA; JAMBA |
| Animalia | Aves | <i>Stercorarius pomarinus</i> | Pomarine Jaeger | Not Listed | Not Sensitive | Not Listed | CAMBA; JAMBA |
| Animalia | Aves | <i>Sterna hirundo</i> | Common Tern | Not Listed | Not Sensitive | Not Listed | ROKAMBA; CAMBA; JAMBA |
| Animalia | Aves | <i>Sterna albifrons</i> | Little Tern | Endangered | Not Sensitive | Not Listed | ROKAMBA; CAMBA; JAMBA |
| Animalia | Aves | <i>Stictonetta naevosa</i> | Freckled Duck | Vulnerable | Not Sensitive | Not Listed | |
| Animalia | Aves | <i>Sula dactylatra</i> | Masked Booby | Vulnerable | Not Sensitive | Not Listed | ROKAMBA; JAMBA |
| Animalia | Aves | <i>Thalassarche cauta</i> | Shy Albatross | Vulnerable | Not Sensitive | Vulnerable | |
| Animalia | Aves | <i>Thalassarche chrystoma</i> | Grey-headed Albatross | Not Listed | Not Sensitive | Endangered | |
| Animalia | Aves | <i>Thalassarche melanophrys</i> | Black-browed Albatross | Vulnerable | Not Sensitive | Vulnerable | |
| Animalia | Aves | <i>Tringa brevipes</i> | Grey-tailed Tattler | Not Listed | Not Sensitive | Not Listed | ROKAMBA; CAMBA; JAMBA |
| Animalia | Aves | <i>Tringa glareola</i> | Wood Sandpiper | Not Listed | Not Sensitive | Not Listed | ROKAMBA; CAMBA; JAMBA |
| Animalia | Aves | <i>Tringa incana</i> | Wandering Tattler | Not Listed | Not Sensitive | Not Listed | JAMBA |
| Animalia | Aves | <i>Tringa nebularia</i> | Common Greenshank | Not Listed | Not Sensitive | Not Listed | ROKAMBA; CAMBA; JAMBA |
| Animalia | Aves | <i>Tringa stagnatilis</i> | Marsh Sandpiper | Not Listed | Not Sensitive | Not Listed | ROKAMBA; CAMBA; JAMBA |
| Animalia | Aves | <i>Tryngites subruficollis</i> | Buff-breasted Sandpiper | Not Listed | Not Sensitive | Not Listed | ROKAMBA; JAMBA |
| Animalia | Aves | <i>Tyto novaehollandiae</i> | Masked Owl | Vulnerable | Category 3 | Not Listed | |
| Animalia | Aves | <i>Xenus cinereus</i> | Terek Sandpiper | Vulnerable | Not Sensitive | Not Listed | ROKAMBA; CAMBA; JAMBA |
| Animalia | Mammalia | <i>Aepyprymnus rufescens</i> | Rufous Bettong | Vulnerable | Not Sensitive | Not Listed | |
| Animalia | Mammalia | <i>Arctocephalus forsteri</i> | New Zealand Fur-seal | Vulnerable | Not Sensitive | Not Listed | |

| Kingdom | Class | Scientific | Common | NSW Conservation Status | NSW Sensitivity Class | Federal Conservation Status | Migratory Species Agreements |
|----------|----------|--|--------------------------------|-------------------------|-----------------------|-----------------------------|------------------------------|
| Animalia | Mammalia | <i>Arctocephalus pusillus doriferus</i> | Australian Fur-seal | Vulnerable | Not Sensitive | Not Listed | |
| Animalia | Mammalia | <i>Dasyurus maculatus</i> | Spotted-tailed Quoll | Vulnerable | Not Sensitive | Endangered | |
| Animalia | Mammalia | <i>Dasyurus viverrinus</i> | Eastern Quoll | Endangered | Not Sensitive | Endangered | |
| Animalia | Mammalia | <i>Dugong dugon</i> | Dugong | Endangered | Not Sensitive | Not Listed | |
| Animalia | Mammalia | <i>Eubalaena australis</i> | Southern Right Whale | Endangered | Not Sensitive | Endangered | |
| Animalia | Mammalia | <i>Megaptera novaeangliae</i> | Humpback Whale | Vulnerable | Not Sensitive | Vulnerable | |
| Animalia | Mammalia | <i>Miniopterus australis</i> | Little Bentwing-bat | Vulnerable | Not Sensitive | Not Listed | |
| Animalia | Mammalia | <i>Miniopterus schreibersii oceanensis</i> | Eastern Bentwing-bat | Vulnerable | Not Sensitive | Not Listed | |
| Animalia | Mammalia | <i>Mormopterus norfolkensis</i> | Eastern Freetail-bat | Vulnerable | Not Sensitive | Not Listed | |
| Animalia | Mammalia | <i>Myotis macropus</i> | Southern Myotis | Vulnerable | Not Sensitive | Not Listed | |
| Animalia | Mammalia | <i>Perameles nasuta</i> | Long-nosed Bandicoot | Endangered Population | Not Sensitive | Not Listed | |
| Animalia | Mammalia | <i>Pteropus poliocephalus</i> | Grey-headed Flying-fox | Vulnerable | Not Sensitive | Vulnerable | |
| Animalia | Mammalia | <i>Saccolaimus flaviventris</i> | Yellow-bellied Sheath-tail-bat | Vulnerable | Not Sensitive | Not Listed | |
| Animalia | Mammalia | <i>Scoteanax rueppellii</i> | Greater Broad-nosed Bat | Vulnerable | Not Sensitive | Not Listed | |
| Animalia | Reptilia | <i>Chelonia mydas</i> | Green Turtle | Vulnerable | Not Sensitive | Vulnerable | |
| Animalia | Reptilia | <i>Dermochelys coriacea</i> | Leatherback Turtle | Endangered | Not Sensitive | Endangered | |
| Plantae | Flora | <i>Acacia bynoeana</i> | Bynoe's Wattle | Endangered | Not Sensitive | Vulnerable | |
| Plantae | Flora | <i>Acacia gordonii</i> | | Endangered | Not Sensitive | Endangered | |
| Plantae | Flora | <i>Acacia prominens</i> | Gosford Wattle | Endangered Population | Not Sensitive | Not Listed | |
| Plantae | Flora | <i>Acacia pubescens</i> | Downy Wattle | Vulnerable | Not Sensitive | Vulnerable | |
| Plantae | Flora | <i>Acacia terminalis</i> subsp. <i>terminalis</i> | Sunshine Wattle | Endangered | Not Sensitive | Endangered | |
| Plantae | Flora | <i>Amperea sphaerocladia</i> var. <i>pedicellata</i> | | Presumed Extinct | Not Sensitive | Extinct | |
| Plantae | Flora | <i>Caladenia tessellata</i> | Thick Lip Spider Orchid | Endangered | Category 2 | Vulnerable | |
| Plantae | Flora | <i>Calistemon linearifolius</i> | Netted Bottle Brush | Vulnerable | Category 3 | Not Listed | |
| Plantae | Flora | <i>Dichanthium setosum</i> | Bluegrass | Vulnerable | Not Sensitive | Vulnerable | |
| Plantae | Flora | <i>Diuris arenaria</i> | Sand Doubletail | Endangered | Category 2 | Not Listed | |
| Plantae | Flora | <i>Doryanthes palmeri</i> | Giant Spear Lily | Vulnerable | Not Sensitive | Not Listed | |
| Plantae | Flora | <i>Eucalyptus camfieldii</i> | Camfield's Stringybark | Vulnerable | Not Sensitive | Vulnerable | |
| Plantae | Flora | <i>Eucalyptus fracta</i> | Broken Back Ironbark | Vulnerable | Not Sensitive | Not Listed | |
| Plantae | Flora | <i>Eucalyptus laucoxylon</i> subsp. <i>puberosa</i> | Yellow Gum | Vulnerable | Not Sensitive | Not Listed | |
| Plantae | Flora | <i>Eucalyptus nicholii</i> | Narrow-leaved Black Peppermint | Vulnerable | Not Sensitive | Vulnerable | |
| Plantae | Flora | <i>Eucalyptus pulverulenta</i> | Silver-leaved Gum | Vulnerable | Not Sensitive | Vulnerable | |
| Plantae | Flora | <i>Eucalyptus scoparia</i> | Wallangarra White Gum | Endangered | Not Sensitive | Vulnerable | |

| Kingdom | Class | Scientific | Common | NSW Conservation Status | NSW Sensitivity Class | Federal Conservation Status | Migratory Species Agreements |
|---------|-------|--|------------------------|-------------------------|-----------------------|-----------------------------|------------------------------|
| Plantae | Flora | <i>Litsea puberula</i> | | Endangered | Not Sensitive | Not Listed | |
| Plantae | Flora | <i>Macadamia integrifolia</i> | Macadamia Nut | Not Listed | Not Sensitive | Vulnerable | |
| Plantae | Flora | <i>Maundia ligochlooides</i> | | Vulnerable | Not Sensitive | Not Listed | |
| Plantae | Flora | <i>Melaleuca deanei</i> | Deane's Paperbark | Vulnerable | Not Sensitive | Vulnerable | |
| Plantae | Flora | <i>Persoonia hirsuta</i> | Hairy Geebung | Endangered | Category 3 | Endangered | |
| Plantae | Flora | <i>Pimelea curviflora</i> subsp. <i>curviflora</i> | | Vulnerable | Not Sensitive | Vulnerable | |
| Plantae | Flora | <i>Prostanthera maritima</i> | Seaforth Mintbush | Critically Endangered | Category 1 | Critically Endangered | |
| Plantae | Flora | <i>Senecio spathulatus</i> | Coast Groundsel | Endangered | Not Sensitive | Not Listed | |
| Plantae | Flora | <i>Senna accinis</i> | Rainforest Cassia | Endangered | Not Sensitive | Not Listed | |
| Plantae | Flora | <i>Syzygium paniculatum</i> | Magenta Lilly Pilly | Endangered | Not Sensitive | Vulnerable | |
| Plantae | Flora | <i>Tetraloche glandulosa</i> | | Vulnerable | Not Sensitive | Not Listed | |
| Plantae | Flora | <i>Tetraloche juncea</i> | Black-eyed Susan | Vulnerable | Not Sensitive | Vulnerable | |
| Plantae | Flora | <i>Thesium australe</i> | Austral Toadflax | Vulnerable | Not Sensitive | Vulnerable | |
| Plantae | Flora | <i>Wilsonia backhousei</i> | Narrow-leaved Wilsonia | Vulnerable | Not Sensitive | Not Listed | |

Data does not include NSW category 1 sensitive species.

NSW BioNet: © State of NSW and Office of Environment and Heritage

Data obtained 05/08/2018

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Appendix C
Certificates of
Titles

ADVANCE LEGAL SEARCHERS PTY LTD

(ACN 147 943 842)
ABN 82 147 943 842

18/36 Osborne Road,
Manly NSW 2095

Telephone: +612 9977 6713
Mobile: 0412 169 809
Email: search@alsearchers.com.au

06th August 2018

LOTSEARCH PTY LTD
Level 3, 68 Alfred Street,
MILSONS POINT, NSW 2061

Attention: Howard Waldron,

**RE: 146-154 O’Riordan Street,
Mascot
Job No. LS003932_EP**

| | | | |
|----------------|---------------|-------------------|----------|
| Note 1: | Lot 15 | DP 1232496 | (page 1) |
| Note 2: | Lot 14 | DP 1232496 | (page 5) |
| Note 3: | Lot 13 | DP 1232496 | (page 7) |
| Note 4: | Lot A | DP 402876 | (page 9) |

Note 1:

Current Search

Folio Identifier 15/1232496 (title attached)
DP 1232496 (plan attached)
Dated 02nd August 2018
Registered Proprietor:
JKN PARK PTY LTD

-2-

**Title Tree
Lot 15 DP 11934**

Folio Identifier 15/1232496

Folio Identifier 1/85597

Certificate of Title Volume 12181 Folio 96

Certificate of Title Volume 5565 Folio 36

PA35597

Conveyance Book 1917 No 776

New Trustee Book 1917 No 79

New Trustee Book 1582 No 924

Conveyance Book 151 No 697

Subject land within **Part Portion 136 Parish Botany**
Granted to John Roby Hatfield dated 7th April 1838

-3-

**Summary of proprietor(s)
Lot 15 DP 1232496**

| Year | Proprietor(s) |
|----------------------|---|
| | (Lot 15 DP 1232496) |
| 2018 – todate | JKN Park Pty Ltd |
| | (Lot 1 DP 85597) |
| 2013 – 2018 | JKN Park Pty Ltd |
| 2003 – 2013 | Stead Denton |
| 1994 – 2003 | Balfour Grange Pty Limited |
| <i>(1989 – 2018)</i> | <i>(various leases shown on Historical Folio 1/85597)</i> |
| 1988 – 1994 | Tohaha Pty Limited |
| | (Lot 1 DP 85597 – CTVol 12181 Fol 96) |
| 1987 – 1988 | Tohaha Pty Limited |
| 1980 – 1987 | State Superannuation Board |
| 1973 – 1980 | CDL Developments (No.1) Pty Limited |
| 1973 – 1973 | J.E.L Developments (Australia) Pty Limited |
| | (Part Portion 136 Parish Botany – Area 2 Roods 30 ¼ Perches – CT Vol 5565 Fol 36) |
| 1972 – 1973 | J.E.L Developments (Australia) Pty Limited |
| <i>(1968 – 1972)</i> | <i>(lease to Dowel Industries (NSW) Pty Limited)</i> |
| 1950 – 1972 | Westcott Hazell Engineering & Steel Limited |
| 1946 – 1950 | Norge Investments Pty Limited |
| 1946 – 1946 | Peder Martin Andersen, mechanical engineer |
| | (Part Portion 136 Parish Botany – Area 2 Roods 30 ¼ Perches – Conv Bk 1917 No 776) |
| 1942 – 1946 | Peder Martin Andersen, mechanical engineer |
| | (Part Portion 136 Parish Botany – Area 2 Roods 30 ¼ Perches – New Trustee Bk 1917 No 79) |
| 1942 – 1942 | William James Lodge, carter / trustee Charles Henry Lodge, retired Gardner / trustee John Lodge, estate |

Cont.

-4-

Cont.

| | |
|-------------|--|
| | (Part Portion 136 Parish Botany – Area 2 Roods 30 ¼ Perches – New Trustee Bk 1582 No 924) |
| 1929 – 1942 | Sarah Lodge, widow / administratrix William James Lodge / Trustee John Lodge, estate |
| 1907 – 1929 | Sarah Lodge, widow / executrix Emma Lodge, executrix John Lodge, estate |
| 1897 – 1907 | William James Lodge, executor John Lodge, estate |
| 1879 – 1897 | Charlotte Lodge, executrix John Lodge, estate |
| | (Part Portion 136 Parish Botany – Conv Bk 151 No 697) |
| 1875 – 1879 | John Lodge, restaurant keeper |

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Note 2:

Current Search

Folio Identifier 14/1232496 (title attached)

DP 1232496 (plan attached)

Dated 02nd August 2018

Registered Proprietor:

JKN PARK PTY LTD

Title Tree

Lot 14 DP 1232496

Folio Identifier 14/1232496

Folio Identifier A/364217

Certificate of Title Volume 15474 Folio 100

Certificate of Title Volume 6084 Folio 26

Certificate of Title Volume 5826 Folio 128

PA36370

Subject land within **Part Portion 136 Parish Botany**
Granted to John Roby Hatfield dated 7th April 1838

-6-

**Summary of proprietor(s)
Lot 14 DP 1232496**

| Year | Proprietor(s) |
|------------------------|---|
| | (Lot 14 DP 1232496) |
| 2018 – todate | JKN Park Pty Ltd |
| <i>(2018 – todate)</i> | <i>(various current leases shown on Folio Identifier 14/1232496)</i> |
| | (Lot A DP 364217) |
| 2013 – 2018 | JKN Park Pty Ltd |
| 2013 – 2013 | Dexus Funds Management Limited |
| 2002 – 2013 | Perpetual Trustee Company Limited |
| 2002 – 2002 | Paladin Australia Limited |
| 1997 – 2002 | Trust Company of Australia Limited |
| 1991 – 1997 | Fai Life Insurance Society Limited |
| 1989 – 1991 | Fai Properties Pty Limited |
| <i>(1989 – 2018)</i> | <i>(various leases shown on Historical Folio A/364217)</i> |
| | (Lot A DP364217 – CTVol 15474 Fol 100) |
| 1987 – 1989 | Fai Properties Pty Limited |
| <i>(1987 – 1989)</i> | <i>(various leases shown on CTVol 15474 Fol 100)</i> |
| | (Part Portion 136 Parish Botany – Area 1 Rood 30 ¼ Perches – CT Vol 6084 Fol 26) |
| 1982 – 1987 | Lexane Pty Limited |
| 1950 – 1982 | Gearin O’Riordan Limited |
| 1950 – 1950 | Norge Investments Pty Limited |
| | (Part Portion 136, Parish Botany – Area 1 Acre 1 Rood 20 Perches – CTVol 5826 Fol 128) |
| 1949 – 1950 | Norge Investments Pty Limited |
| 1948 – 1949 | The Council of the Municipality of Mascot |
| | (Part Portion 136, Parish Botany – Area 1 Acre 1 Rood 20 Perches) |
| Prior – 1948 | Sarah Emily Forster |

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Note 3:

Current Search

Folio Identifier 13/1232496 (title attached)
DP 1232496 (plan attached)
Dated 02nd August 2018
Registered Proprietor:
JKN PARK PTY LTD

Title Tree

Lot 13 DP 1232496

Folio Identifier 13/1232496

Folio Identifier A/320192

Certificate of Title Volume 15474 Folio 99

Certificate of Title Volume 4142 Folio 133

Certificate of Title Volume 1383 Folio 199

Subject land within **Part Portion 136 Parish Botany**
Granted to John Roby Hatfield dated 7th April 1838

-8-

**Summary of proprietor(s)
Lot 13 DP 1232496**

| Year | Proprietor(s) |
|------------------------|--|
| | (Lot 13 DP 1232496) |
| 2018 – todate | JKN Park Pty Ltd |
| <i>(2018 – todate)</i> | <i>(various current leases shown on Folio Identifier 13/1232496)</i> |
| | (Lot A DP 320192) |
| 2013 – 2018 | JKN Park Pty Ltd |
| 2013 – 2013 | Dexus Funds Management Limited |
| 2002 – 2013 | Perpetual Trustee Company Limited |
| 2002 – 2002 | Paladin Australia Limited |
| 1997 – 2002 | Trust Company of Australia Limited |
| 1991 – 1997 | Fai Life Insurance Society Limited |
| 1989 – 1991 | Fai Properties Pty Limited |
| <i>(1989 – 2018)</i> | <i>(various leases shown on Historical Folio A/364217)</i> |
| | (Lot A DP320192 – CTVol 15474 Fol 99) |
| 1987 – 1989 | Fai Properties Pty Limited |
| <i>(1987 – 1989)</i> | <i>(various leases shown on CTVol 15474 Fol 99)</i> |
| | (Part Portion 136, Parish Botany – Area 1 Acre 1 Rood 13 ¼ Perches – CT Vol 4142 Fol 133) |
| 1982 – 1987 | Lexane Pty Limited |
| 1967 – 1982 | Gearin O’Riordan Pty Limited |
| 1928 – 1967 | Gearin-O’Riordan Limited |
| | (Part Portion 136, Parish Botany – Area 4 Acres 2 Rood 8 Perches – CT Vol 1383 Fol 199) |
| 1922 – 1928 | M.Gearin and Sons Limited |
| 1901 – 1922 | Michael Gearin, fat extractor |

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Note 4:

Current Search

Folio Identifier A/402876 (title attached)
DP 402876 (plan attached)
Dated 02nd August 2018
Registered Proprietor:
JKN PARK PTY LTD

**Title Tree
Lot A DP 402876**

Folio Identifier A/402876

Certificate of Title Volume 15474 Folio 101

Certificate of Title Volume 7457 Folio 156

Certificate of Title Volume 5565 Folio 144

Certificate of Title Volume 5297 Folio 24

Certificate of Title Volume 1383 Folio 199

Subject land within **Part Portion 136 Parish Botany**
Granted to John Roby Hatfield dated 7th April 1838

-10-

**Summary of proprietor(s)
Lot A DP 402876**

| Year | Proprietor(s) |
|------------------------|--|
| | (Lot A DP 402876) |
| 2015 – todate | JKN Park Pty Ltd |
| 2013 – 2015 | Dexus Funds Management Limited |
| 2013 – 2013 | Perpetual Trustee Company Limited |
| <i>(2008 – todate)</i> | <i>(various current leases shown on Folio Identifier A/402876)</i> |
| 2002 – 2013 | Paladin Australia Limited |
| 2002 – 2002 | Trust Company of Australia Limited |
| 1997 – 2002 | Fai Life Insurance Society Limited |
| 1991 – 1997 | Fai Properties Pty Limited |
| <i>(1991 – todate)</i> | <i>(various leases shown on Historical Folio A/402876)</i> |
| | (Lot A DP402876 – CTVol 15474 Fol 101) |
| 1987 – 1991 | Fai Properties Pty Limited |
| <i>(1987 – 1989)</i> | <i>(various leases shown on CTVol 15474 Fol 101)</i> |
| | (Part Portion 136 Parish Botany – Area 1 Acre 1 Rood 0 Perches – CT Vol 7457 Fol 156) |
| 1982 – 1987 | Lexane Pty Limited |
| 1967 – 1982 | Gearin-O’Riordan Pty Limited |
| 1958 – 1967 | Gearin-O’Riordan Limited |
| | (Part Portion 136 Parish Botany – Area 2 Acres 2 Rood 19 Perches – CT Vol 5564 Fol 144) |
| 1946 – 1958 | W.F.Campbell Pty Limited |
| | (Part Portion 136, Parish Botany – Area 2 Acres 2 Rood 33 ¼ Perches – CT Vol 5297 Fol 24) |
| 1942 – 1946 | M.Gearin and Sons Limited |
| | (Part Portion 136, Parish Botany – Area 4 Acres 2 Rood 8 Perches – CT Vol 1383 Fol 199) |
| 1922 – 1942 | M.Gearin and Sons Limited |
| 1901 – 1922 | Michael Gearin, fat extractor |



Cadastral Records Enquiry Report : Lot A DP 402876

Ref : NOUSER

Locality : MASCOT

Parish : BOTANY

LGA : BAYSIDE

County : CUMBERLAND

| | Status | Surv/Comp | Purpose |
|---|------------|-------------|----------------------------|
| DP15034 Lot(s): 5 | | | |
| DP1015636 | REGISTERED | SURVEY | EASEMENT |
| DP85597 Lot(s): 1 | | | |
| DP1232496 | REGISTERED | SURVEY | ROADS ACT, 1993 |
| DP217739 Lot(s): 1 | | | |
| CA102251 - LOT 1 DP217739 | | | |
| Lot(s): 2 | | | |
| CA150394 - LOT 2 DP217739 | | | |
| DP270981 Lot(s): 1 | | | |
| DP270981 | REGISTERED | SURVEY | COMMUNITY SUBDIVISION PLAN |
| DP1236518 | REGISTERED | SURVEY | EASEMENT |
| Lot(s): 1, 2, 6 | | | |
| DP1213409 | HISTORICAL | SURVEY | SUBDIVISION |
| Lot(s): 1, 6 | | | |
| DP878949 | HISTORICAL | SURVEY | CONSOLIDATION |
| Lot(s): 1, 2 | | | |
| DP804703 | HISTORICAL | SURVEY | SUBDIVISION |
| Lot(s): 6 | | | |
| DP270981 | HISTORICAL | SURVEY | COMMUNITY PLAN |
| DP320192 Lot(s): A | | | |
| DP1232496 | REGISTERED | SURVEY | ROADS ACT, 1993 |
| DP364217 Lot(s): A | | | |
| DP1232496 | REGISTERED | SURVEY | ROADS ACT, 1993 |
| DP434814 Lot(s): A | | | |
| DP1232496 | REGISTERED | SURVEY | ROADS ACT, 1993 |
| DP668903 Lot(s): 1 | | | |
| DP930759 | HISTORICAL | COMPILATION | UNRESEARCHED |
| DP800299 Lot(s): 1 | | | |
| DP1038735 | REGISTERED | SURVEY | EASEMENT |
| DP1064903 | REGISTERED | SURVEY | LEASE |
| DP853792 Lot(s): 12 | | | |
| DP1038735 | REGISTERED | SURVEY | EASEMENT |
| DP1075216 Lot(s): 16 | | | |
| CA90714 - LOT 16 DP1075216 | | | |
| DP1232496 Lot(s): 10 | | | |
| DP15034 | HISTORICAL | SURVEY | UNRESEARCHED |
| Lot(s): 17 | | | |
| LOT 17 IN DP1232496 IS REQUIRED FOR ROAD PURPOSES - SEE AM785926 | | | |
| Road Polygon Id(s): 105160387, 105291921, 165558670, 165558671, 165558680, 165558682 | | | |
| EX-SUR 60/39 DP445930 | | | |
| SP79342 | | | |
| DP10538 | HISTORICAL | SURVEY | UNRESEARCHED |
| DP1101875 | HISTORICAL | SURVEY | REDEFINITION |
| SP88674 | | | |
| DP10538 | HISTORICAL | SURVEY | UNRESEARCHED |
| DP1186274 | HISTORICAL | SURVEY | CONSOLIDATION |

Caution: 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.



Cadastral Records Enquiry Report : Lot A DP 402876

Ref : NOUSER

Locality : MASCOT

Parish : BOTANY

LGA : BAYSIDE

County : CUMBERLAND

| | Status | Surv/Comp | Purpose |
|-------------------------------------|--------|-----------|---------|
| Road | | | |
| Polygon Id(s): 105160387 | | | |
| EX-SUR 36/04 DP983203 | | | |
| EX-SUR 91/26 DP123465 | | | |
| Polygon Id(s): 105160387, 105291921 | | | |
| EX-SUR 86/47 DP117137 | | | |

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Page 3 of 4

**Cadastral Records Enquiry Report : Lot A DP 402876**

Ref : NOUSER

Locality : MASCOT

Parish : BOTANY

LGA : BAYSIDE

County : CUMBERLAND

| Plan | Surv/Comp | Purpose |
|-----------|-------------|---------------------------|
| DP5898 | COMPILATION | UNRESEARCHED |
| DP14642 | SURVEY | UNRESEARCHED |
| DP15034 | SURVEY | UNRESEARCHED |
| DP15118 | SURVEY | UNRESEARCHED |
| DP15190 | SURVEY | UNRESEARCHED |
| DP23141 | SURVEY | UNRESEARCHED |
| DP23816 | SURVEY | UNRESEARCHED |
| DP70170 | SURVEY | UNRESEARCHED |
| DP81570 | SURVEY | UNRESEARCHED |
| DP85597 | SURVEY | UNRESEARCHED |
| DP86460 | SURVEY | UNRESEARCHED |
| DP93716 | COMPILATION | DEPARTMENTAL |
| DP211065 | SURVEY | SUBDIVISION |
| DP217739 | SURVEY | SUBDIVISION |
| DP320192 | COMPILATION | UNRESEARCHED |
| DP323956 | COMPILATION | UNRESEARCHED |
| DP364217 | COMPILATION | UNRESEARCHED |
| DP396401 | SURVEY | UNRESEARCHED |
| DP402876 | SURVEY | UNRESEARCHED |
| DP403970 | SURVEY | UNRESEARCHED |
| DP434814 | COMPILATION | UNRESEARCHED |
| DP668902 | COMPILATION | DEPARTMENTAL |
| DP668903 | COMPILATION | DEPARTMENTAL |
| DP669112 | COMPILATION | DEPARTMENTAL |
| DP736194 | SURVEY | RESUMPTION OR ACQUISITION |
| DP792885 | SURVEY | SUBDIVISION |
| DP800299 | SURVEY | SUBDIVISION |
| DP813088 | SURVEY | CONSOLIDATION |
| DP853792 | SURVEY | SUBDIVISION |
| DP1075216 | COMPILATION | LIMITED FOLIO CREATION |
| DP1128607 | COMPILATION | DEPARTMENTAL |
| DP1232496 | SURVEY | ROADS ACT, 1993 |
| SP79342 | COMPILATION | STRATA PLAN |
| SP88674 | COMPILATION | STRATA PLAN |

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ACTIVITY PRIOR TO SEPTEMBER 2002 you must refer to the RGs Charting and Reference Maps.

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Page 4 of 4

Req:R018819 /Doc:CT 12181-096 CT /Rev:21-Dec-2010 /Sts:OK.SC /Pgs:ALL /Prt:02-Aug-2018 13:16
Ref:advlegs /Src:P



12181

CERTIFICATE OF TITLE

NEW SOUTH WALES

M. PROPERTY ACT, 1900

Vol. **12181** Fol. **96**

Appln No. 35597

Prior Title Vol.5565 Fol.36

Edition issued 31-7-1973

N109443



12181 Fol. 96
(Page 1) Vol. 12181

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.

Jawatson
Registrar General.

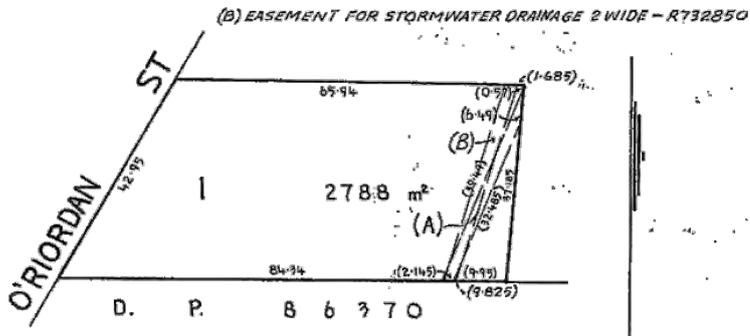


PLAN SHOWING LOCATION OF LAND

LENGTHS ARE IN METRES

CANCELLED

SEE AUTO FOLIO



N109443 W.Z.

REDUCTION RATIO 1:800

S

ESTATE AND LAND REFERRED TO

Estate in Fee Simple in Lot 1 in Deposited Plan 85597 in the Municipality of Mascot Parish of Botany and County of Cumberland being part of Portion 136 granted to John Roby Hatfield on 7-4-1838.

FIRST SCHEDULE

~~J. B. L. DEVELOPMENTS (AUSTRALIAN) PTY. LIMITED.~~

SECOND SCHEDULE

1. Reservations and conditions, if any, contained in the Crown Grant above referred to.
2. ~~Easement for Stormwater Drainage created by notification in Government Gazette No. 73 of 28-5-1972 affecting the piece of land designated (A) shown in the plan hereon. *RT32849*~~
3. Mortgage No. N732490 to Mercantile Credits Limited. Entered 31-5-1972. Discharged N246569
4. Mortgage No. N745987 to J.B.L. Regio Services Limited. Entered 25-9-1972. Discharged N246570
5. ~~caveat No. N32241. Entered 2-1-1973. Withdrawn N78319~~

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

WARNING: THIS DOCUMENT MUST NOT BE REMOVED FROM THE LAND TITLES OFFICE.

Jawatson
Registrar General

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

Req: R018819 / Doc: CT 12181-096 CT / Rev: 21-Dec-2010 / Sts: OK, SC / Pgs: All / Prt: 02-Aug-2018 10:16

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Req:R018818 /Doc:CT 15474-099 CT /Rev:24-May-2017 /Sts:SC.OK /Pgs:ALL /Prt:02-Aug-2018 13:16
Ref:advlegs /Src:P

C STATE OF TITLE
PROPERTY ACT, 1900



15474099

NEW SOUTH WALES

Vol. 15474 Fol. 99

First Title Old System

Prior Title Vol.4142 Fol.133



5 1 1987

I certify that the person named in the First Schedule is the registered proprietor of an estate in fee simple (or such other estate or interest as is set out below) in the land described subject to the recordings appearing in the Second Schedule and to the provisions of the Real Property Act, 1900.

Spilgerson
Registrar General.



LAND REFERRED TO

Lot A in DP320192 at Mascot in the Municipality of Botany Parish of Botany County of Cumberland.

Title Diagram: DP320192

FIRST SCHEDULE

- ~~LEXANE PTY. LIMITED T159136~~
- ~~BURNS PHILIP TRUSTEE COMPANY (CANBERRA) LIMITED by Transfers W670059 and W670084. Registered 9.1.1987.~~
- ~~FAI PROPERTIES PTY. LIMITED by Transfer W724441. Registered 9.3.1987.~~

SECOND SCHEDULE

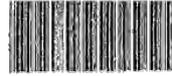
- 1. Reservations and conditions in the Crown Grant.
- EW* 2. C562969 Easement for stormwater channel affecting the part of the land above described shown so burdened in DP187190.
- RWZ* 3. F326017 Right of way appurtenant to the land above described affecting the land shown in the plan annexed to F326017.
- ~~4. T606975 Mortgage to Custom Credit Corporation Limited. W724440.~~
- ~~5. T963020 Caveat by Profit Freight Systems Pty. Limited as regards part being premises known as Unit 5, 154-166 O'Riordan Street, together with car parking spaces numbered 97-99 & 108-115 inclusive and lessee's truck standing area of approx. 121.42m². W678080.~~
- ~~6. T988130 Caveat by Burns Philip Trustee Company Limited. W678079.~~

PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO THIS CERTIFICATE OR ANY NOTIFICATION HEREON (Page 1) Vol. 15474 Fol. 99

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

Req:R018814 /Doc:CT 15474-100 CT /Rev:24-May-2017 /Sts:SC.OK /Pgs:ALL /Prt:02-Aug-2018 13:16
Ref:advlegs /Src:P

C **STATE OF TITLE**
PROPERTY ACT, 1900



15474100

NEW SOUTH WALES

First Title Old System
Prior Title Vol.6084 Fol.26

Vol. 15474 Fol. 100



SULTION
ISSUED 5 1 1987

I certify that the person named in the First Schedule is the registered proprietor of an estate in fee simple (or such other estate or interest as is set out below) in the land described subject to the recordings appearing in the Second Schedule and to the provisions of the Real Property Act, 1900.

[Signature]
Registrar General.



15474 Fol. 100

PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO THIS CERTIFICATE OR ANY NOTIFICATION HEREON (Page 1) Vol. 15474 Fol. 100

LAND REFERRED TO

S Lot A in DP364217 at Mascot in the Municipality of Botany Parish of Botany County of Cumberland.
Title Diagram: DP364217

FIRST SCHEDULE

- ~~LEXANE PTY. LIMITED T159136~~
- ~~BURNS PHILP TRUSTEE COMPANY (CANBERRA) LIMITED by Transfers W678083 and W678084. Registered 9.1.1987~~
- FAI PROPERTIES PTY. LIMITED by Transfer W724441. Registered 9.3.1987.

SECOND SCHEDULE

1. Land excludes minerals and is subject to reservations and conditions in favour of the Crown - see Crown Grant.
- ~~2. T696975 Mortgage to Custom Credit Corporation Limited. W724440.~~
 - ~~3. T963820 Caveat by Profit Freight Systems Pty. Limited as regards part being premises known as Unit 5, 154-166 O'Riordan Street, together with car parking spaces numbered 97-99 & 108-115 inclusive and lessee's truck standing area of approx. 121-42m². W678080.~~
 - ~~4. T988130 Caveat by Burns Philp Trust Company Limited. W678079.~~

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

LT 2/64

Req:R018814 /Doc:CT 15474-100 CT /Rev:24-May-2017 /Sts:SC.OK /Pgs:ALL /Prt:02-Aug-2018 13:16
 Ref:advlegs /Src:Pf2 pages)

Vol.....15474... Fol.100.....

| FIRST SCHEDULE (continued) | | Registrar General |
|--|-------------------|-------------------|
| REGISTERED PROPRIETOR | | |
| <p>CANCELLED</p> <p>SEE AUTO FOLIO</p> | | |
| SECOND SCHEDULE (continued) | | |
| PARTICULARS | Registrar General | CANCELLATION |
| <p>M67000 Lease to Profit Freight Systems Pty. Limited of Unit 5, 154-166 O'Riordan Street, Mascot together with Car Parking Spaces numbered 97-99 and 109-115 inclusive and Lessee's Truck Standing Area of approximately 121.62 square metres together with and Reserving Rights. Expires: 30.11.1988. With an Option of Renewal for 5 years. Registered 9.1.1987.</p> | | Y581201 |
| <p>M67001 Lease to Pandair Freight Limited of Unit 6, 154-166 O'Riordan Street, Mascot together with a Car Parking Spaces numbered 75-87 and 125-130 inclusive and the Lessee's Truck Standing Area of approximately 153.6 square metres together with and Reserving Rights. Expires: 20.10.1993. With an Option of Renewal for 5 years. Registered 9.1.1987.</p> | | |
| <p>M67002 Lease to Co-Load Incorporated Pty. Limited of Unit 7, 154-166 O'Riordan Street, Mascot, together with Car Parking Spaces numbered 55-74 inclusive and 116-124 inclusive and Lessee's Truck Standing Area of approximately 201.6 square metres together with and Reserving Rights. Expires: 31.8.1993. With an Option of Renewal for 5 years. Registered 9.1.1987.</p> | | |
| <p>M67006 Lease to Nippon Express (Australia) Pty. Limited of Unit 1, 154-166 O'Riordan Street, Mascot together with Car Parking Spaces numbered 17-46 inclusive and Lessee's Truck Standing Area of approximately 1915.20 square metres together with and Reserving Rights. Expires: 31.3.1990. With an Option of Renewal for 5 years. Registered 9.1.1987.</p> | | |
| <p>M67007 Lease to Mayne Nickless Limited of Unit 2, 154-166 O'Riordan Street, Mascot together with and Reserving Rights. Expires: 31.7.1987. With an Option of Renewal for 4 years. Registered 9.1.1987.</p> | | Expired 2-2-1988 |
| <p>M67008 Lease to East West Cargo Pty. Limited of Unit 3, 154-166 O'Riordan Street, Mascot together with and Reserving Rights. Expires: 31.8.1989. With an Option of Renewal for 4 years. Registered 9.1.1987.</p> | | X929105 |
| <p>M67009 Lease to Pacific Austral Pty. Limited of Unit 4, 154-166 O'Riordan Street, Mascot together with Car Parking Spaces numbered 91-96 and 100-102 inclusive and Lessee's Truck Standing Area approximately 121.45 square metres together with and Reserving Rights. Expires: 30.6.1988. With an Option of Renewal for 5 years. Registered 9.1.1987.</p> | | Y581201 |
| <p>M67005 Lease to The Sydney County Council of premises being Substation No. 5937 together with Right of Way and Easement for Electricity Purposes as shown in Plan with 167895. Expires: 31.12.2025. Registered 9.1.1987.</p> | | |
| <p>X341681 Lease to Mayne Nickless Limited of premises known as Unit 2, 154-166 O'Riordan Street, Mascot Expires 31-7-1991 Option of renewal 4 years Registered 2-2-1988</p> | | |
| <p>X932362 Lease to Nippon Express (Australia) Pty. Limited of premises being Unit 3, 154-166 O'Riordan Street, Mascot, together with carspaces numbered 13-16, 47-54 and 91-93 inclusive. Expires 31-3-1990. Option of renewal for 5 years. Registered 14-12-1988</p> | | |
| <p>X341681 Lease. Y78038 Transfer of Lease. Lessee now Tradeair International Freight Forwarding Services Pty.Limited.. Registered 6-1-1989.</p> | | |
| <p>Y581201 Lease to Rainers Customs and Transport Services Pty. Ltd. of premises being Units 4 & 5, 154-166 O'Riordan Street, Mascot, together with carspaces Nos. 94-115 inclusive & Lessee's truckstanding areas. Expires 28-2-1994. Registered 11-9-1989.</p> | | |
| NOTATIONS AND UNREGISTERED DEALINGS | | |
| <p>6678079 80-1 81-1 82-1 83-1 84-1 85-1 87-1</p> <p>W720440 MK X 341681 L X 932362 L X 932362 L X 929105 MK Y 78038 TL Y 581201 L</p> | | |

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

Req:R018815 /Doc:CT 15474-101 CT /Rev:21-Dec-2010 /Sts:OK.SC /Pgs:ALL /Prt:02-Aug-2018 13:16
Ref:advlegs /Src:P

CERTIFICATE OF TITLE
PROPERTY ACT, 1900



15474101

NEW SOUTH WALES

First Title Old System
Prior Title Vol.7457 Fol.156

Vol. 15474 Fol. 101



ISSUED 5 1 1987

I certify that the person named in the First Schedule is the registered proprietor of an estate in fee simple (or such other estate or interest as is set out below) in the land described subject to the recordings appearing in the Second Schedule and to the provisions of the Real Property Act, 1900.

[Signature]
Registrar General.



PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO THIS CERTIFICATE OR ANY NOTIFICATION HEREON (Page 1) Vol. 15474 Fol. 101

LAND REFERRED TO

Lot A in DP402876 at Mascot in the Municipality of Botany Parish of Botany County of Cumberland.
Title Diagram: DP402876

FIRST SCHEDULE

- ~~LEXANE PTY. LIMITED T159136~~
- ~~BURNS PHILIP TRUSTEE COMPANY (CANBERRA) LIMITED by Transfers W678083 and W678084. Registered 9.1.1987.~~
- ~~FAI PROPERTIES PTY. LIMITED by Transfer W724441. Registered 9.3.1987.~~

SECOND SCHEDULE

- 1. Reservations and conditions in the Crown Grant.
- 2. C562969 Easement for stormwater channel affecting the part of the land above described shown so burdened in DP187190.
- ~~3. T696975 Mortgage to Custom Credit Corporation Limited. W724440.~~
- ~~4. T963020 Caveat by Profit Freight Systems Pty. Limited as regards part being premises known as Unit 5, 154-166 O'Riordan Street together with car parking spaces numbered 97-99 & 100-115 inclusive and lessee's standing area of approx. 121.42m². W678080.~~
- ~~5. T908130 Caveat by Burns Philip Trustee Company Limited. W678079.~~

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

Req:R019850 /Doc:DL 8733196 /Rev:09-Jul-2002 /Sts:NO.OK /Pgs:ALL /Prt:02-Aug-2018 14:50 /Seq:1 of 3
Ref:advlegs /Src:P
Form: - 01T
Licence: 98M111
Edition: 0011

TRANSFER
New South Wales
Real Property Act 1900



8733196N

31

PRIVACY NOTE: this information is legally required and will become part of the public record

STAMP DUTY

| | |
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| Office of State Revenue use only | NEW SOUTH WALES DUTY 02-05-2002 0000966482-001 SECTION 54(3) DUTY \$ *****10.00 |
|----------------------------------|--|

(A) TORRENS TITLE

If appropriate, specify the part transferred
FOR TITLE REFERENCES SEE ANNEXURE A

(B) LODGED BY

| | | |
|---------------------|--|-------------------------------|
| Delivery Box 74S | Name, Address or DX and Telephone ALLENS ARTHUR ROBINSON DX 105, SYDNEY 9230 4000 Reference (optional): 204683098-STMS | CODES T TW (Sheriff) |
|---------------------|--|-------------------------------|

(C) TRANSFEROR

Trust Company of Australia Limited (ACN 005 027 749)

(D) CONSIDERATION The transferor as custodian of the Paladin Industrial Trust (ARSN 088 648 640) acknowledges receipt of the consideration of \$ and as regards

(E) ESTATE the land specified above transfers to the transferee an estate in fee simple as responsible entity

(F) SHARE TRANSFERRED of the Paladin Industrial Trust an estate in fee simple

(G) Encumbrances (if applicable): 1. 2. 3.

(H) TRANSFEREE

Paladin Australia Limited (ACN 060 920 783)

TENANCY:

(I) DATE

1 / 3 / 2002
dd mm yyyy

(J) I certify that the transferor, with whom I am personally acquainted or as to whose identity I am otherwise satisfied, signed this transfer in my presence. Certified correct for the purposes of the Real Property Act 1900 by the transferor.

Signature of witness: _____ Signature of transferor: _____

Name of witness: _____

Address of witness: FOR EXECUTION SEE ANNEXURE A

I certify that the transferee, with whom I am personally acquainted or as to whose identity I am otherwise satisfied, signed this transfer in my presence. Certified correct for the purposes of the Real Property Act 1900 by the transferee.

Signature of witness: _____ Signature of transferee: _____

Name of witness: _____

Address of witness: If signed on the transferee's behalf by a solicitor, licensed conveyancer or barrister, insert the signatory's full name and capacity below:

Transfer Annexure

Allens Arthur Robinson

THIS IS ANNEXURE "A" TO THE TRANSFER BY TRUST COMPANY OF AUSTRALIA LIMITED (ACN 005 027 749) ("TRANSFEROR") TO PALADIN AUSTRALIA LIMITED (ACN 060 920 783) ("TRANSFEREE") DATED MARCH 2002

| | |
|----------------------|--|
| TORRENS TITLE | Folio Identifiers 5/579721, 32/589097, 10/617845, 1/SP57439, A/402876, A/320192, A/364217, 84/30454 , 492/856777, 5/607248, 200/714834, 100/1004156, 221/868300, 11/261439, 7210/635244, 5/219182, 1/619853, 2/855721, 12/617010, 64/700570 , 21/646396, 33/3082, 432/862103, 1/SP43960, 2/737117, 3/737117, 5/706429 , 41/775473, 102/874888, 181/545640, 20/237731, 431/862103 and 101/874888 |
|----------------------|--|

EXECUTION BY TRANSFEROR

Signed for Trust Company of Australia Limited by its attorney under power of attorney registered book 427 No 670 in the presence of:



 Witness Signature
 Alison Ford
 Print Name Deutsche Asset Management (Australia) Limited
 Level 21 83 Clarence Street
 Sydney NSW



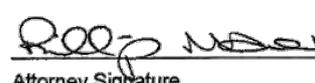
 Attorney Signature
 MICHAEL JOHN BRITTON
 Print Name

EXECUTION BY TRANSFEREE

Signed for Paladin Australia Limited by its attorney under power of attorney registered book 425 No 434 in the presence of:



 Witness Signature
 BENJAMIN PAUL KEEN
 Print Name Deutsche Asset Management (Australia) Limited
 Level 21 83 Clarence Street
 Sydney NSW



 Attorney Signature
 PHILLIP MAHER
 Print Name

Req:R019850 /Doc:DL 8733196 /Rev:09-Jul-2002 /Sts:NO.OK /Pgs:ALL /Prt:02-Aug-2018 14:50 /Seq:3 of 3
Ref:advlegs /Src:P

Bartier Perry

Solicitors

Level 17 167 Macquarie Street
PO Box 2631 Sydney
NSW 2001 Australia
DX 109 Sydney
Tel 61 2 9293 3800
Fax 61 2 9293 3838
bartier@bartier.com.au
ABN: 81 089 478 702

Our Ref: PVC: 022120

3 July 2002

The Director
Land & Property Information NSW
Queens Square
SYDNEY NSW 2000

Dear Director

**ENERGY AUSTRALIA'S SUBLEASE OF SUBSTATION PREMISES NO. 6355 AT
3 MONIER SQUARE VILLAWOOD
CAVEAT 7995557 - CAVEATORS CONSENT**

We act for Energy Australia and on its behalf lodged Caveat 7995557 to protect Energy Australia's interest under an agreement to the grant of a sublease.

We are instructed by Energy Australia to consent on its behalf to the registration of Transfers affecting the subject property as follows:

- Transfer from Trust Company of Australia Limited to Paladin Australia Limited and;
- Transfer from Paladin Australia Limited to Perpetual Trustee Company Limited.

This consent shall not affect the right for the caveat to remain recorded on title nor does it affect the rights claimed under the caveat.

Yours faithfully
BARTIER PERRY


Peter Cahill
Associate
Direct Line 9293 3872
pcahill@bartier.com.au
Enc

Copy to: Warwick Weekley
CR803

E:275952.Doc(recept)

Liability limited by the Solicitors Scheme, approved under the Professional Standards Act 1994 (NSW)

Req:R019851 /Doc:DL AH887572 /Rev:25-Jul-2013 /Sts:NO.OK /Egs:ALL /Prt:02-Aug-2018 14:50 /Seq:1 of 3
Ref:advlegs /Src:P



Form: 01TWC
Release: 41

TRANSFER
without monetary consideration
New South Wales
Real Property Act 1900

AH887572Y

PRIVACY NOTE: Section 31B of the Real Property Act 1900 (RP Act) authorises the Registrar General to collect the information required by this form for the establishment and maintenance of the Real Property Act Register. Section 96B RP Act requires that the Register is made available to any person for search upon payment of a fee, if any.

STAMP DUTY

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| Office of State Revenue use only | PARRAMATTA 10/07/2013 0900 CLASLCH AH10787 204300224 DUTIES CN 4136143 APPL ID 7179633 PAYMENT TYPE C *****50.00 |
|----------------------------------|---|

(A) **TORRENS TITLE**

| | |
|---------------------------------|-----------------------|
| A/320192, A/364217 and A/402876 | *****50.00 *****00 |
|---------------------------------|-----------------------|

(B) **LODGED BY**

| | | | |
|---------------------------------------|--|---|---|
| Document Collection Box 74S | Name, Address or DX, Telephone, and Customer Account Number if any Allens DX 105 Sydney (02) 9230 4000 Reference: MJSB:120355472 CSJS*8395 | CHANGED CHANG/REFUND TOTAL PAID \$\$\$ \$\$\$ \$\$\$ | CODES 1.00 888888880.00 888888880.00 |
|---------------------------------------|--|---|---|

(C) **TRANSFEROR**

| |
|--|
| Perpetual Trustee Company Limited (ABN 42 000 001 007) |
|--|

(D) **CONSIDERATION**

Pursuant to Proper Instruction under Custody Agreement dated 1 March 2002

(E) **ESTATE**

and as regards the above land transfers to the transferee an estate in fee simple

(F) **SHARE TRANSFERRED**

| |
|--|
| |
|--|

(G)

Encumbrances (if applicable):

(H) **TRANSFEEE**

| |
|---|
| DEXUS Funds Management Limited (ABN 24 060 920 783) |
|---|

(I)

| |
|----------|
| TENANCY: |
|----------|

DATE 27 JUNE 2013

(J) I certify that I am an eligible witness and that the transferor's attorney signed this dealing in my presence.
[See note* below].

SEE ANNEXURE A

Signature of witness:

Name of witness:
Address of witness:

Certified correct for the purposes of the Real Property Act 1900 by the transferor's attorney who signed this dealing pursuant to the power of attorney specified.

Signature of attorney:

Attorney's name: NEW SOUTH WALES DUTY
Signing on behalf of: 10-07-2013 0007179633-002
Power of attorney-Book: SECTION 54(4A)
-No.: *****50.00

I certify that I am an eligible witness and that the transferee's attorney signed this dealing in my presence.
[See note* below].

SEE ANNEXURE A

Signature of witness:

Name of witness:
Address of witness:

Certified correct for the purposes of the Real Property Act 1900 by the transferee's attorney who signed this dealing pursuant to the power of attorney specified.

Signature of attorney:

Attorney's name:
Signing on behalf of:
Power of attorney-Book:
-No.:

(K) The transferee certifies that the eNOS data relevant to this dealing has been submitted and stored under

eNOS ID No. [] Full name: [] Signature: []

* s117 RP Act requires that you must have known the signatory for more than 12 months or have sighted identifying documentation.
ALL HANDWRITING MUST BE IN BLOCK CAPITALS Page 1 of 3 1303

Req:R019851 /Doc:DL AH887572 /Rev:25-Jul-2013 /Sts:NO.OK /Pgs:ALL /Prt:02-Aug-2018 14:50 /Seq:2 of 3
Ref:advlegs /Src:P

This is Annexure 'A' to the Transfer of Land Folio Identifiers A/320192, A/364217 and A/402876 between Perpetual Trustee Company Limited (ABN 42 000 001 007) and DEXUS Funds Management Limited (ABN 24 060 920 783)

EXECUTION BY THE TRANSFEROR

Signed for Perpetual Trustee Company Limited by its duly authorised attorneys under power of attorney dated 31 March 2009 registered Book 4565 No. 619

I certify that I am an eligible witness and the transferor's attorneys signed this dealing in my presence:

Certified correct for the purposes of the Real Property Act 1900 by the transferor's attorneys who signed this dealing pursuant to the power of attorney specified



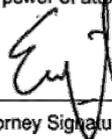
Witness Signature

Mark Callaghan

Print Name

**Angel Place
123 Pitt St
Sydney NSW 2000**

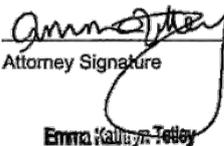
Address of Witness



Attorney Signature

Eugene Tee *Senior Client Service Officer*

Print Name



Attorney Signature

Senior Manager

Emma Kallay

Print Name

Req:R019851 /Doc:DL AH987572 /Rev:25-Jul-2013 /Sts:NO.OK /Pgs:ALL /Prt:02-Aug-2018 14:50 /Seq:3 of 3
Ref:advlegs /Src:P

EXECUTION BY THE TRANSFEREE

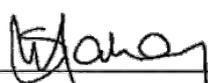
Signed Sealed and Delivered for
DEXUS Funds Management Limited by its
attorneys under registered power of attorney
Book 4647 No. 646 dated 11 April 2013 in
the presence of:



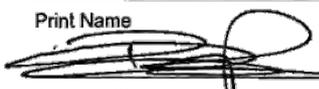
Witness Signature
Katarina Robinson

Print Name
Level 25, Australia Square
264 George Street

Print Address Sydney NSW 2000



Attorney Signature
SCOTT DOMINIC MAHONY

Print Name


Attorney Signature
BENJAMIN PAUL KEEN

Print Name

Req:R019057 /Doc:DL AH920077 /Rev:12-Aug-2013 /Sts:NO.OK /Pgs:ALL /Prt:02-Aug-2018 13:39 /Seq:1 of 1
Ref:advlegs /Src:P
Form: 01T
Release: 6-1

TRANSFER
New South Wales
Real Property Act 1900



AH920077E

PRIVACY NOTE: Section 31B of the Real Property Act 1900 (RP Act) authorises the Reg by this form for the establishment and maintenance of the Real Property Act the Register is made available to any person for search upon payment of a fee, if any.

STAMP DUTY

Office of State Revenue use only

| | |
|--------------------|-----------------|
| (NSW) | |
| Client No. 1411509 | 3796 |
| Duty: \$10 | Pays To 7210460 |
| Asst details | |
| 11843 | |

(A) **TORRENS TITLE**

1/85597

(B) **LODGED BY**

| | | |
|-------------------------|--|---------|
| Document Collection Box | Name, Address or DX, Telephone, and Customer Account Number if any | CODES |
| W | Blackstone Waterhouse Lawyers DX 132 SYDNEY (02) 9279 0288 | T TW |
| | Reference: MF: LC: PS: 13406 | |

OFFICE OF STATE REVENUE (NSW)
(C) TRANSFEROR
1411509 3796

Stead Denton
1603/7 Rockwall Crescent, Potts Point NSW 2011

(D) CONSIDERATION

The transferor acknowledges receipt of the consideration of \$ 7,700,000.00 and as regards

(E) **ESTATE**

the abovementioned land transfers to the transferee an estate in fee simple

(F) **SHARE TRANSFERRED**

100%

(G) **Encumbrances (if applicable):**

(H) **TRANSFeree**

JKN Park Pty Ltd (ACN 163 582 189)

(I) **TENANCY:**

DATE

(J) I certify I am an eligible witness and that the transferor signed this dealing in my presence.
[See note* below]

Certified correct for the purposes of the Real Property Act 1900 by the transferor.

Signature of witness:

Signature of transferor:

Name of witness:
Address of witness:

Ian Williams
105 Young St Redfern 2016.

Certified correct for the purposes of the Real Property Act 1900 on behalf of the transferee by the person whose signature appears below.

Signature:

Signatory's name:
Signatory's capacity:

Mark Fitzpatrick
solicitor

(K) The transferee's solicitor certifies that the eNOS data relevant to this dealing has been submitted and stored under eNOS ID No. 452456 Full name: Mark Fitzpatrick Signature:

* s117 RP Act requires that you must have known the signatory for more than 12 months or have sighted identifying documentation.
ALL HANDWRITING MUST BE IN BLOCK CAPITALS Page 1 of 1 1303

Req:R019056 /Doc:DL U405363 /Rev:24-Mar-2010 /Sts:OK,OK /Pgs:ALL /Prt:02-Aug-2018 13:39 /Seq:1 of 1
Ref:advlegs /Src:P

97-01T

TRANSFER
Real Property Act, 1900



U
405363 C



12-20-25

Office of

290694 1021 04 200812224/05

(A) **LAND TRANSFERRED**
Show no more than 20 References to Title.
If appropriate, specify the share transferred.

Folio Identifier 1/85597

(B) **LODGED BY**

| | |
|---|--|
| L.T.O. Box | Name, Address or DX and Telephone |
| 415 | MALLESONS STEPHEN JARVIS DX 113 SYDNEY |
| Reference (max. 15 characters): KMTJMAL0097-859 | |

(C) **TRANSFEROR**

TOHAHA PTY LIMITED (ACN 000 090 542)

(D) acknowledges receipt of the consideration of ... \$1,600,000
and as regards the land specified above transfers to the transferee an estate in fee simple

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

(F) **TRANSFEEE**

| | |
|----------|--|
| T | BALFOUR GRANGE PTY LIMITED (ACN 058 457 855) |
| TENANCY: | |

(H) We certify this dealing correct for the purposes of the Real Property Act, 1900

DATE 1 JULY 1994

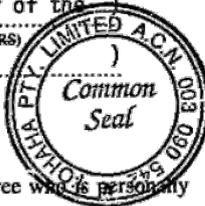
Signed in my presence by the transferor who is personally known to me

THE COMMON SEAL of TOHAHA PTY LTD is)

hereunto affixed by authority of the
Board in the presence of:

Director *[Signature]*

Secretary *[Signature]*
Signature of Transferor



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]
R V Chadwick
Signature of Transferee's Solicitor
L Y 716197

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

001
CHECKED BY (office use only)

Stat dec re option of renewal Use 7716197 signed

Req:R019271 /Doc:DL Z975986 /Rev:18-Jun-2010 /Sts:OK.OK /Pgs:ALL /Prt:02-Aug-2018 14:04 /Se
 Ref:advlegs /Src:P

RP 13

STAMP DUTY



975986 E



(3)

\$2-

TRANSFER
 REAL PROPERTY ACT, 1900

| | | |
|----|----|-----|
| T | of | R / |
| \$ | | |

DESCRIPTION OF LAND Note (a)

| Torrens Title Reference | If Part Only, Delete Whole and Give Details | Location |
|--|---|----------|
| FOLIO IDENTIFIERS: A/364217 A/402876 A/320192 | WHOLE | MASCOT |

TRANSFEROR Note (b)

FAI PROPERTIES PTY LIMITED (A.C.N. 000 099 927) Level 1, 21 Chandos Street, St Leonards.

ESTATE Note (c)

(the abovenamed TRANSFEROR) hereby acknowledges receipt of the consideration of **\$6,900,000.00** and transfers an estate in fee simple in the land above described to the TRANSFEREE

TRANSFEREE Note (d)

| | |
|--|-----------------|
| FAI LIFE INSURANCE SOCIETY LIMITED (A.C.N. 000 558 734) Level 12, 185 Macquarie Street, Sydney. | OFFICE USE ONLY |
|--|-----------------|

TENANCY Note (e)

as joint tenants/tenants in common

PRIOR ENCUMBRANCES Note (f)

subject to the following PRIOR ENCUMBRANCES 1. See Annexures
 2. _____
 3. _____

\$3.00

DATE

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 FAI PROPERTIES PTY.



LIMITED was hereunto affixed by authority

Name of Witness (BLOCK LETTERS) _____
 of its Board of Directors in the presence _____
 Address and occupation of Witness _____
 Secretary Director Signature of Transferor

Note (g)

Signature of Witness _____
 Name of Witness (BLOCK LETTERS) _____
 Address and occupation of Witness _____

G.N. Farland
 Solicitor for Transferee G.N. Farland

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

| | | |
|---|---------------------------------|---|
| LODGED BY WEBECK FARLAND PENDER SOLICITORS DX 492 SYDNEY PH: 233 7400 BOX 790P Ref: <u>GNF/90167</u> Delivery Box Number | LOCATION OF DOCUMENTS | |
| | CT | OTHER |
| | | Herewith. |
| | | In L.T.O. with |
| | | Produced by |
| Checked <u>R-12</u> Passed Signed <u>4</u> Extra Fee | REGISTERED - -19 10 OCT 1991 | Secondary Directions Delivery Directions <u>CT 790 P</u> |

Req:R019271 /Doc:DL Z975986 /Rev:18-Jun-2010 /Sts:OK.OK /Pgs:ALL /Prt:02-Aug-2018 14:04 /Se
Ref:advlegs /Src:P

THIS PAGE COMPRISES THE ANNEXURE REFERRED TO IN THE TRANSFER BETWEEN FAI PROPERTIES
PTY LIMITED AS TRANSFEROR AND FAI LIFE INSURANCE SOCIETY LIMITED AS TRANSFEREE OF THE
LAND COMPRISED IN FOLIO IDENTIFIERS A/364217, A/402876 AND A/320192 AT MASCOT.

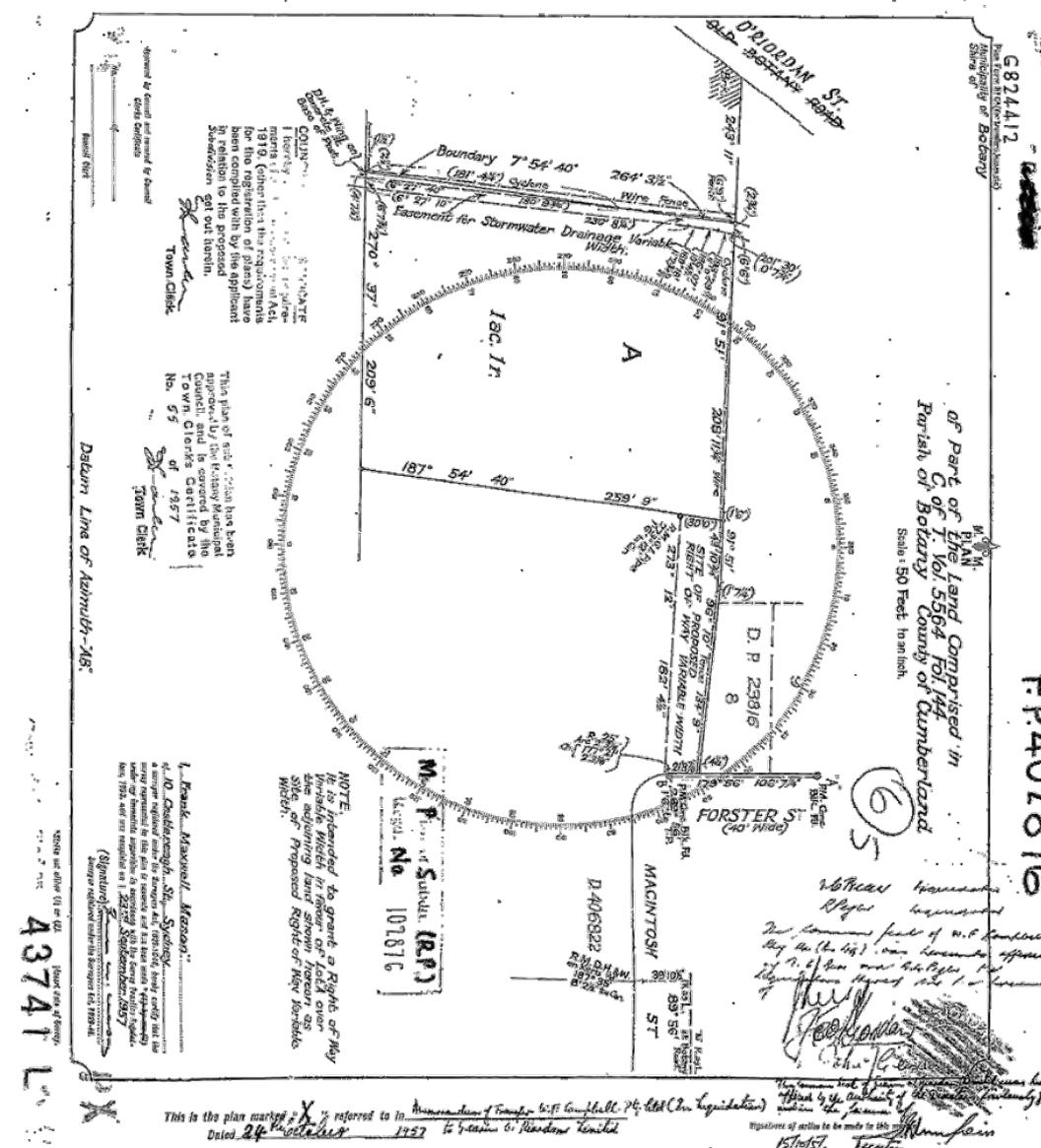
B

| | |
|---------|-------|
| W678081 | LEASE |
| W678082 | LEASE |
| W678085 | LEASE |
| W678086 | LEASE |
| X341681 | LEASE |
| X932362 | LEASE |
| Z655139 | LEASE |

Handwritten signatures and initials:
x [Signature]
x [Signature] →
G. [Signature]

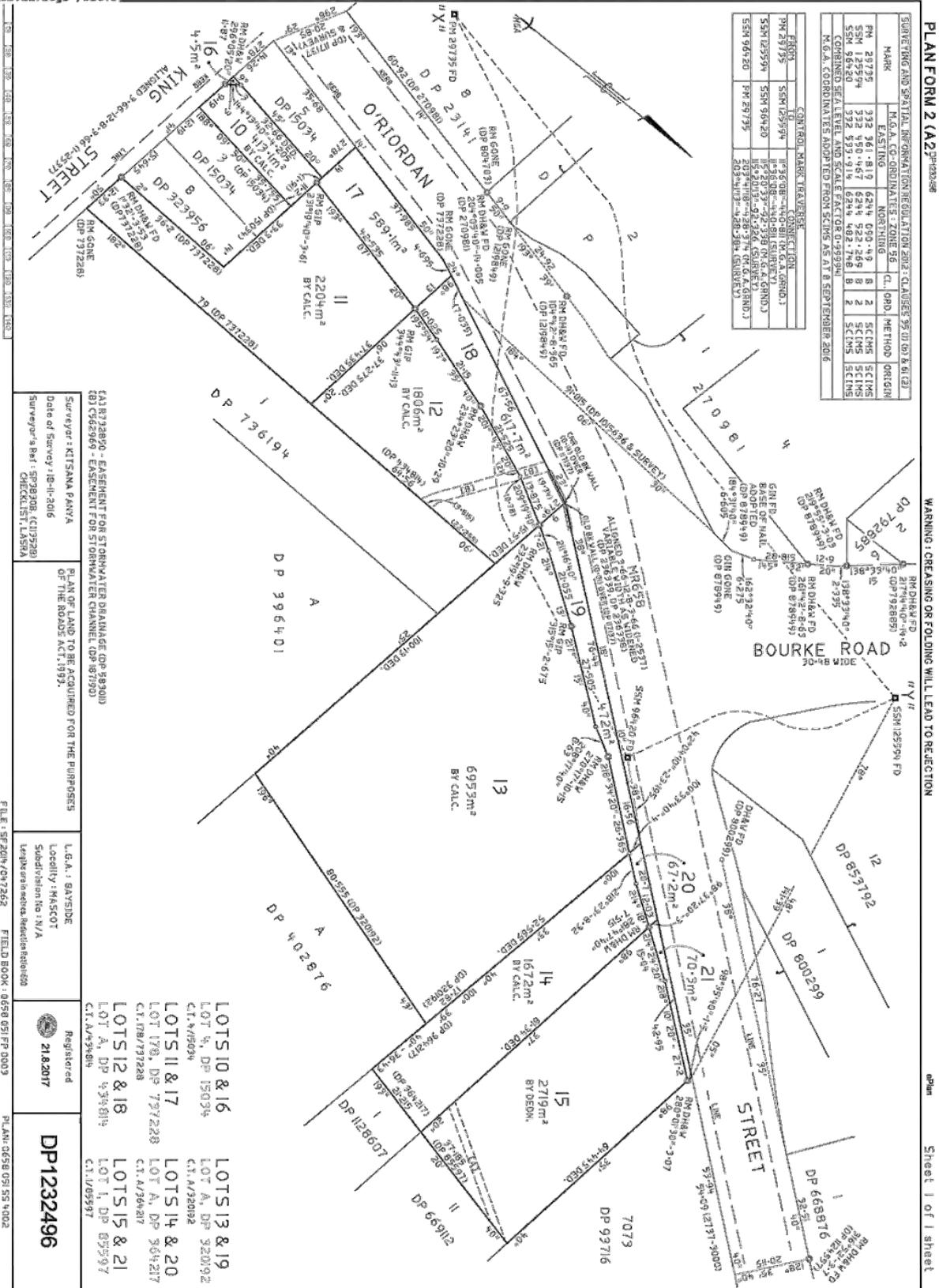
Req:R018816 /Doc:DF 0402876 F /Rev:29-Dec-1992 /Sts:OK.OK /Pgs:ALL /Ext:02-Aug-2018 13:16 /Seq:1 of 1
 Ref:advlegs /Sxc:F

| CONVERSION TABLE ABOVE IN DP 402876 | |
|--|--------|
| FEET INCHES | METRES |
| 0 0/16 | 0.0156 |
| 0 1/16 | 0.0156 |
| 0 2/16 | 0.0312 |
| 0 3/16 | 0.0469 |
| 0 4/16 | 0.0625 |
| 0 5/16 | 0.0781 |
| 0 6/16 | 0.0938 |
| 0 7/16 | 0.1094 |
| 0 8/16 | 0.1250 |
| 0 9/16 | 0.1406 |
| 0 10/16 | 0.1562 |
| 0 11/16 | 0.1719 |
| 0 12/16 | 0.1875 |
| 0 13/16 | 0.2031 |
| 0 14/16 | 0.2188 |
| 0 15/16 | 0.2344 |
| 0 16/16 | 0.2500 |
| 0 17/16 | 0.2656 |
| 0 18/16 | 0.2812 |
| 0 19/16 | 0.2969 |
| 0 20/16 | 0.3125 |
| 0 21/16 | 0.3281 |
| 0 22/16 | 0.3438 |
| 0 23/16 | 0.3594 |
| 0 24/16 | 0.3750 |
| 0 25/16 | 0.3906 |
| 0 26/16 | 0.4062 |
| 0 27/16 | 0.4219 |
| 0 28/16 | 0.4375 |
| 0 29/16 | 0.4531 |
| 0 30/16 | 0.4688 |
| 0 31/16 | 0.4844 |
| 0 32/16 | 0.5000 |
| 0 33/16 | 0.5156 |
| 0 34/16 | 0.5312 |
| 0 35/16 | 0.5469 |
| 0 36/16 | 0.5625 |
| 0 37/16 | 0.5781 |
| 0 38/16 | 0.5938 |
| 0 39/16 | 0.6094 |
| 0 40/16 | 0.6250 |
| 0 41/16 | 0.6406 |
| 0 42/16 | 0.6562 |
| 0 43/16 | 0.6719 |
| 0 44/16 | 0.6875 |
| 0 45/16 | 0.7031 |
| 0 46/16 | 0.7188 |
| 0 47/16 | 0.7344 |
| 0 48/16 | 0.7500 |
| 0 49/16 | 0.7656 |
| 0 50/16 | 0.7812 |
| 0 51/16 | 0.7969 |
| 0 52/16 | 0.8125 |
| 0 53/16 | 0.8281 |
| 0 54/16 | 0.8438 |
| 0 55/16 | 0.8594 |
| 0 56/16 | 0.8750 |
| 0 57/16 | 0.8906 |
| 0 58/16 | 0.9062 |
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| 0 60/16 | 0.9375 |
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| 0 62/16 | 0.9688 |
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| 0 68/16 | 1.0625 |
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| 0 70/16 | 1.0938 |
| 0 71/16 | 1.1094 |
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| 0 74/16 | 1.1562 |
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| 3 34/16 | 5.2188 |
| 3 35/16 | 5.2344 |
| 3 36/16 | 5.2500 |
| 3 37/16 | 5.2656 |
| 3 38/16 | 5.2812 |
| 3 39/16 | 5.2969 |
| 3 40/16 | 5.3125 |
| 3 41/16 | 5.3281 |
| 3 42/16 | 5.3438 |
| 3 43/16 | 5.3594 |
| 3 44/16 | 5.3750 |
| 3 45/16 | 5.3906 |
| 3 46/16 | 5.4062 |
| 3 47/16 | 5.4219 |
| 3 48/16 | 5.4375 |
| 3 49/16 | 5.4531 |
| 3 50/16 | 5.4688 |
| 3 51/16 | 5.4844 |
| 3 52/16 | 5.5000 |
| 3 53/16 | 5.5156 |
| 3 54/16 | 5.5312 |
| 3 55/16 | 5.5469 |
| 3 56/16 | 5.5625 |
| 3 57/16 | 5.5781 |
| 3 58/16 | 5.5938 |
| 3 59/16 | 5.6094 |
| 3 60/16 | 5.6250 |
| 3 61/16 | 5.6406 |
| 3 62/16 | 5.6562 |
| 3 63/16 | 5.6719 |
| 3 64/16 | 5.6875 |
| 3 65/16 | 5.7031 |
| 3 66/16 | 5.7188 |
| 3 67/16 | 5.7344 |
| 3 68/16 | 5.7500 |
| 3 69/16 | 5.7656 |
| 3 70/16 | 5.7812 |
| 3 71/16 | 5.7969 |
| 3 72/16 | 5.8125 |
| 3 73/16 | 5.8281 |
| 3 74/16 | 5.8438 |
| 3 75/16 | 5.8594 |
| 3 76/16 | 5.8750 |
| 3 77/16 | 5.8906 |
| 3 78/16 | 5.9062 |
| 3 79/16 | 5.9219 |
| 3 80/16 | 5.9375 |
| 3 81/16 | 5.9531 |
| 3 82/16 | 5.9688 |
| 3 83/16 | 5.9844 |
| 3 84/16 | 5.9999 |
| 3 85/16 | 6.0156 |
| 3 86/16 | 6.0312 |
| 3 87/16 | 6.0469 |
| 3 88/16 | 6.0625 |
| 3 89/16 | 6.0781 |
| 3 90/16 | 6.0938 |
| 3 91/16 | 6.1094 |
| 3 92/16 | 6.1250 |
| 3 93/16 | 6.1406 |
| 3 94/16 | 6.1562 |
| 3 95/16 | 6.1719 |
| 3 96/16 | 6.1875 |
| 3 97/16 | 6.2031 |
| 3 98/16 | 6.2188 |
| 3 99/16 | 6.2344 |
| 4 00/16 | 6.2500 |



NOTE:
 It is intended to grant a Right of Way
 which is shown in figure of lot 1 over
 the adjoining land shown for sale as
 being the Proposed Right of Way for the
 purpose of the proposed drainage system.
 The plan of each section has been
 approved by the Council and the
 Town Clerk's Certificate No. 55
 of 1957.
TOWN CLERK
 Daburn Line of Amulth - X8.
 This is the plan marked X referred to in Memorandum of Transfer W.F. Campbell, 24th Oct (No. Registration)
 Dated 24th October 1957 to 4-annex to Randwick Council

Reg:R018817 /Doc:DP 1232496 P /Rev:21-Aug-2017 /Sta:SC.OK /Pgs:ALL /Prt:02-Aug-2018 13:16 /Seq:1 of 3
 Ref:advlegs /Src:P



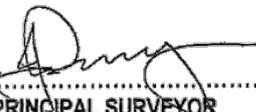
| | | | | | | | | | | | | | |
|---|---|-----------|-----------|-----------|-----------|-----------|----------|-----------|-----------|-----------|------------|-----------|-----------|
| <p>PLAN FORM 6 (2012) WARNING: Creasing or folding will lead to rejection ePlan</p> <p style="text-align: center;">DEPOSITED PLAN ADMINISTRATION SHEET Sheet 1 of 2 sheets</p> | <p style="text-align: right;">Office Use Only</p> <p style="text-align: center; font-size: 24pt;">DP1232496</p> | | | | | | | | | | | | |
| <p>Registered: 21.8.2017 Office Use Only</p> <p>Title System: TORRENS</p> <p>Purpose: ACQUISITION (ROADS ACT, 1993)</p> | <p style="text-align: right;">Office Use Only</p> | | | | | | | | | | | | |
| <p>PLAN OF LAND TO BE ACQUIRED THE PURPOSES OF THE ROADS ACT, 1993.</p> | <p>LGA: BAYSIDE Locality: MASCOT Parish: BOTANY County: CUMBERLAND</p> | | | | | | | | | | | | |
| <p style="text-align: center;">Crown Lands NSW/Western Lands Office Approval</p> <p>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.</p> <p>Signature: Date: File Number: Office:</p> | <p style="text-align: center;">Survey Certificate</p> <p>I, KITSANA PANYA..... of ROADS AND MARITIME SERVICES a surveyor registered under the <i>Surveying and Spatial Information Act 2002</i>, certify that:</p> <p>*(a) The land shown in the plan was surveyed in accordance with the <i>Surveying and Spatial Information Regulation 2012</i>, is accurate and the survey was completed on.....</p> <p>*(b) The part of the land shown in the plan (*being/*excluding LOTS 16 TO 21 INCLUSIVE AND CONNECTIONS) was surveyed in accordance with the <i>Surveying and Spatial Information Regulation 2012</i>, is accurate and the survey was completed on,....18-11-2016.. the part not surveyed was compiled in accordance with that Regulation.</p> <p>*(c) The land shown in this plan was compiled in accordance with the <i>Surveying and Spatial Information Regulation 2012</i>.</p> <p>Signature: Dated: 6.6.17.. Surveyor ID: 8590 Datum Line: "X" - "Y" Type: *Urban The terrain is *Level-Undulating</p> <p>*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.</p> | | | | | | | | | | | | |
| <p style="text-align: center;">Subdivision Certificate</p> <p>I, *Authorised Person/*General Manager/* Accredited Certifier, certify that the provisions of s.109J of the <i>Environmental Planning and Assessment Act 1979</i> have been satisfied in relation to the proposed subdivision, new road or reserve set out herein.</p> <p>Signature: Accreditation number: Consent Authority: Date of endorsement: Subdivision Certificate number: File number:</p> <p>*Strike through if inapplicable.</p> | <p>Plans used in the preparation of survey.</p> <table style="width:100%; border: none;"> <tr> <td>DP 15034</td> <td>DP 737228</td> <td>DP 434814</td> <td>DP 320192</td> </tr> <tr> <td>DP 364217</td> <td>DP 85597</td> <td>DP 878949</td> <td>DP 117137</td> </tr> <tr> <td>DP 800299</td> <td>DP 1124557</td> <td>DP 792885</td> <td>DP 270981</td> </tr> </table> <p style="text-align: right;">If space is insufficient continue on PLAN FORM 6A</p> | DP 15034 | DP 737228 | DP 434814 | DP 320192 | DP 364217 | DP 85597 | DP 878949 | DP 117137 | DP 800299 | DP 1124557 | DP 792885 | DP 270981 |
| DP 15034 | DP 737228 | DP 434814 | DP 320192 | | | | | | | | | | |
| DP 364217 | DP 85597 | DP 878949 | DP 117137 | | | | | | | | | | |
| DP 800299 | DP 1124557 | DP 792885 | DP 270981 | | | | | | | | | | |
| <p>Statements of intention to dedicate public roads, public reserves and drainage reserves.</p> <p>LOTS 16 TO 21 INCLUSIVE ARE REQUIRED FOR ROAD AND AFTER CONSTRUCTION WILL BE DEDICATED AS PUBLIC ROAD UNDER SECTION 10 OF THE ROADS ACT, 1993.</p> | <p>Surveyor's Reference: SP3830B (C11352B)CHECKLIST LASRA</p> | | | | | | | | | | | | |
| <p>Signatures, Seals and Section 88B Statements should appear on PLAN FORM 6A</p> | <p>FILE : SF2014/047262 FIELD BOOK : 0658 051 FP 0003 PLAN : 0658 051 SS 4002</p> | | | | | | | | | | | | |

Req:R018817 /Doc:DP 1232496 P /Rev:21-Aug-2017 /Sts:SC.OK /Pgs:ALL /Prt:02-Aug-2018 13:16 /Seq:3 of 3
Ref:advLegs /Src:P DP1232496

PLAN FORM 6A (2012)

WARNING: Creasing or folding will lead to rejection

ePlan

| | | |
|--|---|---------------------|
| DEPOSITED PLAN ADMINISTRATION SHEET | | Sheet 2 of 2 sheets |
| <p>Registered:  21.8.2017</p> <p>PLAN OF PROPOSED EASEMENT TO DRAIN WATER TO BE ACQUIRED WITHIN LOT 101 DP1214543 FOR THE PURPOSES OF THE ROADS ACT, 1993.</p> <p>Subdivision Certificate number:</p> <p>Date of Endorsement:</p> | <p>Office Use Only</p> <h1 style="margin: 0;">DP1232496</h1> <p>Office Use Only</p> | |
| <p>This sheet is for the provision of the following information as required:</p> <ul style="list-style-type: none"> A schedule of lots and addresses - See 60(c) <i>SSI Regulation 2012</i> Statements of intention to create and release affecting interests in accordance with section 88B <i>Conveyancing Act 1919</i> Signatures and seals- see 195D <i>Conveyancing Act 1919</i> Any information which cannot fit in the appropriate panel of sheet 1 of the administration sheets. | | |
| <p>LOTS 10 & 16 - 279 KING ST, MASCOT LOTS 11 & 17 - 176 O'RIORDAN ST, MASCOT LOTS 12 & 18 - 166 O'RIORDAN ST, MASCOT LOTS 13 & 19 - 154 O'RIORDAN ST, MASCOT LOTS 14 & 20 - 154 O'RIORDAN ST, MASCOT LOTS 15 & 21 - 146 O'RIORDAN ST, MASCOT</p> | | |
| <p>APPROVED: </p> <p>.....</p> <p>A / PRINCIPAL SURVEYOR ROADS AND MARITIME SERVICES</p> | | |
| <p>If space is insufficient use additional annexure sheet</p> | | |
| <p>Surveyor's Reference: SP3830B (CI1352B) CHECKLIST LASRA</p> | | |

FILE: SF2014/047262

FIELD BOOK: 0658 051 FP 0003

PLAN: 0658 051 SS 4002



NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE

2/8/2018 1:16PM

FOLIO: 1/85597

First Title(s): SEE PRIOR TITLE(S)
Prior Title(s): VOL 12181 FOL 96

| Recorded | Number | Type of Instrument | C.T. Issue |
|------------|-----------|-----------------------------|-----------------------------------|
| 21/8/1988 | | TITLE AUTOMATION PROJECT | LOT RECORDED FOLIO NOT CREATED |
| 8/9/1989 | | CONVERTED TO COMPUTER FOLIO | FOLIO CREATED CT NOT ISSUED |
| 24/11/1989 | Y716196 | SURRENDER OF LEASE | |
| 24/11/1989 | Y716197 | LEASE | EDITION 1 |
| 1/6/1992 | E499496 | DISCHARGE OF MORTGAGE | |
| 1/6/1992 | E499497 | MORTGAGE | EDITION 2 |
| 1/7/1994 | U405362 | DISCHARGE OF MORTGAGE | |
| 1/7/1994 | U405363 | TRANSFER | EDITION 3 |
| 1/7/1994 | U405364 | CAVEAT | |
| 29/8/1994 | U561862 | MORTGAGE | EDITION 4 |
| 6/9/1995 | O512591 | DISCHARGE OF MORTGAGE | |
| 6/9/1995 | O512592 | MORTGAGE | EDITION 5 |
| 8/3/2001 | 7461728 | DISCHARGE OF MORTGAGE | |
| 8/3/2001 | 7461729 | MORTGAGE | EDITION 6 |
| 7/1/2003 | 9271286 | DISCHARGE OF MORTGAGE | |
| 7/1/2003 | 9271287 | TRANSFER | |
| 7/1/2003 | 9271288 | MORTGAGE | EDITION 7 |
| 21/5/2013 | AH740861 | CAVEAT | |
| 1/8/2013 | AH920076 | DISCHARGE OF MORTGAGE | |
| 1/8/2013 | AH920077 | TRANSFER | EDITION 8 |
| 12/11/2014 | AJ11259 | MORTGAGE | EDITION 9 |
| 21/8/2017 | DP1232496 | DEPOSITED PLAN | |
| 23/8/2017 | AM642879 | REQUEST | |
| 1/2/2018 | AN78865 | DISCHARGE OF MORTGAGE | |

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NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE
2/8/2018 1:16PM

FOLIO: 1/85597

PAGE 2

| Recorded | Number | Type of Instrument | C.T. Issue |
|----------|---------|--------------------|-----------------|
| 1/2/2018 | AN78868 | TRANSFER | FOLIO CANCELLED |

*** END OF SEARCH ***

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SEARCH DATE

2/8/2018 1:16PM

FOLIO: A/320192

First Title(s): SEE PRIOR TITLE(S)
Prior Title(s): VOL 15474 FOL 99

| Recorded | Number | Type of Instrument | C.T. Issue |
|------------|---------|-----------------------------|-----------------------------------|
| 29/7/1989 | | TITLE AUTOMATION PROJECT | LOT RECORDED FOLIO NOT CREATED |
| 5/10/1989 | | CONVERTED TO COMPUTER FOLIO | FOLIO CREATED CT NOT ISSUED |
| 16/5/1991 | Z655139 | LEASE | EDITION 1 |
| 10/10/1991 | Z975986 | TRANSFER | EDITION 2 |
| 8/11/1991 | E48207 | LEASE | EDITION 3 |
| 15/11/1991 | E63730 | LEASE | EDITION 4 |
| 25/2/1993 | I145061 | SURRENDER OF LEASE | |
| 25/2/1993 | I145062 | LEASE | |
| 25/2/1993 | I145063 | SURRENDER OF LEASE | |
| 25/2/1993 | I145064 | LEASE | EDITION 5 |
| 13/8/1993 | I563479 | LEASE | EDITION 6 |
| 2/5/1994 | U225139 | REQUEST | |
| 2/5/1994 | U225140 | LEASE | EDITION 7 |
| 20/1/1995 | U957154 | SURRENDER OF LEASE | |
| 20/1/1995 | U957155 | LEASE | EDITION 8 |
| 17/2/1995 | O27537 | LEASE | EDITION 9 |
| 17/11/1995 | O697513 | LEASE | EDITION 10 |
| 27/2/1996 | O941951 | LEASE | EDITION 11 |
| 2/5/1996 | 2125425 | TRANSFER OF LEASE | |
| 6/6/1996 | 2213640 | LEASE | |
| 6/6/1996 | 2213641 | LEASE | EDITION 12 |
| 2/7/1997 | 3197512 | LEASE | |
| 2/7/1997 | 3197513 | TRANSFER | EDITION 13 |

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SEARCH DATE

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FOLIO: A/320192

PAGE 2

| Recorded ----- | Number ----- | Type of Instrument ----- | C.T. Issue ----- |
|-------------------|-----------------|-----------------------------|---------------------|
| 3/7/1997 | 3201253 | CAVEAT | |
| 28/7/1997 | 3271323 | WITHDRAWAL OF CAVEAT | |
| 28/7/1997 | 3271324 | MORTGAGE | EDITION 14 |
| 24/9/1998 | 5288996 | LEASE | EDITION 15 |
| 24/8/1999 | 6122654 | LEASE | |
| 24/8/1999 | 6122655 | LEASE | EDITION 16 |
| 24/1/2000 | 6508813 | LEASE | EDITION 17 |
| 1/2/2000 | 6525755 | SURRENDER OF LEASE | |
| 1/2/2000 | 6525756 | LEASE | EDITION 18 |
| 12/10/2000 | 7145794 | LEASE | |
| 12/10/2000 | 7145795 | LEASE | EDITION 19 |
| 20/3/2002 | 8444881 | VARIATION OF LEASE | EDITION 20 |
| 4/7/2002 | 8733194 | DISCHARGE OF MORTGAGE | |
| 4/7/2002 | 8733196 | TRANSFER | |
| 4/7/2002 | 8733197 | TRANSFER | EDITION 21 |
| 20/12/2002 | 8981154 | MORTGAGE | EDITION 22 |
| 22/1/2003 | 9309004 | DEPARTMENTAL DEALING | |
| 23/6/2003 | 9717763 | SUB-LEASE | |
| 25/6/2003 | 9728140 | LEASE | |
| 6/8/2003 | 9854712 | LEASE | |
| 7/4/2004 | AA556944 | MORTGAGE | |
| 26/5/2005 | AB501500 | LEASE | |
| 7/7/2005 | AB604278 | LEASE | |
| 5/1/2006 | AC24424 | DISCHARGE OF MORTGAGE | |
| 5/1/2006 | AC24337 | DISCHARGE OF MORTGAGE | |

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NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE
2/8/2018 1:16PM

FOLIO: A/320192

PAGE 3

| Recorded | Number | Type of Instrument | C.T. Issue |
|------------|----------|---|------------|
| 8/6/2006 | AC363888 | LEASE | |
| 26/7/2006 | AC481583 | LEASE | |
| 2/8/2006 | AC498407 | LEASE | |
| 8/2/2007 | AC920611 | LEASE | |
| 21/6/2007 | AD194290 | LEASE | |
| 13/12/2007 | AD627210 | LEASE | |
| 25/7/2008 | AE107169 | LEASE | |
| 26/11/2008 | AE348707 | LEASE | |
| 27/2/2009 | AE526315 | LEASE | |
| 26/3/2009 | AE574982 | LEASE | |
| 7/5/2009 | AE656106 | LEASE | |
| 4/8/2009 | AE875182 | VARIATION OF LEASE | |
| 9/12/2010 | AF931112 | LEASE | |
| 9/2/2011 | AG47623 | LEASE | |
| 2/6/2011 | AG271627 | VARIATION OF LEASE | |
| 7/6/2011 | AG282228 | LEASE | |
| 21/2/2012 | AG820508 | SURRENDER OF LEASE | |
| 21/2/2012 | AG820509 | LEASE | |
| 14/5/2012 | AG975938 | LEASE | |
| 26/2/2013 | AH575909 | DEPARTMENTAL DEALING | |
| 22/7/2013 | AH887572 | TRANSFER WITHOUT MONETARY CONSIDERATION | |
| 22/7/2013 | AH887573 | TRANSFER | EDITION 23 |

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FOLIO: A/320192

PAGE 4

| Recorded ----- | Number ----- | Type of Instrument ----- | C.T. Issue ----- |
|-------------------|-----------------|-----------------------------|---------------------|
| 13/6/2014 | AI657914 | VARIATION OF LEASE | |
| 7/7/2014 | AI717404 | CAVEAT | |
| 3/3/2015 | AJ200522 | VARIATION OF LEASE | |
| 10/9/2015 | AJ802919 | WITHDRAWAL OF CAVEAT | |
| 10/9/2015 | AJ802920 | TRANSFER | |
| 10/9/2015 | AJ802921 | MORTGAGE | EDITION 24 |
| 12/1/2017 | AM21175 | LEASE | |
| 12/1/2017 | AM21176 | LEASE | |
| 12/1/2017 | AM21177 | LEASE | EDITION 25 |
| 23/5/2017 | AM412643 | DEPARTMENTAL DEALING | |
| 21/8/2017 | DP1232496 | DEPOSITED PLAN | |
| 23/8/2017 | AM642879 | REQUEST | |
| 1/2/2018 | AN78867 | DISCHARGE OF MORTGAGE | |
| 1/2/2018 | AN78868 | TRANSFER | FOLIO CANCELLED |

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SEARCH DATE

2/8/2018 1:16PM

FOLIO: A/364217

First Title(s): SEE PRIOR TITLE(S)
Prior Title(s): VOL 15474 FOL 100

| Recorded | Number | Type of Instrument | C.T. Issue |
|------------|---------|-----------------------------|-----------------------------------|
| 29/7/1989 | | TITLE AUTOMATION PROJECT | LOT RECORDED FOLIO NOT CREATED |
| 5/10/1989 | | CONVERTED TO COMPUTER FOLIO | FOLIO CREATED CT NOT ISSUED |
| 16/5/1991 | Z655139 | LEASE | EDITION 1 |
| 10/10/1991 | Z975986 | TRANSFER | EDITION 2 |
| 8/11/1991 | E48207 | LEASE | EDITION 3 |
| 15/11/1991 | E63730 | LEASE | EDITION 4 |
| 25/2/1993 | I145061 | SURRENDER OF LEASE | |
| 25/2/1993 | I145062 | LEASE | |
| 25/2/1993 | I145063 | SURRENDER OF LEASE | |
| 25/2/1993 | I145064 | LEASE | EDITION 5 |
| 13/8/1993 | I563479 | LEASE | EDITION 6 |
| 2/5/1994 | U225139 | REQUEST | |
| 2/5/1994 | U225140 | LEASE | EDITION 7 |
| 20/1/1995 | U957154 | SURRENDER OF LEASE | |
| 20/1/1995 | U957155 | LEASE | EDITION 8 |
| 17/2/1995 | O27537 | LEASE | EDITION 9 |
| 17/11/1995 | O697513 | LEASE | EDITION 10 |
| 27/2/1996 | O941951 | LEASE | EDITION 11 |
| 2/5/1996 | 2125425 | TRANSFER OF LEASE | |
| 6/6/1996 | 2213640 | LEASE | |
| 6/6/1996 | 2213641 | LEASE | EDITION 12 |
| 2/7/1997 | 3197512 | LEASE | |
| 2/7/1997 | 3197513 | TRANSFER | EDITION 13 |

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SEARCH DATE

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FOLIO: A/364217

PAGE 2

| Recorded ----- | Number ----- | Type of Instrument ----- | C.T. Issue ----- |
|-------------------|-----------------|-----------------------------|---------------------|
| 3/7/1997 | 3201253 | CAVEAT | |
| 28/7/1997 | 3271323 | WITHDRAWAL OF CAVEAT | |
| 28/7/1997 | 3271324 | MORTGAGE | EDITION 14 |
| 24/9/1998 | 5288996 | LEASE | EDITION 15 |
| 24/8/1999 | 6122654 | LEASE | |
| 24/8/1999 | 6122655 | LEASE | EDITION 16 |
| 24/1/2000 | 6508813 | LEASE | EDITION 17 |
| 1/2/2000 | 6525755 | SURRENDER OF LEASE | |
| 1/2/2000 | 6525756 | LEASE | EDITION 18 |
| 12/10/2000 | 7145794 | LEASE | |
| 12/10/2000 | 7145795 | LEASE | EDITION 19 |
| 20/3/2002 | 8444881 | VARIATION OF LEASE | EDITION 20 |
| 4/7/2002 | 8733194 | DISCHARGE OF MORTGAGE | |
| 4/7/2002 | 8733196 | TRANSFER | |
| 4/7/2002 | 8733197 | TRANSFER | EDITION 21 |
| 20/12/2002 | 8981154 | MORTGAGE | EDITION 22 |
| 22/1/2003 | 9309004 | DEPARTMENTAL DEALING | |
| 23/6/2003 | 9717763 | SUB-LEASE | |
| 25/6/2003 | 9728140 | LEASE | |
| 6/8/2003 | 9854712 | LEASE | |
| 7/4/2004 | AA556944 | MORTGAGE | |
| 26/5/2005 | AB501500 | LEASE | |
| 7/7/2005 | AB604278 | LEASE | |
| 5/1/2006 | AC24424 | DISCHARGE OF MORTGAGE | |
| 5/1/2006 | AC24337 | DISCHARGE OF MORTGAGE | |

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SEARCH DATE

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FOLIO: A/364217

PAGE 3

| <u>Recorded</u> | <u>Number</u> | <u>Type of Instrument</u> | <u>C.T. Issue</u> |
|-----------------|---------------|--|-------------------|
| ----- | ----- | ----- | ----- |
| 8/6/2006 | AC363888 | LEASE | |
| 26/7/2006 | AC481583 | LEASE | |
| 2/8/2006 | AC498407 | LEASE | |
| 8/2/2007 | AC920611 | LEASE | |
| 21/6/2007 | AD194290 | LEASE | |
| 13/12/2007 | AD627210 | LEASE | |
| 25/7/2008 | AE107169 | LEASE | |
| 26/11/2008 | AE348707 | LEASE | |
| 27/2/2009 | AE526315 | LEASE | |
| 26/3/2009 | AE574982 | LEASE | |
| 7/5/2009 | AE656106 | LEASE | |
| 4/8/2009 | AE875182 | VARIATION OF LEASE | |
| 9/12/2010 | AF931112 | LEASE | |
| 9/2/2011 | AG47623 | LEASE | |
| 2/6/2011 | AG271627 | VARIATION OF LEASE | |
| 7/6/2011 | AG282228 | LEASE | |
| 21/2/2012 | AG820508 | SURRENDER OF LEASE | |
| 21/2/2012 | AG820509 | LEASE | |
| 14/5/2012 | AG975938 | LEASE | |
| 26/2/2013 | AH575909 | DEPARTMENTAL DEALING | |
| 22/7/2013 | AH887572 | TRANSFER WITHOUT MONETARY CONSIDERATION | |
| 22/7/2013 | AH887573 | TRANSFER | EDITION 23 |

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NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE

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FOLIO: A/364217

PAGE 4

| Recorded ----- | Number ----- | Type of Instrument ----- | C.T. Issue ----- |
|-------------------|-----------------|-----------------------------|---------------------|
| 13/6/2014 | AI657914 | VARIATION OF LEASE | |
| 7/7/2014 | AI717404 | CAVEAT | |
| 3/3/2015 | AJ200522 | VARIATION OF LEASE | |
| 10/9/2015 | AJ802919 | WITHDRAWAL OF CAVEAT | |
| 10/9/2015 | AJ802920 | TRANSFER | |
| 10/9/2015 | AJ802921 | MORTGAGE | EDITION 24 |
| 12/1/2017 | AM21175 | LEASE | |
| 12/1/2017 | AM21176 | LEASE | |
| 12/1/2017 | AM21177 | LEASE | EDITION 25 |
| 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 | AM28347 | DEPARTMENTAL DEALING | |
| 9/3/2017 | AM218115 | DEPARTMENTAL DEALING | |
| 23/5/2017 | AM412643 | DEPARTMENTAL DEALING | |
| 21/8/2017 | DP1232496 | DEPOSITED PLAN | |
| 23/8/2017 | AM642879 | REQUEST | |
| 1/2/2018 | AN78866 | DISCHARGE OF MORTGAGE | |
| 1/2/2018 | AN78868 | TRANSFER | FOLIO CANCELLED |

*** END OF SEARCH ***

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NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE

2/8/2018 1:16PM

FOLIO: A/402876

First Title(s): SEE PRIOR TITLE(S)
Prior Title(s): VOL 15474 FOL 101

| Recorded | Number | Type of Instrument | C.T. Issue |
|------------|---------|-----------------------------|-----------------------------------|
| 29/7/1989 | | TITLE AUTOMATION PROJECT | LOT RECORDED FOLIO NOT CREATED |
| 5/10/1989 | | CONVERTED TO COMPUTER FOLIO | FOLIO CREATED CT NOT ISSUED |
| 16/5/1991 | Z655139 | LEASE | EDITION 1 |
| 10/10/1991 | Z975986 | TRANSFER | EDITION 2 |
| 8/11/1991 | E48207 | LEASE | EDITION 3 |
| 15/11/1991 | E63730 | LEASE | EDITION 4 |
| 25/2/1993 | I145061 | SURRENDER OF LEASE | |
| 25/2/1993 | I145062 | LEASE | |
| 25/2/1993 | I145063 | SURRENDER OF LEASE | |
| 25/2/1993 | I145064 | LEASE | EDITION 5 |
| 13/8/1993 | I563479 | LEASE | EDITION 6 |
| 2/5/1994 | U225139 | REQUEST | |
| 2/5/1994 | U225140 | LEASE | EDITION 7 |
| 20/1/1995 | U957154 | SURRENDER OF LEASE | |
| 20/1/1995 | U957155 | LEASE | EDITION 8 |
| 17/2/1995 | O27537 | LEASE | EDITION 9 |
| 17/11/1995 | O697513 | LEASE | EDITION 10 |
| 27/2/1996 | O941951 | LEASE | EDITION 11 |
| 2/5/1996 | 2125425 | TRANSFER OF LEASE | |
| 6/6/1996 | 2213640 | LEASE | |
| 6/6/1996 | 2213641 | LEASE | EDITION 12 |
| 2/7/1997 | 3197512 | LEASE | |
| 2/7/1997 | 3197513 | TRANSFER | EDITION 13 |

END OF PAGE 1 - CONTINUED OVER

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NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE

 2/8/2018 1:16PM

FOLIO: A/402876

PAGE 2

| Recorded ----- | Number ----- | Type of Instrument ----- | C.T. Issue ----- |
|-------------------|-----------------|-----------------------------|---------------------|
| 3/7/1997 | 3201253 | CAVEAT | |
| 28/7/1997 | 3271323 | WITHDRAWAL OF CAVEAT | |
| 28/7/1997 | 3271324 | MORTGAGE | EDITION 14 |
| 24/9/1998 | 5288996 | LEASE | EDITION 15 |
| 24/8/1999 | 6122654 | LEASE | |
| 24/8/1999 | 6122655 | LEASE | EDITION 16 |
| 24/1/2000 | 6508813 | LEASE | EDITION 17 |
| 1/2/2000 | 6525755 | SURRENDER OF LEASE | |
| 1/2/2000 | 6525756 | LEASE | EDITION 18 |
| 12/10/2000 | 7145794 | LEASE | |
| 12/10/2000 | 7145795 | LEASE | EDITION 19 |
| 20/3/2002 | 8444881 | VARIATION OF LEASE | EDITION 20 |
| 4/7/2002 | 8733194 | DISCHARGE OF MORTGAGE | |
| 4/7/2002 | 8733196 | TRANSFER | |
| 4/7/2002 | 8733197 | TRANSFER | EDITION 21 |
| 20/12/2002 | 8981154 | MORTGAGE | EDITION 22 |
| 22/1/2003 | 9309004 | DEPARTMENTAL DEALING | |
| 23/1/2003 | 9310245 | LEASE | |
| 16/4/2003 | 9535503 | LEASE | |
| 23/6/2003 | 9717763 | SUB-LEASE | |
| 25/6/2003 | 9728140 | LEASE | |
| 6/8/2003 | 9854712 | LEASE | |
| 7/4/2004 | AA556944 | MORTGAGE | |
| 26/5/2005 | AB501500 | LEASE | |
| 7/7/2005 | AB604278 | LEASE | |

END OF PAGE 2 - CONTINUED OVER

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NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE

 2/8/2018 1:16PM

FOLIO: A/402876

PAGE 3

| Recorded ----- | Number ----- | Type of Instrument ----- | C.T. Issue ----- |
|-------------------|-----------------|-----------------------------|---------------------|
| 5/1/2006 | AC24424 | DISCHARGE OF MORTGAGE | |
| 5/1/2006 | AC24337 | DISCHARGE OF MORTGAGE | |
| 8/6/2006 | AC363888 | LEASE | |
| 26/7/2006 | AC481583 | LEASE | |
| 2/8/2006 | AC498407 | LEASE | |
| 8/2/2007 | AC920611 | LEASE | |
| 21/6/2007 | AD194290 | LEASE | |
| 13/12/2007 | AD627210 | LEASE | |
| 25/7/2008 | AE107169 | LEASE | |
| 26/11/2008 | AE348707 | LEASE | |
| 27/2/2009 | AE526315 | LEASE | |
| 26/3/2009 | AE574982 | LEASE | |
| 7/5/2009 | AE656106 | LEASE | |
| 4/8/2009 | AE875182 | VARIATION OF LEASE | |
| 9/12/2010 | AF931112 | LEASE | |
| 9/2/2011 | AG47623 | LEASE | |
| 2/6/2011 | AG271627 | VARIATION OF LEASE | |
| 7/6/2011 | AG282228 | LEASE | |
| 21/2/2012 | AG820508 | SURRENDER OF LEASE | |
| 21/2/2012 | AG820509 | LEASE | |
| 14/5/2012 | AG975938 | LEASE | |
| 26/2/2013 | AH575909 | DEPARTMENTAL DEALING | |
| 22/7/2013 | AH887572 | TRANSFER WITHOUT MONETARY | |

END OF PAGE 3 - CONTINUED OVER

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NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE

 2/8/2018 1:16PM

FOLIO: A/402876

PAGE 4

| Recorded ----- | Number ----- | Type of Instrument ----- | C.T. Issue ----- |
|-------------------|-----------------|-----------------------------|---------------------|
| 22/7/2013 | AH887573 | CONSIDERATION TRANSFER | EDITION 23 |
| 13/6/2014 | AI657914 | VARIATION OF LEASE | |
| 7/7/2014 | AI717404 | CAVEAT | |
| 3/3/2015 | AJ200522 | VARIATION OF LEASE | |
| 10/9/2015 | AJ802919 | WITHDRAWAL OF CAVEAT | |
| 10/9/2015 | AJ802920 | TRANSFER | |
| 10/9/2015 | AJ802921 | MORTGAGE | EDITION 24 |
| 12/1/2017 | AM21175 | LEASE | |
| 12/1/2017 | AM21176 | LEASE | |
| 12/1/2017 | AM21177 | LEASE | EDITION 25 |

*** END OF SEARCH ***

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Req:R019210 /Doc:PA 035597 PA /Rev:23-Jun-2015 /Sts:OK.SC /Pgs:ALL /Prt:02-Aug-2018 13:58 /Seq:1 of 4
 Ref:advlegs /Src:F

New South Wales

APPLICATION TO BRING LANDS UNDER THE PROVISIONS OF THE REAL PROPERTY ACT, 1900.
FEE SIMPLE.

No. 35597

REGISTRAR GENERAL
 NEW SOUTH WALES

FEDER MARTIN ANDERSEN of Rosebery in the State of New South Wales, Mechanical Engineer

I do solemnly and sincerely declare, that I AM seized for an Estate in fee simple of **ALL THAT PIECE** or parcel of land situate in the Municipality of Mascot Parish of Botany County of Cumberland containing an area of two roods thirty and one quarter perches being part of J.R. Hatfield's grant of sixty five acres and being the land described in Conveyance dated the fourth day of August one thousand nine hundred and forty two and made between William James Lodge and Charles Henry Lodge (both therein described) of the one part and myself of the other part registered Number 776 Book 1917 subject to the easement described in the said Deed.

which land (including all improvements) is of the value of *Five hundred pounds* and no more, and is *sixty five acres* part of *sixty five acres* originally granted by Crown grant, under the hand of the Governor of the Colony, dated the *7th* day of *April* 1853.

And I further declare, that I *genuinely* believe there does not exist any lease or agreement for lease of the said land, for any term exceeding a tenancy for one year, or from year to year.

Also, that there does not exist any mortgage, lien, writ of execution, charge or encumbrance, will or settlement, or any deed or writing, contract, or dealing (other than such lease or tenancy as aforesaid), giving any right, claim, or interest in or to the said land, or any part thereof, to any other person than myself.

and I further declare, that there is no person in possession or occupation of the said land or any part thereof adversely to my Estate or interest therein, and that the said land is now occupied by myself.

and that the owners and occupiers of adjacent lands are as follows:-

| State whether on North, South, East, or West. | Name. | State whether owner or occupier. | Address. |
|---|----------------------------------|---|---------------------------|
| North | Park of Mascot Council | | Council Chambers, Mascot. |
| West | Old Botany Road | | |
| South | Estate late S. Lodge | Vacant land c/- W.S. Forester, 18 Denison Street, Penshurst. | |
| East | A.W.K. Finch and Mrs.A.E. Crabbe | Vacant land c/- Mrs. A.E. Crabbe, No.10 Thompson Street, Clifton Gardens. | |

Part of title's issue: Vol. 5595 Fol. 36
Dated: - 26-3-46

Req:R019210 /Doc:PA 035597 PA /Rev:23-Jun-2015 /Sts:OK.SC /Egs:ALL /Prt:02-Aug-2018 13:58 /Seq:2 of 4
Ref:advlegs /Src:P

And I further declare, that the annexed Schedule, to which my signature is affixed, and which is to be taken as part of this Declaration, contains a full and correct list commencing with Conveyance dated 9/2/1872 Savings Bank of New South Wales to James Barnes Registered Number 824 Book 128 of all settlements, deeds, documents, or instruments, maps, plans and papers relating to the land comprised in this application, so far as I have any means of ascertaining the same, distinguishing such as being in my possession or under my control, are herewith lodged and indicating where or with whom, so far as known to me any others thereof are deposited. Also, that there does not exist any fact or circumstance whatever material to the title, which is not hereby fully and fairly disclosed to the utmost extent of my knowledge, information, and belief; and that there is not, to my knowledge and belief, any action or suit pending affecting the said land, nor any person who has or claims any estate, right, title or interest therein, or in any part thereof, otherwise than by virtue and to the extent of some lease or tenancy hereby fully disclosed.

I make this solemn Declaration, conscientiously believing the same to be true.
DATED at Sydney this Seventeenth day of February, 1944.
(RULE UP ALL BLANKS BEFORE SIGNING.)

Made and subscribed by the abovesaid
PEDER MARTIN ANDERSEN
this 17th day of February 1944
in the presence of:
C. J. Garrett J.P.
Signature of Applicant } *P. Andersen*

To the Registrar-General,—
I, PEDER MARTIN ANDERSEN the above declarant, do hereby apply to have the land described in the above declaration brought under the provisions of the Real Property Act, and request you to issue the Certificate of Title in the name of myself this Deponent

DATED at Sydney this Seventeenth day of February, 1944.
Witness to Signature—
[Signatures]
(Signature of Applicant) *P. Andersen*

* N.B.—The Schedule below and Certificate enclosed on fourth page above, to also signed.
In no case can any alterations, however trifling, be allowed to be made after the application has been once declared, unless all the parties to-sign and re-declare the same. If it is discovered that any alterations are necessary, the applicant may make a statutory declaration setting out in what manner he desires the application to be altered, which declaration will then (unless the Registrar General considers that a fresh application ought to be made) be read as one with the application.
(RULE UP ALL BLANKS BEFORE SIGNING.)

SCHEDULE REFERRED TO.*
(TO BE SIGNED BY APPLICANT IMMEDIATELY BELOW THE LAST DOCUMENT SCHEDULED.)
To include not only Title Deeds, Probates, Letters of Administration, etc., but also the Surveyor's Plan or Statement in Lieu thereof.

* For the particulars which this Schedule must comprise, see concluding part of Declaration, to which particular attention is directed, and any omission or misstatement will render void the title to the premises of false declaration.

| No. | Date. | Nature of Instrument. | Parties. | Registration. | | When and by whom Lodged. |
|-----|----------|-----------------------|---|---------------|-----|--|
| | | | | Book. | No. | |
| 1 | 9/2/72 | Convey. | Savings Bank of New South Wales to James Barnes | 128 | 824 | Documents Nos. 1 to 8 inclusive permanently deposited on 5/9/42 for custody under Section 64 of the Conveyancing Act 1919 wide receipt No. 8707. |
| 2 | 9/2/72 | Ditto | James Barnes to Herbert S. Gibson | 128 | 825 | |
| 3 | 16/6/75 | Ditto | Herbert S. Gibson to John Lodge | 151 | 697 | |
| 4 | 17/6/75 | Mortgage | John Lodge to Herbert S. Gibson | 151 | 698 | |
| 5 | 1/12/08 | Discharge (endor.) | Neal Collins to John Lodge | 869 | 948 | |
| 6 | 7/7/97 | Transf. | Herbert S. Gibson to Neal Collins | 602 | 770 | |
| 7 | 12/11/29 | Appt. | Sarah Lodge (widow) (Adm. re Will of Charlotte of New Lodge) (Extrix. of John Lodge) to William J. Lodge Trustee (new Trustee re Will of said John Lodge) | 1582 | 924 | |

Should any transaction affecting the land in this application be entered into or any alterations in the buildings or fences be made subsequent to the date of the application, but prior to the issue of the Certificate of Title, the Registrar General should be informed immediately, and all documents evidencing such transaction should be lodged.

Req:R019210 /Doc:PA 035597 PA /Rev:23-Jun-2015 /Sts:OK.SC /Egs:ALL /Prt:02-Aug-2018 13:58 /Seq:4 of 4
Ref:advlegs /Src:P

Handwritten notes:
Indication of ...
2/6/18

Handwritten signature:
A. E. Whatmore

I Section 137 requires that this Certificate be signed by Applicant or the Solicitor and ensure that it is properly filled up or completed, to a penalty of \$500. Also, to ensure recoverable by parties affected. If by Solicitor, he/she/it must be signed by the Solicitor of the whole named Applicant, and should add his own address to his signature. The signature should be that of the Solicitor himself, and not of his firm.

I certify that the within application is correct for the purposes of the Real Property Act, 1900.

(Signature) *A. E. Whatmore*

(RULE UP ALL BLANKS BEFORE SIGNING, EXCEPT SPACE IN SCHEDULE BELOW APPLICANT'S SIGNATURE)

F E E S.

PAYMENT OF THESE MUST ACCOMPANY THE APPLICATION.

| | E s. d. |
|--|---------|
| Certificate of Title | 1 5 0 |
| Office Copy of Plan (when a Plan is furnished) ... | 0 5 0 |
| Preparation of Plan (when a Plan is not furnished) | 0 7 5 |
| Advertisement | 1 10 0 |
| Assurance, id. in the £ on declared value | |
| Lodgment fee | 1 0 0 |

Handwritten notes:
Read plan 2-30/18
Mx 3-4-18

State to whom all correspondence relating to this Application should be sent, with address, as under, viz.:-

Name A. E. WHATMORE C. C. M. GEE & CO.,

Occupation Solicitors,

Post Town 14 Spring Street, Sydney.

T. H. 755222, ACTING GOV. PRINTER.

EXTRA FEES PA 035597
Diagram 2/6/18
Extra Folios

No 36370

21 10 25 1947
Lodged 1-0-0
1-5-0
76
21/1/46
21-5-47

APPLICATION FOR CERTIFICATE OF TITLE FOR RESUMED LAND
REAL PROPERTY ACT, 1900, SECTION 51 A.



F 25470

The Council of the Municipality of Mascot hereby certifies that a Notification of Resumption, a copy of which is set out hereunder, appeared in the Government Gazette of the 31st January, 1947 No. 18 and the said Council of the Municipality of Mascot hereby applies to the Registrar General for a Certificate of Title for so much of the land described in the said Notification as is not under the provisions of the Real Property Act, 1900, and certifies this application to be correct for the purposes of the said Act.

"LOCAL GOVERNMENT ACT, 1919 - PUBLIC WORKS ACT, 1912

Mascot Municipal Council: Improvement and Embellishment of the Area.

Acquisition of Land.

APPLICATION by The Council of the Municipality of Mascot having been made that the land described in the Schedule hereto be appropriated or resumed for the purpose of the improvement and embellishment of the area, IT IS HEREBY NOTIFIED AND DECLARED by His Excellency the Governor, acting with the advice of the Executive Council, and by the Minister for Public Works, that so much of the said land as is Crown land is hereby appropriated and so much of the said land as is private property is hereby resumed under Division 1 of Part V of the Public Works Act, 1912, for the purpose aforesaid; AND the Minister for Public Works hereby further notifies that the said land is vested in The Council of the Municipality of Mascot.

Dated at Sydney, this 21st day of January, 1947.

J. NORTHCOTT, Governor.

J.J. CAHILL, Minister for Public Works.

Schedule.

All that piece or parcel of land situate in the Municipality of Mascot, parish of Botany, and county of Cumberland, being part of portion 136; Commencing on the south-eastern side of Old Botany road at the north-western corner of lot A, plan annexed to dealing B646396; and bounded thence on the north-west by that side of that road bearing 30 degrees 8 minutes 67 feet 11 inches to the south-western corner of the land comprised in Real Property Application 35,597; on the north by the southern boundary of that land and part of the southern boundary of the land comprised in Certificate of Title, volume 5,356, folio 166, respectively, bearing 90 degrees 9 minutes 45 seconds 276 feet 8 1/2 inches and 90 degrees 11 minutes 30 seconds 483 feet 10 1/2 inches to the north-western corner of lot 1, deposited plan 15,190; on the east by the western boundary of that lot bearing 175 degrees 37 minutes 98 feet 2 1/2 inches; on the south by the northern side of Macintosh

Req:R019561 /Doc:PA 036370 PA /Rev:25-Jun-2015 /Sts:OK.SC /Pgs:ALL /Prt:02-Aug-2018 14:27 /Se
Ref:advlegs /Src:P

street bearing 269 degrees 39 minutes 20 seconds 99 feet 11 1/2 inches to the north-eastern corner of lot B of the aforesaid plan annexed to dealing B646396; and again on the south by the northern boundary of the said lots B and A, being lines successively bearing 276 degrees 31 minutes 206 feet 11 1/2 inches, 272 degrees 12 minutes 311 feet 4 inches and 272 degrees 6 minutes 185 feet 7 inches to the point of commencement, - having an area of 1 acre 1 rood 20 perches or thereabouts, and said to be in the possession of Sarah Emily Forster. (Misc.46-8,355) (2017)*

The Common Seal of the Council of the Municipality of Mascot was hereunto affixed on the 29th day of April, 1947, by resolution of Council passed on the 22nd day of April, 1947.)

Charles L Gray
Mayor
Harley
Town Clerk.



- 1. Copy of Plan of survey made by G.P. Johns.
 - 2. Final Deed by Town Clerk Mascot dt 4/8/47.
 - 3. Contract of Sale between Council, Mascot & Rorge Investments.
- ~~4. ... of the ... by ... to ...~~

EXTRA FEE \$36.50
Diagram
Extra Fees

Sample lodged 29/4/47

Counter of title
Vol 5626 fol 128 issued
12/5/48

Received document, and undertake some large some

to much
Doc 1/2-3/3/51
all docs to remain
with case

minutes Board for
M. Magee
3/6/48



NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: 13/1232496

| SEARCH DATE | TIME | EDITION NO | DATE |
|-------------|---------|------------|----------|
| 2/8/2018 | 1:16 PM | 1 | 2/2/2018 |

NO CERTIFICATE OF TITLE HAS ISSUED FOR THE CURRENT EDITION OF THIS FOLIO. CONTROL OF THE RIGHT TO DEAL IS HELD BY WESTPAC BANKING CORPORATION.

LAND

LOT 13 IN DEPOSITED PLAN 1232496
 AT MASCOT
 LOCAL GOVERNMENT AREA BAYSIDE
 PARISH OF BOTANY COUNTY OF CUMBERLAND
 TITLE DIAGRAM DP1232496

FIRST SCHEDULE

JKN PARK PTY LTD

SECOND SCHEDULE (11 NOTIFICATIONS)

- 1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
- 2 C562969 EASEMENT FOR STORMWATER CHANNEL AFFECTING THE PART OF THE LAND ABOVE DESCRIBED SHOWN SO BURDENED IN DP187190
- 3 F326017 RIGHT OF WAY APPURTENANT TO THE LAND ABOVE DESCRIBED AFFECTING THE LAND SHOWN IN THE PLAN ANNEXED TO F326017
- 4 W678085 LEASE TO THE SYDNEY COUNTY COUNCIL OF PREMISES BEING SUBSTATION NO 5937 TOGETHER WITH RIGHT OF WAY & EASEMENT FOR ELECTRICITY PURPOSES AS SHOWN IN PLAN WITH W678085. EXPIRES: 31/12/2035.
 - AK971351 LEASE OF LEASE W678085 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 SERVICES PTY LTD
 - AK971571 CHANGE OF NAME AFFECTING LEASE W678085 LESSEE

END OF PAGE 1 - CONTINUED OVER

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NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: 13/1232496

PAGE 2

SECOND SCHEDULE (11 NOTIFICATIONS) (CONTINUED)

NOW ALPHA DISTRIBUTION MINISTERIAL HOLDING CORPORATION

5 AE574982 LEASE TO TRANSFIELD SERVICES (AUSTRALIA) PTY LIMITED BEING UNIT 4, 154 O'RIORDAN STREET, MASCOT. EXPIRES: 31/12/2013.
AJ200522 VARIATION OF LEASE AE574982 EXPIRY DATE NOW 31/12/2018.

6 AG47623 LEASE TO GEARHOUSE BROADCAST PTY LIMITED BEING UNIT 1. EXPIRES: 19/12/2015. OPTION OF RENEWAL: 5 YEARS.

7 AG820509 LEASE TO DAIWA FOOD CORPORATION PTY LIMITED BEING UNIT 6. EXPIRES: 31/12/2021.

8 AJ802921 MORTGAGE TO WESTPAC BANKING CORPORATION

9 AM21175 LEASE TO SUSHI TRAIN (AUSTRALIA) PTY LTD BEING UNIT 2, 154 O'RIORDAN STREET, MASCOT. EXPIRES: 23/10/2022.

10 AM21176 LEASE TO TOWERS INTERNATIONAL FREIGHT FORWARDERS PTY LTD BEING UNIT 5, 154 O'RIORDAN STREET, MASCOT. EXPIRES: 7/9/2020.

11 AM21177 LEASE TO GLASSONS AUSTRALIA LIMITED BEING UNIT 7, 154 O'RIORDAN STREET, MASCOT. EXPIRES: 7/4/2020.

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

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NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: 14/1232496

| SEARCH DATE | TIME | EDITION NO | DATE |
|-------------|---------|------------|----------|
| 2/8/2018 | 1:16 PM | 1 | 2/2/2018 |

NO CERTIFICATE OF TITLE HAS ISSUED FOR THE CURRENT EDITION OF THIS FOLIO. CONTROL OF THE RIGHT TO DEAL IS HELD BY WESTPAC BANKING CORPORATION.

LAND

LOT 14 IN DEPOSITED PLAN 1232496
AT MASCOT
LOCAL GOVERNMENT AREA BAYSIDE
PARISH OF BOTANY COUNTY OF CUMBERLAND
TITLE DIAGRAM DP1232496

FIRST SCHEDULE

JKN PARK PTY LTD

SECOND SCHEDULE (8 NOTIFICATIONS)

- 1 LAND EXCLUDES MINERALS AND IS SUBJECT TO RESERVATIONS AND CONDITIONS IN FAVOUR OF THE CROWN - SEE CROWN GRANT(S)
- 2 AE574982 LEASE TO TRANSFIELD SERVICES (AUSTRALIA) PTY LIMITED BEING UNIT 4, 154 O'RIORDAN STREET, MASCOT. EXPIRES: 31/12/2013.
AJ200522 VARIATION OF LEASE AE574982 EXPIRY DATE NOW 31/12/2018.
- 3 AG47623 LEASE TO GEARHOUSE BROADCAST PTY LIMITED BEING UNIT 1. EXPIRES: 19/12/2015. OPTION OF RENEWAL: 5 YEARS.
- 4 AG820509 LEASE TO DAIWA FOOD CORPORATION PTY LIMITED BEING UNIT 6. EXPIRES: 31/12/2021.
- 5 AJ802921 MORTGAGE TO WESTPAC BANKING CORPORATION
- 6 AM21175 LEASE TO SUSHI TRAIN (AUSTRALIA) PTY LTD BEING UNIT 2, 154 O'RIORDAN STREET, MASCOT. EXPIRES: 23/10/2022.
- 7 AM21176 LEASE TO TOWERS INTERNATIONAL FREIGHT FORWARDERS PTY LTD BEING UNIT 5, 154 O'RIORDAN STREET, MASCOT. EXPIRES: 7/9/2020.
- 8 AM21177 LEASE TO GLASSONS AUSTRALIA LIMITED BEING UNIT 7, 154 O'RIORDAN STREET, MASCOT. EXPIRES: 7/4/2020.

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

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NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: 15/1232496

| SEARCH DATE | TIME | EDITION NO | DATE |
|-------------|---------|------------|----------|
| 2/8/2018 | 1:16 PM | 1 | 2/2/2018 |

NO CERTIFICATE OF TITLE HAS ISSUED FOR THE CURRENT EDITION OF THIS FOLIO.
 CONTROL OF THE RIGHT TO DEAL IS HELD BY WESTPAC BANKING CORPORATION.

LAND

LOT 15 IN DEPOSITED PLAN 1232496
 AT MASCOT
 LOCAL GOVERNMENT AREA BAYSIDE
 PARISH OF BOTANY COUNTY OF CUMBERLAND
 TITLE DIAGRAM DP1232496

FIRST SCHEDULE

JKN PARK PTY LTD

SECOND SCHEDULE (3 NOTIFICATIONS)

- 1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
- 2 R732850 EASEMENT FOR STORMWATER DRAINAGE AFFECTING THE PART
 OF THE LAND SHOWN IN DP583011
- 3 AJ11259 MORTGAGE TO WESTPAC BANKING CORPORATION

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

advlegs

PRINTED ON 2/8/2018

Obtained from NSW LRS on 02 August 2018 01:16 PM AEST

* 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.

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NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: A/402876

| SEARCH DATE | TIME | EDITION NO | DATE |
|-------------|---------|------------|-----------|
| 2/8/2018 | 1:16 PM | 25 | 12/1/2017 |

LAND

LOT A IN DEPOSITED PLAN 402876
 AT MASCOT
 LOCAL GOVERNMENT AREA BAYSIDE
 PARISH OF BOTANY COUNTY OF CUMBERLAND
 TITLE DIAGRAM DP402876

FIRST SCHEDULE

JKN PARK PTY LTD (T AJ802920)

SECOND SCHEDULE (10 NOTIFICATIONS)

- 1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
- 2 C562969 EASEMENT FOR STORMWATER CHANNEL AFFECTING THE PART OF THE LAND ABOVE DESCRIBED SHOWN SO BURDENED IN DP187190
- 3 AE574982 LEASE TO TRANSFIELD SERVICES (AUSTRALIA) PTY LIMITED BEING UNIT 4, 154 O'RIORDAN STREET, MASCOT. EXPIRES: 31/12/2013.
AJ200522 VARIATION OF LEASE AE574982 EXPIRY DATE NOW 31/12/2018.
- 4 AG47623 LEASE TO GEARHOUSE BROADCAST PTY LIMITED BEING UNIT 1. EXPIRES: 19/12/2015. OPTION OF RENEWAL: 5 YEARS.
- 5 AG282228 LEASE TO WORKVENTURES LIMITED BEING UNIT 3. EXPIRES: 13/4/2014. OPTION OF RENEWAL: 2 YEARS.
AI657914 VARIATION OF LEASE AG282228 EXPIRY DATE NOW 13/10/2015.
- 6 AG820509 LEASE TO DAIWA FOOD CORPORATION PTY LIMITED BEING UNIT 6. EXPIRES: 31/12/2021.
- 7 AJ802921 MORTGAGE TO WESTPAC BANKING CORPORATION
- 8 AM21175 LEASE TO SUSHI TRAIN (AUSTRALIA) PTY LTD BEING UNIT 2, 154 O'RIORDAN STREET, MASCOT. EXPIRES: 23/10/2022.
- 9 AM21176 LEASE TO TOWERS INTERNATIONAL FREIGHT FORWARDERS PTY LTD BEING UNIT 5, 154 O'RIORDAN STREET, MASCOT. EXPIRES: 7/9/2020.
- 10 AM21177 LEASE TO GLASSONS AUSTRALIA LIMITED BEING UNIT 7, 154 O'RIORDAN STREET, MASCOT. EXPIRES: 7/4/2020.

NOTATIONS

END OF PAGE 1 - CONTINUED OVER

advlegs

PRINTED ON 2/8/2018

NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: A/402876

PAGE 2

NOTATIONS (CONTINUED)

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

advlegs

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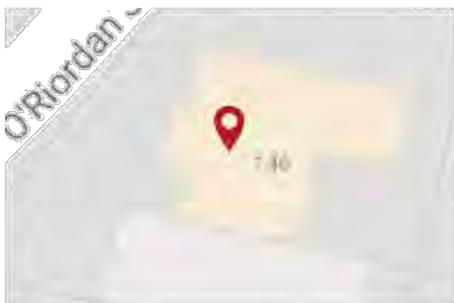


Appendix D
Planning and
Zoning
Reports

Property Report for 146 O'Riordan Street, Mascot, 2020

Property Details

Address: 146 O'Riordan Street, Mascot, 2020
 Lot/Section/Plan no: 1/-/DP85597
 Council: BAYSIDE



Council Details

BAYSIDE COUNCIL
 Website
 Phone Number
 Email Address
 Council Address

Planning Controls associated with this property

Land Zoning

- B5 - Business Development : (pub. 2013-06-21)

Acid Sulfate Soils

- Class 4 (pub. 2013-06-21)

Contribution Plans (LGA-Based)

- Botany Bay CPs 2016
 - Rockdale and Kogarah CP 2006 - Ramsgate Commercial Centre
 - Rockdale CP 2004 - as amended 4 November 2010
 - Rockdale CP 2008
 - Rockdale CP 2016 - Urban Renewal Area

Development Control Plans (LGA-Based)

- Botany Bay DCP 2013 - as amended 25 Oct 2016
 - Rockdale DCP 2011 - as amended 5 Jun 2015

Floor Space Ratio

- V - 3.00 Ratio : Range [3.00 - 3.49] (pub. 2013-06-21)

Height of Building

- R - 22.0 m : Range [21.0 - 22.9 m] (pub. 2013-06-21)

Key Sites

- Mascot Station Precinct (pub. 2013-06-21)

Land Application LEP

- Included : Botany Bay Local Environmental Plan 2013 (pub. 2013-06-21)

Other spatial data associated with this property

Local Government Area

- Bayside

Suburbs

- Mascot



This report is provided for general information purposes only and does not replace the need for a section 149 Certificate

State Environmental Planning Policies which apply at 146 O'Riordan Street, Mascot, 2020

State Environmental Planning Policy (Affordable Rental Housing) 2009 : (pub. 2009-07-31)
State Environmental Planning Policy (Building Sustainability Index: BASIX) 2004 : (pub. 2004-06-25)
State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 : (pub. 2008-12-12)
State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 : (pub. 2004-03-31)
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State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007 : (pub. 2007-02-16)
State Environmental Planning Policy (Miscellaneous Consent Provisions) 2007 : (pub. 2007-09-28)
State Environmental Planning Policy No 19-Bushland in Urban Areas : (pub. 1986-10-24)
State Environmental Planning Policy No 1-Development Standards : (pub. 1980-10-17)
State Environmental Planning Policy No 21-Caravan Parks : (pub. 1992-04-24)
State Environmental Planning Policy No 30-Intensive Agriculture : (pub. 1989-12-08)
State Environmental Planning Policy No 33-Hazardous and Offensive Development : (pub. 1992-03-13)
State Environmental Planning Policy No 36-Manufactured Home Estates : (pub. 1993-07-16)
State Environmental Planning Policy No 50-Canal Estate Development : (pub. 1997-11-10)
State Environmental Planning Policy No 55-Remediation of Land : (pub. 1998-08-28)
State Environmental Planning Policy No 62-Sustainable Aquaculture : (pub. 2000-08-25)
State Environmental Planning Policy No 64-Advertising and Signage : (pub. 2001-03-16)
State Environmental Planning Policy No 65-Design Quality of Residential Apartment Development : (pub. 2002-07-26)
State Environmental Planning Policy No 70-Affordable Housing (Revised Schemes) : (pub. 2002-05-01)
State Environmental Planning Policy (Vegetation in Non-Rural Areas) 2017 : Subject Land (pub. 2017-08-25)

Planning Controls contained in the Botany Bay Local Environmental Plan 2013

Floor Space Ratio

(1) The objectives of this clause are as follows:

- (a) to establish standards for the maximum development density and intensity of land use,
- (b) to ensure that buildings are compatible with the bulk and scale of the existing and desired future character of the locality,
 - (c) to maintain an appropriate visual relationship between new development and the existing character of areas or locations that are not undergoing, and are not likely to undergo, a substantial transformation,
- (d) to ensure that buildings do not adversely affect the streetscape, skyline or landscape when viewed from adjoining roads and other public places such as parks, and community facilities,
- (e) to minimise adverse environmental effects on the use or enjoyment of adjoining properties and the public domain,
- (f) to provide an appropriate correlation between the size of a site and the extent of any development on that site,
- (g) to facilitate development that contributes to the economic growth of Botany Bay.

(2) The maximum floor space ratio for a building on any land is not to exceed the floor space ratio shown for the land on the Floor Space Ratio Map.

(2A) Despite subclause (2), if an area of land in Zone R3 Medium Density Residential or Zone R4 High Density Residential exceeds 2,000 square metres, the floor space ratio of a building on that land may exceed the maximum floor space ratio shown for the land on the Floor Space Ratio Map but must not exceed 1.5:1.

(2B) Subclause (2A) does not apply to land identified as "Area 1" on the Floor Space Ratio Map.

(2C) Despite subclause (2), if an area of land identified as "Area 2" on the Floor Space Ratio Map has a site area exceeding 1,900 square metres, the maximum floor space ratio for a building on that land may exceed the maximum floor space ratio shown for the land on the Floor Space Ratio Map by no more than 0.65:1.

(2D) Despite subclause (2), if a building is permissible under clause 9A of Schedule 1 on land identified as "Area 4" on the Floor Space Ratio Map, the maximum floor space ratio for the building must not exceed 1.5:1.



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Planning Controls contained in the Botany Bay Local Environmental Plan 2013

Height of Building

(1) The objectives of this clause are as follows:

- (a) to ensure that the built form of Botany Bay develops in a coordinated and cohesive manner,
- (b) to ensure that taller buildings are appropriately located,
- (c) to ensure that building height is consistent with the desired future character of an area,
- (d) to minimise visual impact, disruption of views, loss of privacy and loss of solar access to existing development,
- (e) to ensure that buildings do not adversely affect the streetscape, skyline or landscape when viewed from adjoining roads and other public places such as parks, and community facilities.

(2) The height of a building on any land is not to exceed the maximum height shown for the land on the Height of Buildings Map.

(2A) Despite subclause (2), if an area of land in Zone R3 Medium Density Residential or Zone R4 High Density Residential exceeds 2,000 square metres, the height of a building on that land may exceed the maximum height shown for the land on the Height of Buildings Map but must not exceed 22 metres.

(2B) Subclause (2A) does not apply to land identified as "Area 1" on the Height of Buildings Map.

(2C) Despite subclause (2), if an area of land identified as "Area 2" on the Height of Buildings Map has a site area exceeding 1,900 square metres, the maximum height for a building on that land may exceed the maximum height shown for the land on the Height of Buildings Map by no more than 2 metres.



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Planning Controls contained in the Botany Bay Local Environmental Plan 2013

Land Zoning

Zone B5 Business Development

1 Objectives of zone

To enable a mix of business and warehouse uses, and bulky goods premises that require a large floor area, in locations that are close to, and that support the viability of,

- centres.

2 Permitted without consent

Nil

3 Permitted with consent

Bulky goods premises; Centre-based child care facilities; Food and drink premises; Garden centres; Hardware and building supplies; High technology industries; Landscaping material supplies; Neighbourhood shops; Passenger transport facilities; Respite day care centres; Roads; Vehicle sales or hire premises; Warehouse or distribution centres; Any other development not specified in item 2 or 4

4 Prohibited

Agriculture; Air transport facilities; Airstrips; Animal boarding or training establishments; Biosolids treatment facilities; Boat building and repair facilities; Boat launching ramps; Boat sheds; Camping grounds; Caravan parks; Cemeteries; Charter and tourism boating facilities; Correctional centres; Crematoria; Depots; Eco-tourist facilities; Electricity generating works; Environmental facilities; Environmental protection works; Exhibition homes; Exhibition villages; Extractive industries; Farm buildings; Forestry; Freight transport facilities; Heavy industrial storage establishments; Helipads; Highway service centres; Home-based child care; Home businesses; Home occupations; Home occupations (sex services); Industrial retail outlet; Industrial training facilities; Industries; Jetties; Marinas; Mooring pens; Moorings; Mortuaries; Open cut mining; Port facilities; Recreation facilities (major); Recreation facilities (outdoor); Research stations; Residential accommodation; Resource recovery facilities; Restricted premises; Retail premises; Rural industries; Sewage treatment plants; Sex services premises; Storage premises; Transport depots; Truck depots; Vehicle body repair workshops; Vehicle repair stations; Veterinary hospitals; Waste disposal facilities; Water recreation structures; Water recycling facilities; Water supply systems; Wharf or boating facilities; Wholesale supplies



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Planning Controls contained in the Botany Bay Local Environmental Plan 2013

Land Zoning

Zone RE1 Public Recreation

1 Objectives of zone

- To enable land to be used for public open space or recreational purposes.
- To provide a range of recreational settings and activities and compatible land uses.
- To protect and enhance the natural environment for recreational purposes.

2 Permitted without consent

Environmental protection works

3 Permitted with consent

Centre-based child care facilities; Community facilities; Emergency services facilities; Environmental facilities; Flood mitigation works; Information and education facilities; Jetties; Kiosks; Markets; Recreation areas; Recreation facilities (indoor); Recreation facilities (major); Recreation facilities (outdoor); Respite day care centres; Roads; Signage; Water storage facilities

4 Prohibited

Any development not specified in item 2 or 3



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Property Report for 154 O'Riordan Street, Mascot, 2020

Property Details

Address: 154 O'Riordan Street, Mascot, 2020
 Lot/Section/Plan no: A/-/DP320192
 Council: BAYSIDE



Council Details

BAYSIDE COUNCIL
 Website
 Phone Number
 Email Address
 Council Address

Planning Controls associated with this property

- Land Zoning**
- B5 - Business Development : (pub. 2013-06-21)
- Acid Sulfate Soils**
- Class 4 (pub. 2013-06-21)
- Contribution Plans (LGA-Based)**
- Botany Bay CPs 2016
- Rockdale and Kogarah CP 2006 - Ramsgate Commercial Centre
- Rockdale CP 2004 - as amended 4 November 2010
- Rockdale CP 2008
- Rockdale CP 2016 - Urban Renewal Area
- Development Control Plans (LGA-Based)**
- Botany Bay DCP 2013 - as amended 25 Oct 2016
- Rockdale DCP 2011 - as amended 5 Jun 2015
- Floor Space Ratio**
- V - 3.00 Ratio : Range [3.00 - 3.49] (pub. 2013-06-21)
- Height of Building**
- R - 22.0 m : Range [21.0 - 22.9 m] (pub. 2013-06-21)
- Key Sites**
- Mascot Station Precinct (pub. 2013-06-21)
- Land Application LEP**
- Included : Botany Bay Local Environmental Plan 2013 (pub. 2013-06-21)

Other spatial data associated with this property

- Local Government Area**
- Bayside
- Suburbs**
- Mascot



This report is provided for general information purposes only and does not replace the need for a section 149 Certificate

State Environmental Planning Policies which apply at 154 O'Riordan Street, Mascot, 2020

State Environmental Planning Policy (Affordable Rental Housing) 2009 : (pub. 2009-07-31)
State Environmental Planning Policy (Building Sustainability Index: BASIX) 2004 : (pub. 2004-06-25)
State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 : (pub. 2008-12-12)
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State Environmental Planning Policy (Vegetation in Non-Rural Areas) 2017 : Subject Land (pub. 2017-08-25)



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Planning Controls contained in the Botany Bay Local Environmental Plan 2013

Floor Space Ratio

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- (d) to ensure that buildings do not adversely affect the streetscape, skyline or landscape when viewed from adjoining roads and other public places such as parks, and community facilities,
- (e) to minimise adverse environmental effects on the use or enjoyment of adjoining properties and the public domain,
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(2B) Subclause (2A) does not apply to land identified as "Area 1" on the Floor Space Ratio Map.

(2C) Despite subclause (2), if an area of land identified as "Area 2" on the Floor Space Ratio Map has a site area exceeding 1,900 square metres, the maximum floor space ratio for a building on that land may exceed the maximum floor space ratio shown for the land on the Floor Space Ratio Map by no more than 0.65:1.

(2D) Despite subclause (2), if a building is permissible under clause 9A of Schedule 1 on land identified as "Area 4" on the Floor Space Ratio Map, the maximum floor space ratio for the building must not exceed 1.5:1.



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Planning Controls contained in the Botany Bay Local Environmental Plan 2013

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Planning Controls contained in the Botany Bay Local Environmental Plan 2013

Land Zoning

Zone B5 Business Development

1 Objectives of zone

To enable a mix of business and warehouse uses, and bulky goods premises that require a large floor area, in locations that are close to, and that support the viability of,

- centres.

2 Permitted without consent

Nil

3 Permitted with consent

Bulky goods premises; Centre-based child care facilities; Food and drink premises; Garden centres; Hardware and building supplies; High technology industries; Landscaping material supplies; Neighbourhood shops; Passenger transport facilities; Respite day care centres; Roads; Vehicle sales or hire premises; Warehouse or distribution centres; Any other development not specified in item 2 or 4

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Agriculture; Air transport facilities; Airstrips; Animal boarding or training establishments; Biosolids treatment facilities; Boat building and repair facilities; Boat launching ramps; Boat sheds; Camping grounds; Caravan parks; Cemeteries; Charter and tourism boating facilities; Correctional centres; Crematoria; Depots; Eco-tourist facilities; Electricity generating works; Environmental facilities; Environmental protection works; Exhibition homes; Exhibition villages; Extractive industries; Farm buildings; Forestry; Freight transport facilities; Heavy industrial storage establishments; Helipads; Highway service centres; Home-based child care; Home businesses; Home occupations; Home occupations (sex services); Industrial retail outlet; Industrial training facilities; Industries; Jetties; Marinas; Mooring pens; Moorings; Mortuaries; Open cut mining; Port facilities; Recreation facilities (major); Recreation facilities (outdoor); Research stations; Residential accommodation; Resource recovery facilities; Restricted premises; Retail premises; Rural industries; Sewage treatment plants; Sex services premises; Storage premises; Transport depots; Truck depots; Vehicle body repair workshops; Vehicle repair stations; Veterinary hospitals; Waste disposal facilities; Water recreation structures; Water recycling facilities; Water supply systems; Wharf or boating facilities; Wholesale supplies



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Property Report for 154 O'Riordan Street, Mascot, 2020

Property Details

Address: 154 O'Riordan Street, Mascot, 2020
 Lot/Section/Plan no: A/-/DP402876
 Council: BAYSIDE



Council Details

BAYSIDE COUNCIL
 Website
 Phone Number
 Email Address
 Council Address

Planning Controls associated with this property

Land Zoning

- B5 - Business Development : (pub. 2013-06-21)

Acid Sulfate Soils

- Class 4 (pub. 2013-06-21)

Contribution Plans (LGA-Based)

- Botany Bay CPs 2016
 - Rockdale and Kogarah CP 2006 - Ramsgate Commercial Centre
 - Rockdale CP 2004 - as amended 4 November 2010
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 - Rockdale CP 2016 - Urban Renewal Area

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Floor Space Ratio

- V - 3.00 Ratio : Range [3.00 - 3.49] (pub. 2013-06-21)

Height of Building

- R - 22.0 m : Range [21.0 - 22.9 m] (pub. 2013-06-21)

Key Sites

- Mascot Station Precinct (pub. 2013-06-21)

Land Application LEP

- Included : Botany Bay Local Environmental Plan 2013 (pub. 2013-06-21)

Other spatial data associated with this property

Local Government Area

- Bayside

Suburbs

- Mascot



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Floor Space Ratio

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1 Objectives of zone

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- centres.

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Nil

3 Permitted with consent

Bulky goods premises; Centre-based child care facilities; Food and drink premises; Garden centres; Hardware and building supplies; High technology industries; Landscaping material supplies; Neighbourhood shops; Passenger transport facilities; Respite day care centres; Roads; Vehicle sales or hire premises; Warehouse or distribution centres; Any other development not specified in item 2 or 4

4 Prohibited

Agriculture; Air transport facilities; Airstrips; Animal boarding or training establishments; Biosolids treatment facilities; Boat building and repair facilities; Boat launching ramps; Boat sheds; Camping grounds; Caravan parks; Cemeteries; Charter and tourism boating facilities; Correctional centres; Crematoria; Depots; Eco-tourist facilities; Electricity generating works; Environmental facilities; Environmental protection works; Exhibition homes; Exhibition villages; Extractive industries; Farm buildings; Forestry; Freight transport facilities; Heavy industrial storage establishments; Helipads; Highway service centres; Home-based child care; Home businesses; Home occupations; Home occupations (sex services); Industrial retail outlet; Industrial training facilities; Industries; Jetties; Marinas; Mooring pens; Moorings; Mortuaries; Open cut mining; Port facilities; Recreation facilities (major); Recreation facilities (outdoor); Research stations; Residential accommodation; Resource recovery facilities; Restricted premises; Retail premises; Rural industries; Sewage treatment plants; Sex services premises; Storage premises; Transport depots; Truck depots; Vehicle body repair workshops; Vehicle repair stations; Veterinary hospitals; Waste disposal facilities; Water recreation structures; Water recycling facilities; Water supply systems; Wharf or boating facilities; Wholesale supplies



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Planning Controls contained in the Botany Bay Local Environmental Plan 2013

Land Zoning

Zone R3 Medium Density Residential

1 Objectives of zone

- To provide for the housing needs of the community within a medium density residential environment.
- To provide a variety of housing types within a medium density residential environment.
- To enable other land uses that provide facilities or services to meet the day to day needs of residents.
- To encourage development that promotes walking and cycling.

2 Permitted without consent

Home occupations

3 Permitted with consent

Attached dwellings; Bed and breakfast accommodation; Boarding houses; Centre-based child care facilities; Community facilities; Dwelling houses; Group homes; Multi dwelling housing; Neighbourhood shops; Office premises; Places of public worship; Residential flat buildings; Respite day care centres; Roads; Semi-detached dwellings; Seniors housing; Any other development not specified in item 2 or 4

4 Prohibited

Advertising structures; Agriculture; Air transport facilities; Airstrips; Amusement centres; Animal boarding or training establishments; Biosolids treatment facilities; Boat building and repair facilities; Boat launching ramps; Boat sheds; Camping grounds; Car parks; Caravan parks; Cemeteries; Charter and tourism boating facilities; Commercial premises; Correctional centres; Crematoria; Depots; Eco-tourist facilities; Electricity generating works; Emergency services facilities; Entertainment facilities; Environmental facilities; Exhibition homes; Exhibition villages; Extractive industries; Farm buildings; Forestry; Freight transport facilities; Function centres; Heavy industrial storage establishments; Helipads; Highway service centres; Home businesses; Home occupations (sex services); Industrial retail outlets; Industrial training facilities; Industries; Information and education facilities; Jet ties; Marinas; Mooring pens; Moorings; Mortuaries; Open cut mining; Passenger transport facilities; Port facilities; Public administration buildings; Recreation facilities (indoor); Recreation facilities (major); Recreation facilities (outdoor); Registered clubs; Research stations; Residential accommodation; Restricted premises; Rural industries; Service stations; Sewage treatment plants; Sex services premises; Storage premises; Tourist and visitor accommodation; Transport depots; Truck depots; Vehicle body repair workshops; Vehicle repair stations; Veterinary hospitals; Warehouse or distribution centres; Waste or resource management facilities; Water recreation structures; Water recycling facilities; Water supply systems; Wharf or boating facilities; Wholesale supplies



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Property Report for A/DP364217

Property Details

Address: N/A
 Lot/Section/Plan no: A/-/DP364217
 Council: BAYSIDE



Council Details

BAYSIDE COUNCIL
 Website
 Phone Number
 Email Address
 Council Address

Planning Controls associated with this property

Land Zoning

- B5 - Business Development : (pub. 2013-06-21)

Acid Sulfate Soils

- Class 4 (pub. 2013-06-21)

Contribution Plans (LGA-Based)

- Botany Bay CPs 2016
 - Rockdale and Kogarah CP 2006 - Ramsgate Commercial Centre
 - Rockdale CP 2004 - as amended 4 November 2010
 - Rockdale CP 2008
 - Rockdale CP 2016 - Urban Renewal Area

Development Control Plans (LGA-Based)

- Botany Bay DCP 2013 - as amended 25 Oct 2016
 - Rockdale DCP 2011 - as amended 5 Jun 2015

Floor Space Ratio

- V - 3.00 Ratio : Range [3.00 - 3.49] (pub. 2013-06-21)

Height of Building

- R - 22.0 m : Range [21.0 - 22.9 m] (pub. 2013-06-21)

Key Sites

- Mascot Station Precinct (pub. 2013-06-21)

Land Application LEP

- Included : Botany Bay Local Environmental Plan 2013 (pub. 2013-06-21)

Other spatial data associated with this property

Local Government Area

- Bayside

Suburbs

- Mascot



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State Environmental Planning Policies which apply at N/A

State Environmental Planning Policy (Affordable Rental Housing) 2009 : (pub. 2009-07-31)
State Environmental Planning Policy (Building Sustainability Index: BASIX) 2004 : (pub. 2004-06-25)
State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 : (pub. 2008-12-12)
State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 : (pub. 2004-03-31)
State Environmental Planning Policy (Infrastructure) 2007 : (pub. 2007-12-21)
State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007 : (pub. 2007-02-16)
State Environmental Planning Policy (Miscellaneous Consent Provisions) 2007 : (pub. 2007-09-28)
State Environmental Planning Policy No 19-Bushland in Urban Areas : (pub. 1986-10-24)
State Environmental Planning Policy No 1-Development Standards : (pub. 1980-10-17)
State Environmental Planning Policy No 21-Caravan Parks : (pub. 1992-04-24)
State Environmental Planning Policy No 30-Intensive Agriculture : (pub. 1989-12-08)
State Environmental Planning Policy No 33-Hazardous and Offensive Development : (pub. 1992-03-13)
State Environmental Planning Policy No 36-Manufactured Home Estates : (pub. 1993-07-16)
State Environmental Planning Policy No 50-Canal Estate Development : (pub. 1997-11-10)
State Environmental Planning Policy No 55-Remediation of Land : (pub. 1998-08-28)
State Environmental Planning Policy No 62-Sustainable Aquaculture : (pub. 2000-08-25)
State Environmental Planning Policy No 64-Advertising and Signage : (pub. 2001-03-16)
State Environmental Planning Policy No 65-Design Quality of Residential Apartment Development : (pub. 2002-07-26)
State Environmental Planning Policy No 70-Affordable Housing (Revised Schemes) : (pub. 2002-05-01)
State Environmental Planning Policy (Vegetation in Non-Rural Areas) 2017 : Subject Land (pub. 2017-08-25)



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Planning Controls contained in the Botany Bay Local Environmental Plan 2013

Floor Space Ratio

(1) The objectives of this clause are as follows:

- (a) to establish standards for the maximum development density and intensity of land use,
- (b) to ensure that buildings are compatible with the bulk and scale of the existing and desired future character of the locality,
- (c) to maintain an appropriate visual relationship between new development and the existing character of areas or locations that are not undergoing, and are not likely to undergo, a substantial transformation,
- (d) to ensure that buildings do not adversely affect the streetscape, skyline or landscape when viewed from adjoining roads and other public places such as parks, and community facilities,
- (e) to minimise adverse environmental effects on the use or enjoyment of adjoining properties and the public domain,
- (f) to provide an appropriate correlation between the size of a site and the extent of any development on that site,
- (g) to facilitate development that contributes to the economic growth of Botany Bay.

(2) The maximum floor space ratio for a building on any land is not to exceed the floor space ratio shown for the land on the Floor Space Ratio Map.

(2A) Despite subclause (2), if an area of land in Zone R3 Medium Density Residential or Zone R4 High Density Residential exceeds 2,000 square metres, the floor space ratio of a building on that land may exceed the maximum floor space ratio shown for the land on the Floor Space Ratio Map but must not exceed 1.5:1.

(2B) Subclause (2A) does not apply to land identified as "Area 1" on the Floor Space Ratio Map.

(2C) Despite subclause (2), if an area of land identified as "Area 2" on the Floor Space Ratio Map has a site area exceeding 1,900 square metres, the maximum floor space ratio for a building on that land may exceed the maximum floor space ratio shown for the land on the Floor Space Ratio Map by no more than 0.65:1.

(2D) Despite subclause (2), if a building is permissible under clause 9A of Schedule 1 on land identified as "Area 4" on the Floor Space Ratio Map, the maximum floor space ratio for the building must not exceed 1.5:1.



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Planning Controls contained in the Botany Bay Local Environmental Plan 2013

Height of Building

(1) The objectives of this clause are as follows:

- (a) to ensure that the built form of Botany Bay develops in a coordinated and cohesive manner,
- (b) to ensure that taller buildings are appropriately located,
- (c) to ensure that building height is consistent with the desired future character of an area,
- (d) to minimise visual impact, disruption of views, loss of privacy and loss of solar access to existing development,
- (e) to ensure that buildings do not adversely affect the streetscape, skyline or landscape when viewed from adjoining roads and other public places such as parks, and community facilities.

(2) The height of a building on any land is not to exceed the maximum height shown for the land on the Height of Buildings Map.

(2A) Despite subclause (2), if an area of land in Zone R3 Medium Density Residential or Zone R4 High Density Residential exceeds 2,000 square metres, the height of a building on that land may exceed the maximum height shown for the land on the Height of Buildings Map but must not exceed 22 metres.

(2B) Subclause (2A) does not apply to land identified as "Area 1" on the Height of Buildings Map.

(2C) Despite subclause (2), if an area of land identified as "Area 2" on the Height of Buildings Map has a site area exceeding 1,900 square metres, the maximum height for a building on that land may exceed the maximum height shown for the land on the Height of Buildings Map by no more than 2 metres.

Planning Controls contained in the Botany Bay Local Environmental Plan 2013

Land Zoning

Zone B5 Business Development

1 Objectives of zone

To enable a mix of business and warehouse uses, and bulky goods premises that require a large floor area, in locations that are close to, and that support the viability of,

- centres.

2 Permitted without consent

Nil

3 Permitted with consent

Bulky goods premises; Centre-based child care facilities; Food and drink premises; Garden centres; Hardware and building supplies; High technology industries; Landscaping material supplies; Neighbourhood shops; Passenger transport facilities; Respite day care centres; Roads; Vehicle sales or hire premises; Warehouse or distribution centres; Any other development not specified in item 2 or 4

4 Prohibited

Agriculture; Air transport facilities; Airstrips; Animal boarding or training establishments; Biosolids treatment facilities; Boat building and repair facilities; Boat launching ramps; Boat sheds; Camping grounds; Caravan parks; Cemeteries; Charter and tourism boating facilities; Correctional centres; Crematoria; Depots; Eco-tourist facilities; Electricity generating works; Environmental facilities; Environmental protection works; Exhibition homes; Exhibition villages; Extractive industries; Farm buildings; Forestry; Freight transport facilities; Heavy industrial storage establishments; Helipads; Highway service centres; Home-based child care; Home businesses; Home occupations; Home occupations (sex services); Industrial retail outlet; Industrial training facilities; Industries; Jetties; Marinas; Mooring pens; Moorings; Mortuaries; Open cut mining; Port facilities; Recreation facilities (major); Recreation facilities (outdoor); Research stations; Residential accommodation; Resource recovery facilities; Restricted premises; Retail premises; Rural industries; Sewage treatment plants; Sex services premises; Storage premises; Transport depots; Truck depots; Vehicle body repair workshops; Vehicle repair stations; Veterinary hospitals; Waste disposal facilities; Water recreation structures; Water recycling facilities; Water supply systems; Wharf or boating facilities; Wholesale supplies



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Planning Controls contained in the Botany Bay Local Environmental Plan 2013

Land Zoning

Zone RE1 Public Recreation

1 Objectives of zone

- To enable land to be used for public open space or recreational purposes.
- To provide a range of recreational settings and activities and compatible land uses.
- To protect and enhance the natural environment for recreational purposes.

2 Permitted without consent

Environmental protection works

3 Permitted with consent

Centre-based child care facilities; Community facilities; Emergency services facilities; Environmental facilities; Flood mitigation works; Information and education facilities; Jetties; Kiosks; Markets; Recreation areas; Recreation facilities (indoor); Recreation facilities (major); Recreation facilities (outdoor); Respite day care centres; Roads; Signage; Water storage facilities

4 Prohibited

Any development not specified in item 2 or 3



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Appendix E
Contaminated
Land Register

List of NSW Contaminated Sites Notified to EPA as of 5 September 2018

Background

A strategy to systematically assess, prioritise 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.

For some notifications, the information indicates the contamination is securely immobilised within the site, such as under a building or carpark, and is not currently causing any offsite consequences to the community or environment. Such sites would still need to be cleaned up, but this could be done in conjunction with any subsequent building or redevelopment of the land. These sites may not require intervention under the CLM Act, but could be dealt with through the planning and development consent process.

Where indications are that contamination is significant enough to warrant regulation having regard to the matters in section 12 of the CLM Act, the EPA may apply the regulatory provisions of the CLM Act to have the appropriate person (for example, the responsible polluter and/or landowner) investigate and remediate the site.

Where the EPA reasonably suspects that a pollution incident is occurring (or has occurred) at a premise, the EPA, as the appropriate regulatory authority, may choose to regulate the incident and any resulting contamination under the POEO Act by ordering the occupier or the owner to carry out certain actions.

As such, the sites notified to the EPA and presented in the following table are at various stages of the assessment and/or 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 tables provide 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 responsible landowner.

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

Frequently asked questions

What is the difference between the "List of NSW Contaminated Sites Notified to the EPA" and the "Contaminated Land: Record of Notices"?

A site will be on the Contaminated Land: Record of Notices only if the EPA has issued a regulatory notice in relation to the site under the *Contaminated Land Management Act 1997*.

The sites appearing on this "List of NSW contaminated sites notified to the EPA" indicate that the notifiers consider that the sites are contaminated and warrant reporting to the EPA. However, the contamination may or may not be significant enough to warrant regulation by the EPA. The EPA needs to review and, if necessary, obtain more information before it can make a determination as to whether the site warrants regulation.

Why my site appears on the list?

Your site appears on the list because of one or more of the following reasons:

- The site owner and/or the person partly or fully responsible for causing the contamination notified to the EPA about the contamination under Section 60 of the *Contaminated Land Management Act 1997*. In other words, the site owner or the "polluter" believes the site is contaminated.
- The EPA has been notified via other means and is satisfied that the site is or was contaminated.

Does the list contain all contaminated sites in NSW?

No. The list only contains contaminated sites that the EPA is aware of, with regard to its regulatory role under the CLM Act. An absence of a site from the list does not necessarily imply the site is not contaminated.

The EPA relies upon responsible parties to notify contaminated sites.

How are these notified contaminated sites managed by the EPA?

There are different ways that the EPA manages these notified contaminated sites. First, an initial assessment is carried out by the EPA. At the completion of the initial assessment, the EPA may take one or more than one of the following management approaches:

- The contamination warrants the EPA's direct regulatory intervention either under the *Contaminated Land Management Act 1997* or the *Protection of the Environment Operations Act 1997* (POEO Act), or both. Information about current or past regulatory action on this site can be found on EPA website.
- The contamination with respect to the current use or approved use of the site, as defined under the *Contaminated Land Management Act 1997*, is not significant enough that it warrants EPA regulation.
- The contamination does not require EPA regulation and can be managed by a planning approval process.
- The contamination is related to an operational Underground Petroleum Storage System, such as a service station or fuel depot. The contamination may be managed under the POEO Act and the Protection of the Environment Operation (Underground Petroleum Storage Systems) Regulation 2014.
- The contamination is being managed under a specifically tailored program operated by another agency (for example the Department of Industry and Investment's *Derelict Mines Program*).

I am the owner of a site that appears on the list. What should I do?

First of all, you should ensure the current use of the site is compatible with the site contamination. Secondly, if the site is the subject of EPA regulation, make sure you comply with the regulatory requirements, and you have considered your obligations to notify other parties who may be affected.

If you have any concerns, contact us and we may be able to offer you general advice, or direct you to accredited professionals who can assist with specific issues.

I am a prospective buyer of a site that appears on the list. What should I do?

You should seek advice from the vendor to put the contamination issue into perspective. You may need to seek independent expert advice.

The information provided in the list is meant to be indicative only, and a starting point for your own assessment. Site contamination as a legacy of past site uses is not uncommon, particularly in an urbanised environment. If the contamination on a site is properly remediated or managed, it may not materially impact upon the intended future use of the site. However, each site needs to be considered in context.

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 <i>Protection of the Environment Operations Act 1997</i> . Alternatively, the EPA may require information via a notice issued under s77 of the <i>Contaminated Land Management Act 1997</i> or issue a Preliminary Investigation Order. |
| Regulation under CLM Act not required | The EPA has completed an assessment of the contamination and decided that regulation under the <i>Contaminated Land Management Act 1997</i> is not required. |
| Regulation being | The EPA has completed an assessment of the contamination and decided |

| | |
|---|---|
| finalised | that the contamination is significant enough to warrant regulation under the <i>Contaminated Land Management Act 1997</i> . 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 <i>Contaminated Land Management Act 1997</i> (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 <i>Protection of the Environment Operations Act 1997</i> (POEO Act). The EPA as <i>the appropriate regulatory authority</i> 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 <i>Environmental Planning and Assessment Act 1979</i> (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 <i>Contaminated Land Management Act 1997</i> (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 <i>Protection of the Environment Operations Act 1997</i> (POEO Act). |
| Contamination was addressed via the planning process | 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 |

| | |
|---|--|
| (EP&A Act) | <i>Environmental Planning and Assessment Act 1979</i> (EP&A Act). |
| Ongoing maintenance required to manage residual contamination (CLM Act) | The EPA has determined that ongoing maintenance, under the <i>Contaminated Land Management Act 1997</i> (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 | Site Name | Site Address | Contamination Activity Type | EPA Management Class | Latitude | Longitude |
|---------------|--|--|-----------------------------|--|---------------|--------------|
| MARRICKVILLE | 2 Carrington Road | 2 Carrington ROAD | Unclassified | Regulation under CLM Act not required | -33.971596071 | 151.1597199 |
| MARRICKVILLE | Cools River Aqueduct | Thornley STREET | Unclassified | Contamination formerly regulated under the CLM Act | -33.97204604 | 151.1480332 |
| MARRICKVILLE | Former Dry Cleaners and Loading Dock (adjacent Lot 1 DP821551) | Smithmore STREET | Other Industry | Contamination currently regulated under CLM Act | -33.90707592 | 151.171701 |
| MARRICKVILLE | Former Mobil Service Station | 384 Illawarra ROAD | Service Station | Regulation under CLM Act not required | -33.91549089 | 151.1566717 |
| MARRICKVILLE | Mickey Park | Cnr Richardsons Crescent and Carrington ROAD | Landfill | Regulation under CLM Act not required | -33.9220263 | 151.1547903 |
| MARRICKVILLE | RailCorp | 361 Victoria ROAD | Other Industry | Regulation under CLM Act not required | -33.91404835 | 151.1557132 |
| MARRICKVILLE | TRW Sleehing and Suspension | 22-28 Carrington ROAD | Other Industry | Contamination formerly regulated under the CLM Act | -33.92012667 | 151.1566181 |
| MARRICKVILLE | Woolworths Petrol Service Station Marrickville | 480 Illawarra ROAD | Service Station | Regulation under CLM Act not required | -33.91845177 | 151.1459951 |
| MARRSDEN PARK | 226 Grange Avenue | 226 Grange AVENUE | Unclassified | Regulation under CLM Act not required | -33.70259609 | 150.83625 |
| MARSFIELD | Coles Express Service Station Marsfield | 189 Epping ROAD | Service Station | Regulation under CLM Act not required | -33.77519246 | 151.1059391 |
| MARULAN | BP Express Marulan (Northbound) | (Northbound) Hume HIGHWAY | Service Station | Regulation under CLM Act not required | -34.7188332 | 149.9948947 |
| MARULAN | BP Service Station | (Southbound) Hume HIGHWAY | Service Station | Regulation under CLM Act not required | -34.71932065 | 150.0014827 |
| MARYVILLE | 7-Eleven (former Mobil) Service Station | 184-188 Hannell STREET | Service Station | Contamination currently regulated under CLM Act | -32.91336028 | 151.75749315 |
| MASCOT | Caltes Service Station | 125 O'Riordan STREET | Service Station | Regulation under CLM Act not required | -33.9309169 | 151.1911539 |
| MASCOT | Former Mascot Gallvanising | 336-348 King STREET | Metal Industry | Contamination currently regulated under CLM Act | -33.92902126 | 151.185874 |
| MASCOT | Former Shell Service Station Mascot | 746 Botany ROAD | Service Station | Regulation being finalised | -33.9232295 | 151.1955852 |
| MASCOT | Former Zinc Smelter and Paint Manufacturing Facility | 163 O'Riordan STREET | Metal Industry | Regulation under CLM Act not required | -33.92526513 | 151.1892982 |
| MASCOT | Heritage Business Centre | 5-9 Ricketty STREET | Unclassified | Regulation under CLM Act not required | -33.92029202 | 151.1816656 |
| MASCOT | Hig Industrial Fund (unoccupied Land and General Parking) | 19-33 Kent ROAD | Landfill | Regulation under CLM Act not required | -33.922765 | 151.185262 |
| MASCOT | Unear Park | Lot 2, 3, 4 & 5 in DP 85917 | landfill | Regulation under CLM Act not required | -33.92278693 | 151.1904751 |
| MASCOT | Mascot Pioneer Piling | 25-29 Ricketty STREET | Metal Industry | Contamination currently regulated under CLM Act | -33.92075288 | 151.1824801 |
| MASCOT | Soloi Corporation | 90-96 Robey STREET | Other Industry | Regulation under CLM Act not required | -33.93162285 | 151.1904953 |
| MASCOT | Telstra Exchange | 904-922 Botany ROAD | Other Industry | Regulation under CLM Act not required | -33.9293166 | 151.1942777 |
| MATRAVILLE | 7-Eleven Service Station Matraville | 515 Burmarong ROAD | Service Station | Regulation being finalised | -33.93943536 | 151.3317598 |



Appendix F

SafeWork
NSW Storage
of Hazardous
Chemicals
Search



Locked Bag 2906, Lisarow NSW 2252
Customer Experience 13 10 50
ABN 81 913 830 179 | www.safework.nsw.gov.au

Our Ref: D18/169299

10 August 2018

TRACE ENVIRONMENTAL
Mr Ken Henderson
PO Box 422
CAMPERDOWN NSW 1450

Dear Mr Henderson

RE SITE: 146-154 O'Riordan Street, MASCOT NSW 2020

I refer to your site search request received by SafeWork NSW on 3 August 2018 requesting information on Storage of Hazardous Chemicals for the above site.

A search of the records held by SafeWork NSW has not located any records pertaining to the above-mentioned premises.

For further information or if you have any questions, please call us on 13 10 50 or email licensing@safework.nsw.gov.au

Yours sincerely

Customer Service Officer
Customer Experience - Operations
SafeWork NSW



Appendix G

Field Data
(Including Bore
Logs and
Groundwater
Sampling
Logs)

| | | | |
|--|--|--|----------------------------|
|  <p>TRACE Environmental Shop 2, 793-799 New Canterbury Road Dulwich Hill, NSW 2203 www.traceenviro.com enquiries@traceenviro.com</p> | Borehole Log | | Hole ID. SB1 |
| | Project Name: Environmental Site Assessment | | Hole Depth: 0.75 m |
| | Project Number: 1.16 | | GW Encountered: |
| | Location / Site: 146-154 O'Riordan Street, Mascot NSW | | |
| | Client: JKN Park Pty Ltd | | |
| | Drill Company: Epoca Environmental Pty Ltd | | |
| Drill Method: CC to 0.175m, HA to 0.6m (refusal), SFA to 0.75m. | | | |
| Date Started: 9/08/2018 | | | |
| Date Completed: 9/08/2018 | | | |

| Water Inflow Depth (m) | Sample | | Material Type Graphic Log | USCS Symbol | Material Description | Consistency / Density | Moisture | Observations / Comments |
|---------------------------|---------|------------|------------------------------|-------------|--|--------------------------|----------|--|
| | ID No. | PID ppm | | | | | | |
| 0.18 | | | | | CONCRETE SLAB. | | | |
| 0.30 | SB1/0.3 | 0.0 | | | FILL- SAND, yellow / brown, fine grained. | loose | dry | Cobbles and whole bricks at interface. |
| 0.4 | | | | | FILL- Sandy FILL, black / brown. | loose | dry | Frequent gravels and cobbles, brick, concrete, glass, metal. |
| 0.5 | SB1/0.5 | 0.0 | | | | | | |
| 0.75 | | | | | Refusal at 0.75m on possible concrete slab beneath car park (?) | | | |

TRACE AUG2018 1 1.16 MASCOT.GPJ WSP.GDT 24/8/18 10:24:59 AM - drawn by laurie.white at www.reumad.com.au

Notes
 Hand auger refusal on multiple brick and concrete at 0.6m.
 Slow solid flight augering to 0.75m.
 Hole backfilled.

| | | |
|---|---|---------------------------------|
|  Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au | Logged By: Jack Ellis Checked By: | Date: 9/08/2018 Date: |
|---|---|---------------------------------|

| | | | |
|--|--|--|----------------------------|
|  <p>TRACE Environmental Shop 2, 793-799 New Canterbury Road Dulwich Hill, NSW 2203 www.traceenviro.com enquiries@traceenviro.com</p> | Borehole Log | | Hole ID. SB4 |
| | Project Name: Environmental Site Assessment | | Hole Depth: 0.25 m |
| | Project Number: 1.16 | | GW Encountered: |
| | Location / Site: 146-154 O'Riordan Street, Mascot NSW | | |
| | Client: JKN Park Pty Ltd | | |
| | Drill Company: Epoca Environmental Pty Ltd | | |
| Drill Method: HA to 0.25m. | | | |
| Date Started: 14/08/2018 | | | |
| Date Completed: 14/08/2018 | | | |

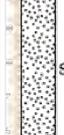
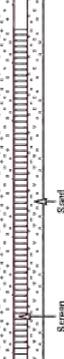
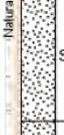
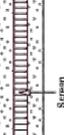
| Water Inflow Depth (m) | Sample | | Material Type Graphic Log | USCS Symbol | Material Description | Consistency / Density | Moisture | Observations / Comments |
|---------------------------|---------|------------|---|-------------|--|--------------------------|----------|--|
| | ID No. | PID ppm | | | | | | |
| 0.05 | SB4/0.2 | 0.0 |  | | MULCH. | | | |
| 0.10 | | | | | FILL- TOPSOIL. Silty SAND, black / grey. | loose | dry | Frequent roots and organic material. |
| 0.2 | | | | | FILL- SILT & SAND, black. | loose | dry | Frequent gravels & organics, wood roots. |
| 0.25 | | | | | End of Hole at 0.25m on frequent tree roots. | | | |
| 0.4 | | | | | | | | |
| 0.6 | | | | | | | | |
| 0.8 | | | | | | | | |
| 1.0 | | | | | | | | |
| 1.2 | | | | | | | | |
| 1.4 | | | | | | | | |

TRACE AUG2018 1 1.16 MASCOT.GPJ WSP.GDT 24/8/18 10:24:59 AM - drawn by laurie.white at www.reumad.com.au

Notes
 Hole backfilled.

| | | |
|---|---|----------------------------------|
|  Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au | Logged By: Jack Ellis Checked By: | Date: 14/08/2018 Date: |
|---|---|----------------------------------|

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|--|----------------------------|---|---------------------------|
|  <p>TRACE Environmental Shop 2, 793-799 New Canterbury Road Dulwich Hill, NSW 2203 www.traceenviro.com enquiries@traceenviro.com</p> | Monitoring Well Log | | Hole ID: SB6 / MW2 |
| | Project Name: | Environmental Site Assessment | Hole Depth: 6.00 m |
| | Project Number: | 1.16 | GW Encountered: |
| | Location / Site: | 146-154 O'Riordan Street, Mascot NSW | |
| | Client: | JKN Park Pty Ltd | |
| | Drill Company: | Epoca Environmental Pty Ltd | |
| | Drill Method: | HA to 0.45m, SFA to 1m, PT to 5.1m, HFA to 6m. | |
| Date Started: | 9/08/2018 | | |
| Date Completed: | 9/08/2018 | | |

| Water Inflow Depth (m) | Sample | | Material Type | Graphic Log | USCS Symbol | Material Description | Consistency / Density | Moisture | Observations / Comments | Well Details | Well Construction |
|---------------------------|---------------------------------------|---------|---------------|---|-------------|---|-----------------------|------------|--|---|-------------------|
| | ID No. | PID ppm | | | | | | | | | |
| 0.05 0.75 | SB6/0.4 | 0.0 | Fill |  | | BITUMEN. FILL- ROADBASE. FILL- SAND / GRAVEL / COBBLES, black / grey. | loose | dry | Boulder at 0.45m, broken through with SFA. |  | |
| 1.0 1.20 1.30 | SB6/1.0 SB6/1.25 | | | | | FILL- SANDY GRAVELLY, white / grey. FILL- SAND, orange / black. | loose loose | dry dry | | | |
| 1.70 2.0 | SB6/2.0 | 0.0 | Natural |  | | SAND- white / grey, fine grained. | loose | dry | |  | |
| 3.00 3.60 | SB6/2.6 SB6/3.0 SB6/3.2 | | | | | SAND- orange / brown. | loose | moist | | | |
| 4.0 4.75 | SB6/3.9 SB6/4.0 | 0.0 | Natural |  | | SAND- brown / light grey. | loose | humid | |  | |
| 5.0 5.6 | SB6/4.8 SB6/5.6 | | | | | SAND- black, fine grained. | loose | wet | | | |
| 6.00 | End of Hole at 6.00m at target depth. | | | | | | | | | | |

TRACE AUG2018 1 1.16 MASCOT.GPJ WSP.GDT 24/8/18 10:25:00 AM - drawn by laurie.white at www.reumad.com.au

| | |
|--|--|
| Notes | |
| Well installed. | |
|  | |
| Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au | Logged By: Jack Ellis Checked By: Date: 9/08/2018 Date: |

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|--|--|--|----------------------------|
|  <p>TRACE Environmental Shop 2, 793-799 New Canterbury Road Dulwich Hill, NSW 2203 www.traceenviro.com enquiries@traceenviro.com</p> | Borehole Log | | Hole ID. SB7 |
| | Project Name: Environmental Site Assessment | | Hole Depth: 0.35 m |
| | Project Number: 1.16 | | GW Encountered: |
| | Location / Site: 146-154 O'Riordan Street, Mascot NSW | | |
| | Client: JKN Park Pty Ltd | | |
| | Drill Company: Epoca Environmental Pty Ltd | | |
| Drill Method: CC to 0.12m, HA to 0.35m. | | | |
| Date Started: 14/08/2018 | | | |
| Date Completed: 14/08/2018 | | | |

| Water Inflow Depth (m) | Sample | | Material Type | Graphic Log | USCS Symbol | Material Description | Consistency / Density | Moisture | Observations / Comments |
|---------------------------|----------|---------|---------------|---|-------------|---|-----------------------|----------|-------------------------|
| | ID No. | PID ppm | | | | | | | |
| 0.12 | SB7/0.25 | 0.0 | Fill |  | | CONCRETE SLAB. | | | |
| 0.17 | | | | | | FILL- SAND, orange, fine grained. | loose | dry | |
| 0.2 | | | | | | FILL- SAND / GRAVEL / COBBLE, brown, very coarse grained. | loose | dry | |
| 0.35 | | | | | | End of Hole at 0.35m on multiple coarse cobbles. | | | |
| 0.4 | | | | | | | | | |
| 0.6 | | | | | | | | | |
| 0.8 | | | | | | | | | |
| 1.0 | | | | | | | | | |
| 1.2 | | | | | | | | | |
| 1.4 | | | | | | | | | |

TRACE AUG2018 1 1.16 MASCOT.GPJ WSP.GDT 24/8/18 10:25:01 AM - drawn by laurie.white at www.reumad.com.au

Notes
 Hole backfilled.

| | | |
|---|---|----------------------------------|
|  Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au | Logged By: Jack Ellis Checked By: | Date: 14/08/2018 Date: |
|---|---|----------------------------------|

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|--|--|--|----------------------------|
|  <p>TRACE Environmental Shop 2, 793-799 New Canterbury Road Dulwich Hill, NSW 2203 www.traceenviro.com enquiries@traceenviro.com</p> | Borehole Log | | Hole ID. SB8 |
| | Project Name: Environmental Site Assessment | | Hole Depth: 0.35 m |
| | Project Number: 1.16 | | GW Encountered: |
| | Location / Site: 146-154 O'Riordan Street, Mascot NSW | | |
| | Client: JKN Park Pty Ltd | | |
| | Drill Company: Epoca Environmental Pty Ltd | | |
| Drill Method: CC to 0.135m, HA to 0.35m. | | | |
| Date Started: 14/08/2018 | | | |
| Date Completed: 14/08/2018 | | | |

| Water Inflow Depth (m) | Sample | | Material Type | Graphic Log | USCS Symbol | Material Description | Consistency / Density | Moisture | Observations / Comments |
|--|----------|---------|---------------|---|-------------|---|-----------------------|----------|-------------------------|
| | ID No. | PID ppm | | | | | | | |
| 0.14 0.75 | SB8/0.15 | 0.0 | Fill |  | | CONCRETE SLAB. | | | |
| 0.2 0.35 | SB8/0.3 | 0.0 | | | | FILL- SAND, orange / light brown, fine grained. | loose | dry | Frequent cobbles. |
| | | | | | | FILL- SAND / GRAVEL / COBBLE, brown, very coarse grained. | loose | dry | |
| 0.4 0.6 0.8 1.0 1.2 1.4 | | | | | | End of Hole at 0.35m on frequent refusals. | | | |

TRACE AUG2018 1 1.10 MASCOT.GPJ WSP.GDT 24/8/18 10:25:02 AM - drawn by laurie.white at www.reumad.com.au

Notes
Hole backfilled.

| | | | |
|---|---|---|----------------------------------|
|  | Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au | Logged By: Jack Ellis Checked By: | Date: 14/08/2018 Date: |
|---|---|---|----------------------------------|

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|--|--|--|----------------------------|
|  <p>TRACE Environmental Shop 2, 793-799 New Canterbury Road Dulwich Hill, NSW 2203 www.traceenviro.com enquiries@traceenviro.com</p> | Borehole Log | | Hole ID. SB9 |
| | Project Name: Environmental Site Assessment | | Hole Depth: 0.30 m |
| | Project Number: 1.16 | | GW Encountered: |
| | Location / Site: 146-154 O'Riordan Street, Mascot NSW | | |
| | Client: JKN Park Pty Ltd | | |
| | Drill Company: Epoca Environmental Pty Ltd | | |
| Drill Method: HA to 0.35m. | | | |
| Date Started: 14/08/2018 | | | |
| Date Completed: 14/08/2018 | | | |

| Water Inflow Depth (m) | Sample | | Material Type | Graphic Log | USCS Symbol | Material Description | Consistency / Density | Moisture | Observations / Comments |
|--|----------|---------|---------------|---|-------------|---|-----------------------|----------|-------------------------|
| | ID No. | PID ppm | | | | | | | |
| 0.2 0.30 | SB9/0.25 | 0.0 | |  | | FILL- TOPSOIL. Silty SAND, brown, fine grained. | loose | dry | |
| 0.4 0.6 0.8 1.0 1.2 1.4 | | | | | | Refusal at 0.30m on sand / gravel / cobbles (FILL). | | | |

TRACE AUG2018 1 1.16 MASCOT.GPJ WSP.GDT 24/8/18 10:25:02 AM - drawn by laurie.white at www.reumad.com.au

Notes
 Hole backfilled.

| | | |
|---|---|----------------------------------|
|  Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au | Logged By: Jack Ellis Checked By: | Date: 14/08/2018 Date: |
|---|---|----------------------------------|

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|--|--|--|-----------------------------|
|  <p>TRACE Environmental Shop 2, 793-799 New Canterbury Road Dulwich Hill, NSW 2203 www.traceenviro.com enquiries@traceenviro.com</p> | Borehole Log | | Hole ID. SB10 |
| | Project Name: Environmental Site Assessment | | Hole Depth: 1.10 m |
| | Project Number: 1.16 | | GW Encountered: |
| | Location / Site: 146-154 O'Riordan Street, Mascot NSW | | |
| | Client: JKN Park Pty Ltd | | |
| | Drill Company: Epoca Environmental Pty Ltd | | |
| Drill Method: HA to 1.1m. | | | |
| Date Started: 10/08/2018 | | | |
| Date Completed: 10/08/2018 | | | |

| Water Inflow Depth (m) | Sample | | Material Type | Graphic Log | USCS Symbol | Material Description | Consistency / Density | Moisture | Observations / Comments |
|---------------------------|----------|---------|---------------|-------------|-------------|--|-----------------------|----------|------------------------------|
| | ID No. | PID ppm | | | | | | | |
| 0.05 | | | | | | BITUMEN. | | | |
| 0.15 | | | | | | FILL- ROADBASE. | | | |
| 0.2 | SB10/0.3 | 0.0 | | | | FILL- SAND & GRAVEL, light brown / grey. | loose | dry | Frequent rocks and concrete. |
| 0.4 | SB10/0.5 | 0.0 | | | | | | | |
| 0.55 | | | | | | FILL- SAND, brown, fine grained. | loose | dry | |
| 0.6 | | | | | | | | | |
| 0.8 | | | | | | | | | |
| 1.0 | | | | | | | | | |
| 1.10 | | | | | | Hole Terminated at 1.10m on potential service trench. | | | |
| 1.2 | | | | | | | | | |
| 1.4 | | | | | | | | | |

TRACE AUG2018 1 1.10 MASCOT.GPJ WSP.GDT 24/8/18 10:25:03 AM - drawn by laurie.white at www.reumad.com.au

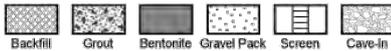
Notes
 Not confident to take risk with push tubes in potential service trench.
 Hole backfilled.

| | | |
|---|---|----------------------------------|
|  Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au | Logged By: Jack Ellis Checked By: | Date: 10/08/2018 Date: |
|---|---|----------------------------------|

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|--|----------------------------|--|----------------------------|
|  <p>TRACE Environmental Shop 2, 793-799 New Canterbury Road Dulwich Hill, NSW 2203 www.traceenviro.com enquiries@traceenviro.com</p> | Monitoring Well Log | | Hole ID: SB11 / MW3 |
| | Project Name: | Environmental Site Assessment | Hole Depth: 6.00 m |
| | Project Number: | 1.16 | GW Encountered: |
| | Location / Site: | 146-154 O'Riordan Street, Mascot NSW | |
| | Client: | JKN Park Pty Ltd | |
| | Drill Company: | Epoca Environmental Pty Ltd | |
| | Drill Method: | CC to 0.6m, HA to 0.3m (refusal), SFA to 1m, PT to 5.1m, HFA to 6m. | |
| Date Started: | 9/08/2018 | | |
| Date Completed: | 9/08/2018 | | |

| Water Inflow Depth (m) | Sample | | Material Type | Graphic Log | USCS Symbol | Material Description | Consistency / Density | Moisture | Observations / Comments | Well Details | Well Construction |
|---------------------------|----------|---------|---------------|-------------|-------------|---|-----------------------|----------|------------------------------------|--------------|-------------------|
| | ID No. | PID ppm | | | | | | | | | |
| 0.16 | | | | | | CONCRETE SLAB. | | | | | |
| 0.30 | SB11/0.2 | 0.0 | | | | FILL- SAND & GRAVEL, orange / yellow. | loose | dry | Frequent rocks, concrete, bitumen. | | |
| | SB11/0.5 | 0.0 | | | | FILL- SAND / GRAVEL / COBBLE, brown / black. | loose | dry | | | |
| 1.0 | SB11/1.2 | 0.0 | | | | | | | | | |
| | SB11/1.6 | 0.0 | | | | | | | | | |
| 2.0 | SB11/2.0 | 0.0 | | | | | | | | | |
| 2.40 | SB11/2.6 | | | | | SAND- black / grey, fine grained. | loose | moist | | | |
| 3.0 | | | | | | | | | | | |
| 4.0 | SB11/3.6 | | | | | | loose | wet | | | |
| | SB11/4.4 | | | | | Black interval from 4.2 to 4.5m. | | | | | |
| 5.0 | SB11/4.8 | 0.0 | | | | | | | | | |
| | SB11/5.0 | | | | | | | | | | |
| 6.00 | | | | | | End of Hole at 6.00m at target depth. | | | | | |
| 7.0 | | | | | | | | | | | |

TRACE AUG2018 1 1:10 MASCOT.GPJ WSP.GDT 24/8/18 10:25:03 AM - drawn by laurie.white at www.reumad.com.au

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|--|--|
| Notes | |
| Hand auger refusal on multiple rocks at 0.3m. Well installed. | |
|  | |
| Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au | Logged By: Jack Ellis Date: 9/08/2018 Checked By: _____ Date: _____ |

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|--|--|--|-----------------------------|
|  <p>TRACE Environmental Shop 2, 793-799 New Canterbury Road Dulwich Hill, NSW 2203 www.traceenviro.com enquiries@traceenviro.com</p> | Borehole Log | | Hole ID. SB13 |
| | Project Name: Environmental Site Assessment | | Hole Depth: 0.40 m |
| | Project Number: 1.16 | | GW Encountered: |
| | Location / Site: 146-154 O'Riordan Street, Mascot NSW | | |
| | Client: JKN Park Pty Ltd | | |
| | Drill Company: Epoca Environmental Pty Ltd | | |
| Drill Method: HA to 0.4m. | | | |
| Date Started: 10/08/2018 | | | |
| Date Completed: 10/08/2018 | | | |

| Water Inflow Depth (m) | Sample | | Material Type | Graphic Log | USCS Symbol | Material Description | Consistency / Density | Moisture | Observations / Comments |
|---------------------------|----------|---------|---------------|---|-------------|---|-----------------------|----------|-------------------------|
| | ID No. | PID ppm | | | | | | | |
| 0.10 | SB13/0.3 | 0.0 | Fill |  | | FILL- TOPSOIL. Silty SAND, brown / grey. | loose | dry | Frequent organics. |
| 0.2 | | | | | | FILL- SILT / SAND / GRAVEL, brown / grey. | loose | dry | |
| 0.37 | | | | | | FILL- SAND, light brown. | loose | dry | |
| 0.40 | | | | | | Hole Terminated at 0.40m on potential service trench. | | | |
| 0.5 | | | | | | | | | |
| 0.6 | | | | | | | | | |
| 0.7 | | | | | | | | | |
| 0.8 | | | | | | | | | |
| 0.9 | | | | | | | | | |
| 1.0 | | | | | | | | | |
| 1.1 | | | | | | | | | |
| 1.2 | | | | | | | | | |
| 1.3 | | | | | | | | | |
| 1.4 | | | | | | | | | |

TRACE AUG2018 1 1.16 MASCOT.GPJ WSP.GDT 24/8/18 10:25:04 AM - drawn by laurie.white at www.reumad.com.au

Notes
 Hole backfilled.

| | | |
|---|---|----------------------------------|
|  Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au | Logged By: Jack Ellis Checked By: | Date: 10/08/2018 Date: |
|---|---|----------------------------------|

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|--|--|--|-----------------------------|
|  <p>TRACE Environmental Shop 2, 793-799 New Canterbury Road Dulwich Hill, NSW 2203 www.traceenviro.com enquiries@traceenviro.com</p> | Borehole Log | | Hole ID. SB14 |
| | Project Name: Environmental Site Assessment | | Hole Depth: 10.00 m |
| | Project Number: 1.16 | | GW Encountered: |
| | Location / Site: 146-154 O'Riordan Street, Mascot NSW | | |
| | Client: JKN Park Pty Ltd | | |
| | Drill Company: Epoca Environmental Pty Ltd | | |
| | Date Completed: 9/08/2018 | | |

| Water Inflow Depth (m) | Sample | | Material Type | Graphic Log | USCS Symbol | Material Description | Consistency / Density | Moisture | Observations / Comments | | | |
|---------------------------|----------|---------|---------------|---|-------------|---|-----------------------|----------|-------------------------|-------|-----|-----------------------|
| | ID No. | PID ppm | | | | | | | | | | |
| 0.11 | | | | | | CONCRETE SLAB. | | | | | | |
| 0.40 | SB14/0.2 | 0.0 | Fill |  | | FILL- SAND / GRAVEL / COBBLE, yellow / light brown. | loose | dry | | | | |
| | QS2 QS2A | 0.4 | | | | | | | | loose | dry | Bricks, rocks, glass. |
| | SB14/0.4 | 0.0 | | | | | | | | | | |
| | SB14/0.5 | 0.0 | | | | FILL- SAND / GRAVEL / COBBLE, black / brown. | | | | | | |
| 1.0 | SB14/1.2 | 0.0 | | | | | | | | | | |
| 2.0 | SB14/2.0 | 0.3 | | | | | | | | | | |
| | SB14/2.5 | 0.0 | | | | | | | | | | |
| 2.80 | | | | | | | | | | | | |
| 3.0 | SB14/3.0 | 0.0 | Natural |  | | SAND- black, fine grained. | loose | moist | | | | |
| 3.20 | SB14/3.2 | 0.0 | | | | | SP | loose | wet | | | |
| 3.50 | | | | | | | SP | loose | wet | | | |
| | SB14/3.8 | | | | | | SP | loose | wet | | | |
| | SB14/4.0 | 0.0 | | | | | | loose | sat'd | | | |
| 4.00 | | | | | | | | | | | | |
| 5.0 | SB14/5.0 | 0.0 | | | | | | | | | | |
| 6.0 | SB14/6.0 | 0.0 | | | | | | | | | | |
| 7.0 | SB14/7.0 | 0.0 | | | | | | | | | | |

TRACE AUG2018 1 1.16 MASCOT.GPJ WSP.GDT 24/8/18 10:25:05 AM - drawn by laurie.white at www.reumad.com.au

Notes
 Hole backfilled.

| | | |
|---|---|----------------------------------|
|  Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au | Logged By: Jack Ellis Checked By: | Date: 10/08/2018 Date: |
|---|---|----------------------------------|

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|--|---------------------|---|-----------------------------|
|  <p>TRACE Environmental Shop 2, 793-799 New Canterbury Road Dulwich Hill, NSW 2203 www.traceenviro.com enquiries@traceenviro.com</p> | Borehole Log | | Hole ID. SB14 |
| | Project Name: | Environmental Site Assessment | Hole Depth: 10.00 m |
| | Project Number: | 1.16 | GW Encountered: |
| | Location / Site: | 146-154 O'Riordan Street, Mascot NSW | |
| | Client: | JKN Park Pty Ltd | |
| | Drill Company: | Epoca Environmental Pty Ltd | |
| | Drill Method: | HA to 0.7m (refusal), SFA to 1m, PT to 3.9m, SFA to 10m. | |
| Date Started: | 10/08/2018 | | |
| Date Completed: | 9/08/2018 | | |

| Water Inflow Depth (m) | Sample | | Material Type Graphic Log | USCS Symbol | Material Description | Consistency / Density | Moisture | Observations / Comments |
|---------------------------|-----------|------------|--|-------------|---|--------------------------|----------|-------------------------|
| | ID No. | PID ppm | | | | | | |
| 8.0 | SB14/8.0 | 0.0 |  | SP | SAND - black, fine grained. <i>(continued)</i> | loose | sat'd | |
| 9.0 | SB14/9.0 | 0.0 | | | | | | |
| 10.00 | SB14/10.0 | 0.0 | | | | | | |
| 11.0 | | | | | End of Hole at 10.00m at target depth. | | | |
| 12.0 | | | | | | | | |
| 13.0 | | | | | | | | |
| 14.0 | | | | | | | | |
| 15.0 | | | | | | | | |

TRACE AUG2018 1 1.16 MASCOT.GPJ WSP.GDT 24/8/18 10:25:05 AM - drawn by laurie.white at www.reumad.com.au

Notes
 Hole backfilled.

| | | |
|---|---|----------------------------------|
|  Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au | Logged By: Jack Ellis Checked By: | Date: 10/08/2018 Date: |
|---|---|----------------------------------|

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|--|--|--|----------------------------|
|  <p>TRACE Environmental Shop 2, 793-799 New Canterbury Road Dulwich Hill, NSW 2203 www.traceenviro.com enquiries@traceenviro.com</p> | Borehole Log | | Hole ID: SB17 |
| | Project Name: Environmental Site Assessment | | Hole Depth: 10.00 m |
| | Project Number: 1.16 | | GW Encountered: |
| | Location / Site: 146-154 O'Riordan Street, Mascot NSW | | |
| | Client: JKN Park Pty Ltd | | |
| | Drill Company: Epoca Environmental Pty Ltd | | |
| | Date Completed: 9/08/2018 | | |

| Water Inflow Depth (m) | Sample | | Material Type | Graphic Log | USCS Symbol | Material Description | Consistency / Density | Moisture | Observations / Comments |
|---------------------------|----------|---------|---------------|-------------|-------------|--|-----------------------|----------|-------------------------|
| | ID No. | PID ppm | | | | | | | |
| 0.15 | SB17/0.2 | 0.0 | | | | CONCRETE SLAB. | | | |
| 0.45 | SB17/0.5 | 0.0 | | | | FILL- SAND, light brown. | loose | moist | Occasional gravel. |
| 0.65 | | | | | | FILL- SAND / GRAVEL / COBBLE, light brown. | loose | dry | |
| 1.0 | SB17/1.0 | 0.0 | | | | FILL- SAND / GRAVEL / COBBLE, black / brown. | loose | dry | |
| 1.30 | SB17/1.2 | 0.0 | | | | | | | |
| 1.40 | | | | | | FILL- Clayey SAND, brown. | loose | moist | |
| 1.70 | SB17/1.6 | | | | | FILL- SAND, brown. | loose | moist | |
| 2.0 | SB17/1.9 | | | | | FILL- Sandy CLAY, brown / black. | soft | moist | Poor returns. |
| 2.70 | | | | | | | | | |
| 3.0 | | | | | | SAND- black. | loose | wet | No returns 2.7-3.6m. |
| 4.0 | SB17/3.8 | 0.0 | | | | | | | |
| 5.0 | SB17/5.0 | 0.0 | Natural | | SP | | | | |
| 6.0 | SB17/6.0 | 0.0 | | | | | | | |
| 7.0 | SB17/7.0 | 0.0 | | | | | | | |

TRACE AUG2018 1 1.16 MASCOT.GPJ WSP.GDT 24/8/18 10:25:06 AM - drawn by laurie.white at www.reumad.com.au

Notes
 Hole backfilled.

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|---|---|----------------------------------|
|  Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au | Logged By: Jack Ellis Checked By: | Date: 10/08/2018 Date: |
|---|---|----------------------------------|

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|  <p>TRACE Environmental Shop 2, 793-799 New Canterbury Road Dulwich Hill, NSW 2203 www.traceenviro.com enquiries@traceenviro.com</p> | Borehole Log | | Hole ID. SB17 |
| | Project Name: Environmental Site Assessment | | Hole Depth: 10.00 m |
| | Project Number: 1.16 | | GW Encountered: |
| | Location / Site: 146-154 O'Riordan Street, Mascot NSW | | |
| | Client: JKN Park Pty Ltd | | |
| | Drill Company: Epoca Environmental Pty Ltd | | |
| Drill Method: CC to 0.15m, HA to 0.9m (obstruction), SFA to 1.1m, PT to 3.9m, SFA to 10m. | | | |
| Date Started: 10/08/2018 | | | |
| Date Completed: 9/08/2018 | | | |

| Water Inflow Depth (m) | Sample | | Material Type | Graphic Log | USCS Symbol | Material Description | Consistency / Density | Moisture | Observations / Comments |
|---------------------------|-----------|---------|---------------|-------------|-------------|---|-----------------------|----------|-------------------------|
| | ID No. | PID ppm | | | | | | | |
| 8.0 | SB17/8.0 | 0.0 | Natural | SP | | SAND- black (continued) | loose | wet | |
| 9.0 | SB17/9.0 | 0.0 | | | | | | | |
| 10.00 | SB17/10.0 | 0.0 | | | | | | | |
| 11.0 | | | | | | End of Hole at 10.00m at target depth. | | | |
| 12.0 | | | | | | | | | |
| 13.0 | | | | | | | | | |
| 14.0 | | | | | | | | | |
| 15.0 | | | | | | | | | |

TRACE AUG2018 1 1.16 MASCOT.GPJ WSP.GDT 24/8/18 10:25:06 AM - drawn by laurie.white at www.reumad.com.au

Notes
 Hole backfilled.

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|  Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au | Logged By: Jack Ellis Checked By: | Date: 10/08/2018 Date: |
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|  <p>TRACE Environmental Shop 2, 793-799 New Canterbury Road Dulwich Hill, NSW 2203 www.traceenviro.com enquiries@traceenviro.com</p> | Borehole Log | | Hole ID. SB18 |
| | Project Name: Environmental Site Assessment | | Hole Depth: 1.00 m |
| | Project Number: 1.16 | | GW Encountered: |
| | Location / Site: 146-154 O'Riordan Street, Mascot NSW | | |
| | Client: JKN Park Pty Ltd | | |
| | Drill Company: Epoca Environmental Pty Ltd | | |
| Drill Method: HA to 0.6m (refusal), SFA to 1m. | | | |
| Date Started: 10/08/2018 | | | |
| Date Completed: 10/08/2018 | | | |

| Water Inflow Depth (m) | Sample | | Material Type | Graphic Log | USCS Symbol | Material Description | Consistency / Density | Moisture | Observations / Comments |
|---------------------------|----------|---------|---------------|-------------|-------------|--|-----------------------|----------|-------------------------|
| | ID No. | PID ppm | | | | | | | |
| 0.14 | | | | | | CONCRETE SLAB. | | | |
| 0.2 | SB18/0.2 | | | | | FILL- SAND / GRAVEL / COBBLE, light brown. | loose | dry | Brick, concrete. |
| 0.55 | | | | | | | | | |
| 0.6 | SB18/0.6 | | | | | FILL- SAND / GRAVEL / COBBLE, black / brown. | loose | dry | |
| 1.00 | SB18/1.0 | | | | | Hole Terminated at 1.00m on brick - potential service. | | | |
| 1.2 | | | | | | | | | |
| 1.4 | | | | | | | | | |

TRACE AUG2018 1 1.16 MASCOT.GPJ WSP.GDT 24/8/18 10:25:07 AM - drawn by laurie.white at www.reumad.com.au

Notes
 PID went flat prior to use.
 Hole backfilled.

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|---|---|----------------------------------|
|  Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au | Logged By: Jack Ellis Checked By: | Date: 10/08/2018 Date: |
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|  <p>TRACE Environmental Shop 2, 793-799 New Canterbury Road Dulwich Hill, NSW 2203 www.traceenviro.com enquiries@traceenviro.com</p> | Borehole Log | | Hole ID. SB19 |
| | Project Name: Environmental Site Assessment | | Hole Depth: 3.90 m |
| | Project Number: 1.16 | | GW Encountered: |
| | Location / Site: 146-154 O'Riordan Street, Mascot NSW | | |
| | Client: JKN Park Pty Ltd | | |
| | Drill Company: Epoca Environmental Pty Ltd | | |
| | Drill Method: HA to 0.6m (obstruction), SFA to 1m, PT to 3.9m. | | |
| Date Started: 8/08/2018 | | | |
| Date Completed: 8/08/2018 | | | |

| Water Inflow Depth (m) | Sample | | Material Type | Graphic Log | USCS Symbol | Material Description | Consistency / Density | Moisture | Observations / Comments |
|---------------------------|--|---------|---------------|---|-------------|---|-----------------------|----------|--------------------------------------|
| | ID No. | PID ppm | | | | | | | |
| 0.05 0.75 | SB19/0.2 | 0.0 | Fill |  | | BITUMEN. | loose | dry | Frequent rock, slag gravel, cobbles. |
| | SB19/0.8 | 0.8 | | | | FILL- ROADBASE. | | | |
| | SB19/1.5 | 1.0 | | | | FILL- Silty SAND, black / brown. | | | |
| | SB19/2.5 | | Natural |  | SM | Silty SAND- brown. | loose | dry | |
| | SB19/3.2 | | | | | loose | damp | | |
| | SB19/3.7 | | | | | loose | wet | | |
| | End of Hole at 3.90m at target depth. | | | | | | | | |

TRACE AUG2018 1 1.16 MASCOT.GPJ WSP.GDT 24/8/18 10:25:08 AM - drawn by laurie.white at www.reumad.com.au

Notes
 Hole backfilled.

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|---|---|---------------------------------|
|  Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au | Logged By: Jack Ellis Checked By: | Date: 8/08/2018 Date: |
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|  <p>TRACE Environmental Shop 2, 793-799 New Canterbury Road Dulwich Hill, NSW 2203 www.traceenviro.com enquiries@traceenviro.com</p> | Borehole Log | | Hole ID: SB20 |
| | Project Name: Environmental Site Assessment | | Hole Depth: 12.00 m |
| | Project Number: 1.16 | | GW Encountered: |
| | Location / Site: 146-154 O'Riordan Street, Mascot NSW | | |
| | Client: JKN Park Pty Ltd | | |
| | Drill Company: Epoca Environmental Pty Ltd | | |
| | Date Completed: 8/08/2018 | | |

| Water Inflow Depth (m) | Sample | | Material Type | Graphic Log | USCS Symbol | Material Description | Consistency / Density | Moisture | Observations / Comments | | | |
|---------------------------|----------|---------|---------------|---|-------------|-----------------------------------|-----------------------|----------|--|-------|-----|------------------------|
| | ID No. | PID ppm | | | | | | | | | | |
| 0.10 | SB20/0.3 | 0.0 | Fill |  | | FILL- TOPSOIL. Silty SAND, brown. | loose | dry | Frequent gravels, metal slag, concrete, glass. | | | |
| | | | | | | FILL- SILT & SAND, black. | loose | dry | | | | |
| 1.0 | SB20/1.0 | 0.0 | | | | | | | | | | |
| 1.25 | | | | | | | | | FILL- yellow / brown / grey. | dense | dry | Concrete, sand, brick. |
| 1.50 | SB20/1.5 | 0.0 | | | | | | | FILL- yellow. | dense | dry | Brick. |
| 2.00 | | | | | | | | | | | | |
| 2.30 | SB20/2.2 | 0.0 | | | | | | | FILL- SAND, grey, fine grained. | loose | dry | |
| 2.50 | SB20/2.4 | 0.0 | Natural |  | SP | FILL- SAND, black, fine grained. | loose | dry | | | | |
| | SB20/2.6 | 0.0 | | | | SAND- orange, fine grained. | loose | dry | | | | |
| 3.0 | SB20/3.0 | 0.0 | | | | | | | | | | |
| 3.50 | | | | | | | | | | | | |
| 4.0 | SB20/3.8 | 0.0 | | | | SAND- black, fine grained. | loose | wet | | | | |
| 5.0 | | | | | | | | | | | | |
| 5.0 | SB20/5.0 | 0.0 | | | | | | | | | | |
| 6.0 | | | | | | | | | | | | |
| 6.0 | SB20/6.0 | 0.0 | | | | | | | | | | |
| 7.0 | | | | | | | | | | | | |
| 7.0 | SB20/7.0 | 0.0 | | | | | | | | | | |
| 7.50 | | | | | | | | | | | | |

TRACE AUG2018 1 1.16 MASCOT.GPJ WSP.GDT 24/8/18 10:25:09 AM - drawn by laurie.white at www.reumad.com.au

Notes
 Hole backfilled.

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|---|---|---------------------------------|
|  Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au | Logged By: Jack Ellis Checked By: | Date: 8/08/2018 Date: |
|---|---|---------------------------------|

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|--|--|--|-----------------------------|
|  <p>TRACE Environmental Shop 2, 793-799 New Canterbury Road Dulwich Hill, NSW 2203 www.traceenviro.com enquiries@traceenviro.com</p> | Borehole Log | | Hole ID. SB20 |
| | Project Name: Environmental Site Assessment | | Hole Depth: 12.00 m |
| | Project Number: 1.16 | | GW Encountered: |
| | Location / Site: 146-154 O'Riordan Street, Mascot NSW | | |
| | Client: JKN Park Pty Ltd | | |
| | Drill Company: Epoca Environmental Pty Ltd | | |
| Drill Method: HA to 0.6m (refusal), SFA to 1m, PT to 3.9m, SFA to 12m. | | | |
| Date Started: 8/08/2018 | | | |
| Date Completed: 8/08/2018 | | | |

| Water Inflow Depth (m) | Sample | | Material Type | Graphic Log | USCS Symbol | Material Description | Consistency / Density | Moisture | Observations / Comments |
|---------------------------|-----------|---------|---------------|--|-------------|--|-----------------------|----------|-------------------------|
| | ID No. | PID ppm | | | | | | | |
| 8.0 | SB20/8.0 | 0.0 | Natural |  | SP | SAND- grey. | loose | wet | |
| 9.0 | SB20/9.0 | 0.0 | | | | | | | |
| 10.0 | SB20/10.0 | 0.0 | | | | | | | |
| 11.0 | SB20/11.0 | 0.0 | | | | | | | |
| 12.00 | | | | | | End of Hole at 12.00m at target depth. | | | |
| 13.0 | | | | | | | | | |
| 14.0 | | | | | | | | | |
| 15.0 | | | | | | | | | |

TRACE AUG2018 1 1.16 MASCOT WSP.GDT 24/8/18 10:25:09 AM - drawn by laurie.white at www.reumad.com.au

Notes
 Hole backfilled.

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|---|---|---------------------------------|
|  Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au | Logged By: Jack Ellis Checked By: | Date: 8/08/2018 Date: |
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|  <p>TRACE Environmental Shop 2, 793-799 New Canterbury Road Dulwich Hill, NSW 2203 www.traceenviro.com enquiries@traceenviro.com</p> | Borehole Log | | Hole ID. SB21 |
| | Project Name: Environmental Site Assessment | | Hole Depth: 0.80 m |
| | Project Number: 1.16 | | GW Encountered: |
| | Location / Site: 146-154 O'Riordan Street, Mascot NSW | | |
| | Client: JKN Park Pty Ltd | | |
| | Drill Company: Epoca Environmental Pty Ltd | | |
| Drill Method: HA to 0.7m (refusal), SFA to 0.8m. | | | |
| Date Started: 13/08/2018 | | | |
| Date Completed: 13/08/2018 | | | |

| Water Inflow Depth (m) | Sample | | Material Type | Graphic Log | USCS Symbol | Material Description | Consistency / Density | Moisture | Observations / Comments |
|---------------------------|-----------|---------|---------------|-------------|-------------|-----------------------------------|-----------------------|----------|---|
| | ID No. | PID ppm | | | | | | | |
| 0.20 | SB21/0.15 | 0.0 | | | | FILL- TOPSOIL. Silty SAND, brown. | loose | dry | Frequent organics, gravels and cobbles. |
| 0.4 | SB21/0.4 | | | | | FILL- Silty SAND, brown. | loose | dry | Gravels, cobbles, brick, rock. |
| 0.5 | SB21/0.5 | | | | | | | | |
| 0.80 | SB21/0.8 | | | | | Refusal at 0.80m on concrete. | | | |

TRACE AUG2018 1 1.16 MASCOT.GPJ WSP.GDT 24/8/18 10:25:10 AM - drawn by laurie.white at www.reumad.com.au

Notes
 Hand auger refusal on multiple rocks at 0.7m.
 Hole backfilled.

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|  Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au | Logged By: Jack Ellis Checked By: | Date: 13/08/2018 Date: |
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|  <p>TRACE Environmental Shop 2, 793-799 New Canterbury Road Dulwich Hill, NSW 2203 www.traceenviro.com enquiries@traceenviro.com</p> | Borehole Log | | Hole ID: SB22 / MW4 |
| | Project Name: | Environmental Site Assessment | Hole Depth: 7.00 m |
| | Project Number: | 1.16 | GW Encountered: |
| | Location / Site: | 146-154 O'Riordan Street, Mascot NSW | |
| | Client: | JKN Park Pty Ltd | |
| | Drill Company: | Epoca Environmental Pty Ltd | |
| Drill Method: | HA to 1m, PT to 5m, SFA to 7m. | | |
| Date Started: | 13/08/2018 | | |
| Date Completed: | 13/08/2018 | | |

| Water Inflow Depth (m) | Sample | | | | Material Type | Graphic Log | USCS Symbol | Material Description | Consistency / Density | Moisture | Observations / Comments | Well Details | Well Construction |
|---------------------------|-----------|---------|-------|---|---------------|-------------|---|----------------------|-----------------------|------------------------|-------------------------|--------------|-------------------|
| | ID No. | PID ppm | LEL % | % O ₂ | | | | | | | | | |
| 0.20 | SB22/0.1 | 0.0 | | | Fill | | FILL- SILT / SAND / GRAVEL / COBBLE, brown / black. | loose | dry | Coal, metal, concrete. | | | |
| | SB22/0.5 | | | FILL- SAND / GRAVEL / COBBLE, grey / black. | | | loose | dry | | | | | |
| 0.80 | SB22/0.9 | | | | SM | | Silty SAND- grey / brown, fine grained. | loose | dry | | | | |
| 1.0 | SB22/1.0 | 0.0 | | | | | | | | | | | |
| | SB22/1.3 | | | | | | | | | | | | |
| 1.70 | SB22/2.0 | 0.0 | | | | | | | | | | | |
| 2.0 | SB22/2.6 | | | | SP | | SAND- brown / orange, fine grained. | loose | dry | | | | |
| 2.80 | SB22/3.0 | 0.0 | | | | | | | | | | | |
| 3.0 | SB22/3.0 | 0.0 | | | | | | | | | | | |
| 3.50 | SB22/4.0 | 0.0 | | | SP | | SAND- light brown. | loose | moist | | | | |
| 4.0 | SB22/5.0 | 0.0 | | | | | | | | | | | |
| 5.0 | SB22/5.0 | 0.0 | | | | | | | | | | | |
| 6.0 | SB22/6.0 | 0.0 | | | SP | | SAND- grey / brown. | loose | moist | | | | |
| | QS3, QS3A | | | | | | | | | | | | |
| 7.00 | SB22/7.0 | | | | | | End of Hole at 7.00m at target depth. | | | | | | |

TRACE AUG2018 2 1:10 MASCOT.GPJ WSP.GDT 24/8/18 10:27:41 AM - drawn by laurie.white at www.reumad.com.au

Notes

Well installed.



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|---|---|----------------------------------|
|  Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au | Logged By: Jack Ellis Checked By: | Date: 13/08/2018 Date: |
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|  <p>TRACE Environmental Shop 2, 793-799 New Canterbury Road Dulwich Hill, NSW 2203 www.traceenviro.com enquiries@traceenviro.com</p> | Borehole Log | | Hole ID. SB23 |
| | Project Name: Environmental Site Assessment | | Hole Depth: 0.45 m |
| | Project Number: 1.16 | | GW Encountered: |
| | Location / Site: 146-154 O'Riordan Street, Mascot NSW | | |
| | Client: JKN Park Pty Ltd | | |
| | Drill Company: Epoca Environmental Pty Ltd | | |
| Drill Method: CC to 0.156m, HA to 0.45m. | | | |
| Date Started: 14/08/2018 | | | |
| Date Completed: 14/08/2018 | | | |

| Water Inflow Depth (m) | Sample | | Material Type Graphic Log | USCS Symbol | Material Description | Consistency / Density | Moisture | Observations / Comments |
|---------------------------|----------|------------|------------------------------|-------------|--|--------------------------|----------|-------------------------|
| | ID No. | PID ppm | | | | | | |
| 0.16 | | | | | CONCRETE SLAB. | | | |
| 0.20 | SB23/0.2 | 0.0 | Fill | | FILL- SAND, orange, fine grained. | loose | dry | |
| 0.4 | SB23/0.4 | 0.0 | | | FILL- SAND / GRAVEL / COBBLE, brown, very coarse gravel. | loose | dry | |
| 0.45 | | | | | Refusal at 0.45m on very coarse multiple cobbles. | | | |
| 0.6 | | | | | | | | |
| 0.8 | | | | | | | | |
| 1.0 | | | | | | | | |
| 1.2 | | | | | | | | |
| 1.4 | | | | | | | | |

TRACE AUG2018 1 1.16 MASCOT.GPJ WSP.GDT 24/8/18 10:25:10 AM - drawn by laurie.white at www.reumad.com.au

Notes
 Hole backfilled.

| | | |
|---|---|----------------------------------|
|  Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au | Logged By: Jack Ellis Checked By: | Date: 14/08/2018 Date: |
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|  <p>TRACE Environmental Shop 2, 793-799 New Canterbury Road Dulwich Hill, NSW 2203 www.traceenviro.com enquiries@traceenviro.com</p> | Borehole Log | | Hole ID. SB24 |
| | Project Name: Environmental Site Assessment | | Hole Depth: 0.35 m |
| | Project Number: 1.16 | | GW Encountered: |
| | Location / Site: 146-154 O'Riordan Street, Mascot NSW | | |
| | Client: JKN Park Pty Ltd | | |
| | Drill Company: Epoca Environmental Pty Ltd | | |
| Drill Method: CC to 0.116m, HA to 0.35m. | | | |
| Date Started: 14/08/2018 | | | |
| Date Completed: 14/08/2018 | | | |

| Water Inflow Depth (m) | Sample | | Material Type | Graphic Log | USCS Symbol | Material Description | Consistency / Density | Moisture | Observations / Comments |
|---------------------------|----------|---------|---------------|---|-------------|--|-----------------------|----------|-------------------------|
| | ID No. | PID ppm | | | | | | | |
| 0.12 | SB24/0.3 | 0.0 | Fill |  | | CONCRETE SLAB. | | | |
| 0.20 | | | | | | FILL- SAND, orange / brown, fine grained. | loose | dry | |
| 0.35 | | | | | | FILL- SAND / GRAVEL / COBBLE, brown. | loose | dry | |
| 0.4 | | | | | | Refusal at 0.35m on very large white cobble. Could not be broken or moved. | | | |

TRACE AUG2018 1 1.16 MASCOT.GPJ WSP.GDT 248/18 10:25:11 AM - drawn by laurie.white at www.reumad.com.au

Notes
 Hole backfilled.

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|---|---|---|----------------------------------|
|  | Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au | Logged By: Jack Ellis Checked By: | Date: 14/08/2018 Date: |
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|--|--|--|-----------------------------|
|  <p>TRACE Environmental Shop 2, 793-799 New Canterbury Road Dulwich Hill, NSW 2203 www.traceenviro.com enquiries@traceenviro.com</p> | Borehole Log | | Hole ID. SB25 |
| | Project Name: Environmental Site Assessment | | Hole Depth: 0.30 m |
| | Project Number: 1.16 | | GW Encountered: |
| | Location / Site: 146-154 O'Riordan Street, Mascot NSW | | |
| | Client: JKN Park Pty Ltd | | |
| | Drill Company: Epoca Environmental Pty Ltd | | |
| Drill Method: CC to 0.116m, HA to 0.3m. | | | |
| Date Started: 14/08/2018 | | | |
| Date Completed: 14/08/2018 | | | |

| Water Inflow Depth (m) | Sample | | Material Type Graphic Log | USCS Symbol | Material Description | Consistency / Density | Moisture | Observations / Comments |
|---------------------------|--------|------------|---|-------------|---|--------------------------|----------|-------------------------|
| | ID No. | PID ppm | | | | | | |
| 0.12 | | |  | | CONCRETE SLAB. | | | |
| 0.20 | | | | | FILL- SAND, orange / brown, fine grained. | loose | dry | |
| 0.30 | | 0.0 | | | FILL- SAND / GRAVEL / COBBLE, brown. | loose | dry | |
| 0.4 | | | | | Refusal at 0.30m on very large cobble, larger than hole. | | | |
| 0.6 | | | | | | | | |
| 0.8 | | | | | | | | |
| 1.0 | | | | | | | | |
| 1.2 | | | | | | | | |
| 1.4 | | | | | | | | |

TRACE AUG2018 1 1.16 MASCOT.GPJ WSP.GDT 24/8/18 10:25:12 AM - drawn by laurie.white at www.reumad.com.au

Notes
 Hole backfilled.

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|---|---|----------------------------------|
|  Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au | Logged By: Jack Ellis Checked By: | Date: 14/08/2018 Date: |
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|  <p>TRACE Environmental Shop 2, 793-799 New Canterbury Road Dulwich Hill, NSW 2203 www.traceenviro.com enquiries@traceenviro.com</p> | Borehole Log | | Hole ID. SB26 |
| | Project Name: Environmental Site Assessment | | Hole Depth: 10.00 m |
| | Project Number: 1.16 | | GW Encountered: |
| | Location / Site: 146-154 O'Riordan Street, Mascot NSW | | |
| | Client: JKN Park Pty Ltd | | |
| | Drill Company: Epoca Environmental Pty Ltd | | |
| | Date Completed: 10/08/2018 | | |

| Water Inflow Depth (m) | Sample | | Material Type Graphic Log | USCS Symbol | Material Description | Consistency / Density | Moisture | Observations / Comments |
|---------------------------|--------------|------------|------------------------------|-------------|---|--------------------------|----------|----------------------------------|
| | ID No. | PID ppm | | | | | | |
| 0.12 | SB26/0.2 | 0.0 | | | CONCRETE SLAB. | | | |
| 0.50 | SB26/0.5 | | | | FILL- SAND / GRAVEL / COBBLE, yellow / light brown. | loose | dry | Concrete, rock, organics (wood). |
| 0.70 | | | | | FILL- SAND, brown, fine grained. | loose | dry | |
| 1.0 | SB26/1.0 | 3.9 | | | FILL- Sandy Gravelly CLAY, black, medium plasticity. | soft | humid | |
| 1.50 | | | | | FILL- Clayey SAND & GRAVEL, black. | loose | dry | Moderate hydrocarbon odour. |
| 2.00 | SB26/1.5-2.0 | 8.3 | | | | | | |
| | SB26/2.0 | 7.3 | | | SAND- black, fine grained. | loose | wet | Hydrocarbon odour. |
| 3.0 | SB26/3.0 | 6.4 | | | | | | |
| 4.0 | SB26/4.0 | 8.5 | | SP | | | | |
| 5.0 | SB26/5.0 | 8.9 | | | | | | |
| 6.00 | SB26/6.0 | 5.5 | | | SAND- brown. | loose | wet | Organic odour. |
| 7.0 | SB26/7.0 | 2.7 | | SP | | | | |

TRACE AUG2018 1 1.16 MASCOT.GPJ WSP.GDT 24/8/18 10:25:12 AM - drawn by laurie white at www.reumad.com.au

Notes
 No push tube due to noise inside building with workers.
 Hole backfilled.

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|---|---|----------------------------------|
|  Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au | Logged By: Jack Ellis Checked By: | Date: 10/08/2018 Date: |
|---|---|----------------------------------|

| | | | |
|--|--|--|-----------------------------|
|  <p>TRACE Environmental Shop 2, 793-799 New Canterbury Road Dulwich Hill, NSW 2203 www.traceenviro.com enquiries@traceenviro.com</p> | Borehole Log | | Hole ID. SB26 |
| | Project Name: Environmental Site Assessment | | Hole Depth: 10.00 m |
| | Project Number: 1.16 | | GW Encountered: |
| | Location / Site: 146-154 O'Riordan Street, Mascot NSW | | |
| | Client: JKN Park Pty Ltd | | |
| | Drill Company: Epoca Environmental Pty Ltd | | |
| Drill Method: CC to 0.12m, HA to 0.3m (refusal), SFA to 10m. | | | |
| Date Started: 10/08/2018 | | | |
| Date Completed: 10/08/2018 | | | |

| Water Inflow Depth (m) | Sample | | Material Type Graphic Log | USCS Symbol | Material Description | Consistency / Density | Moisture | Observations / Comments |
|---------------------------|-----------|------------|------------------------------|-------------|---|--------------------------|----------|-------------------------|
| | ID No. | PID ppm | | | | | | |
| 8.0 | SB26/8.0 | 2.0 | Natural SP | | SAND- brown. (continued) | loose | wet | |
| 9.0 | SB26/9.0 | | | | | | | |
| 10.00 | SB26/10.0 | 0.0 | | | | | | |
| 11.0 | | | | | End of Hole at 10.00m at target depth. | | | |
| 12.0 | | | | | | | | |
| 13.0 | | | | | | | | |
| 14.0 | | | | | | | | |
| 15.0 | | | | | | | | |

TRACE AUG2018 1 1.16 MASCOT.GPJ WSP.GDT 24/8/18 10:25:15 AM - drawn by laurie.white at www.reumad.com.au

Notes
 No push tube due to noise inside building with workers.
 Hole backfilled.

| | | |
|---|---|----------------------------------|
|  Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au | Logged By: Jack Ellis Checked By: | Date: 10/08/2018 Date: |
|---|---|----------------------------------|

| | | | |
|--|---|---|----------------------------|
|  <p>TRACE Environmental Shop 2, 793-799 New Canterbury Road Dulwich Hill, NSW 2203 www.traceenviro.com enquiries@traceenviro.com</p> | <h3>Monitoring Well Log</h3> | | Hole ID: SB27 / MW1 |
| | Project Name: | Environmental Site Assessment | Hole Depth: 6.00 m |
| | Project Number: | 1.16 | GW Encountered: |
| | Location / Site: | 146-154 O'Riordan Street, Mascot NSW | |
| | Client: | JKN Park Pty Ltd | |
| | Drill Company: | Epoca Environmental Pty Ltd | |
| Drill Method: | HA to 1.1m (refusal on slag), PT to 3.9m, SFA to 6m. | | |
| Date Started: | 8/08/2018 | | |
| Date Completed: | 8/08/2018 | | |

| Water Inflow Depth (m) | Sample | | | | Material Type | Graphic Log | USCS Symbol | Material Description | Consistency / Density | Moisture | Observations / Comments | Well Details | Well Construction |
|---------------------------|-----------------------|---------|-------|--|---------------|-----------------------|---|--|-----------------------|---|--|--|-------------------|
| | ID No. | PID ppm | LEL % | % O ₂ | | | | | | | | | |
| 0.05 0.75 | SB27/0.2 | 0.0 | | | FILL | [Cross-hatch pattern] | BITUMEN FILL- ROADBASE. | loose | dry | Frequent slag gravel, brick, concrete. | [Well construction diagram showing casing, grout, bentonite, sand, and screen] | Casing Grout Bentonite Sand Screen | |
| | SB27/0.5 | 0.0 | | FILL- Silty SAND, black / brown, slightly clayey. | | | loose | dry | | | | | |
| 1.0 | SB27/1.0 | 0.0 | | | | | | | | | | | |
| 1.55 | SB27/1.5 | 0.0 | | | Natural | [X-pattern] | NO RETURNS- likely sand. | very soft / loose | | Push tubes push aside whilst advancing. | | | |
| 2.0 | | | | | | | | | | | | | |
| 3.00 | SB27/3.1 | 0.0 | | | SP | [Dotted pattern] | SAND- brown, occasional black pockets, fine grained. | loose | dry | | | | |
| 3.80 4.0 | SB27/3.8 QS1, QS1A | 0.0 | | | | | | SAND- black / grey, fine grained. | loose | wet | | | |
| 5.0 | SB27/5.0 | 0.0 | | | SP | [Dotted pattern] | | loose | wet | | | | |
| 6.00 | SB27/6.0 | 0.0 | | | | | | End of Hole at 6.00m at target depth. | | | | | |

TRACE AUG2018 2 1:10 MASCOT GPJ WSP.GDT 24/8/18 10:32:02 AM - drawn by laurie.white at www.reumad.com.au

Notes
Well installed.

| | | | |
|---|--|---|---------------------------------|
|  Backfill  Grout  Bentonite  Gravel Pack  Screen  Cave-In | Log Drawn By: Laurie White Contact: laurie.white@reumad.com.au | Logged By: Jack Ellis Checked By: | Date: 8/08/2018 Date: |
|---|--|---|---------------------------------|



| Well Gauging Sheet - 146-154 O'Riordan Street, Mascot | | | | | | | | | | | | | | | |
|---|--------------------|--------------------------|------------------------|------------------------|--------------------|-------------------|--------------------------------|--------------|-------------------|------------------------------------|-----------------------------------|----------------------------|--------------|----------------|---------------------------------------|
| Monitoring Well ID | Well Diameter (mm) | Total Well Depth (mBTOC) | Depth to LNAPL (mBTOC) | Depth to Water (mBTOC) | TOC Elevation mAHD | WT Elevation mAHD | Calculated LNAPL Thickness (m) | Colour | Purged Volume (L) | Electrical Conductivity EC (µS/cm) | Total Dissolved Solids TDS (mg/L) | Dissolved Oxygen DO (mg/L) | pH (pH unit) | Redox ORP (mV) | Comments |
| MW-1 | 50 | 5.756 | - | 3.982 | 8.40 | 4.718 | - | Brown | 5 | 1100 | 737 | 6.38 | 6.66 | 348.5 | No odour, no sheen, high turbidity. |
| MW-2 | 50 | 5.870 | - | 4.058 | 8.115 | 4.057 | - | Yellow | 5 | 1100 | 737 | 7.03 | 7.21 | -197.6 | No odour, no sheen, low turbidity. |
| MW-3 | 50 | 5.729 | - | 3.781 | 8.865 | 5.024 | - | Yellow/brown | 5 | 1200 | 804 | 5.06 | 5.29 | 377.8 | No odour, no sheen, Medium turbidity. |
| MW-4 | 50 | 6.866 | - | 4.590 | 8.135 | 3.539 | - | Yellow | 5 | 2100 | 1497 | 5.24 | 6.04 | 137.8 | No odour, no sheen, low turbidity. |

Notes: *MW-6* Groundwater Monitoring Well
 TPMW-6 Tank Pit Monitoring Well
 LNAPL - Light Non-Aqueous Phase Liquid
 mBTOC - metres below top of casing
 mbs - metres below ground surface
 TOC - Top of Casing (metres Australian Height Datum)
 WT - Water Table (metres Australian Height Datum)
 Monitoring wells gauged on 15 August 2018

MONITORING WELL SAMPLING LOG



Date: 15/8/18
 Site Address: 150 o'Randonsby
 Start Time: 11.50
 Monitor Well No: MW1
 Well Head Condition: N2W
 Project No: 1.16
 Finish Time: 12.15
 Sampling Method: low flow
 Recorded by: SE

H = High M = Medium L = Low
 X = Not present Y = Yes N = No
 Note: Do not smell for HC odour, however, inadvertent observations should be noted.
 All ACT sites must be tested for ethanol.

| Well ID | Well Diameter (mm) | Depth to LNAPL (mbtoc) | Depth to Water (mbtoc) | LNAPL Thickness (m) | Total Well Depth (mbtoc) | Sample Filtered | HC Odour | Sheen | Turbidity | Physical Observations Colour, LNAPL colour, other odours, etc. |
|---------|--------------------|------------------------|------------------------|---------------------|--------------------------|-----------------|----------|-------|-----------|---|
| MW1 | 50 | - | 3.682 | - | 5.356 | Y | N | N | High | brown |

Field Parameter Measurements

| Time | Volume Purged (L) | Temp (°C) | Electrical Cond (EC) (µS/cm) | Dissolved Oxygen (DO) (mg/L) | pH | Redox Potential (ORP) (mV) | Comments |
|-------|-------------------|-----------|------------------------------|------------------------------|------|----------------------------|----------|
| 11.55 | 1 | 23.6 | 1.2 | 7.18 | 9.4 | 356.0 | D1W |
| 11.56 | 2 | 23.3 | 1.1 | 7.03 | 6.21 | 219.2 | |
| 11.59 | 3 | 23.4 | 1.2 | 6.80 | 5.74 | 360.3 | |
| 2.01 | 4 | 23.6 | 1.1 | 6.64 | 5.82 | 318.1 | |
| 2.04 | 5 | 23.4 | 1.1 | 6.28 | 0.65 | 348.5 | |

BW110W1A

MONITORING WELL SAMPLING LOG



Date: 15/8/18 Project No: 116
 Site Address: 154 e Linden St, Haver
 Start Time: 09:58 Finish Time: 10:31
 Monitor Well No: MW2 Sampling Method: low flow
 Well Head Condition: New Recorded by: ST

H = High M = Medium L = Low
 X = Not Present Y = Yes N = No
 Note: Do not smell for HC odour, however, inadvertent observations should be noted.
 All ACT sites must be tested for ethanol.

Field Observations

| Well ID | Well Diameter (mm) | Depth to LNAPL (mbtoc) | Depth to Water (mbtoc) | LNAPL Thickness (m) | Total Well Depth (mbtoc) | Sample Filtered | HC Odour | Sheen | Turbidity | Physical Observations Colour, LNAPL colour, other odours, etc. |
|---------|--------------------|------------------------|------------------------|---------------------|--------------------------|-----------------|----------|-------|-----------|--|
| MW3 | 50 | — | U.058 | — | 3.076 | Y | N | N | Low | yellow colour |

Field Parameter Measurements

| Time | Volume Purged (L) | Temp (°C) | Electrical Cond (EC) $\mu S/cm$ | Dissolved Oxygen (DO) (mg/L) | pH | Redox Potential (ORP) (mV) | DTW | Comments |
|-------|-------------------|-----------|---------------------------------|------------------------------|------|----------------------------|--------|----------|
| 10:02 | 1 | 19.2 | 1.1 | 8.39 | 7.23 | -199.6 | 4.072m | |
| 10:05 | 2 | 19.6 | 1.1 | 8.13 | 7.36 | -205.9 | 4.072m | |
| 10:08 | 3 | 20.1 | 1.2 | 7.279 | 7.59 | -188.5 | 4.082m | |
| 10:12 | 4 | 20.3 | 1.3 | 7.86 | 7.36 | -194.5 | 4.085m | |
| 10:16 | 5 | 21.1 | 1.1 | 7.03 | 7.21 | -177.6 | 4.093m | |

MONITORING WELL SAMPLING LOG



Date: 15/8/18 Project No: 116
 Site Address: 154 O'Riordan St, Macc
 Start Time: 10.56 Finish Time: 11.28
 Monitor Well No: MW3 Sampling Method: low flow
 Well Head Condition: new Recorded by: JE

H = High M = Medium L = Low
 X = Not present Y = Yes N = No
 Note: Do not smell for HC odour; however, inadvertent observations should be noted.
 All ACT sites must be tested for ethanol.

| Well ID | Well Diameter (mm) | Depth to LNAPL (mbtoc) | Depth to Water (mbtoc) | LNAPL Thickness (m) | Total Well Depth (mbtoc) | Sample Filtered | HC Odour | Sheen | Turbidity | Physical Observations Colour, LNAPL colour, other odours, etc. |
|---------|--------------------|------------------------|------------------------|---------------------|--------------------------|-----------------|----------|-------|-----------|---|
| MW3 | 50 | - | 3.781 | - | 5.799 | Y | N | N | Mod | Yellow/Green |

Field Parameter Measurements

| Time | Volume Purged (L) | Temp (°C) | Electrical Cond (EC) (µS/cm) | Dissolved Oxygen (DO) (mg/L) | pH | Redox Potential (ORP) (mV) | DTW | Comments |
|-------|-------------------|-----------|------------------------------|------------------------------|------|----------------------------|-------|----------|
| 11.01 | 1 | 21.6 | 1.2 | 6.81 | 5.56 | 1409.7 | 3.789 | |
| 11.08 | 2 | 21.4 | 1.2 | 6.585 | 5.45 | 296.6 | 3.791 | |
| 11.12 | 3 | 21.4 | 1.2 | 5.45 | 5.37 | 346.2 | 3.793 | |
| 11.16 | 4 | 21.2 | 1.2 | 5.26 | 5.60 | 351.3 | 3.792 | |
| 11.20 | 5 | 21.2 | 1.2 | 5.06 | 5.89 | 373.8 | 3.792 | |

MONITORING WELL SAMPLING LOG



Date: 15/8/18
 Site Address: 151 O'Riordan St, West car
 Start Time: 12.28
 Monitor Well No: MW4
 Well Head Condition: NW
 Project No: 1116
 Finish Time: _____
 Sampling Method: 100ml
 Recorded by: ST

H = High M = Medium L = Low
 X = Not present Y = Yes N = No
 Note: Do not smell for HC odour, however
 inadvertent observations should be noted.
 All ACT sites must be tested for ethanol.

| Well ID | Well Diameter (mm) | Depth to LNAPL (mbroc) | Depth to Water (mbroc) | LNAPL Thickness (m) | Total Well Depth (mbroc) | Sample Filtered | HC Odour | Sheen | Turbidity | Colour, LNAPL colour, other odours, etc. |
|---------|--------------------|------------------------|------------------------|---------------------|--------------------------|-----------------|----------|-------|-----------|--|
| MW4 | 50 | - | 1.8 | - | 6.866 | Y | N | N | low | yellow (scribble) |

Field Parameter Measurements:

| Time | Volume Purged (L) | Temp (°C) | Electrical Cond (µS/cm) | Dissolved Oxygen (DO) (mg/L) | pH | Redox Potential (ORP) (mV) | DTW | Comments |
|------|-------------------|-----------|-------------------------|------------------------------|------|----------------------------|-------|----------|
| 0838 | 1 | 20.7 | 1.8 | 5.55 | 6.10 | 191.1 | 4.605 | |
| 0838 | 2 | 20.2 | 2.1 | 3.78 | 6.30 | 111.8 | 4.607 | |
| 0839 | 3 | 20.8 | 2.1 | 3.90 | 6.09 | 88.3 | 4.609 | |
| 0842 | 4 | 20.8 | 2.1 | 4.66 | 5.99 | 98.9 | 4.610 | |
| 0846 | 5 | 20.8 | 2.1 | 5.24 | 6.00 | 137.8 | 4.611 | |



Appendix H

Laboratory
Analytical
Reports



Certificate of Analysis

Trace Environmental P/L
 Shop 2, 7 3 7 New Canterbury Road
 Dulwich Hill
 NSW 2203



NATA Accredited
 Accreditation Number 1261
 Site Number 1 217

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: Jack Ellis
 Report 61202 S
 Project name MASCO T
 Project ID 1.1
 Received Date Aug 1 2018

| Client Sample ID | | | SB 1/0.3 | SB 1/0. | SB 6/0.4 | SB 6/1.0 |
|---|------|-------|-------------|-------------|-------------|-------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S1 Au16412 | S1 Au16413 | S1 Au16414 | S1 Au16415 |
| Date Sampled | | | Aug 0 , 201 |
| Test Reference | LO R | nit | | | | |
| Total Recoverable Hydrocarbons 2013 NEPM Fractions | | | | | | |
| Naphthalene ⁹² | 0.5 | mg kg | 0.5 | | | 0.5 |
| T R H C C10 | 20 | mg kg | 20 | | | 20 |
| T R H C C10 less BT EX ⁹⁰ F1 | 20 | mg kg | 20 | | | 20 |
| T R H C10 C1 | 50 | mg kg | 50 | | | 50 |
| T R H C10 C1 less Naphthalene ⁹⁰¹ F2 | 50 | mg kg | 50 | | | 50 |
| T R H C1 C | 100 | mg kg | 100 | | | 1 0 |
| T R H C C 0 | 100 | mg kg | 100 | | | 100 |
| T R H C10 C 0 total | 100 | mg kg | 100 | | | 1 0 |
| Total Recoverable Hydrocarbons 1 NEPM Fractions | | | | | | |
| T R H C C | 20 | mg kg | 20 | | | 20 |
| T R H C10 C1 | 20 | mg kg | 20 | | | 20 |
| T R H C15 C28 | 50 | mg kg | 50 | | | |
| T R H C2 C | 50 | mg kg | 50 | | | 100 |
| T R H C10 T otal | 50 | mg kg | 50 | | | 1 |
| B TEX | | | | | | |
| Ben ene | 0.1 | mg kg | 0.1 | | | 0.1 |
| T oluene | 0.1 | mg kg | 0.1 | | | 0.1 |
| Ethylben ene | 0.1 | mg kg | 0.1 | | | 0.1 |
| m p X ylenes | 0.2 | mg kg | 0.2 | | | 0.2 |
| o X ylene | 0.1 | mg kg | 0.1 | | | 0.1 |
| X ylenes T otal | 0. | mg kg | 0. | | | 0. |
| Bromofluoroben ene surr. | 1 | | 1 1 | | | 108 |
| V olatile Organics | | | | | | |
| 1.1 Dichloroethane | 0.5 | mg kg | 0.5 | | | |
| 1.1 Dichloroethane | 0.5 | mg kg | 0.5 | | | |
| 1.1.1 T richloroethane | 0.5 | mg kg | 0.5 | | | |
| 1.1.1.2 T etrachloroethane | 0.5 | mg kg | 0.5 | | | |
| 1.1.2 T richloroethane | 0.5 | mg kg | 0.5 | | | |
| 1.1.2.2 T etrachloroethane | 0.5 | mg kg | 0.5 | | | |
| 1.2 Dibromoethane | 0.5 | mg kg | 0.5 | | | |
| 1.2 Dichloroben ene | 0.5 | mg kg | 0.5 | | | |
| 1.2 Dichloroethane | 0.5 | mg kg | 0.5 | | | |
| 1.2 Dichloropropane | 0.5 | mg kg | 0.5 | | | |
| 1.2. T richloropropane | 0.5 | mg kg | 0.5 | | | |
| 1.2. T rimethylben ene | 0.5 | mg kg | 0.5 | | | |



| Client Sample ID | | | SB 1/0.3 | SB 1/0. | SB 6/0.4 | SB 6/1.0 |
|---------------------------------|-----|-------|-------------|-------------|-------------|-------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S1 Au16412 | S1 Au16413 | S1 Au16414 | S1 Au1641 |
| Date Sampled | | | Aug 0 , 201 |
| Test Reference | LOR | nit | | | | |
| Volatile Organics | | | | | | |
| 1. Dichlorobenzene | 0.5 | mg kg | 0.5 | | | |
| 1. Dichloropropane | 0.5 | mg kg | 0.5 | | | |
| 1.5 Trimethylbenzene | 0.5 | mg kg | 0.5 | | | |
| 1. Dichlorobenzene | 0.5 | mg kg | 0.5 | | | |
| 2 Butanone MEK | 0.5 | mg kg | 0.5 | | | |
| 2 Propanone Acetone | 0.5 | mg kg | 0.5 | | | |
| Chlorotoluene | 0.5 | mg kg | 0.5 | | | |
| Methyl 2 pentanone MIBK | 0.5 | mg kg | 0.5 | | | |
| Allyl chloride | 0.5 | mg kg | 0.5 | | | |
| Benzene | 0.1 | mg kg | 0.1 | | | |
| Bromobenzene | 0.5 | mg kg | 0.5 | | | |
| Bromochloromethane | 0.5 | mg kg | 0.5 | | | |
| Bromodichloromethane | 0.5 | mg kg | 0.5 | | | |
| Bromoform | 0.5 | mg kg | 0.5 | | | |
| Bromomethane | 0.5 | mg kg | 0.5 | | | |
| Carbon disulfide | 0.5 | mg kg | 0.5 | | | |
| Carbon Tetrachloride | 0.5 | mg kg | 0.5 | | | |
| Chlorobenzene | 0.5 | mg kg | 0.5 | | | |
| Chloroethane | 0.5 | mg kg | 0.5 | | | |
| Chloroform | 0.5 | mg kg | 0.5 | | | |
| Chloromethane | 0.5 | mg kg | 0.5 | | | |
| cis 1,2 Dichloroethene | 0.5 | mg kg | 0.5 | | | |
| cis 1,2 Dichloropropene | 0.5 | mg kg | 0.5 | | | |
| Dibromochloromethane | 0.5 | mg kg | 0.5 | | | |
| Dibromomethane | 0.5 | mg kg | 0.5 | | | |
| Dichlorodifluoromethane | 0.5 | mg kg | 0.5 | | | |
| Ethylbenzene | 0.1 | mg kg | 0.1 | | | |
| Iodomethane | 0.5 | mg kg | 0.5 | | | |
| Isopropylbenzene Cumene | 0.5 | mg kg | 0.5 | | | |
| m,p Xylenes | 0.2 | mg kg | 0.2 | | | |
| Methylene Chloride | 0.5 | mg kg | 0.5 | | | |
| o Xylene | 0.1 | mg kg | 0.1 | | | |
| Styrene | 0.5 | mg kg | 0.5 | | | |
| Tetrachloroethene | 0.5 | mg kg | 0.5 | | | |
| Toluene | 0.1 | mg kg | 0.1 | | | |
| trans 1,2 Dichloroethene | 0.5 | mg kg | 0.5 | | | |
| trans 1,2 Dichloropropene | 0.5 | mg kg | 0.5 | | | |
| Trichloroethene | 0.5 | mg kg | 0.5 | | | |
| Trichlorofluoromethane | 0.5 | mg kg | 0.5 | | | |
| Vinyl chloride | 0.5 | mg kg | 0.5 | | | |
| Xylenes Total | 0. | mg kg | 0. | | | |
| Total MAH | 0.5 | mg kg | 0.5 | | | |
| Vic EPA IWRG 21 CHC Total | 0.5 | mg kg | 0.5 | | | |
| Vic EPA IWRG 21 Other CHC Total | 0.5 | mg kg | 0.5 | | | |
| Bromofluorobenzene surr. | 1 | | 1 | | | |
| Toluene d8 surr. | 1 | | 115 | | | |



| Client Sample ID | | | SB 1/0.3 | SB 1/0. | SB 6/0.4 | SB 6/1.0 |
|---|------|-------|-------------|-------------|-------------|-------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S1 Au16412 | S1 Au16413 | S1 Au16414 | S1 Au1641 |
| Date Sampled | | | Aug 0 , 201 |
| Test Reference | LOR | nit | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | | | |
| Ben o a pyrene T EQ lower bound | 0.5 | mg kg | 0.5 | 2.2 | | 1.0 |
| Ben o a pyrene T EQ medium bound | 0.5 | mg kg | 0. | 2.5 | | 1. |
| Ben o a pyrene T EQ upper bound | 0.5 | mg kg | 1.2 | 2. | | 1.5 |
| 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. | | 0.5 |
| Ben a anthracene | 0.5 | mg kg | 0.5 | 1. | | 0.5 |
| Ben o a pyrene | 0.5 | mg kg | 0.5 | 1. | | 0.8 |
| Ben o b fluoranthene | 0.5 | mg kg | 0.5 | 1. | | 0. |
| Ben o g,h,i perylene | 0.5 | mg kg | 0.5 | 1.0 | | 0.5 |
| Ben o k fluoranthene | 0.5 | mg kg | 0.5 | 1.0 | | 0. |
| Chrysene | 0.5 | mg kg | 0.5 | 1.5 | | 0. |
| Diben a,h anthracene | 0.5 | mg kg | 0.5 | 0.5 | | 0.5 |
| Fluoranthene | 0.5 | mg kg | 0.5 | .0 | | 0. |
| Fluorene | 0.5 | mg kg | 0.5 | 0.5 | | 0.5 |
| Indeno 1,2, cd pyrene | 0.5 | mg kg | 0.5 | 0.8 | | 0. |
| Naphthalene | 0.5 | mg kg | 0.5 | 0.5 | | 0.5 |
| Phenanthrene | 0.5 | mg kg | 0.5 | .1 | | 0.5 |
| Pyrene | 0.5 | mg kg | 0.5 | .1 | | 1.0 |
| T otal PAH | 0.5 | mg kg | 0.5 | 18. | | 5.2 |
| 2 Fluorobiphenyl surr. | 1 | | | 121 | | 10 |
| p Terphenyl d1 surr. | 1 | | 10 | 10 | | 11 |
| Organochlorine Pesticides | | | | | | |
| Chlordanes T otal | 0.1 | mg kg | | 0.1 | 0.1 | |
| . DDD | 0.05 | mg kg | | 0.05 | 0.05 | |
| . DDE | 0.05 | mg kg | | 0.05 | 0.05 | |
| . DDT | 0.05 | mg kg | | 0.05 | 0.05 | |
| a BHC | 0.05 | mg kg | | 0.05 | 0.05 | |
| Aldrin | 0.05 | mg kg | | 0.05 | 0.05 | |
| b BHC | 0.05 | mg kg | | 0.05 | 0.05 | |
| d BHC | 0.05 | mg kg | | 0.05 | 0.05 | |
| Dieldrin | 0.05 | mg kg | | 0.05 | 0.05 | |
| Endosulfan I | 0.05 | mg kg | | 0.05 | 0.05 | |
| Endosulfan II | 0.05 | mg kg | | 0.05 | 0.05 | |
| Endosulfan sulphate | 0.05 | mg kg | | 0.05 | 0.05 | |
| Endrin | 0.05 | mg kg | | 0.05 | 0.05 | |
| Endrin aldehyde | 0.05 | mg kg | | 0.05 | 0.05 | |
| Endrin ketone | 0.05 | mg kg | | 0.05 | 0.05 | |
| g BHC Lindane | 0.05 | mg kg | | 0.05 | 0.05 | |
| Heptachlor | 0.05 | mg kg | | 0.05 | 0.05 | |
| Heptachlor epoxide | 0.05 | mg kg | | 0.05 | 0.05 | |
| Hexachlorobene | 0.05 | mg kg | | 0.05 | 0.05 | |
| Methoxychlor | 0.05 | mg kg | | 0.05 | 0.05 | |
| T oxaphene | 1 | mg kg | | 1 | 1 | |
| Aldrin and Dieldrin T otal | 0.05 | mg kg | | 0.05 | 0.05 | |
| DDT DDE DDD T otal | 0.05 | mg kg | | 0.05 | 0.05 | |
| V ic EPA IWRG 21 OCP T otal | 0.1 | mg kg | | 0.1 | 0.1 | |
| V ic EPA IWRG 21 O ther OCP T otal | 0.1 | mg kg | | 0.1 | 0.1 | |
| Dibutylchloride surr. | 1 | | | 105 | 11 | |
| T etrachloro m xylene surr. | 1 | | | | 8 | |



| Client Sample ID | | | SB 1/0.3 | SB 1/0. | SB 6/0.4 | SB 6/1.0 |
|------------------------------------|-----|-------|-------------|-------------|-------------|-------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S1 Au16412 | S1 Au16413 | S1 Au16414 | S1 Au1641 |
| Date Sampled | | | Aug 0 , 201 |
| Test Reference | LOR | nit | | | | |
| Organophosphorus Pesticides | | | | | | |
| A inphos 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 | |
| Dia inon | 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 | |
| O methoate | 2 | mg kg | | 2 | 2 | |
| Phorate | 0.2 | mg kg | | 0.2 | 0.2 | |
| Pirimiphos methyl | 0.2 | mg kg | | 0.2 | 0.2 | |
| Pyra ophos | 0.2 | mg kg | | 0.2 | 0.2 | |
| Ronnel | 0.2 | mg kg | | 0.2 | 0.2 | |
| T erbufos | 0.2 | mg kg | | 0.2 | 0.2 | |
| T etrachlorvinphos | 0.2 | mg kg | | 0.2 | 0.2 | |
| T okuthion | 0.2 | mg kg | | 0.2 | 0.2 | |
| T richloronate | 0.2 | mg kg | | 0.2 | 0.2 | |
| T riphénylphosphate surr. | 1 | | | | 120 | |
| Polychlorinated B iphenyls | | | | | | |
| Aroclor 101 | 0.1 | mg kg | | 0.1 | 1 | |
| Aroclor 1221 | 0.1 | mg kg | | 0.1 | 1 | |
| Aroclor 12 2 | 0.1 | mg kg | | 0.1 | 1 | |
| Aroclor 12 2 | 0.1 | mg kg | | 0.1 | 1 | |
| Aroclor 12 8 | 0.1 | mg kg | | 0.1 | 1 | |
| Aroclor 125 | 0.1 | mg kg | | 0.1 | 1 | |
| Aroclor 12 0 | 0.1 | mg kg | | 0.1 | 1 | |
| T otal PCB | 0.1 | mg kg | | 0.1 | 1 | |
| Dibutylchloroendate surr. | 1 | | | 105 | 11 | |
| T etrachloro m xylene surr. | 1 | | | | 8 | |



| | | | | | | |
|--|------|----------|-------------|-------------|-------------|-------------|
| Client Sample ID | | | SB 1/0.3 | SB 1/0. | SB 6/0.4 | SB 6/1.0 |
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S1 Au16412 | S1 Au16413 | S1 Au16414 | S1 Au1641 |
| Date Sampled | | | Aug 0 , 201 |
| Test Reference | LOR | nit | | | | |
| Clay | 1 | | | . | | |
| Conductivity (1:5 aqueous extract at 25°C as rec.) | 10 | uS cm | | 2 0 | | |
| pH (units)(1:5 soil:CaCl2 extract at 25°C as rec.) | 0.1 | pH nits | | . | | |
| Total Organic Carbon | 0.1 | | | 0.5 | | |
| Cation Exchange Capacity | 0.05 | meq 100g | | 1 | | |
| Iron | 0.01 | | | 1.0 | | |
| Moisture | 1 | | 2. | . | . | .2 |
| Heavy Metals | | | | | | |
| Arsenic | 2 | mg kg | 2.1 | 1 | | 5 |
| Cadmium | 0. | mg kg | 0. | 0. | | 0. |
| Chromium | 5 | mg kg | 8. | 1 | | |
| Copper | 5 | mg kg | | 0 | | 1 0 |
| Iron | 20 | mg kg | | 10000 | | |
| Lead | 5 | mg kg | 22 | 0 | | 0 |
| Mercury | 0.1 | mg kg | 0.1 | 0.1 | | 0. |
| Nickel | 5 | mg kg | 5 | . | | 120 |
| inc | 5 | mg kg | 2 | 1 0 | | 1100 |

| | | | | | | |
|--|-----|-------|-------------|-------------|-------------|-------------|
| Client Sample ID | | | SB 6/2.6 | SB 6/3.2 | SB 6/4. | SB 11/0.2 |
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S1 Au16416 | S1 Au16417 | S1 Au1641 | S1 Au1641 |
| Date Sampled | | | Aug 0 , 201 |
| Test Reference | LOR | nit | | | | |
| Total Recoverable Hydrocarbons 2013 NEPM Fractions | | | | | | |
| Naphthalene ⁰² | 0.5 | mg kg | 0.5 | | 0.5 | |
| T RH C C10 | 20 | mg kg | 20 | | 20 | |
| T RH C C10 less BT EX ⁰ F1 | 20 | mg kg | 20 | | 20 | |
| T RH C10 C1 | 50 | mg kg | 50 | | 50 | |
| T RH C10 C1 less Naphthalene ⁰¹ F2 | 50 | mg kg | 50 | | 50 | |
| T RH C1 C | 100 | mg kg | 100 | | 100 | |
| T RH C C 0 | 100 | mg kg | 100 | | 100 | |
| T RH C10 C 0 total | 100 | mg kg | 100 | | 100 | |
| Total Recoverable Hydrocarbons 1 NEPM Fractions | | | | | | |
| T RH C C | 20 | mg kg | 20 | | 20 | |
| T RH C10 C1 | 20 | mg kg | 20 | | 20 | |
| T RH C15 C28 | 50 | mg kg | 50 | | 50 | |
| T RH C2 C | 50 | mg kg | 50 | | 50 | |
| T RH C10 T otal | 50 | mg kg | 50 | | 50 | |
| B TEX | | | | | | |
| Ben ene | 0.1 | mg kg | 0.1 | | 0.1 | |
| T oluene | 0.1 | mg kg | 0.1 | | 0.1 | |
| Ethylben ene | 0.1 | mg kg | 0.1 | | 0.1 | |
| m p X ylenes | 0.2 | mg kg | 0.2 | | 0.2 | |
| o X ylene | 0.1 | mg kg | 0.1 | | 0.1 | |
| X ylenes T otal | 0. | mg kg | 0. | | 0. | |
| Bromofluoroben ene surr. | 1 | | 10 | | 1 5 | |



| Client Sample ID | | | SB 6/2.6 | SB 6/3.2 | SB 6/4. | SB 11/0.2 |
|---|------|-------|-------------|-------------|-------------|-------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S1 Au16416 | S1 Au16417 | S1 Au16418 | S1 Au16419 |
| Date Sampled | | | Aug 0 , 201 |
| Test Reference | LOR | nit | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | | | |
| Ben o a pyrene T EQ lower bound | 0.5 | mg kg | 0.5 | | 0.5 | |
| Ben o a pyrene T EQ medium bound | 0.5 | mg kg | 0. | | 0. | |
| Ben o a pyrene T EQ 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 | |
| Ben a anthracene | 0.5 | mg kg | 0.5 | | 0.5 | |
| Ben o a pyrene | 0.5 | mg kg | 0.5 | | 0.5 | |
| Ben o b fluoranthene | 0.5 | mg kg | 0.5 | | 0.5 | |
| Ben o g,h,i perylene | 0.5 | mg kg | 0.5 | | 0.5 | |
| Ben o k fluoranthene | 0.5 | mg kg | 0.5 | | 0.5 | |
| Chrysene | 0.5 | mg kg | 0.5 | | 0.5 | |
| Diben 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, 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 | |
| T otal PAH | 0.5 | mg kg | 0.5 | | 0.5 | |
| 2 Fluorobiphenyl surr. | 1 | | 112 | | 11 | |
| p Terphenyl d1 surr. | 1 | | 128 | | 1 | |
| Organochlorine Pesticides | | | | | | |
| Chlordanes T otal | 0.1 | mg kg | | 0.1 | | 0.1 |
| . DDD | 0.05 | mg kg | | 0.05 | | 0.05 |
| . DDE | 0.05 | mg kg | | 0.05 | | 0.05 |
| . DDT | 0.05 | mg kg | | 0.05 | | 0.05 |
| a BHC | 0.05 | mg kg | | 0.05 | | 0.05 |
| Aldrin | 0.05 | mg kg | | 0.05 | | 0.05 |
| b BHC | 0.05 | mg kg | | 0.05 | | 0.05 |
| d BHC | 0.05 | mg kg | | 0.05 | | 0.05 |
| Dieldrin | 0.05 | mg kg | | 0.05 | | 0.05 |
| Endosulfan I | 0.05 | mg kg | | 0.05 | | 0.05 |
| Endosulfan II | 0.05 | mg kg | | 0.05 | | 0.05 |
| Endosulfan sulphate | 0.05 | mg kg | | 0.05 | | 0.05 |
| Endrin | 0.05 | mg kg | | 0.05 | | 0.05 |
| Endrin aldehyde | 0.05 | mg kg | | 0.05 | | 0.05 |
| Endrin ketone | 0.05 | mg kg | | 0.05 | | 0.05 |
| g BHC Lindane | 0.05 | mg kg | | 0.05 | | 0.05 |
| Heptachlor | 0.05 | mg kg | | 0.05 | | 0.05 |
| Heptachlor epoxide | 0.05 | mg kg | | 0.05 | | 0.05 |
| Hexachlorobene | 0.05 | mg kg | | 0.05 | | 0.05 |
| Methoxychlor | 0.05 | mg kg | | 0.05 | | 0.05 |
| T oxaphene | 1 | mg kg | | 1 | | 1 |
| Aldrin and Dieldrin T otal | 0.05 | mg kg | | 0.05 | | 0.05 |
| DDT DDE DDD T otal | 0.05 | mg kg | | 0.05 | | 0.05 |
| V ic EPA IWRG 21 OCP T otal | 0.1 | mg kg | | 0.1 | | 0.1 |
| V ic EPA IWRG 21 O ther OCP T otal | 0.1 | mg kg | | 0.1 | | 0.1 |
| Dibutylchloride surr. | 1 | | | | | 0 |
| T etrachloro m xylene surr. | 1 | | | 0 | | |



| Client Sample ID | | | SB 6/2.6 | SB 6/3.2 | SB 6/4. | SB 11/0.2 |
|------------------------------------|-----|-------|-------------|-------------|-------------|-------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S1 Au16416 | S1 Au16417 | S1 Au16418 | S1 Au16419 |
| Date Sampled | | | Aug 0 , 201 |
| Test Reference | LOR | nit | | | | |
| Organophosphorus Pesticides | | | | | | |
| A inphos 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 |
| Dia inon | 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 |
| O methoate | 2 | mg kg | | 2 | | 2 |
| Phorate | 0.2 | mg kg | | 0.2 | | 0.2 |
| Pirimiphos methyl | 0.2 | mg kg | | 0.2 | | 0.2 |
| Pyra ophos | 0.2 | mg kg | | 0.2 | | 0.2 |
| Ronnel | 0.2 | mg kg | | 0.2 | | 0.2 |
| T erbufos | 0.2 | mg kg | | 0.2 | | 0.2 |
| T etrachlorvinphos | 0.2 | mg kg | | 0.2 | | 0.2 |
| T okuthion | 0.2 | mg kg | | 0.2 | | 0.2 |
| T richloronate | 0.2 | mg kg | | 0.2 | | 0.2 |
| T riphénylphosphate surr. | 1 | | | 10 | | 8 |
| Polychlorinated B iphenyls | | | | | | |
| Aroclor 101 | 0.1 | mg kg | | 0.1 | | 0.1 |
| Aroclor 1221 | 0.1 | mg kg | | 0.1 | | 0.1 |
| Aroclor 12 2 | 0.1 | mg kg | | 0.1 | | 0.1 |
| Aroclor 12 2 | 0.1 | mg kg | | 0.1 | | 0.1 |
| Aroclor 12 8 | 0.1 | mg kg | | 0.1 | | 0.1 |
| Aroclor 125 | 0.1 | mg kg | | 0.1 | | 0.1 |
| Aroclor 12 0 | 0.1 | mg kg | | 0.1 | | 0.1 |
| T otal PCB | 0.1 | mg kg | | 0.1 | | 0.1 |
| Dibutylchloroendate surr. | 1 | | | | | 0 |
| T etrachloro m xylene surr. | 1 | | | 0 | | |



| Client Sample ID | | | SB 6/2.6 | SB 6/3.2 | SB 6/4. | SB 11/0.2 |
|--|------|----------|-------------|-------------|-------------|-------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S1 Au16416 | S1 Au16417 | S1 Au16418 | S1 Au16419 |
| Date Sampled | | | Aug 0 , 201 |
| Test Reference | LO R | nit | | | | |
| Phenols (Halogenated) | | | | | | |
| 2 Chlorophenol | 0.5 | mg kg | | | 0.5 | |
| 2,4 Dichlorophenol | 0.5 | mg kg | | | 0.5 | |
| 2,4,6 Trichlorophenol | 1 | mg kg | | | 1 | |
| 2,4,6 Trichlorophenol | 1.0 | mg kg | | | 1 | |
| 2,4 Dichlorophenol | 0.5 | mg kg | | | 0.5 | |
| Chloro methylphenol | 1.0 | mg kg | | | 1 | |
| Pentachlorophenol | 1.0 | mg kg | | | 1 | |
| Tetrachlorophenols Total | 1.0 | mg kg | | | 1 | |
| Total Halogenated Phenol | 1 | mg kg | | | 1 | |
| Phenols (non Halogenated) | | | | | | |
| 2 Cyclohexyl dinitrophenol | 20 | mg kg | | | 20 | |
| 2 Methyl dinitrophenol | 5 | mg kg | | | 5 | |
| 2 Methylphenol o Cresol | 0.2 | mg kg | | | 0.2 | |
| 2 Nitrophenol | 1.0 | mg kg | | | 1 | |
| 2,4 Dimethylphenol | 0.5 | mg kg | | | 0.5 | |
| 2,4 Dinitrophenol | 5 | mg kg | | | 5 | |
| Methylphenol m p Cresol | 0. | mg kg | | | 0. | |
| Nitrophenol | 5 | mg kg | | | 5 | |
| Dinoseb | 20 | mg kg | | | 20 | |
| Phenol | 0.5 | mg kg | | | 0.5 | |
| Total Non Halogenated Phenol | 20 | mg kg | | | 20 | |
| Phenol durr. | 1 | | | | 118 | |
| Physical Properties | | | | | | |
| Clay | 1 | | 1 | | | |
| Conductivity (1:5 aqueous extract at 25°C as rec.) | 10 | uS cm | | | | |
| pH (units)(1:5 soil:CaCl2 extract at 25°C as rec.) | 0.1 | pH units | | | | |
| Total Organic Carbon | 0.1 | | 0.1 | | | |
| Cation Exchange Capacity | 0.05 | meq 100g | 1.1 | | | |
| Iron | 0.01 | | 0.01 | | | |
| Moisture | 1 | | 1. | 5.2 | 1 | |
| Heavy Metals | | | | | | |
| Arsenic | 2 | mg kg | 2 | | 2 | |
| Cadmium | 0. | mg kg | 0. | | 0. | |
| Chromium | 5 | mg kg | 5 | | 5 | |
| Copper | 5 | mg kg | 5 | | 5 | |
| Iron | 20 | mg kg | 1 0 | | | |
| Lead | 5 | mg kg | 5 | | 5 | |
| Mercury | 0.1 | mg kg | 0.1 | | 0.1 | |
| Nickel | 5 | mg kg | 5 | | 5 | |
| inc | 5 | mg kg | 1 | | 21 | |



| Client Sample ID | | | SB 11/0. | SB 11/1.2 | SB 11/1.6 | SB 11/4.4 |
|---|------|-------|-------------|-------------|-------------|-------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S1 Au16420 | S1 Au16421 | S1 Au16422 | S1 Au16423 |
| Date Sampled | | | Aug 0 , 201 |
| Test Reference | LO R | nit | | | | |
| Total Recoverable Hydrocarbons 2013 NEPM Fractions | | | | | | |
| Naphthalen ⁰⁰² | 0.5 | mg kg | 0.5 | | 0.5 | 0.5 |
| T RH C C10 | 20 | mg kg | 20 | | 20 | 20 |
| T RH C C10 less BT EX ⁰⁰ F1 | 20 | mg kg | 20 | | 20 | 20 |
| T RH C10 C1 | 50 | mg kg | 50 | | 2 | 50 |
| T RH C10 C1 less Naphthalen ⁰⁰¹ F2 | 50 | mg kg | 50 | | 2 | 50 |
| T RH C1 C | 100 | mg kg | 1 0 | | 80 | 100 |
| T RH C C 0 | 100 | mg kg | 100 | | 100 | 100 |
| T RH C10 C 0 total | 100 | mg kg | 1 0 | | 5 2 | 100 |
| Total Recoverable Hydrocarbons 1 NEPM Fractions | | | | | | |
| T RH C C | 20 | mg kg | 20 | | 20 | 20 |
| T RH C10 C1 | 20 | mg kg | 20 | | 0 | 20 |
| T RH C15 C28 | 50 | mg kg | 0 | | 50 | 50 |
| T RH C2 C | 50 | mg kg | 1 | | | 50 |
| T RH C10 T otal | 50 | mg kg | 1 1 | | 50 | 50 |
| B TEX | | | | | | |
| Ben ene | 0.1 | mg kg | 0.1 | | 0.1 | 0.1 |
| T oluene | 0.1 | mg kg | 0.1 | | 0.1 | 0.1 |
| Ethylben ene | 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 |
| X ylenes T otal | 0. | mg kg | 0. | | 0. | 0. |
| Bromofluoroben ene surr. | 1 | | 11 | | 100 | 11 |
| V olatile Organics | | | | | | |
| 1.1 Dichloroethane | 0.5 | mg kg | | | 0.5 | |
| 1.1 Dichloroethene | 0.5 | mg kg | | | 0.5 | |
| 1.1.1 T richloroethane | 0.5 | mg kg | | | 0.5 | |
| 1.1.1.2 T etrachloroethane | 0.5 | mg kg | | | 0.5 | |
| 1.1.2 T richloroethane | 0.5 | mg kg | | | 0.5 | |
| 1.1.2.2 T etrachloroethane | 0.5 | mg kg | | | 0.5 | |
| 1.2 Dibromoethane | 0.5 | mg kg | | | 0.5 | |
| 1.2 Dichloroben ene | 0.5 | mg kg | | | 0.5 | |
| 1.2 Dichloroethane | 0.5 | mg kg | | | 0.5 | |
| 1.2 Dichloropropane | 0.5 | mg kg | | | 0.5 | |
| 1.2. T richloropropane | 0.5 | mg kg | | | 0.5 | |
| 1.2. T rimethylben ene | 0.5 | mg kg | | | 0.5 | |
| 1. Dichloroben ene | 0.5 | mg kg | | | 0.5 | |
| 1. Dichloropropane | 0.5 | mg kg | | | 0.5 | |
| 1. .5 T rimethylben ene | 0.5 | mg kg | | | 0.5 | |
| 1. Dichloroben ene | 0.5 | mg kg | | | 0.5 | |
| 2 Butanone MEK | 0.5 | mg kg | | | 0.5 | |
| 2 Propanone Acetone | 0.5 | mg kg | | | 0.5 | |
| Chlorotoluene | 0.5 | mg kg | | | 0.5 | |
| Methyl 2 pentanone MIBK | 0.5 | mg kg | | | 0.5 | |
| Allyl chloride | 0.5 | mg kg | | | 0.5 | |
| Ben ene | 0.1 | mg kg | | | 0.1 | |
| Bromoben ene | 0.5 | mg kg | | | 0.5 | |
| Bromochloromethane | 0.5 | mg kg | | | 0.5 | |
| Bromodichloromethane | 0.5 | mg kg | | | 0.5 | |
| Bromofom | 0.5 | mg kg | | | 0.5 | |



| Client Sample ID | | | SB 11/0. | SB 11/1.2 | SB 11/1.6 | SB 11/4.4 |
|---|-----|-------|-------------|-------------|-------------|-------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S1 Au16420 | S1 Au16421 | S1 Au16422 | S1 Au16423 |
| Date Sampled | | | Aug 0 , 201 |
| Test Reference | LOR | nit | | | | |
| Volatile Organics | | | | | | |
| Bromomethane | 0.5 | mg kg | | | 0.5 | |
| Carbon disulfide | 0.5 | mg kg | | | 0.5 | |
| Carbon Tetrachloride | 0.5 | mg kg | | | 0.5 | |
| Chlorobenzene | 0.5 | mg kg | | | 0.5 | |
| Chloroethane | 0.5 | mg kg | | | 0.5 | |
| Chloroform | 0.5 | mg kg | | | 0.5 | |
| Chloromethane | 0.5 | mg kg | | | 0.5 | |
| cis 1,2 Dichloroethene | 0.5 | mg kg | | | 0.5 | |
| cis 1,3 Dichloropropene | 0.5 | mg kg | | | 0.5 | |
| Dibromochloromethane | 0.5 | mg kg | | | 0.5 | |
| Dibromomethane | 0.5 | mg kg | | | 0.5 | |
| Dichlorodifluoromethane | 0.5 | mg kg | | | 0.5 | |
| Ethylbenzene | 0.1 | mg kg | | | 0.1 | |
| Iodomethane | 0.5 | mg kg | | | 0.5 | |
| Isopropylbenzene Cumene | 0.5 | mg kg | | | 0.5 | |
| m,p Xylenes | 0.2 | mg kg | | | 0.2 | |
| Methylene Chloride | 0.5 | mg kg | | | 0.5 | |
| o-Xylene | 0.1 | mg kg | | | 0.1 | |
| Styrene | 0.5 | mg kg | | | 0.5 | |
| Tetrachloroethene | 0.5 | mg kg | | | 0.5 | |
| Toluene | 0.1 | mg kg | | | 0.1 | |
| trans 1,2 Dichloroethene | 0.5 | mg kg | | | 0.5 | |
| trans 1,3 Dichloropropene | 0.5 | mg kg | | | 0.5 | |
| Trichloroethene | 0.5 | mg kg | | | 0.5 | |
| Trichlorofluoromethane | 0.5 | mg kg | | | 0.5 | |
| Vinyl chloride | 0.5 | mg kg | | | 0.5 | |
| Xylenes Total | 0. | mg kg | | | 0. | |
| Total MAH | 0.5 | mg kg | | | 0.5 | |
| Vic EPA IWRG 21 CHC Total | 0.5 | mg kg | | | 0.5 | |
| Vic EPA IWRG 21 Other CHC Total | 0.5 | mg kg | | | 0.5 | |
| Bromofluorobenzene surr. | 1 | | | | 100 | |
| Toluene d8 surr. | 1 | | | | 102 | |
| 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. | 0. | 0. | 0. |
| 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 |
| Benzo[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]fluoranthene | 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 |



| Client Sample ID | | | SB 11/0. | SB 11/1.2 | SB 11/1.6 | SB 11/4.4 |
|---|-----|-------|-------------|-------------|-------------|-------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S1 Au16420 | S1 Au16421 | S1 Au16422 | S1 Au16423 |
| Date Sampled | | | Aug 0 , 201 |
| Test Reference | LOR | nit | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | | | |
| Naphthalene | 0.5 | mg kg | 0.5 | 0.5 | .0 | 0.5 |
| Phenanthrene | 0.5 | mg kg | 0.5 | 0. | 1. | 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 |
| 2 Fluorobiphenyl surr. | 1 | | 108 | 10 | 10 | 11 |
| p Terphenyl d1 surr. | 1 | | 11 | 11 | 10 | 1 |
| Phenols (Halogenated) | | | | | | |
| 2 Chlorophenol | 0.5 | mg kg | 0.5 | | | 0.5 |
| 2,4 Dichlorophenol | 0.5 | mg kg | 0.5 | | | 0.5 |
| 2,4,6 Trichlorophenol | 1 | mg kg | 1 | | | 1 |
| 2,4,6 Trichlorophenol | 1.0 | mg kg | 1 | | | 1 |
| 2,4 Dichlorophenol | 0.5 | mg kg | 0.5 | | | 0.5 |
| Chloro methylphenol | 1.0 | mg kg | 1 | | | 1 |
| Pentachlorophenol | 1.0 | mg kg | 1 | | | 1 |
| Tetrachlorophenols Total | 1.0 | mg kg | 1 | | | 1 |
| Total Halogenated Phenol | 1 | mg kg | 1 | | | 1 |
| Phenols (non Halogenated) | | | | | | |
| 2 Cyclohexyl dinitrophenol | 20 | mg kg | 20 | | | 20 |
| 2 Methyl dinitrophenol | 5 | mg kg | 5 | | | 5 |
| 2 Methylphenol o Cresol | 0.2 | mg kg | 0.2 | | | 0.2 |
| 2 Nitrophenol | 1.0 | mg kg | 1 | | | 1 |
| 2,4 Dimethylphenol | 0.5 | mg kg | 0.5 | | | 0.5 |
| 2,4 Dinitrophenol | 5 | mg kg | 5 | | | 5 |
| Methylphenol m p Cresol | 0. | mg kg | 0. | | | 0. |
| Nitrophenol | 5 | mg kg | 5 | | | 5 |
| Dinoseb | 20 | mg kg | 20 | | | 20 |
| Phenol | 0.5 | mg kg | 0.5 | | | 0.5 |
| Total Non Halogenated Phenol | 20 | mg kg | 20 | | | 20 |
| Phenol d surr. | 1 | | 10 | | | 11 |
| Moisture | | | | | | |
| Moisture | 1 | | 5.8 | 1 | 0 | 1 |
| Heavy Metals | | | | | | |
| Arsenic | 2 | mg kg | . | .8 | 2 | 2 |
| Cadmium | 0. | mg kg | 0. | 0. | . | 0. |
| Chromium | 5 | mg kg | 12 | 1 | 22 | 5 |
| Copper | 5 | mg kg | 0 | 5 | 150 | 5 |
| Lead | 5 | mg kg | 1 0 | 280 | 100 | 5 |
| Mercury | 0.1 | mg kg | 0.1 | 0.1 | 0.2 | 0.1 |
| Nickel | 5 | mg kg | 11 | 18 | 5 | 5 |
| inc | 5 | mg kg | 0 | 1 00 | 2 00 | 5 |



| | | | | | | |
|--|------|-------|-------------|-------------|-------------|-------------|
| Client Sample ID | | | SB 11/ .0 | SB 14/0.2 | SB 14/0. | SB 14/1.2 |
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S1 Au16424 | S1 Au1642 | S1 Au16426 | S1 Au16427 |
| Date Sampled | | | Aug 0 , 201 | Aug 10, 201 | Aug 10, 201 | Aug 10, 201 |
| Test Reference | LO R | nit | | | | |
| Total Recoverable Hydrocarbons 2013 NEPM Fractions | | | | | | |
| Naphthalen ⁰² | 0.5 | mg kg | | 0.5 | | |
| T RH C C10 | 20 | mg kg | | 20 | | |
| T RH C C10 less BT EX ⁰⁰ F1 | 20 | mg kg | | 20 | | |
| T RH C10 C1 | 50 | mg kg | | 50 | | |
| T RH C10 C1 less Naphthalen ⁰⁰¹ F2 | 50 | mg kg | | 50 | | |
| T RH C1 C | 100 | mg kg | | 100 | | |
| T RH C C 0 | 100 | mg kg | | 100 | | |
| T RH C10 C 0 total | 100 | mg kg | | 100 | | |
| Total Recoverable Hydrocarbons 1 NEPM Fractions | | | | | | |
| T RH C C | 20 | mg kg | | 20 | | |
| T RH C10 C1 | 20 | mg kg | | 20 | | |
| T RH C15 C28 | 50 | mg kg | | 50 | | |
| T RH C2 C | 50 | mg kg | | 50 | | |
| T RH C10 T otal | 50 | mg kg | | 50 | | |
| B TEX | | | | | | |
| Ben ene | 0.1 | mg kg | | 0.1 | | |
| T oluene | 0.1 | mg kg | | 0.1 | | |
| Ethylben ene | 0.1 | mg kg | | 0.1 | | |
| m p X ylenes | 0.2 | mg kg | | 0.2 | | |
| o X ylene | 0.1 | mg kg | | 0.1 | | |
| X ylenes T otal | 0. | mg kg | | 0. | | |
| Bromofluoroben ene surr. | 1 | | | 111 | | |
| Polycyclic Aromatic Hydrocarbons | | | | | | |
| Ben o a pyrene T EQ lower bound | 0.5 | mg kg | | 0.5 | | . |
| Ben o a pyrene T EQ medium bound | 0.5 | mg kg | | 0. | | . |
| Ben o a pyrene T EQ upper bound | 0.5 | mg kg | | 1.2 | | . |
| Acenaphthene | 0.5 | mg kg | | 0.5 | | 0.5 |
| Acenaphthylene | 0.5 | mg kg | | 0.5 | | 0. |
| Anthracene | 0.5 | mg kg | | 0.5 | | 1.5 |
| Ben a anthracene | 0.5 | mg kg | | 0.5 | | 2. |
| Ben o a pyrene | 0.5 | mg kg | | 0.5 | | .8 |
| Ben o b fluoranthene | 0.5 | mg kg | | 0.5 | | . |
| Ben o g.h.i perylene | 0.5 | mg kg | | 0.5 | | 2.2 |
| Ben o k fluoranthene | 0.5 | mg kg | | 0.5 | | .1 |
| Chrysene | 0.5 | mg kg | | 0.5 | | . |
| Diben a.h anthracene | 0.5 | mg kg | | 0.5 | | 1. |
| Fluoranthene | 0.5 | mg kg | | 0.5 | | .1 |
| Fluorene | 0.5 | mg kg | | 0.5 | | 0. |
| Indeno 1.2. cd pyrene | 0.5 | mg kg | | 0.5 | | 2. |
| Naphthalene | 0.5 | mg kg | | 0.5 | | 0.5 |
| Phenanthrene | 0.5 | mg kg | | 0.5 | | . |
| Pyrene | 0.5 | mg kg | | 0.5 | | .2 |
| T otal PAH | 0.5 | mg kg | | 0.5 | | .1 |
| 2 Fluorobiphenyl surr. | 1 | | | 10 | | 111 |
| p Terphenyl d1 surr. | 1 | | | 1 1 | | 108 |



| Client Sample ID | | | SB 11/ .0 | SB 14/0.2 | SB 14/0. | SB 14/1.2 |
|------------------------------------|------|-------|-------------|-------------|-------------|-------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S1 Au16424 | S1 Au1642 | S1 Au16426 | S1 Au16427 |
| Date Sampled | | | Aug 0 , 201 | Aug 10, 201 | Aug 10, 201 | Aug 10, 201 |
| Test Reference | LO R | nit | | | | |
| Organochlorine Pesticides | | | | | | |
| Chlordanes Total | 0.1 | mg kg | 0.1 | | 0.1 | |
| . DDD | 0.05 | mg kg | 0.05 | | 0.05 | |
| . DDE | 0.05 | mg kg | 0.05 | | 0.05 | |
| . DDT | 0.05 | mg kg | 0.05 | | 0.05 | |
| a BHC | 0.05 | mg kg | 0.05 | | 0.05 | |
| Aldrin | 0.05 | mg kg | 0.05 | | 0.05 | |
| b BHC | 0.05 | mg kg | 0.05 | | 0.05 | |
| d BHC | 0.05 | mg kg | 0.05 | | 0.05 | |
| Dieldrin | 0.05 | mg kg | 0.05 | | 0.05 | |
| Endosulfan I | 0.05 | mg kg | 0.05 | | 0.05 | |
| Endosulfan II | 0.05 | mg kg | 0.05 | | 0.05 | |
| Endosulfan sulphate | 0.05 | mg kg | 0.05 | | 0.05 | |
| Endrin | 0.05 | mg kg | 0.05 | | 0.05 | |
| Endrin aldehyde | 0.05 | mg kg | 0.05 | | 0.05 | |
| Endrin ketone | 0.05 | mg kg | 0.05 | | 0.05 | |
| g BHC Lindane | 0.05 | mg kg | 0.05 | | 0.05 | |
| Heptachlor | 0.05 | mg kg | 0.05 | | 0.05 | |
| Heptachlor epoxide | 0.05 | mg kg | 0.05 | | 0.05 | |
| Hexachlorobene | 0.05 | mg kg | 0.05 | | 0.05 | |
| Methoxychlor | 0.05 | mg kg | 0.05 | | 0.05 | |
| Toxaphene | 1 | mg kg | 1 | | 1 | |
| Aldrin and Dieldrin Total | 0.05 | mg kg | 0.05 | | 0.05 | |
| DDT DDE DDD Total | 0.05 | mg kg | 0.05 | | 0.05 | |
| Vic EPA IWRG 21 OCP Total | 0.1 | mg kg | 0.1 | | 0.1 | |
| Vic EPA IWRG 21 Other OCP Total | 0.1 | mg kg | 0.1 | | 0.1 | |
| Dibutylchloride surr. | 1 | | 81 | | 80 | |
| Tetrachloro m xylene surr. | 1 | | 11 | | 101 | |
| Organophosphorus Pesticides | | | | | | |
| A inphos 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 | |
| Dia inon | 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 | |
| Fensulfthion | 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 | |



| Client Sample ID | | | SB 11/ .0 | SB 14/0.2 | SB 14/0. | SB 14/1.2 |
|--|------|----------|-------------|-------------|-------------|-------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S1 Au16424 | S1 Au1642 | S1 Au16426 | S1 Au16427 |
| Date Sampled | | | Aug 0 , 201 | Aug 10, 201 | Aug 10, 201 | Aug 10, 201 |
| Test Reference | LOR | nit | | | | |
| Organophosphorus Pesticides | | | | | | |
| 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 | |
| O methoate | 2 | mg kg | 2 | | 2 | |
| Phorate | 0.2 | mg kg | 0.2 | | 0.2 | |
| Pirimiphos methyl | 0.2 | mg kg | 0.2 | | 0.2 | |
| Pyra ophos | 0.2 | mg kg | 0.2 | | 0.2 | |
| Ronnel | 0.2 | mg kg | 0.2 | | 0.2 | |
| T erbufos | 0.2 | mg kg | 0.2 | | 0.2 | |
| T etrachlorvinphos | 0.2 | mg kg | 0.2 | | 0.2 | |
| T okuthion | 0.2 | mg kg | 0.2 | | 0.2 | |
| T richloronate | 0.2 | mg kg | 0.2 | | 0.2 | |
| T riphenylphosphate surr. | 1 | | 110 | | 12 | |
| Polychlorinated B iphenyls | | | | | | |
| Aroclor 101 | 0.1 | mg kg | 0.1 | | 0.1 | |
| Aroclor 1221 | 0.1 | mg kg | 0.1 | | 0.1 | |
| Aroclor 12 2 | 0.1 | mg kg | 0.1 | | 0.1 | |
| Aroclor 12 2 | 0.1 | mg kg | 0.1 | | 0.1 | |
| Aroclor 12 8 | 0.1 | mg kg | 0.1 | | 0.1 | |
| Aroclor 125 | 0.1 | mg kg | 0.1 | | 0.1 | |
| Aroclor 12 0 | 0.1 | mg kg | 0.1 | | 0.1 | |
| T otal PCB | 0.1 | mg kg | 0.1 | | 0.1 | |
| Dibutylchloroendate surr. | 1 | | 81 | | 80 | |
| T etrachloro m xylene surr. | 1 | | 11 | | 101 | |
| Physical Properties | | | | | | |
| Clay | 1 | | | | | 2. |
| Conductivity (1:5 aqueous extract at 25°C as rec.) | 10 | uS cm | | | | 120 |
| pH (units)(1:5 soil:CaCl2 extract at 25°C as rec.) | 0.1 | pH nits | | | | .5 |
| T otal O rganic Carbon | 0.1 | | | | | 2. |
| Cation Exchange Capacity | 0.05 | meq 100g | | | | 21 |
| Iron | 0.01 | | | | | 2. |
| Moisture | 1 | | 1 | . | .1 | 11 |
| Heavy Metals | | | | | | |
| Arsenic | 2 | mg kg | | 2 | | . |
| Cadmium | 0. | mg kg | | 0. | | 1.0 |
| Chromium | 5 | mg kg | | 5 | | |
| Copper | 5 | mg kg | | 5 | | 110 |
| Iron | 20 | mg kg | | | | 2 000 |
| Lead | 5 | mg kg | | 5 | | 10 |
| Mercury | 0.1 | mg kg | | 0.1 | | 0.5 |
| Nickel | 5 | mg kg | | 5 | | 12 |
| Inc | 5 | mg kg | | 1 | | 850 |



| Client Sample ID | | | SB 14/2. | SB 14/3. | SB 14/10.0 | SB 10/0. |
|--|------|-------|-------------|-------------|-------------|-------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S1 Au1642 | S1 Au1642 | S1 Au16430 | S1 Au16432 |
| Date Sampled | | | Aug 10, 201 | Aug 10, 201 | Aug 10, 201 | Aug 10, 201 |
| Test Reference | LO R | nit | | | | |
| Total Recoverable Hydrocarbons 2013 NEPM Fractions | | | | | | |
| Naphthalen ⁰⁰² | 0.5 | mg kg | | | 0.5 | |
| T RH C C10 | 20 | mg kg | | | 20 | |
| T RH C C10 less BT EX ⁰⁰ F1 | 20 | mg kg | | | 20 | |
| T RH C10 C1 | 50 | mg kg | | | 50 | |
| T RH C10 C1 less Naphthalen ⁰⁰¹ F2 | 50 | mg kg | | | 50 | |
| T RH C1 C | 100 | mg kg | | | 100 | |
| T RH C C 0 | 100 | mg kg | | | 100 | |
| T RH C10 C 0 total | 100 | mg kg | | | 100 | |
| Total Recoverable Hydrocarbons 1 NEPM Fractions | | | | | | |
| T RH C C | 20 | mg kg | | | 20 | |
| T RH C10 C1 | 20 | mg kg | | | 20 | |
| T RH C15 C28 | 50 | mg kg | | | 50 | |
| T RH C2 C | 50 | mg kg | | | 50 | |
| T RH C10 T otal | 50 | mg kg | | | 50 | |
| B TEX | | | | | | |
| Ben ene | 0.1 | mg kg | | | 0.1 | |
| T oluene | 0.1 | mg kg | | | 0.1 | |
| Ethylben ene | 0.1 | mg kg | | | 0.1 | |
| m p Xylenes | 0.2 | mg kg | | | 0.2 | |
| o Xylene | 0.1 | mg kg | | | 0.1 | |
| X ylenes T otal | 0. | mg kg | | | 0. | |
| Bromofluoroben ene surr. | 1 | | | | 1 2 | |
| V olatile Organics | | | | | | |
| 1.1 Dichloroethane | 0.5 | mg kg | 0.5 | | | |
| 1.1 Dichloroethene | 0.5 | mg kg | 0.5 | | | |
| 1.1.1 T richloroethane | 0.5 | mg kg | 0.5 | | | |
| 1.1.1.2 T etrachloroethane | 0.5 | mg kg | 0.5 | | | |
| 1.1.2 T richloroethane | 0.5 | mg kg | 0.5 | | | |
| 1.1.2.2 T etrachloroethane | 0.5 | mg kg | 0.5 | | | |
| 1.2 Dibromoethane | 0.5 | mg kg | 0.5 | | | |
| 1.2 Dichloroben ene | 0.5 | mg kg | 0.5 | | | |
| 1.2 Dichloroethane | 0.5 | mg kg | 0.5 | | | |
| 1.2 Dichloropropane | 0.5 | mg kg | 0.5 | | | |
| 1.2. T richloropropane | 0.5 | mg kg | 0.5 | | | |
| 1.2. T rimethylben ene | 0.5 | mg kg | 0.5 | | | |
| 1. Dichloroben ene | 0.5 | mg kg | 0.5 | | | |
| 1. Dichloropropane | 0.5 | mg kg | 0.5 | | | |
| 1. .5 T rimethylben ene | 0.5 | mg kg | 0.5 | | | |
| 1. Dichloroben ene | 0.5 | mg kg | 0.5 | | | |
| 2 Butanone MEK | 0.5 | mg kg | 0.5 | | | |
| 2 Propanone Acetone | 0.5 | mg kg | 0.5 | | | |
| Chlorotoluene | 0.5 | mg kg | 0.5 | | | |
| Methyl 2 pentanone MIBK | 0.5 | mg kg | 0.5 | | | |
| Allyl chloride | 0.5 | mg kg | 0.5 | | | |
| Ben ene | 0.1 | mg kg | 0.1 | | | |
| Bromoben ene | 0.5 | mg kg | 0.5 | | | |
| Bromochloromethane | 0.5 | mg kg | 0.5 | | | |
| Bromodichloromethane | 0.5 | mg kg | 0.5 | | | |
| Bromoform | 0.5 | mg kg | 0.5 | | | |



| Client Sample ID | | | SB 14/2. | SB 14/3. | SB 14/10.0 | SB 10/0. |
|---|------|-------|-------------|-------------|-------------|-------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S1 Au1642 | S1 Au1642 | S1 Au16430 | S1 Au16432 |
| Date Sampled | | | Aug 10, 201 | Aug 10, 201 | Aug 10, 201 | Aug 10, 201 |
| Test Reference | LO R | nit | | | | |
| Volatile Organics | | | | | | |
| Bromomethane | 0.5 | mg kg | 0.5 | | | |
| Carbon disulfide | 0.5 | mg kg | 0.5 | | | |
| Carbon Tetrachloride | 0.5 | mg kg | 0.5 | | | |
| Chlorobenzene | 0.5 | mg kg | 0.5 | | | |
| Chloroethane | 0.5 | mg kg | 0.5 | | | |
| Chloroform | 0.5 | mg kg | 0.5 | | | |
| Chloromethane | 0.5 | mg kg | 0.5 | | | |
| cis 1,2 Dichloroethene | 0.5 | mg kg | 0.5 | | | |
| cis 1,3 Dichloropropene | 0.5 | mg kg | 0.5 | | | |
| Dibromochloromethane | 0.5 | mg kg | 0.5 | | | |
| Dibromomethane | 0.5 | mg kg | 0.5 | | | |
| Dichlorodifluoromethane | 0.5 | mg kg | 0.5 | | | |
| Ethylbenzene | 0.1 | mg kg | 0.1 | | | |
| Iodomethane | 0.5 | mg kg | 0.5 | | | |
| Isopropylbenzene Cumene | 0.5 | mg kg | 0.5 | | | |
| m,p Xylenes | 0.2 | mg kg | 0.2 | | | |
| Methylene Chloride | 0.5 | mg kg | 0.5 | | | |
| o-Xylene | 0.1 | mg kg | 0.1 | | | |
| Styrene | 0.5 | mg kg | 0.5 | | | |
| Tetrachloroethene | 0.5 | mg kg | 0.5 | | | |
| Toluene | 0.1 | mg kg | 0.1 | | | |
| trans 1,2 Dichloroethene | 0.5 | mg kg | 0.5 | | | |
| trans 1,3 Dichloropropene | 0.5 | mg kg | 0.5 | | | |
| Trichloroethene | 0.5 | mg kg | 0.5 | | | |
| Trichlorofluoromethane | 0.5 | mg kg | 0.5 | | | |
| Vinyl chloride | 0.5 | mg kg | 0.5 | | | |
| Xylenes Total | 0. | mg kg | 0. | | | |
| Total MAH | 0.5 | mg kg | 0.5 | | | |
| Vic EPA IWRG 21 CHC Total | 0.5 | mg kg | 0.5 | | | |
| Vic EPA IWRG 21 Other CHC Total | 0.5 | mg kg | 0.5 | | | |
| Bromofluorobenzene surr. | 1 | | 111 | | | |
| Toluene d8 surr. | 1 | | 10 | | | |
| 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. | |
| 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 | |
| Benzo[a]anthracene | 0.5 | mg kg | | | 0.5 | |
| Benzo[a]pyrene | 0.5 | mg kg | | | 0.5 | |
| Benzo[b]fluoranthene | 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 | |
| Dibenzo[a,h]anthracene | 0.5 | mg kg | | | 0.5 | |
| Fluoranthene | 0.5 | mg kg | | | 0.5 | |
| Fluorene | 0.5 | mg kg | | | 0.5 | |
| Indeno 1,2,3-cd pyrene | 0.5 | mg kg | | | 0.5 | |



| Client Sample ID | | | SB 14/2. | SB 14/3. | SB 14/10.0 | SB 10/0. |
|---|------|-------|-------------|-------------|-------------|-------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S1 Au1642 | S1 Au1642 | S1 Au16430 | S1 Au16432 |
| Date Sampled | | | Aug 10, 201 | Aug 10, 201 | Aug 10, 201 | Aug 10, 201 |
| Test Reference | LOR | nit | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | | | |
| Naphthalene | 0.5 | mg kg | | | 0.5 | |
| Phenanthrene | 0.5 | mg kg | | | 0.5 | |
| Pyrene | 0.5 | mg kg | | | 0.5 | |
| Total PAH | 0.5 | mg kg | | | 0.5 | |
| 2 Fluorobiphenyl surr. | 1 | | | | 8 | |
| p Terphenyl d1 surr. | 1 | | | | 2 | |
| Organochlorine Pesticides | | | | | | |
| Chlordanes Total | 0.1 | mg kg | | 0.1 | 0.1 | 0.1 |
| . DDD | 0.05 | mg kg | | 0.05 | 0.05 | 0.05 |
| . DDE | 0.05 | mg kg | | 0.05 | 0.05 | 0.05 |
| . DDT | 0.05 | mg kg | | 0.05 | 0.05 | 0.05 |
| a BHC | 0.05 | mg kg | | 0.05 | 0.05 | 0.05 |
| Aldrin | 0.05 | mg kg | | 0.05 | 0.05 | 0.05 |
| b BHC | 0.05 | mg kg | | 0.05 | 0.05 | 0.05 |
| d BHC | 0.05 | mg kg | | 0.05 | 0.05 | 0.05 |
| Dieldrin | 0.05 | mg kg | | 0.05 | 0.05 | 0.05 |
| Endosulfan I | 0.05 | mg kg | | 0.05 | 0.05 | 0.05 |
| Endosulfan II | 0.05 | mg kg | | 0.05 | 0.05 | 0.05 |
| Endosulfan sulphate | 0.05 | mg kg | | 0.05 | 0.05 | 0.05 |
| Endrin | 0.05 | mg kg | | 0.05 | 0.05 | 0.05 |
| Endrin aldehyde | 0.05 | mg kg | | 0.05 | 0.05 | 0.05 |
| Endrin ketone | 0.05 | mg kg | | 0.05 | 0.05 | 0.05 |
| g BHC Lindane | 0.05 | mg kg | | 0.05 | 0.05 | 0.05 |
| Heptachlor | 0.05 | mg kg | | 0.05 | 0.05 | 0.05 |
| Heptachlor epoxide | 0.05 | mg kg | | 0.05 | 0.05 | 0.05 |
| Hexachlorobene | 0.05 | mg kg | | 0.05 | 0.05 | 0.05 |
| Methoxychlor | 0.05 | mg kg | | 0.05 | 0.05 | 0.05 |
| Toxaphene | 1 | mg kg | | 1 | 1 | 1 |
| Aldrin and Dieldrin Total | 0.05 | mg kg | | 0.05 | 0.05 | 0.05 |
| DDT DDE DDD Total | 0.05 | mg kg | | 0.05 | 0.05 | 0.05 |
| Vic EPA IWRG 21 OCP Total | 0.1 | mg kg | | 0.1 | 0.1 | 0.1 |
| Vic EPA IWRG 21 Other OCP Total | 0.1 | mg kg | | 0.1 | 0.1 | 0.1 |
| Dibutylchloride surr. | 1 | | | 5 | | 100 |
| Tetrachloro m xylene surr. | 1 | | | 2 | | 81 |
| Organophosphorus Pesticides | | | | | | |
| A inphos 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 |
| Dia inon | 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 |



| Client Sample ID | | | SB 14/2. | SB 14/3. | SB 14/10.0 | SB 10/0. |
|---|-----|---------|-------------|-------------|-------------|-------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S1 Au1642 | S1 Au1642 | S1 Au16430 | S1 Au16432 |
| Date Sampled | | | Aug 10, 201 | Aug 10, 201 | Aug 10, 201 | Aug 10, 201 |
| Test Reference | LOR | nit | | | | |
| Organophosphorus Pesticides | | | | | | |
| 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 |
| O methoate | 2 | mg kg | | 2 | 2 | 2 |
| Phorate | 0.2 | mg kg | | 0.2 | 0.2 | 0.2 |
| Pirimphos methyl | 0.2 | mg kg | | 0.2 | 0.2 | 0.2 |
| Pyra ophos | 0.2 | mg kg | | 0.2 | 0.2 | 0.2 |
| Ronnel | 0.2 | mg kg | | 0.2 | 0.2 | 0.2 |
| T erbufos | 0.2 | mg kg | | 0.2 | 0.2 | 0.2 |
| T etrachlorvinphos | 0.2 | mg kg | | 0.2 | 0.2 | 0.2 |
| T okuthion | 0.2 | mg kg | | 0.2 | 0.2 | 0.2 |
| T richloronate | 0.2 | mg kg | | 0.2 | 0.2 | 0.2 |
| T riphenylphosphate surr. | 1 | | | 10 | 11 | 12 |
| Polychlorinated B iphenyls | | | | | | |
| Aroclor 101 | 0.1 | mg kg | | 0.1 | 0.1 | 0.1 |
| Aroclor 1221 | 0.1 | mg kg | | 0.1 | 0.1 | 0.1 |
| Aroclor 12 2 | 0.1 | mg kg | | 0.1 | 0.1 | 0.1 |
| Aroclor 12 2 | 0.1 | mg kg | | 0.1 | 0.1 | 0.1 |
| Aroclor 12 8 | 0.1 | mg kg | | 0.1 | 0.1 | 0.1 |
| Aroclor 125 | 0.1 | mg kg | | 0.1 | 0.1 | 0.1 |
| Aroclor 12 0 | 0.1 | mg kg | | 0.1 | 0.1 | 0.1 |
| T otal PCB | 0.1 | mg kg | | 0.1 | 0.1 | 0.1 |
| Dibutylchlorendate surr. | 1 | | | 5 | | 100 |
| T etrachloro m xylene surr. | 1 | | | 2 | | 81 |
| pH (1:5 Aqueous extract at 25°C as rec.) | | | | | | |
| | 0.1 | pH nits | | | | 8.2 |
| Moisture | 1 | | .5 | 1 | 18 | .0 |
| Heavy Metals | | | | | | |
| Arsenic | 2 | mg kg | | | 2 | 2 |
| Cadmium | 0. | mg kg | | | 0. | 0. |
| Chromium | 5 | mg kg | | | 5 | 5 |
| Copper | 5 | mg kg | | | 5 | . |
| Lead | 5 | mg kg | | | 5 | 12 |
| Mercury | 0.1 | mg kg | | | 0.1 | 0.1 |
| Nickel | 5 | mg kg | | | 5 | . |
| inc | 5 | mg kg | | | 5 | 110 |



| Client Sample ID | | | SB 17/0. | SB 17/1.0 | SB 17/6.0 | SB 17/7. |
|---|------|-------|-------------|-------------|-------------|-------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S1 Au16433 | S1 Au16434 | S1 Au1643 | S1 Au16436 |
| Date Sampled | | | Aug 10, 201 | Aug 10, 201 | Aug 10, 201 | Aug 10, 201 |
| Test Reference | LO R | nit | | | | |
| Total Recoverable Hydrocarbons 2013 NEPM Fractions | | | | | | |
| Naphthalen ⁰⁰² | 0.5 | mg kg | 0.5 | | | 0.5 |
| T RH C C10 | 20 | mg kg | 20 | | | 20 |
| T RH C C10 less BT EX ⁰⁰ F1 | 20 | mg kg | 20 | | | 20 |
| T RH C10 C1 | 50 | mg kg | 50 | | | 50 |
| T RH C10 C1 less Naphthalen ⁰⁰¹ F2 | 50 | mg kg | 50 | | | 50 |
| T RH C1 C | 100 | mg kg | 100 | | | 100 |
| T RH C C 0 | 100 | mg kg | 100 | | | 100 |
| T RH C10 C 0 total | 100 | mg kg | 100 | | | 100 |
| Total Recoverable Hydrocarbons 1 NEPM Fractions | | | | | | |
| T RH C C | 20 | mg kg | 20 | | | 20 |
| T RH C10 C1 | 20 | mg kg | 20 | | | 20 |
| T RH C15 C28 | 50 | mg kg | 50 | | | 50 |
| T RH C2 C | 50 | mg kg | 50 | | | 50 |
| T RH C10 T otal | 50 | mg kg | 50 | | | 50 |
| B TEX | | | | | | |
| Ben ene | 0.1 | mg kg | 0.1 | | | 0.1 |
| T oluene | 0.1 | mg kg | 0.1 | | | 0.1 |
| Ethylben ene | 0.1 | mg kg | 0.1 | | | 0.1 |
| m p X ylenes | 0.2 | mg kg | 0.2 | | | 0.2 |
| o X ylene | 0.1 | mg kg | 0.1 | | | 0.1 |
| X ylenes T otal | 0. | mg kg | 0. | | | 0. |
| Bromofluoroben ene surr. | 1 | | 1 | | | 0 |
| Polycyclic Aromatic Hydrocarbons | | | | | | |
| Ben o a pyrene T EQ lower bound | 0.5 | mg kg | 0.5 | | | 0.5 |
| Ben o a pyrene T EQ medium bound | 0.5 | mg kg | 0. | | | 0. |
| Ben o a pyrene T EQ 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 |
| Ben a anthracene | 0.5 | mg kg | 0.5 | | | 0.5 |
| Ben o a pyrene | 0.5 | mg kg | 0.5 | | | 0.5 |
| Ben o b fluoranthene | 0.5 | mg kg | 0.5 | | | 0.5 |
| Ben o g.h.i perylene | 0.5 | mg kg | 0.5 | | | 0.5 |
| Ben o k fluoranthene | 0.5 | mg kg | 0.5 | | | 0.5 |
| Chrysene | 0.5 | mg kg | 0.5 | | | 0.5 |
| Diben 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 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 |
| T otal PAH | 0.5 | mg kg | 0.5 | | | 0.5 |
| 2 Fluorobiphenyl surr. | 1 | | 110 | | | 11 |
| p Terphenyl d1 surr. | 1 | | 11 | | | 1 |



| Client Sample ID | | | SB 17/0. | SB 17/1.0 | SB 17/6.0 | SB 17/7. |
|------------------------------------|------|-------|-------------|-------------|-------------|-------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S1 Au16433 | S1 Au16434 | S1 Au1643 | S1 Au16436 |
| Date Sampled | | | Aug 10, 201 | Aug 10, 201 | Aug 10, 201 | Aug 10, 201 |
| Test Reference | LO R | nit | | | | |
| Organochlorine Pesticides | | | | | | |
| Chlordanes Total | 0.1 | mg kg | | 0.1 | | |
| . DDD | 0.05 | mg kg | | 0.05 | | |
| . DDE | 0.05 | mg kg | | 0.05 | | |
| . DDT | 0.05 | mg kg | | 0.05 | | |
| a BHC | 0.05 | mg kg | | 0.05 | | |
| Aldrin | 0.05 | mg kg | | 0.05 | | |
| b BHC | 0.05 | mg kg | | 0.05 | | |
| d BHC | 0.05 | mg kg | | 0.05 | | |
| Dieldrin | 0.05 | mg kg | | 0.05 | | |
| Endosulfan I | 0.05 | mg kg | | 0.05 | | |
| Endosulfan II | 0.05 | mg kg | | 0.05 | | |
| Endosulfan sulphate | 0.05 | mg kg | | 0.05 | | |
| Endrin | 0.05 | mg kg | | 0.05 | | |
| Endrin aldehyde | 0.05 | mg kg | | 0.05 | | |
| Endrin ketone | 0.05 | mg kg | | 0.05 | | |
| g BHC Lindane | 0.05 | mg kg | | 0.05 | | |
| Heptachlor | 0.05 | mg kg | | 0.05 | | |
| Heptachlor epoxide | 0.05 | mg kg | | 0.05 | | |
| Hexachlorobenzene | 0.05 | mg kg | | 0.05 | | |
| Methoxychlor | 0.05 | mg kg | | 0.05 | | |
| 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 21 OCP Total | 0.1 | mg kg | | 0.1 | | |
| Vic EPA IWRG 21 Other OCP Total | 0.1 | mg kg | | 0.1 | | |
| Dibutylchlorodate surr. | 1 | | | 121 | | |
| Tetrachloro m xylene surr. | 1 | | | 11 | | |
| Organophosphorus Pesticides | | | | | | |
| Azinphos methyl | 0.2 | mg kg | | 0.2 | | |
| Bostar | 0.2 | mg kg | | 0.2 | | |
| Chlorfenvinphos | 0.2 | mg kg | | 0.2 | | |
| Chlorpyrifos | 0.2 | mg kg | | 0.2 | | |
| 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 | | |
| Fensulfthion | 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 | | |



| Client Sample ID | | | SB 17/0. | SB 17/1.0 | SB 17/6.0 | SB 17/7. |
|------------------------------------|-----|-------|-------------|-------------|-------------|-------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S1 Au16433 | S1 Au16434 | S1 Au1643 | S1 Au16436 |
| Date Sampled | | | Aug 10, 201 | Aug 10, 201 | Aug 10, 201 | Aug 10, 201 |
| Test Reference | LOR | nit | | | | |
| Organophosphorus Pesticides | | | | | | |
| 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 | | |
| O methoate | 2 | mg kg | | 2 | | |
| Phorate | 0.2 | mg kg | | 0.2 | | |
| Pirimiphos methyl | 0.2 | mg kg | | 0.2 | | |
| Pyra ophos | 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 | | | 12 | | |
| Polychlorinated Biphenyls | | | | | | |
| Aroclor 101 | 0.1 | mg kg | | 0.1 | | |
| Aroclor 1221 | 0.1 | mg kg | | 0.1 | | |
| Aroclor 12 2 | 0.1 | mg kg | | 0.1 | | |
| Aroclor 12 2 | 0.1 | mg kg | | 0.1 | | |
| Aroclor 12 8 | 0.1 | mg kg | | 0.1 | | |
| Aroclor 125 | 0.1 | mg kg | | 0.1 | | |
| Aroclor 12 0 | 0.1 | mg kg | | 0.1 | | |
| Total PCB | 0.1 | mg kg | | 0.1 | | |
| Dibutylchloride surr. | 1 | | | 121 | | |
| Tetrachloro m xylene surr. | 1 | | | 11 | | |
| Phenols (Halogenated) | | | | | | |
| 2 Chlorophenol | 0.5 | mg kg | | | | 0.5 |
| 2,4 Dichlorophenol | 0.5 | mg kg | | | | 0.5 |
| 2,6 Dichlorophenol | 1 | mg kg | | | | 1 |
| 2,4,6 Trichlorophenol | 1.0 | mg kg | | | | 1 |
| 2,4,6 Trichlorophenol | 0.5 | mg kg | | | | 0.5 |
| 2,4,6 Trichlorophenol | 1.0 | mg kg | | | | 1 |
| Pentachlorophenol | 1.0 | mg kg | | | | 1 |
| Tetrachlorophenols Total | 1.0 | mg kg | | | | 1 |
| Total Halogenated Phenol | 1 | mg kg | | | | 1 |
| Phenols (non Halogenated) | | | | | | |
| 2 Cyclohexyl dinitrophenol | 20 | mg kg | | | | 20 |
| 2 Methyl dinitrophenol | 5 | mg kg | | | | 5 |
| 2 Methylphenol o Cresol | 0.2 | mg kg | | | | 0.2 |
| 2 Nitrophenol | 1.0 | mg kg | | | | 1 |
| 2,4 Dimethylphenol | 0.5 | mg kg | | | | 0.5 |
| 2,6 Dimethylphenol | 5 | mg kg | | | | 5 |
| 2,4,6 Trimethylphenol m p Cresol | 0.5 | mg kg | | | | 0.5 |
| Nitrophenol | 5 | mg kg | | | | 5 |
| Dinoseb | 20 | mg kg | | | | 20 |
| Phenol | 0.5 | mg kg | | | | 0.5 |
| Total Non Halogenated Phenol | 20 | mg kg | | | | 20 |
| Phenol d surr. | 1 | | | | | 11 |



| | | | | | | |
|--|------|---------|-------------|-------------|-------------|-------------|
| Client Sample ID | | | SB 17/0. | SB 17/1.0 | SB 17/6.0 | SB 17/7. |
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S1 Au16433 | S1 Au16434 | S1 Au1643 | S1 Au16436 |
| Date Sampled | | | Aug 10, 201 | Aug 10, 201 | Aug 10, 201 | Aug 10, 201 |
| Test Reference | LO R | nit | | | | |
| pH (1:5 Aqueous extract at 25°C as rec.) | 0.1 | pH nits | | | | |
| Moisture | 1 | | 8.5 | 15 | 1 | 1 |
| Heavy Metals | | | | | | |
| Arsenic | 2 | mg kg | . | | | 2 |
| Cadmium | 0. | mg kg | 0. | | | 0. |
| Chromium | 5 | mg kg | 8.0 | | | 5 |
| Copper | 5 | mg kg | .5 | | | 5 |
| Lead | 5 | mg kg | 1 | | | 11 |
| Mercury | 0.1 | mg kg | 0.1 | | | 0.1 |
| Nickel | 5 | mg kg | .5 | | | 5 |
| inc | 5 | mg kg | 250 | | | 1 |

| | | | | | | |
|---|------|-------|-------------|-------------|-------------|-------------|
| Client Sample ID | | | SB 17/ .0 | SB 1 /0.2 | SB 1 /0.6 | SB 1 /1.0 |
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S1 Au16437 | S1 Au1643 | S1 Au1643 | S1 Au16440 |
| Date Sampled | | | Aug 10, 201 | Aug 10, 201 | Aug 10, 201 | Aug 10, 201 |
| Test Reference | LO R | nit | | | | |
| Total Recoverable Hydrocarbons 2013 NEPM Fractions | | | | | | |
| Naphthalen ⁸⁰² | 0.5 | mg kg | | | | 0.5 |
| T RH C C10 | 20 | mg kg | | | | 20 |
| T RH C C10 less BT EX ⁹⁰ F1 | 20 | mg kg | | | | 20 |
| T RH C10 C1 | 50 | mg kg | | | | 210 |
| T RH C10 C1 less Naphthalen ⁸⁰¹ F2 | 50 | mg kg | | | | 210 |
| T RH C1 C | 100 | mg kg | | | | 2000 |
| T RH C C0 | 100 | mg kg | | | | 810 |
| T RH C10 C0 total | 100 | mg kg | | | | 020 |
| Total Recoverable Hydrocarbons 1 NEPM Fractions | | | | | | |
| T RH C C | 20 | mg kg | | | | 20 |
| T RH C10 C1 | 20 | mg kg | | | | 150 |
| T RH C15 C28 | 50 | mg kg | | | | 1100 |
| T RH C2 C | 50 | mg kg | | | | 1100 |
| T RH C10 T total | 50 | mg kg | | | | 2 50 |
| B TEX | | | | | | |
| Ben ene | 0.1 | mg kg | | | | 0.1 |
| Toluene | 0.1 | mg kg | | | | 0.1 |
| Ethylben ene | 0.1 | mg kg | | | | 0.1 |
| m p Xylenes | 0.2 | mg kg | | | | 0.2 |
| o Xylene | 0.1 | mg kg | | | | 0.1 |
| Xylenes T total | 0. | mg kg | | | | 0. |
| Bromofluoroben ene surr. | 1 | | | | | 11 |
| Volatile Organics | | | | | | |
| 1.1 Dichloroethane | 0.5 | mg kg | | | 0.5 | |
| 1.1 Dichloroethene | 0.5 | mg kg | | | 0.5 | |
| 1.1.1 T richloroethane | 0.5 | mg kg | | | 0.5 | |
| 1.1.1.2 T etrachloroethane | 0.5 | mg kg | | | 0.5 | |
| 1.1.2 T richloroethane | 0.5 | mg kg | | | 0.5 | |
| 1.1.2.2 T etrachloroethane | 0.5 | mg kg | | | 0.5 | |
| 1.2 Dibromoethane | 0.5 | mg kg | | | 0.5 | |



| Client Sample ID | | | SB 17/ /0 | SB 1 /0.2 | SB 1 /0.6 | SB 1 /1.0 |
|---------------------------------|-----|-------|-------------|-------------|-------------|-------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S1 Au16437 | S1 Au1643 | S1 Au1643 | S1 Au16440 |
| Date Sampled | | | Aug 10, 201 | Aug 10, 201 | Aug 10, 201 | Aug 10, 201 |
| Test Reference | LOR | nit | | | | |
| Volatile Organics | | | | | | |
| 1.2 Dichlorobenzene | 0.5 | mg/kg | | | 0.5 | |
| 1.2 Dichloroethane | 0.5 | mg/kg | | | 0.5 | |
| 1.2 Dichloropropane | 0.5 | mg/kg | | | 0.5 | |
| 1.2 Trichloropropane | 0.5 | mg/kg | | | 0.5 | |
| 1.2 Trimethylbenzene | 0.5 | mg/kg | | | 0.5 | |
| 1. Dichlorobenzene | 0.5 | mg/kg | | | 0.5 | |
| 1. Dichloropropane | 0.5 | mg/kg | | | 0.5 | |
| 1.5 Trimethylbenzene | 0.5 | mg/kg | | | 0.5 | |
| 1. Dichlorobenzene | 0.5 | mg/kg | | | 0.5 | |
| 2 Butanone MEK | 0.5 | mg/kg | | | 0.5 | |
| 2 Propanone Acetone | 0.5 | mg/kg | | | 0.5 | |
| Chlorotoluene | 0.5 | mg/kg | | | 0.5 | |
| Methyl 2-pentanone MIBK | 0.5 | mg/kg | | | 0.5 | |
| Allyl chloride | 0.5 | mg/kg | | | 0.5 | |
| Benzene | 0.1 | mg/kg | | | 0.1 | |
| Bromobenzene | 0.5 | mg/kg | | | 0.5 | |
| Bromochloromethane | 0.5 | mg/kg | | | 0.5 | |
| Bromodichloromethane | 0.5 | mg/kg | | | 0.5 | |
| Bromoform | 0.5 | mg/kg | | | 0.5 | |
| Bromomethane | 0.5 | mg/kg | | | 0.5 | |
| Carbon disulfide | 0.5 | mg/kg | | | 0.5 | |
| Carbon tetrachloride | 0.5 | mg/kg | | | 0.5 | |
| Chlorobenzene | 0.5 | mg/kg | | | 0.5 | |
| Chloroethane | 0.5 | mg/kg | | | 0.5 | |
| Chloroform | 0.5 | mg/kg | | | 0.5 | |
| Chloromethane | 0.5 | mg/kg | | | 0.5 | |
| cis-1,2-Dichloroethene | 0.5 | mg/kg | | | 0.5 | |
| cis-1,2-Dichloropropene | 0.5 | mg/kg | | | 0.5 | |
| Dibromochloromethane | 0.5 | mg/kg | | | 0.5 | |
| Dibromomethane | 0.5 | mg/kg | | | 0.5 | |
| Dichlorodifluoromethane | 0.5 | mg/kg | | | 0.5 | |
| Ethylbenzene | 0.1 | mg/kg | | | 0.1 | |
| Iodomethane | 0.5 | mg/kg | | | 0.5 | |
| Isopropylbenzene Cumene | 0.5 | mg/kg | | | 0.5 | |
| m,p-Xylenes | 0.2 | mg/kg | | | 0.2 | |
| Methylene Chloride | 0.5 | mg/kg | | | 0.5 | |
| o-Xylene | 0.1 | mg/kg | | | 0.1 | |
| Styrene | 0.5 | mg/kg | | | 0.5 | |
| Tetrachloroethene | 0.5 | mg/kg | | | 0.5 | |
| Toluene | 0.1 | mg/kg | | | 0.1 | |
| trans-1,2-Dichloroethene | 0.5 | mg/kg | | | 0.5 | |
| trans-1,2-Dichloropropene | 0.5 | mg/kg | | | 0.5 | |
| Trichloroethene | 0.5 | mg/kg | | | 0.5 | |
| Trichlorofluoromethane | 0.5 | mg/kg | | | 0.5 | |
| Vinyl chloride | 0.5 | mg/kg | | | 0.5 | |
| Xylenes Total | 0. | mg/kg | | | 0. | |
| Total MAH | 0.5 | mg/kg | | | 0.5 | |
| Vic EPA IWRG 21 CHC Total | 0.5 | mg/kg | | | 0.5 | |
| Vic EPA IWRG 21 Other CHC Total | 0.5 | mg/kg | | | 0.5 | |



| Client Sample ID | | | SB 17/ /0.0 | SB 1 / /0.2 | SB 1 / /0.6 | SB 1 / /1.0 |
|---|------|-------|-------------|-------------|-------------|-------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S1 Au16437 | S1 Au1643 | S1 Au1643 | S1 Au16440 |
| Date Sampled | | | Aug 10, 201 | Aug 10, 201 | Aug 10, 201 | Aug 10, 201 |
| Test Reference | LO R | nit | | | | |
| Volatile Organics | | | | | | |
| Bromofluorobenzene surr. | 1 | | | | 108 | |
| Toluene d8 surr. | 1 | | | | 10 | |
| 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. | | 2. |
| Benzo(a)pyrene TEQ upper bound | 0.5 | mg kg | | 1.2 | | .8 |
| Acenaphthene | 0.5 | mg kg | | 0.5 | | 2 |
| Acenaphthylene | 0.5 | mg kg | | 0.5 | | 2 |
| Anthracene | 0.5 | mg kg | | 0.5 | | 2 |
| Benzo(a)anthracene | 0.5 | mg kg | | 0.5 | | 2 |
| Benzo(a)pyrene | 0.5 | mg kg | | 0.5 | | 2 |
| Benzo(b)fluoranthene | 0.5 | mg kg | | 0.5 | | 2 |
| Benzo(g,h,i)perylene | 0.5 | mg kg | | 0.5 | | 2 |
| Benzo(k)fluoranthene | 0.5 | mg kg | | 0.5 | | 2 |
| Chrysene | 0.5 | mg kg | | 0.5 | | 2 |
| Dibenz(a,h)anthracene | 0.5 | mg kg | | 0.5 | | 2 |
| Fluoranthene | 0.5 | mg kg | | 0.5 | | 2 |
| Fluorene | 0.5 | mg kg | | 0.5 | | 2 |
| Indeno(1,2,3-cd)pyrene | 0.5 | mg kg | | 0.5 | | 2 |
| Naphthalene | 0.5 | mg kg | | 0.5 | | 2 |
| Phenanthrene | 0.5 | mg kg | | 0.5 | | 2 |
| Pyrene | 0.5 | mg kg | | 0.5 | | 2 |
| Total PAH | 0.5 | mg kg | | 0.5 | | 2 |
| 2,2'-Fluorobiphenyl surr. | 1 | | | | | 11 |
| p-terphenyl d1 surr. | 1 | | | 10 | | 1 |
| Organochlorine Pesticides | | | | | | |
| Chlordane Total | 0.1 | mg kg | 0.1 | 0.1 | | |
| . DDD | 0.05 | mg kg | 0.05 | 0.05 | | |
| . DDE | 0.05 | mg kg | 0.05 | 0.05 | | |
| . DDT | 0.05 | mg kg | 0.05 | 0.05 | | |
| a-BHC | 0.05 | mg kg | 0.05 | 0.05 | | |
| Aldrin | 0.05 | mg kg | 0.05 | 0.05 | | |
| b-BHC | 0.05 | mg kg | 0.05 | 0.05 | | |
| d-BHC | 0.05 | mg kg | 0.05 | 0.05 | | |
| Dieldrin | 0.05 | mg kg | 0.05 | 0.05 | | |
| Endosulfan I | 0.05 | mg kg | 0.05 | 0.05 | | |
| Endosulfan II | 0.05 | mg kg | 0.05 | 0.05 | | |
| Endosulfan sulphate | 0.05 | mg kg | 0.05 | 0.05 | | |
| Endrin | 0.05 | mg kg | 0.05 | 0.05 | | |
| Endrin aldehyde | 0.05 | mg kg | 0.05 | 0.05 | | |
| Endrin ketone | 0.05 | mg kg | 0.05 | 0.05 | | |
| g-BHC Lindane | 0.05 | mg kg | 0.05 | 0.05 | | |
| Heptachlor | 0.05 | mg kg | 0.05 | 0.05 | | |
| Heptachlor epoxide | 0.05 | mg kg | 0.05 | 0.05 | | |
| Hexachlorobenzene | 0.05 | mg kg | 0.05 | 0.05 | | |
| Methoxychlor | 0.05 | mg kg | 0.05 | 0.05 | | |
| Toxaphene | 1 | mg kg | 1 | 1 | | |
| Aldrin and Dieldrin Total | 0.05 | mg kg | 0.05 | 0.05 | | |
| DDT DDE DDD Total | 0.05 | mg kg | 0.05 | 0.05 | | |



| Client Sample ID | | | SB 17/ .0 | SB 1 /0.2 | SB 1 /0.6 | SB 1 /1.0 |
|------------------------------------|-----|-------|-------------|-------------|-------------|-------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S1 Au16437 | S1 Au1643 | S1 Au1643 | S1 Au16440 |
| Date Sampled | | | Aug 10, 201 | Aug 10, 201 | Aug 10, 201 | Aug 10, 201 |
| Test Reference | LOR | nit | | | | |
| Organochlorine Pesticides | | | | | | |
| Vic EPA IWRG 21 OCP Total | 0.1 | mg kg | 0.1 | 0.1 | | |
| Vic EPA IWRG 21 Other OCP Total | 0.1 | mg kg | 0.1 | 0.1 | | |
| Dibutylchloro surr. | 1 | | 11 | 11 | | |
| Tetrachloro m xylene surr. | 1 | | 11 | 118 | | |
| 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 | | |
| O methoate | 2 | mg kg | 2 | 2 | | |
| Phorate | 0.2 | mg kg | 0.2 | 0.2 | | |
| Pirimiphos methyl | 0.2 | mg kg | 0.2 | 0.2 | | |
| Pyraophos | 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 | | |
| Toxothion | 0.2 | mg kg | 0.2 | 0.2 | | |
| Trichloronate | 0.2 | mg kg | 0.2 | 0.2 | | |
| Triphenylphosphate surr. | 1 | | 11 | 110 | | |
| Polychlorinated Biphenyls | | | | | | |
| Aroclor 101 | 0.1 | mg kg | 0.1 | 0.1 | | |
| Aroclor 1221 | 0.1 | mg kg | 0.1 | 0.1 | | |
| Aroclor 122 | 0.1 | mg kg | 0.1 | 0.1 | | |
| Aroclor 122 | 0.1 | mg kg | 0.1 | 0.1 | | |
| Aroclor 128 | 0.1 | mg kg | 0.1 | 0.1 | | |
| Aroclor 125 | 0.1 | mg kg | 0.1 | 0.1 | | |
| Aroclor 120 | 0.1 | mg kg | 0.1 | 0.1 | | |
| Total PCB | 0.1 | mg kg | 0.1 | 0.1 | | |



| Client Sample ID | | | SB 17/ /0.0 | SB 1 / /0.2 | SB 1 / /0.6 | SB 1 / /1.0 |
|--|-----|---------|-------------|-------------|-------------|-------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S1 Au16437 | S1 Au1643 | S1 Au1643 | S1 Au16440 |
| Date Sampled | | | Aug 10, 201 | Aug 10, 201 | Aug 10, 201 | Aug 10, 201 |
| Test Reference | LOR | nit | | | | |
| Polychlorinated Biphenyls | | | | | | |
| Dibutylchlorodate surr. | 1 | | 11 | 11 | | |
| Tetrachloro m xylene surr. | 1 | | 11 | 118 | | |
| Phenols (Halogenated) | | | | | | |
| 2 Chlorophenol | 0.5 | mg kg | | | | 2 |
| 2, Dichlorophenol | 0.5 | mg kg | | | | 2 |
| 2, 5 Trichlorophenol | 1 | mg kg | | | | 5 |
| 2, 4 Trichlorophenol | 1.0 | mg kg | | | | 5 |
| 2, Dichlorophenol | 0.5 | mg kg | | | | 2 |
| Chloro methylphenol | 1.0 | mg kg | | | | 5 |
| Pentachlorophenol | 1.0 | mg kg | | | | 5 |
| Tetrachlorophenols Total | 1.0 | mg kg | | | | 10 |
| Total Halogenated Phenol | 1 | mg kg | | | | 5 |
| Phenols (non Halogenated) | | | | | | |
| 2 Cyclohexyl dinitrophenol | 20 | mg kg | | | | 50 |
| 2 Methyl dinitrophenol | 5 | mg kg | | | | 20 |
| 2 Methylphenol o Cresol | 0.2 | mg kg | | | | 2 |
| 2 Nitrophenol | 1.0 | mg kg | | | | 5 |
| 2, Dimethylphenol | 0.5 | mg kg | | | | 2 |
| 2, Dinitrophenol | 5 | mg kg | | | | 20 |
| Methylphenol m p Cresol | 0.5 | mg kg | | | | 5 |
| Nitrophenol | 5 | mg kg | | | | 20 |
| Dinoseb | 20 | mg kg | | | | 50 |
| Phenol | 0.5 | mg kg | | | | 2 |
| Total Non Halogenated Phenol | 20 | mg kg | | | | 50 |
| Phenol d surr. | 1 | | | | | |
| pH (1:5 Aqueous extract at 25°C as rec.) | 0.1 | pH nits | | 8. | | |
| Moisture | 1 | | 1 | . | .0 | .8 |
| Heavy Metals | | | | | | |
| Arsenic | 2 | mg kg | | 2 | | . |
| Cadmium | 0. | mg kg | | 0. | | 0. |
| Chromium | 5 | mg kg | | 5 | | 21 |
| Copper | 5 | mg kg | | 5 | | |
| Lead | 5 | mg kg | | 8. | | 20 |
| Mercury | 0.1 | mg kg | | 0.1 | | 0.1 |
| Nickel | 5 | mg kg | | 5 | | 21 |
| Inc | 5 | mg kg | | . | | 1000 |



| Client Sample ID | | | SB 1 /0. | SB 1 /1. | SB 1 /2. | SB 1 /3.7 |
|---|------|-------|-------------|-------------|-------------|-------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S1 Au16441 | S1 Au16442 | S1 Au16443 | S1 Au16444 |
| Date Sampled | | | Aug 0 , 201 |
| Test Reference | LO R | nit | | | | |
| Total Recoverable Hydrocarbons 2013 NEPM Fractions | | | | | | |
| Naphthalen ⁰² | 0.5 | mg kg | | 0.5 | | 0.5 |
| T RH C C10 | 20 | mg kg | | 20 | | 20 |
| T RH C C10 less BT EX ⁰⁰ F1 | 20 | mg kg | | 20 | | 20 |
| T RH C10 C1 | 50 | mg kg | | 50 | | 50 |
| T RH C10 C1 less Naphthalen ⁰⁰¹ F2 | 50 | mg kg | | 50 | | 50 |
| T RH C1 C | 100 | mg kg | | 1 0 | | 100 |
| T RH C C 0 | 100 | mg kg | | 100 | | 100 |
| T RH C10 C 0 total | 100 | mg kg | | 1 0 | | 100 |
| Total Recoverable Hydrocarbons 1 NEPM Fractions | | | | | | |
| T RH C C | 20 | mg kg | | 20 | | 20 |
| T RH C10 C1 | 20 | mg kg | | 20 | | 20 |
| T RH C15 C28 | 50 | mg kg | | 1 | | 50 |
| T RH C2 C | 50 | mg kg | | | | 50 |
| T RH C10 T otal | 50 | mg kg | | 15 | | 50 |
| B TEX | | | | | | |
| Ben ene | 0.1 | mg kg | | 0.1 | | 0.1 |
| T oluene | 0.1 | mg kg | | 0.1 | | 0.1 |
| Ethylben ene | 0.1 | mg kg | | 0.1 | | 0.1 |
| m p X ylenes | 0.2 | mg kg | | 0.2 | | 0.2 |
| o X ylene | 0.1 | mg kg | | 0.1 | | 0.1 |
| X ylenes T otal | 0. | mg kg | | 0. | | 0. |
| Bromofluoroben ene surr. | 1 | | | 11 | | 11 |
| V olatile Organics | | | | | | |
| 1.1 Dichloroethane | 0.5 | mg kg | | | 0.5 | |
| 1.1 Dichloroethene | 0.5 | mg kg | | | 0.5 | |
| 1.1.1 T richloroethane | 0.5 | mg kg | | | 0.5 | |
| 1.1.1.2 T etrachloroethane | 0.5 | mg kg | | | 0.5 | |
| 1.1.2 T richloroethane | 0.5 | mg kg | | | 0.5 | |
| 1.1.2.2 T etrachloroethane | 0.5 | mg kg | | | 0.5 | |
| 1.2 Dibromoethane | 0.5 | mg kg | | | 0.5 | |
| 1.2 Dichloroben ene | 0.5 | mg kg | | | 0.5 | |
| 1.2 Dichloroethane | 0.5 | mg kg | | | 0.5 | |
| 1.2 Dichloropropane | 0.5 | mg kg | | | 0.5 | |
| 1.2. T richloropropane | 0.5 | mg kg | | | 0.5 | |
| 1.2. T rimethylben ene | 0.5 | mg kg | | | 0.5 | |
| 1. Dichloroben ene | 0.5 | mg kg | | | 0.5 | |
| 1. Dichloropropane | 0.5 | mg kg | | | 0.5 | |
| 1. .5 T rimethylben ene | 0.5 | mg kg | | | 0.5 | |
| 1. Dichloroben ene | 0.5 | mg kg | | | 0.5 | |
| 2 Butanone MEK | 0.5 | mg kg | | | 0.5 | |
| 2 Propanone Acetone | 0.5 | mg kg | | | 0.5 | |
| Chlorotoluene | 0.5 | mg kg | | | 0.5 | |
| Methyl 2 pentanone MIBK | 0.5 | mg kg | | | 0.5 | |
| Allyl chloride | 0.5 | mg kg | | | 0.5 | |
| Ben ene | 0.1 | mg kg | | | 0.1 | |
| Bromoben ene | 0.5 | mg kg | | | 0.5 | |
| Bromochloromethane | 0.5 | mg kg | | | 0.5 | |
| Bromodichloromethane | 0.5 | mg kg | | | 0.5 | |
| Bromofom | 0.5 | mg kg | | | 0.5 | |



| Client Sample ID | | | SB 1 /0. | SB 1 /1. | SB 1 /2. | SB 1 /3.7 |
|---|-----|-------|-------------|-------------|-------------|-------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S1 Au16441 | S1 Au16442 | S1 Au16443 | S1 Au16444 |
| Date Sampled | | | Aug 0 , 201 |
| Test Reference | LOR | nit | | | | |
| Volatile Organics | | | | | | |
| Bromomethane | 0.5 | mg kg | | | 0.5 | |
| Carbon disulfide | 0.5 | mg kg | | | 0.5 | |
| Carbon Tetrachloride | 0.5 | mg kg | | | 0.5 | |
| Chlorobenzene | 0.5 | mg kg | | | 0.5 | |
| Chloroethane | 0.5 | mg kg | | | 0.5 | |
| Chloroform | 0.5 | mg kg | | | 0.5 | |
| Chloromethane | 0.5 | mg kg | | | 0.5 | |
| cis 1,2 Dichloroethene | 0.5 | mg kg | | | 0.5 | |
| cis 1,3 Dichloropropene | 0.5 | mg kg | | | 0.5 | |
| Dibromochloromethane | 0.5 | mg kg | | | 0.5 | |
| Dibromomethane | 0.5 | mg kg | | | 0.5 | |
| Dichlorodifluoromethane | 0.5 | mg kg | | | 0.5 | |
| Ethylbenzene | 0.1 | mg kg | | | 0.1 | |
| Iodomethane | 0.5 | mg kg | | | 0.5 | |
| Isopropylbenzene Cumene | 0.5 | mg kg | | | 0.5 | |
| m,p Xylenes | 0.2 | mg kg | | | 0.2 | |
| Methylene Chloride | 0.5 | mg kg | | | 0.5 | |
| o-Xylene | 0.1 | mg kg | | | 0.1 | |
| Styrene | 0.5 | mg kg | | | 0.5 | |
| Tetrachloroethene | 0.5 | mg kg | | | 0.5 | |
| Toluene | 0.1 | mg kg | | | 0.1 | |
| trans 1,2 Dichloroethene | 0.5 | mg kg | | | 0.5 | |
| trans 1,3 Dichloropropene | 0.5 | mg kg | | | 0.5 | |
| Trichloroethene | 0.5 | mg kg | | | 0.5 | |
| Trichlorofluoromethane | 0.5 | mg kg | | | 0.5 | |
| Vinyl chloride | 0.5 | mg kg | | | 0.5 | |
| Xylenes Total | 0. | mg kg | | | 0. | |
| Total MAH | 0.5 | mg kg | | | 0.5 | |
| Vic EPA IWRG 21 CHC Total | 0.5 | mg kg | | | 0.5 | |
| Vic EPA IWRG 21 Other CHC Total | 0.5 | mg kg | | | 0.5 | |
| Bromofluorobenzene surr. | 1 | | | | 11 | |
| Toluene d8 surr. | 1 | | | | 110 | |
| Polycyclic Aromatic Hydrocarbons | | | | | | |
| Benzo[a]pyrene TEQ lower bound | 0.5 | mg kg | 0.8 | 1.1 | | 0.5 |
| Benzo[a]pyrene TEQ medium bound | 0.5 | mg kg | 1.1 | 1. | | 0. |
| Benzo[a]pyrene TEQ upper bound | 0.5 | mg kg | 1. | 1. | | 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 |
| Benzo[a]anthracene | 0.5 | mg kg | 0. | 0.8 | | 0.5 |
| Benzo[a]pyrene | 0.5 | mg kg | 0. | 0. | | 0.5 |
| Benzo[b]fluoranthene | 0.5 | mg kg | 0.5 | 0. | | 0.5 |
| Benzo[g,h,i]perylene | 0.5 | mg kg | 0. | 0. | | 0.5 |
| Benzo[k]fluoranthene | 0.5 | mg kg | 0.5 | 0. | | 0.5 |
| Chrysene | 0.5 | mg kg | 0.5 | 0. | | 0.5 |
| Dibenz[a,h]anthracene | 0.5 | mg kg | 0.5 | 0.5 | | 0.5 |
| Fluoranthene | 0.5 | mg kg | 0. | 1.5 | | 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 |



| Client Sample ID | | | SB 1 /0. | SB 1 /1. | SB 1 /2. | SB 1 /3.7 |
|---|------|-------|-------------|-------------|-------------|-------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S1 Au16441 | S1 Au16442 | S1 Au16443 | S1 Au16444 |
| Date Sampled | | | Aug 0 , 201 |
| Test Reference | LOR | nit | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | | | |
| Naphthalene | 0.5 | mg kg | 0.5 | 0.5 | | 0.5 |
| Phenanthrene | 0.5 | mg kg | 0. | 0. | | 0.5 |
| Pyrene | 0.5 | mg kg | 0. | 1.5 | | 0.5 |
| Total PAH | 0.5 | mg kg | . | 8. | | 0.5 |
| 2 Fluorobiphenyl surr. | 1 | | 85 | 111 | | 100 |
| p Terphenyl d1 surr. | 1 | | 2 | 10 | | 125 |
| Organochlorine Pesticides | | | | | | |
| Chlordanes Total | 0.1 | mg kg | 0.1 | | 0.1 | |
| . DDD | 0.05 | mg kg | 0.05 | | 0.05 | |
| . DDE | 0.05 | mg kg | 0.05 | | 0.05 | |
| . DDT | 0.05 | mg kg | 0.05 | | 0.05 | |
| a BHC | 0.05 | mg kg | 0.05 | | 0.05 | |
| Aldrin | 0.05 | mg kg | 0.05 | | 0.0 | |
| b BHC | 0.05 | mg kg | 0.05 | | 0.05 | |
| d BHC | 0.05 | mg kg | 0.05 | | 0.05 | |
| Dieldrin | 0.05 | mg kg | 0.05 | | 0.2 | |
| Endosulfan I | 0.05 | mg kg | 0.05 | | 0.05 | |
| Endosulfan II | 0.05 | mg kg | 0.05 | | 0.05 | |
| Endosulfan sulphate | 0.05 | mg kg | 0.05 | | 0.05 | |
| Endrin | 0.05 | mg kg | 0.05 | | 0.05 | |
| Endrin aldehyde | 0.05 | mg kg | 0.05 | | 0.05 | |
| Endrin ketone | 0.05 | mg kg | 0.05 | | 0.05 | |
| g BHC Lindane | 0.05 | mg kg | 0.05 | | 0.05 | |
| Heptachlor | 0.05 | mg kg | 0.05 | | 0.05 | |
| Heptachlor epoxide | 0.05 | mg kg | 0.05 | | 0.05 | |
| Hexachlorobene | 0.05 | mg kg | 0.05 | | 0.05 | |
| Methoxychlor | 0.05 | mg kg | 0.05 | | 0.05 | |
| Toxaphene | 1 | mg kg | 1 | | 1 | |
| Aldrin and Dieldrin Total | 0.05 | mg kg | 0.05 | | 0. 1 | |
| DDT DDE DDD Total | 0.05 | mg kg | 0.05 | | 0.05 | |
| Vic EPA IWRG 21 OCP Total | 0.1 | mg kg | 0.1 | | 0. 1 | |
| Vic EPA IWRG 21 Other OCP Total | 0.1 | mg kg | 0.1 | | 0.1 | |
| Dibutylchloroendate surr. | 1 | | 10 | | 112 | |
| Tetrachloro m xylene surr. | 1 | | | | 10 | |
| Organophosphorus Pesticides | | | | | | |
| A inphos 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 | |
| Dia inon | 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 | |



| Client Sample ID | | | SB 1 /0. | SB 1 /1. | SB 1 /2. | SB 1 /3.7 |
|------------------------------------|-----|-------|-------------|-------------|-------------|-------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S1 Au16441 | S1 Au16442 | S1 Au16443 | S1 Au16444 |
| Date Sampled | | | Aug 0 , 201 |
| Test Reference | LOR | nit | | | | |
| Organophosphorus Pesticides | | | | | | |
| 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 | |
| O methoate | 2 | mg kg | 2 | | 2 | |
| Phorate | 0.2 | mg kg | 0.2 | | 0.2 | |
| Pirimphos methyl | 0.2 | mg kg | 0.2 | | 0.2 | |
| Pyra ophos | 0.2 | mg kg | 0.2 | | 0.2 | |
| Ronnel | 0.2 | mg kg | 0.2 | | 0.2 | |
| T erbufos | 0.2 | mg kg | 0.2 | | 0.2 | |
| T etrachlorvinphos | 0.2 | mg kg | 0.2 | | 0.2 | |
| T okuthion | 0.2 | mg kg | 0.2 | | 0.2 | |
| T richloronate | 0.2 | mg kg | 0.2 | | 0.2 | |
| T riphenylphosphate surr. | 1 | | 8 | | 10 | |
| Polychlorinated Biphenyls | | | | | | |
| Aroclor 101 | 0.1 | mg kg | 0.1 | | 0.1 | |
| Aroclor 1221 | 0.1 | mg kg | 0.1 | | 0.1 | |
| Aroclor 12 2 | 0.1 | mg kg | 0.1 | | 0.1 | |
| Aroclor 12 2 | 0.1 | mg kg | 0.1 | | 0.1 | |
| Aroclor 12 8 | 0.1 | mg kg | 0.1 | | 0.1 | |
| Aroclor 125 | 0.1 | mg kg | 0.1 | | 0.1 | |
| Aroclor 12 0 | 0.1 | mg kg | 0.1 | | 0.1 | |
| T otal PCB | 0.1 | mg kg | 0.1 | | 0.1 | |
| Dibutylchloredate surr. | 1 | | 10 | | 112 | |
| T etrachloro m xylene surr. | 1 | | | | 10 | |
| Phenols (Halogenated) | | | | | | |
| 2 Chlorophenol | 0.5 | mg kg | | | | 0.5 |
| 2, 4 Dichlorophenol | 0.5 | mg kg | | | | 0.5 |
| 2, 4, 6 T richlorophenol | 1 | mg kg | | | | 1 |
| 2, 4, 6 T richlorophenol | 1.0 | mg kg | | | | 1 |
| 2, 4 Dichlorophenol | 0.5 | mg kg | | | | 0.5 |
| 2 Chloro methylphenol | 1.0 | mg kg | | | | 1 |
| Pentachlorophenol | 1.0 | mg kg | | | | 1 |
| T etrachlorophenols T otal | 1.0 | mg kg | | | | 1 |
| T otal Halogenated Phenol | 1 | mg kg | | | | 1 |
| Phenols (non Halogenated) | | | | | | |
| 2 Cyclohexyl dinitrophenol | 20 | mg kg | | | | 20 |
| 2 Methyl dinitrophenol | 5 | mg kg | | | | 5 |
| 2 Methylphenol o Cresol | 0.2 | mg kg | | | | 0.2 |
| 2 Nitrophenol | 1.0 | mg kg | | | | 1 |
| 2, 4 Dimethylphenol | 0.5 | mg kg | | | | 0.5 |
| 2, 4 Dinitrophenol | 5 | mg kg | | | | 5 |



| | | | | | | |
|------------------------------|------|-------|-------------|-------------|-------------|-------------|
| Client Sample ID | | | SB 1 /0. | SB 1 /1. | SB 1 /2. | SB 1 /3.7 |
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S1 Au16441 | S1 Au16442 | S1 Au16443 | S1 Au16444 |
| Date Sampled | | | Aug 0 , 201 |
| Test Reference | LO R | nit | | | | |
| Phenols (non Halogenated) | | | | | | |
| Methylphenol m p Cresol | 0. | mg kg | | | | 0. |
| Nitrophenol | 5 | mg kg | | | | 5 |
| Dinoseb | 20 | mg kg | | | | 20 |
| Phenol | 0.5 | mg kg | | | | 0.5 |
| Total Non Halogenated Phenol | 20 | mg kg | | | | 20 |
| Phenol d surr. | 1 | | | | | 10 |
| Moisture | | | | | | |
| | 1 | | . | .0 | 8.8 | 15 |
| Heavy Metals | | | | | | |
| Arsenic | 2 | mg kg | .0 | . | | 2 |
| Cadmium | 0. | mg kg | 0. | 1.5 | | 0. |
| Chromium | 5 | mg kg | 2 | 2 | | 5 |
| Copper | 5 | mg kg | 0 | 2 | | 5 |
| Lead | 5 | mg kg | 8 | | | 5 |
| Mercury | 0.1 | mg kg | 0.1 | 0.1 | | 0.1 |
| Nickel | 5 | mg kg | 58 | 120 | | 5 |
| inc | 5 | mg kg | 8 0 | 20 | | 5 |

| | | | | | | |
|--|------|-------|-------------|-------------|-------------|-------------|
| Client Sample ID | | | SB 20/0.3 | SB 20/1.0 | SB 20/1. | SB 20/3.0 |
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S1 Au1644 | S1 Au16446 | S1 Au16447 | S1 Au1644 |
| Date Sampled | | | Aug 0 , 201 |
| Test Reference | LO R | nit | | | | |
| Total Recoverable Hydrocarbons 2013 NEPM Fractions | | | | | | |
| Naphthalene ⁰⁰² | 0.5 | mg kg | | 0.5 | | |
| T RH C C10 | 20 | mg kg | | 20 | | |
| T RH C C10 less BT EX ⁰⁰ F1 | 20 | mg kg | | 20 | | |
| T RH C10 C1 | 50 | mg kg | | 50 | | |
| T RH C10 C1 less Naphthalene ⁰⁰¹ F2 | 50 | mg kg | | 50 | | |
| T RH C1 C | 100 | mg kg | | 100 | | |
| T RH C C 0 | 100 | mg kg | | 100 | | |
| T RH C10 C 0 total | 100 | mg kg | | 100 | | |
| Total Recoverable Hydrocarbons 1 NEPM Fractions | | | | | | |
| T RH C C | 20 | mg kg | | 20 | | |
| T RH C10 C1 | 20 | mg kg | | 20 | | |
| T RH C15 C28 | 50 | mg kg | | 50 | | |
| T RH C2 C | 50 | mg kg | | 50 | | |
| T RH C10 T otal | 50 | mg kg | | 50 | | |
| B TEX | | | | | | |
| Ben ene | 0.1 | mg kg | | 0.1 | | |
| T oluene | 0.1 | mg kg | | 0.1 | | |
| Ethylben ene | 0.1 | mg kg | | 0.1 | | |
| m p X ylenes | 0.2 | mg kg | | 0.2 | | |
| o X ylene | 0.1 | mg kg | | 0.1 | | |
| X ylenes T otal | 0. | mg kg | | 0. | | |
| Bromofluoroben ene surr. | 1 | | | 1 0 | | |



| Client Sample ID | | | SB 20/0.3 | SB 20/1.0 | SB 20/1. | SB 20/3.0 |
|---|------|-------|-------------|-------------|-------------|-------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S1 Au1644 | S1 Au1644 | S1 Au1644 | S1 Au1644 |
| Date Sampled | | | Aug 0 , 201 |
| Test Reference | LOR | nit | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | | | |
| Ben o a pyrene T EQ lower bound | 0.5 | mg kg | 0.5 | 0.5 | | |
| Ben o a pyrene T EQ medium bound | 0.5 | mg kg | 0. | 0. | | |
| Ben o a pyrene T EQ 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 | | |
| Ben a anthracene | 0.5 | mg kg | 0.5 | 0.5 | | |
| Ben o a pyrene | 0.5 | mg kg | 0.5 | 0.5 | | |
| Ben o b fluoranthene | 0.5 | mg kg | 0.5 | 0.5 | | |
| Ben o g,h,i perylene | 0.5 | mg kg | 0.5 | 0.5 | | |
| Ben o k fluoranthene | 0.5 | mg kg | 0.5 | 0.5 | | |
| Chrysene | 0.5 | mg kg | 0.5 | 0.5 | | |
| Diben 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, 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 | | |
| T otal PAH | 0.5 | mg kg | 0.5 | 0.5 | | |
| 2 Fluorobiphenyl surr. | 1 | | | 101 | | |
| p Terphenyl d1 surr. | 1 | | 8 | 120 | | |
| Organochlorine Pesticides | | | | | | |
| Chlordanes T otal | 0.1 | mg kg | 0.1 | | | 0.1 |
| . DDD | 0.05 | mg kg | 0.05 | | | 0.05 |
| . DDE | 0.05 | mg kg | 0.05 | | | 0.05 |
| . DDT | 0.05 | mg kg | 0.05 | | | 0.05 |
| a BHC | 0.05 | mg kg | 0.05 | | | 0.05 |
| Aldrin | 0.05 | mg kg | 0.05 | | | 0.05 |
| b BHC | 0.05 | mg kg | 0.05 | | | 0.05 |
| d BHC | 0.05 | mg kg | 0.05 | | | 0.05 |
| Dieldrin | 0.05 | mg kg | 0.05 | | | 0.05 |
| Endosulfan I | 0.05 | mg kg | 0.05 | | | 0.05 |
| Endosulfan II | 0.05 | mg kg | 0.05 | | | 0.05 |
| Endosulfan sulphate | 0.05 | mg kg | 0.05 | | | 0.05 |
| Endrin | 0.05 | mg kg | 0.05 | | | 0.05 |
| Endrin aldehyde | 0.05 | mg kg | 0.05 | | | 0.05 |
| Endrin ketone | 0.05 | mg kg | 0.05 | | | 0.05 |
| g BHC Lindane | 0.05 | mg kg | 0.05 | | | 0.05 |
| Heptachlor | 0.05 | mg kg | 0.05 | | | 0.05 |
| Heptachlor epoxide | 0.05 | mg kg | 0.05 | | | 0.05 |
| Hexachlorobene | 0.05 | mg kg | 0.05 | | | 0.05 |
| Methoxychlor | 0.05 | mg kg | 0.05 | | | 0.05 |
| T oxaphene | 1 | mg kg | 1 | | | 1 |
| Aldrin and Dieldrin T otal | 0.05 | mg kg | 0.05 | | | 0.05 |
| DDT DDE DDD T otal | 0.05 | mg kg | 0.05 | | | 0.05 |
| V ic EPA IWRG 21 OCP T otal | 0.1 | mg kg | 0.1 | | | 0.1 |
| V ic EPA IWRG 21 Other OCP T otal | 0.1 | mg kg | 0.1 | | | 0.1 |
| Dibutylchloroendate surr. | 1 | | 102 | | | 10 |
| T etrachloro m xylene surr. | 1 | | | | | 101 |



| Client Sample ID | | | SB 20/0.3 | SB 20/1.0 | SB 20/1. | SB 20/3.0 |
|------------------------------------|-----|-------|-------------|-------------|-------------|-------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S1 Au1644 | S1 Au1644 | S1 Au1644 | S1 Au1644 |
| Date Sampled | | | Aug 0 , 201 |
| Test Reference | LOR | nit | | | | |
| Organophosphorus Pesticides | | | | | | |
| A inphos methyl | 0.2 | mg kg | 0.2 | | | 0.2 |
| Boistar | 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 |
| Dia inon | 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 |
| O methoate | 2 | mg kg | 2 | | | 2 |
| Phorate | 0.2 | mg kg | 0.2 | | | 0.2 |
| Pirimiphos methyl | 0.2 | mg kg | 0.2 | | | 0.2 |
| Pyra ophos | 0.2 | mg kg | 0.2 | | | 0.2 |
| Ronnel | 0.2 | mg kg | 0.2 | | | 0.2 |
| T erbufos | 0.2 | mg kg | 0.2 | | | 0.2 |
| T etrachlorvinphos | 0.2 | mg kg | 0.2 | | | 0.2 |
| T okuthion | 0.2 | mg kg | 0.2 | | | 0.2 |
| T richloronate | 0.2 | mg kg | 0.2 | | | 0.2 |
| T riphénylphosphate surr. | 1 | | 10 | | | 8 |
| Polychlorinated B iphenyls | | | | | | |
| Aroclor 101 | 0.1 | mg kg | 0.1 | | | 0.1 |
| Aroclor 1221 | 0.1 | mg kg | 0.1 | | | 0.1 |
| Aroclor 12 2 | 0.1 | mg kg | 0.1 | | | 0.1 |
| Aroclor 12 2 | 0.1 | mg kg | 0.1 | | | 0.1 |
| Aroclor 12 8 | 0.1 | mg kg | 0.1 | | | 0.1 |
| Aroclor 125 | 0.1 | mg kg | 0.1 | | | 0.1 |
| Aroclor 12 0 | 0.1 | mg kg | 0.1 | | | 0.1 |
| T otal PCB | 0.1 | mg kg | 0.1 | | | 0.1 |
| Dibutylchloroendate surr. | 1 | | 102 | | | 10 |
| T etrachloro m xylene surr. | 1 | | | | | 101 |
| Moisture | | | | | | |
| | 1 | | .2 | .5 | .5 | .2 |



| | | | | | | |
|-------------------------|-----|-------|-------------|-------------|-------------|-------------|
| Client Sample ID | | | SB 20/0.3 | SB 20/1.0 | SB 20/1. | SB 20/3.0 |
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S1 Au1644 | S1 Au1644 | S1 Au1644 | S1 Au1644 |
| Date Sampled | | | Aug 0 , 201 |
| Test Reference | LOR | nit | | | | |
| Heavy Metals | | | | | | |
| Arsenic | 2 | mg kg | . | .2 | 5.8 | |
| Cadmium | 0. | mg kg | 0.5 | 0. | 0. | |
| Chromium | 5 | mg kg | 28 | | 8 | |
| Copper | 5 | mg kg | | 8 | 5 | |
| Lead | 5 | mg kg | 200 | 0 | 0 | |
| Mercury | 0.1 | mg kg | 0.2 | 0.5 | 0.2 | |
| Nickel | 5 | mg kg | | 200 | 1 | |
| inc | 5 | mg kg | 810 | 2 | 1 0 | |

| | | | | | | |
|---|-----|-------|-------------|-------------|-------------|-------------|
| Client Sample ID | | | SB 20/3. | SB 20/ .0 | SB 20/12.0 | SB 26/0.2 |
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S1 Au1644 | S1 Au1644 | S1 Au1644 | S1 Au1644 |
| Date Sampled | | | Aug 0 , 201 | Aug 0 , 201 | Aug 0 , 201 | Aug 10, 201 |
| Test Reference | LOR | nit | | | | |
| Total Recoverable Hydrocarbons 2013 NEPM Fractions | | | | | | |
| Naphthalen ⁰² | 0.5 | mg kg | 0.5 | | 0.5 | 0.5 |
| T RH C C10 | 20 | mg kg | 20 | | 20 | 20 |
| T RH C C10 less BT EX ⁰⁰ F1 | 20 | mg kg | 20 | | 20 | 20 |
| T RH C10 C1 | 50 | mg kg | 50 | | 50 | 50 |
| T RH C10 C1 less Naphthalen ⁰¹ F2 | 50 | mg kg | 50 | | 50 | 50 |
| T RH C1 C | 100 | mg kg | 100 | | 100 | 100 |
| T RH C C 0 | 100 | mg kg | 100 | | 100 | 100 |
| T RH C10 C 0 total | 100 | mg kg | 100 | | 100 | 100 |
| Total Recoverable Hydrocarbons 1 NEPM Fractions | | | | | | |
| T RH C C | 20 | mg kg | 20 | | 20 | 20 |
| T RH C10 C1 | 20 | mg kg | 20 | | 20 | 20 |
| T RH C15 C28 | 50 | mg kg | 50 | | 50 | 50 |
| T RH C2 C | 50 | mg kg | 50 | | 50 | 50 |
| T RH C10 T otal | 50 | mg kg | 50 | | 50 | 50 |
| B TEX | | | | | | |
| Ben ene | 0.1 | mg kg | 0.1 | | 0.1 | 0.1 |
| T oluene | 0.1 | mg kg | 0.1 | | 0.1 | 0.1 |
| Ethylben ene | 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 T otal | 0. | mg kg | 0. | | 0. | 0. |
| Bromofluoroben ene surr. | 1 | | 1 | | 5 | 1 |
| Polycyclic Aromatic Hydrocarbons | | | | | | |
| Ben o a pyrene T EQ lower bound | 0.5 | mg kg | 0.5 | 0.5 | 0.5 | 0.5 |
| Ben o a pyrene T EQ medium bound | 0.5 | mg kg | 0. | 0. | 0. | 0. |
| Ben o a pyrene T EQ 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 |
| Ben a anthracene | 0.5 | mg kg | 0.5 | 0.5 | 0.5 | 0.5 |
| Ben o a pyrene | 0.5 | mg kg | 0.5 | 0.5 | 0.5 | 0.5 |
| Ben o b fluoranthene | 0.5 | mg kg | 0.5 | 0.5 | 0.5 | 0.5 |
| Ben o g,h,i perylene | 0.5 | mg kg | 0.5 | 0.5 | 0.5 | 0.5 |



| Client Sample ID | | | SB 20/3. | SB 20/ .0 | SB 20/12.0 | SB 26/0.2 |
|--|------|----------|-------------|-------------|-------------|-------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S1 Au1644 | S1 Au1640 | S1 Au1641 | S1 Au1642 |
| Date Sampled | | | Aug 0 , 201 | Aug 0 , 201 | Aug 0 , 201 | Aug 10, 201 |
| Test Reference | LOR | nit | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | | | |
| 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, cd pyrene | 0.5 | mg kg | 0.5 | 0.5 | 0.5 | 0.5 |
| Naphthalene | 0.5 | mg kg | 0.5 | 0.5 | 0.5 | 0.5 |
| Phenanthrene | 0.5 | mg kg | 0.5 | 0.5 | 0.5 | 0.5 |
| Pyrene | 0.5 | mg kg | 0.5 | 0.5 | 0.5 | 0.5 |
| Total PAH | 0.5 | mg kg | 0.5 | 0.5 | 0.5 | 0.5 |
| 2 Fluorobiphenyl surr. | 1 | | 85 | | | 5 |
| p Terphenyl d1 surr. | 1 | | 10 | 121 | 11 | 11 |
| Phenols (Halogenated) | | | | | | |
| 2 Chlorophenol | 0.5 | mg kg | 0.5 | | 0.5 | |
| 2,4 Dichlorophenol | 0.5 | mg kg | 0.5 | | 0.5 | |
| 2,5 Trichlorophenol | 1 | mg kg | 1 | | 1 | |
| 2,6 Trichlorophenol | 1.0 | mg kg | 1 | | 1 | |
| 2,4 Dichlorophenol | 0.5 | mg kg | 0.5 | | 0.5 | |
| Chloro methylphenol | 1.0 | mg kg | 1 | | 1 | |
| Pentachlorophenol | 1.0 | mg kg | 1 | | 1 | |
| Tetrachlorophenols Total | 1.0 | mg kg | 1 | | 1 | |
| Total Halogenated Phenol | 1 | mg kg | 1 | | 1 | |
| Phenols (non Halogenated) | | | | | | |
| 2 Cyclohexyl dinitrophenol | 20 | mg kg | 20 | | 20 | |
| 2 Methyl dinitrophenol | 5 | mg kg | 5 | | 5 | |
| 2 Methylphenol o Cresol | 0.2 | mg kg | 0.2 | | 0.2 | |
| 2 Nitrophenol | 1.0 | mg kg | 1 | | 1 | |
| 2,4 Dimethylphenol | 0.5 | mg kg | 0.5 | | 0.5 | |
| 2,6 Dinitrophenol | 5 | mg kg | 5 | | 5 | |
| Methylphenol m p Cresol | 0. | mg kg | 0. | | 0. | |
| Nitrophenol | 5 | mg kg | 5 | | 5 | |
| Dinoseb | 20 | mg kg | 20 | | 20 | |
| Phenol | 0.5 | mg kg | 0.5 | | 0.5 | |
| Total Non Halogenated Phenol | 20 | mg kg | 20 | | 20 | |
| Phenol d surr. | 1 | | 0 | | 8 | |
| Clay | | | | | | |
| Clay | 1 | | | 1 | | |
| Conductivity (1:5 aqueous extract at 25°C as rec.) | 10 | uS cm | | 1 | | |
| pH (units)(1:5 soil:CaCl2 extract at 25°C as rec.) | 0.1 | pH nits | | .2 | | |
| Total Organic Carbon | 0.1 | | | 0. | | |
| Cation Exchange Capacity | 0.05 | meq 100g | | 1.0 | | |
| Iron | 0.01 | | | 0.0 | | |
| Moisture | 1 | | 20 | 1 | 1 | 10 |
| Heavy Metals | | | | | | |
| Arsenic | 2 | mg kg | 2 | | . | .5 |
| Cadmium | 0. | mg kg | 0. | | 0. | 0. |
| Chromium | 5 | mg kg | 5 | | 5 | 1 |
| Copper | 5 | mg kg | 5 | | 5 | 25 |
| Iron | 20 | mg kg | | 0 | | |



| | | | | | | | |
|-------------------------|------|-------|-------------|-------------|-------------|-------------|--|
| Client Sample ID | | | SB 20/3. | SB 20/ .0 | SB 20/12.0 | SB 26/0.2 | |
| Sample Matrix | | | Soil | Soil | Soil | Soil | |
| Eurofins mgt Sample No. | | | S1 Au1644 | S1 Au1640 | S1 Au1641 | S1 Au1642 | |
| Date Sampled | | | Aug 0 , 201 | Aug 0 , 201 | Aug 0 , 201 | Aug 10, 201 | |
| Test Reference | LO R | nit | | | | | |
| Heavy Metals | | | | | | | |
| Lead | 5 | mg kg | 5 | | 5 | 120 | |
| Mercury | 0.1 | mg kg | 0.1 | | 0.1 | 0.2 | |
| Nickel | 5 | mg kg | 5 | | 5 | 1 | |
| Inc | 5 | mg kg | 5 | | 12 | 0 | |

| | | | | | | | |
|--|------|-------|-------------|-------------|-------------|-------------|--|
| Client Sample ID | | | SB 26/0. | SB 26/2.0 | SB 26/3.0 | SB 26/4.0 | |
| Sample Matrix | | | Soil | Soil | Soil | Soil | |
| Eurofins mgt Sample No. | | | S1 Au1643 | S1 Au1644 | S1 Au1645 | S1 Au1646 | |
| Date Sampled | | | Aug 10, 201 | Aug 10, 201 | Aug 10, 201 | Aug 10, 201 | |
| Test Reference | LO R | nit | | | | | |
| Total Recoverable Hydrocarbons 2013 NEPM Fractions | | | | | | | |
| Naphthalene ⁰² | 0.5 | mg kg | | | | 0.5 | |
| T RH C C10 | 20 | mg kg | | | | 20 | |
| T RH C C10 less BT EX ⁰⁰ F1 | 20 | mg kg | | | | 20 | |
| T RH C10 C1 | 50 | mg kg | | | | 2 | |
| T RH C10 C1 less Naphthalene ⁰⁰¹ F2 | 50 | mg kg | | | | 2 | |
| T RH C1 C | 100 | mg kg | | | | 100 | |
| T RH C C 0 | 100 | mg kg | | | | 100 | |
| T RH C10 C 0 total | 100 | mg kg | | | | 100 | |
| Total Recoverable Hydrocarbons 1 NEPM Fractions | | | | | | | |
| T RH C C | 20 | mg kg | | | | 20 | |
| T RH C10 C1 | 20 | mg kg | | | | | |
| T RH C15 C28 | 50 | mg kg | | | | 50 | |
| T RH C2 C | 50 | mg kg | | | | 50 | |
| T RH C10 T otal | 50 | mg kg | | | | | |
| B TEX | | | | | | | |
| Ben ene | 0.1 | mg kg | | | | 0.1 | |
| T oluene | 0.1 | mg kg | | | | 0.1 | |
| Ethylben ene | 0.1 | mg kg | | | | 0.1 | |
| m p X ylenes | 0.2 | mg kg | | | | 0.2 | |
| o X ylene | 0.1 | mg kg | | | | 0.1 | |
| X ylenes T otal | 0. | mg kg | | | | 0. | |
| Bromofluoroben ene surr. | 1 | | | | | 1 | |
| Polycyclic Aromatic Hydrocarbons | | | | | | | |
| Ben o a pyrene T EQ lower bound | 0.5 | mg kg | | | | 0.5 | |
| Ben o a pyrene T EQ medium bound | 0.5 | mg kg | | | | 0. | |
| Ben o a pyrene T EQ 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 | |
| Ben a anthracene | 0.5 | mg kg | | | | 0.5 | |
| Ben o a pyrene | 0.5 | mg kg | | | | 0.5 | |
| Ben o b fluoranthene | 0.5 | mg kg | | | | 0.5 | |
| Ben o g.h.i perylene | 0.5 | mg kg | | | | 0.5 | |
| Ben o k fluoranthene | 0.5 | mg kg | | | | 0.5 | |
| Chrysene | 0.5 | mg kg | | | | 0.5 | |
| Diben a.h anthracene | 0.5 | mg kg | | | | 0.5 | |
| Fluoranthene | 0.5 | mg kg | | | | 0.5 | |



| Client Sample ID | | | SB 26/0. | SB 26/2.0 | SB 26/3.0 | SB 26/4.0 | |
|---|------|-------|-------------|-------------|-------------|-------------|---------|
| Sample Matrix | | | Soil | Soil | Soil | Soil | |
| Eurofins mgt Sample No. | | | S1 Au164 3 | S1 Au164 4 | S1 Au164 5 | S1 Au164 6 | Au164 6 |
| Date Sampled | | | Aug 10, 201 | Aug 10, 201 | Aug 10, 201 | Aug 10, 201 | |
| Test Reference | LOR | nit | | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | | | | |
| 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 | |
| T otal PAH | 0.5 | mg kg | | | | 0.5 | |
| 2 Fluorobiphenyl surr. | 1 | | | | | 11 | |
| p T erphenyl d1 surr. | 1 | | | | | 1 0 | |
| Organochlorine Pesticides | | | | | | | |
| Chlordanes T otal | 0.1 | mg kg | 0.1 | | 0.1 | | |
| . DDD | 0.05 | mg kg | 0.05 | | 0.05 | | |
| . DDE | 0.05 | mg kg | 0.05 | | 0.05 | | |
| . DDT | 0.05 | mg kg | 0.05 | | 0.05 | | |
| a BHC | 0.05 | mg kg | 0.05 | | 0.05 | | |
| Aldrin | 0.05 | mg kg | 0.05 | | 0.05 | | |
| b BHC | 0.05 | mg kg | 0.05 | | 0.05 | | |
| d BHC | 0.05 | mg kg | 0.05 | | 0.05 | | |
| Dieldrin | 0.05 | mg kg | 0.05 | | 0.05 | | |
| Endosulfan I | 0.05 | mg kg | 0.05 | | 0.05 | | |
| Endosulfan II | 0.05 | mg kg | 0.05 | | 0.05 | | |
| Endosulfan sulphate | 0.05 | mg kg | 0.05 | | 0.05 | | |
| Endrin | 0.05 | mg kg | 0.05 | | 0.05 | | |
| Endrin aldehyde | 0.05 | mg kg | 0.05 | | 0.05 | | |
| Endrin ketone | 0.05 | mg kg | 0.05 | | 0.05 | | |
| g BHC Lindane | 0.05 | mg kg | 0.05 | | 0.05 | | |
| Heptachlor | 0.05 | mg kg | 0.05 | | 0.05 | | |
| Heptachlor epoxide | 0.05 | mg kg | 0.05 | | 0.05 | | |
| Hexachlorobenzene | 0.05 | mg kg | 0.05 | | 0.05 | | |
| Methoxychlor | 0.05 | mg kg | 0.05 | | 0.05 | | |
| T oxaphene | 1 | mg kg | 1 | | 1 | | |
| Aldrin and Dieldrin T otal | 0.05 | mg kg | 0.05 | | 0.05 | | |
| DDT DDE DDD T otal | 0.05 | mg kg | 0.05 | | 0.05 | | |
| V ic EPA IWRG 21 OCP T otal | 0.1 | mg kg | 0.1 | | 0.1 | | |
| V ic EPA IWRG 21 Other OCP T otal | 0.1 | mg kg | 0.1 | | 0.1 | | |
| Dibutylchlorodate surr. | 1 | | 110 | | 118 | | |
| T etrachloro m xylene surr. | 1 | | 10 | | | | |
| Organophosphorus Pesticides | | | | | | | |
| A inphos 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 | | |
| Dia inon | 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 | | |



| Client Sample ID | | | SB 26/0. | SB 26/2.0 | SB 26/3.0 | SB 26/4.0 | |
|--|------|---------|-------------|-------------|-------------|-------------|---------|
| Sample Matrix | | | Soil | Soil | Soil | Soil | |
| Eurofins mgt Sample No. | | | S1 Au164 3 | S1 Au164 4 | S1 Au164 5 | S1 Au164 6 | Au164 6 |
| Date Sampled | | | Aug 10, 201 | Aug 10, 201 | Aug 10, 201 | Aug 10, 201 | |
| Test Reference | LO R | nit | | | | | |
| Organophosphorus Pesticides | | | | | | | |
| 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 | | |
| O methoate | 2 | mg kg | 2 | | 2 | | |
| Phorate | 0.2 | mg kg | 0.2 | | 0.2 | | |
| Pirimiphos methyl | 0.2 | mg kg | 0.2 | | 0.2 | | |
| Pyra ophos | 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 | | 12 | | 12 | | |
| Polychlorinated Biphenyls | | | | | | | |
| Aroclor 101 | 0.1 | mg kg | 0.1 | | 0.1 | | |
| Aroclor 1221 | 0.1 | mg kg | 0.1 | | 0.1 | | |
| Aroclor 12 2 | 0.1 | mg kg | 0.1 | | 0.1 | | |
| Aroclor 12 2 | 0.1 | mg kg | 0.1 | | 0.1 | | |
| Aroclor 12 8 | 0.1 | mg kg | 0.1 | | 0.1 | | |
| Aroclor 125 | 0.1 | mg kg | 0.1 | | 0.1 | | |
| Aroclor 12 0 | 0.1 | mg kg | 0.1 | | 0.1 | | |
| Total PCB | 0.1 | mg kg | 0.1 | | 0.1 | | |
| Dibutylchlorendate surr. | 1 | | 110 | | 118 | | |
| Tetrachloro m xylene surr. | 1 | | 10 | | | | |
| pH (1:5 Aqueous extract at 25°C as rec.) | 0.1 | pH nits | | 8.8 | | | |
| Moisture | 1 | | | 1 | 1 | 1 | |
| Heavy Metals | | | | | | | |
| Arsenic | 2 | mg kg | | | | | 2 |
| Cadmium | 0. | mg kg | | | | | 0. |
| Chromium | 5 | mg kg | | | | | 5 |
| Copper | 5 | mg kg | | | | | 5 |
| Lead | 5 | mg kg | | | | | 5 |
| Mercury | 0.1 | mg kg | | | | | 0.1 |
| Nickel | 5 | mg kg | | | | | 5 |
| inc | 5 | mg kg | | | | | 12 |



| | | | | | | | |
|--|------|-------|-------------|-------------|-------------|-------------|---------|
| Client Sample ID | | | SB 26/ .0 | SB 26/6.0 | SB 26/ .0 | SB 26/1. | 2.0 |
| Sample Matrix | | | Soil | Soil | Soil | Soil | |
| Eurofins mgt Sample No. | | | S1 Au164 | S1 Au164 | S1 Au164 | S1 Au164 | Au16460 |
| Date Sampled | | | Aug 10, 201 | Aug 10, 201 | Aug 10, 201 | Aug 10, 201 | |
| Test Reference | LO R | nit | | | | | |
| Total Recoverable Hydrocarbons 2013 NEPM Fractions | | | | | | | |
| Naphthalen ⁰⁰² | 0.5 | mg kg | | 0.5 | | . | |
| T RH C C10 | 20 | mg kg | | 20 | | 1 | |
| T RH C C10 less BT EX ⁰⁰ F1 | 20 | mg kg | | 20 | | 0 | |
| T RH C10 C1 | 50 | mg kg | | | | 1 00 | |
| T RH C10 C1 less Naphthalen ⁰⁰¹ F2 | 50 | mg kg | | | | 1 00 | |
| T RH C1 C | 100 | mg kg | | 1 0 | | 1800 | |
| T RH C C 0 | 100 | mg kg | | 100 | | 2 0 | |
| T RH C10 C 0 total | 100 | mg kg | | 1 | | 0 | |
| Total Recoverable Hydrocarbons 1 NEPM Fractions | | | | | | | |
| T RH C C | 20 | mg kg | | 20 | | 20 | |
| T RH C10 C1 | 20 | mg kg | | | | 1000 | |
| T RH C15 C28 | 50 | mg kg | | 81 | | 1500 | |
| T RH C2 C | 50 | mg kg | | | | 500 | |
| T RH C10 T otal | 50 | mg kg | | 18 | | 000 | |
| B TEX | | | | | | | |
| Ben ene | 0.1 | mg kg | | 0.1 | | 0.1 | |
| T oluene | 0.1 | mg kg | | 0.1 | | 0.1 | |
| Ethylben ene | 0.1 | mg kg | | 0.1 | | 0. | |
| m p X ylenes | 0.2 | mg kg | | 0.2 | | 0.5 | |
| o X ylene | 0.1 | mg kg | | 0.1 | | 0. | |
| X ylenes T otal | 0. | mg kg | | 0. | | 0.8 | |
| Bromofluoroben ene surr. | 1 | | | 5 | | 10 | |
| V olatile Organics | | | | | | | |
| 1.1 Dichloroethane | 0.5 | mg kg | | 0.5 | | 0.5 | |
| 1.1 Dichloroethene | 0.5 | mg kg | | 0.5 | | 0.5 | |
| 1.1.1 T richloroethane | 0.5 | mg kg | | 0.5 | | 0.5 | |
| 1.1.1.2 T etrachloroethane | 0.5 | mg kg | | 0.5 | | 0.5 | |
| 1.1.2 T richloroethane | 0.5 | mg kg | | 0.5 | | 0.5 | |
| 1.1.2.2 T etrachloroethane | 0.5 | mg kg | | 0.5 | | 0.5 | |
| 1.2 Dibromoethane | 0.5 | mg kg | | 0.5 | | 0.5 | |
| 1.2 Dichloroben ene | 0.5 | mg kg | | 0.5 | | 0.5 | |
| 1.2 Dichloroethane | 0.5 | mg kg | | 0.5 | | 0.5 | |
| 1.2 Dichloropropane | 0.5 | mg kg | | 0.5 | | 0.5 | |
| 1.2. T richloropropane | 0.5 | mg kg | | 0.5 | | 0.5 | |
| 1.2. T rimethylben ene | 0.5 | mg kg | | 0.5 | | . | |
| 1. Dichloroben ene | 0.5 | mg kg | | 0.5 | | 0.5 | |
| 1. Dichloropropane | 0.5 | mg kg | | 0.5 | | 0.5 | |
| 1. .5 T rimethylben ene | 0.5 | mg kg | | 0.5 | | 0. | |
| 1. Dichloroben ene | 0.5 | mg kg | | 0.5 | | 0.5 | |
| 2 Butanone MEK | 0.5 | mg kg | | 0.5 | | 0.5 | |
| 2 Propanone Acetone | 0.5 | mg kg | | 0.5 | | 0.5 | |
| Chlorotoluene | 0.5 | mg kg | | 0.5 | | 0.5 | |
| Methyl 2 pentanone MIBK | 0.5 | mg kg | | 0.5 | | 0.5 | |
| Allyl chloride | 0.5 | mg kg | | 0.5 | | 0.5 | |
| Ben ene | 0.1 | mg kg | | 0.1 | | 0.1 | |
| Bromoben ene | 0.5 | mg kg | | 0.5 | | 0.5 | |
| Bromochloromethane | 0.5 | mg kg | | 0.5 | | 0.5 | |
| Bromodichloromethane | 0.5 | mg kg | | 0.5 | | 0.5 | |
| Bromoform | 0.5 | mg kg | | 0.5 | | 0.5 | |



| Client Sample ID | | | SB 26/ .0 | SB 26/6.0 | SB 26/ .0 | SB 26/1. | 2.0 |
|---|-----|-------|-------------|-------------|-------------|-------------|---------|
| Sample Matrix | | | Soil | Soil | Soil | Soil | |
| Eurofins mgt Sample No. | | | S1 Au164 | S1 Au164 | S1 Au164 | S1 Au164 | Au16460 |
| Date Sampled | | | Aug 10, 201 | Aug 10, 201 | Aug 10, 201 | Aug 10, 201 | |
| Test Reference | LOR | nit | | | | | |
| Volatile Organics | | | | | | | |
| Bromomethane | 0.5 | mg kg | 0.5 | | | 0.5 | |
| Carbon disulfide | 0.5 | mg kg | 0.5 | | | 0.5 | |
| Carbon Tetrachloride | 0.5 | mg kg | 0.5 | | | 0.5 | |
| Chlorobenzene | 0.5 | mg kg | 0.5 | | | 0.5 | |
| Chloroethane | 0.5 | mg kg | 0.5 | | | 0.5 | |
| Chloroform | 0.5 | mg kg | 0.5 | | | 0.5 | |
| Chloromethane | 0.5 | mg kg | 0.5 | | | 0.5 | |
| cis 1,2 Dichloroethene | 0.5 | mg kg | 0.5 | | | 0.5 | |
| cis 1,3 Dichloropropene | 0.5 | mg kg | 0.5 | | | 0.5 | |
| Dibromochloromethane | 0.5 | mg kg | 0.5 | | | 0.5 | |
| Dibromomethane | 0.5 | mg kg | 0.5 | | | 0.5 | |
| Dichlorodifluoromethane | 0.5 | mg kg | 0.5 | | | 0.5 | |
| Ethylbenzene | 0.1 | mg kg | 0.1 | | | 0. | |
| Iodomethane | 0.5 | mg kg | 0.5 | | | 0.5 | |
| Isopropylbenzene Cumene | 0.5 | mg kg | 0.5 | | | 0.5 | |
| m,p Xylenes | 0.2 | mg kg | 0.2 | | | 0.5 | |
| Methylene Chloride | 0.5 | mg kg | 0.5 | | | 0.5 | |
| o-Xylene | 0.1 | mg kg | 0.1 | | | 0. | |
| Styrene | 0.5 | mg kg | 0.5 | | | 0.5 | |
| Tetrachloroethene | 0.5 | mg kg | 0.5 | | | 0.5 | |
| Toluene | 0.1 | mg kg | 0.1 | | | 0.1 | |
| trans 1,2 Dichloroethene | 0.5 | mg kg | 0.5 | | | 0.5 | |
| trans 1,3 Dichloropropene | 0.5 | mg kg | 0.5 | | | 0.5 | |
| Trichloroethene | 0.5 | mg kg | 0.5 | | | 0.5 | |
| Trichlorofluoromethane | 0.5 | mg kg | 0.5 | | | 0.5 | |
| Vinyl chloride | 0.5 | mg kg | 0.5 | | | 0.5 | |
| Xylenes Total | 0. | mg kg | 0. | | | 0.8 | |
| Total MAH | 0.5 | mg kg | 0.5 | | | 1.1 | |
| Vic EPA IWRG 21 CHC Total | 0.5 | mg kg | 0.5 | | | 0.5 | |
| Vic EPA IWRG 21 Other CHC Total | 0.5 | mg kg | 0.5 | | | 0.5 | |
| Bromofluorobenzene surr. | 1 | | 10 | | | 10 | |
| Toluene d8 surr. | 1 | | 10 | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | | | | |
| Benzo[a]pyrene TEQ lower bound | 0.5 | mg kg | | 0.5 | | 1. | |
| Benzo[a]pyrene TEQ medium bound | 0.5 | mg kg | | 0. | | 2.2 | |
| Benzo[a]pyrene TEQ upper bound | 0.5 | mg kg | | 1.2 | | 2. | |
| Acenaphthene | 0.5 | mg kg | | 0.5 | | 2. | |
| Acenaphthylene | 0.5 | mg kg | | 0.5 | | 0.5 | |
| Anthracene | 0.5 | mg kg | | 0.5 | | 1. | |
| Benzo[a]anthracene | 0.5 | mg kg | | 0.5 | | 1.8 | |
| Benzo[a]pyrene | 0.5 | mg kg | | 0.5 | | 1. | |
| Benzo[b]fluoranthene | 0.5 | mg kg | | 0.5 | | 1. | |
| Benzo[g,h,i]perylene | 0.5 | mg kg | | 0.5 | | 0. | |
| Benzo[k]fluoranthene | 0.5 | mg kg | | 0.5 | | 1.1 | |
| Chrysene | 0.5 | mg kg | | 0.5 | | 1. | |
| Dibenz[a,h]anthracene | 0.5 | mg kg | | 0.5 | | 0.5 | |
| Fluoranthene | 0.5 | mg kg | | 0.5 | | .8 | |
| Fluorene | 0.5 | mg kg | | 0.5 | | 2. | |
| Indeno 1,2,3-cd pyrene | 0.5 | mg kg | | 0.5 | | 0.8 | |



| Client Sample ID | | | SB 26/ .0 | SB 26/6.0 | SB 26/ .0 | SB 26/1. | 2.0 |
|---|------|-------|-------------|-------------|-------------|-------------|---------|
| Sample Matrix | | | Soil | Soil | Soil | Soil | |
| Eurofins mgt Sample No. | | | S1 Au164 | S1 Au164 | S1 Au164 | S1 Au164 | Au16460 |
| Date Sampled | | | Aug 10, 201 | Aug 10, 201 | Aug 10, 201 | Aug 10, 201 | |
| Test Reference | LOR | nit | | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | | | | |
| Naphthalene | 0.5 | mg kg | | 0.5 | | . | |
| Phenanthrene | 0.5 | mg kg | | 0.5 | | . | |
| Pyrene | 0.5 | mg kg | | 0.5 | | 5.2 | |
| Total PAH | 0.5 | mg kg | | 0.5 | | . | |
| 2 Fluorobiphenyl surr. | 1 | | | 100 | | 102 | |
| p Terphenyl d1 surr. | 1 | | | 10 | | 102 | |
| Organochlorine Pesticides | | | | | | | |
| Chlordanes Total | 0.1 | mg kg | | | 0.1 | | |
| . DDD | 0.05 | mg kg | | | 0.05 | | |
| . DDE | 0.05 | mg kg | | | 0.05 | | |
| . DDT | 0.05 | mg kg | | | 0.05 | | |
| a BHC | 0.05 | mg kg | | | 0.05 | | |
| Aldrin | 0.05 | mg kg | | | 0.05 | | |
| b BHC | 0.05 | mg kg | | | 0.05 | | |
| d BHC | 0.05 | mg kg | | | 0.05 | | |
| Dieldrin | 0.05 | mg kg | | | 0.05 | | |
| Endosulfan I | 0.05 | mg kg | | | 0.05 | | |
| Endosulfan II | 0.05 | mg kg | | | 0.05 | | |
| Endosulfan sulphate | 0.05 | mg kg | | | 0.05 | | |
| Endrin | 0.05 | mg kg | | | 0.05 | | |
| Endrin aldehyde | 0.05 | mg kg | | | 0.05 | | |
| Endrin ketone | 0.05 | mg kg | | | 0.05 | | |
| g BHC Lindane | 0.05 | mg kg | | | 0.05 | | |
| Heptachlor | 0.05 | mg kg | | | 0.05 | | |
| Heptachlor epoxide | 0.05 | mg kg | | | 0.05 | | |
| Hexachlorobene | 0.05 | mg kg | | | 0.05 | | |
| Methoxychlor | 0.05 | mg kg | | | 0.05 | | |
| 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 21 OCP Total | 0.1 | mg kg | | | 0.1 | | |
| Vic EPA IWRG 21 Other OCP Total | 0.1 | mg kg | | | 0.1 | | |
| Dibutylchloride surr. | 1 | | | | 2 | | |
| Tetrachloro m xylene surr. | 1 | | | | | | |
| Organophosphorus Pesticides | | | | | | | |
| A inphos 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 | | |
| 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 | | |
| Dia inon | 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 | | |



| Client Sample ID | | | SB 26/ .0 | SB 26/6.0 | SB 26/ .0 | SB 26/1. | 2.0 |
|------------------------------------|-----|-------|-------------|-------------|-------------|-------------|---------|
| Sample Matrix | | | Soil | Soil | Soil | Soil | |
| Eurofins mgt Sample No. | | | S1 Au164 | S1 Au164 | S1 Au164 | S1 Au164 | Au16460 |
| Date Sampled | | | Aug 10, 201 | Aug 10, 201 | Aug 10, 201 | Aug 10, 201 | |
| Test Reference | LOR | nit | | | | | |
| Organophosphorus Pesticides | | | | | | | |
| 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 | | |
| O methoate | 2 | mg kg | | | 2 | | |
| Phorate | 0.2 | mg kg | | | 0.2 | | |
| Pirimphos methyl | 0.2 | mg kg | | | 0.2 | | |
| Pyra ophos | 0.2 | mg kg | | | 0.2 | | |
| Ronnel | 0.2 | mg kg | | | 0.2 | | |
| T erbufos | 0.2 | mg kg | | | 0.2 | | |
| T etrachlorvinphos | 0.2 | mg kg | | | 0.2 | | |
| T okuthion | 0.2 | mg kg | | | 0.2 | | |
| T richloronate | 0.2 | mg kg | | | 0.2 | | |
| T riphenylphosphate surr. | 1 | | | | 10 | | |
| Polychlorinated B iphenyls | | | | | | | |
| Aroclor 101 | 0.1 | mg kg | | | 0.1 | | |
| Aroclor 1221 | 0.1 | mg kg | | | 0.1 | | |
| Aroclor 12 2 | 0.1 | mg kg | | | 0.1 | | |
| Aroclor 12 2 | 0.1 | mg kg | | | 0.1 | | |
| Aroclor 12 8 | 0.1 | mg kg | | | 0.1 | | |
| Aroclor 125 | 0.1 | mg kg | | | 0.1 | | |
| Aroclor 12 0 | 0.1 | mg kg | | | 0.1 | | |
| T otal PCB | 0.1 | mg kg | | | 0.1 | | |
| Dibutylchloredate surr. | 1 | | | | 2 | | |
| T etrachloro m xylene surr. | 1 | | | | | | |
| Phenols (Halogenated) | | | | | | | |
| 2 Chlorophenol | 0.5 | mg kg | | | | 0.5 | |
| 2, Dichlorophenol | 0.5 | mg kg | | | | 0.5 | |
| 2, .5 T richlorophenol | 1 | mg kg | | | | 1 | |
| 2, . T richlorophenol | 1.0 | mg kg | | | | 1 | |
| 2, Dichlorophenol | 0.5 | mg kg | | | | 0.5 | |
| Chloro methylphenol | 1.0 | mg kg | | | | 1 | |
| Pentachlorophenol | 1.0 | mg kg | | | | 1 | |
| T etrachlorophenols T otal | 1.0 | mg kg | | | | 1 | |
| T otal Halogenated Phenol | 1 | mg kg | | | | 1 | |
| Phenols (non Halogenated) | | | | | | | |
| 2 Cyclohexyl . dinitrophenol | 20 | mg kg | | | | 20 | |
| 2 Methyl . dinitrophenol | 5 | mg kg | | | | 5 | |
| 2 Methylphenol o Cresol | 0.2 | mg kg | | | | 0.2 | |
| 2 Nitrophenol | 1.0 | mg kg | | | | 1 | |
| 2, Dimethylphenol | 0.5 | mg kg | | | | 0.5 | |
| 2, Dinitrophenol | 5 | mg kg | | | | 5 | |



| | | | | | | | |
|------------------------------|-----|-------|-------------|-------------|-------------|-------------|---------|
| Client Sample ID | | | SB 26/ .0 | SB 26/6.0 | SB 26/ .0 | SB 26/1. | 2.0 |
| Sample Matrix | | | Soil | Soil | Soil | Soil | |
| Eurofins mgt Sample No. | | | S1 Au164 | S1 Au164 | S1 Au164 | S1 Au164 | Au16460 |
| Date Sampled | | | Aug 10, 201 | Aug 10, 201 | Aug 10, 201 | Aug 10, 201 | |
| Test Reference | LOR | nit | | | | | |
| Phenols (non Halogenated) | | | | | | | |
| Methylphenol m p Cresol | 0. | mg kg | | | | 0. | |
| Nitrophenol | 5 | mg kg | | | | 5 | |
| Dinoseb | 20 | mg kg | | | | 20 | |
| Phenol | 0.5 | mg kg | | | | 0.5 | |
| Total Non Halogenated Phenol | 20 | mg kg | | | | 20 | |
| Phenol d surr. | 1 | | | | | | |
| Moisture | | | | | | | |
| | 1 | | 1 | 1 | 1 | 12 | |
| Heavy Metals | | | | | | | |
| Arsenic | 2 | mg kg | | 2 | | | |
| Cadmium | 0. | mg kg | | 0. | | 1.1 | |
| Chromium | 5 | mg kg | | 5 | | | |
| Copper | 5 | mg kg | | 5 | | 2 0 | |
| Lead | 5 | mg kg | | 11 | | 000 | |
| Mercury | 0.1 | mg kg | | 0.1 | | 0.2 | |
| Nickel | 5 | mg kg | | 5 | | | |
| inc | 5 | mg kg | | 5 | | 2 00 | |

| | | | | | | | |
|--|-----|-------|-------------|-------------|-------------|-------------|--|
| Client Sample ID | | | SB 27/0.2 | SB 27/0. | SB 27/1.0 | SB 27/3. | |
| Sample Matrix | | | Soil | Soil | Soil | Soil | |
| Eurofins mgt Sample No. | | | S1 Au16461 | S1 Au16462 | S1 Au16463 | S1 Au16464 | |
| Date Sampled | | | Aug 0 , 201 | |
| Test Reference | LOR | nit | | | | | |
| Total Recoverable Hydrocarbons 2013 NEPM Fractions | | | | | | | |
| Naphthalene ⁰⁰ | 0.5 | mg kg | | | | 0.5 | |
| T R H C C10 | 20 | mg kg | | | | 20 | |
| T R H C C10 less BT EX ⁰⁰ F1 | 20 | mg kg | | | | 20 | |
| T R H C10 C1 | 50 | mg kg | | | | 50 | |
| T R H C10 C1 less Naphthalene ⁰⁰¹ F2 | 50 | mg kg | | | | 50 | |
| T R H C1 C | 100 | mg kg | | | | 100 | |
| T R H C C 0 | 100 | mg kg | | | | 100 | |
| T R H C10 C 0 total | 100 | mg kg | | | | 100 | |
| Total Recoverable Hydrocarbons 1 NEPM Fractions | | | | | | | |
| T R H C C | 20 | mg kg | | | | 20 | |
| T R H C10 C1 | 20 | mg kg | | | | 20 | |
| T R H C15 C28 | 50 | mg kg | | | | 50 | |
| T R H C2 C | 50 | mg kg | | | | 50 | |
| T R H C10 T otal | 50 | mg kg | | | | 50 | |
| B TEX | | | | | | | |
| Ben ene | 0.1 | mg kg | | | | 0.1 | |
| T oluene | 0.1 | mg kg | | | | 0.1 | |
| Ethylben ene | 0.1 | mg kg | | | | 0.1 | |
| m p X ylenes | 0.2 | mg kg | | | | 0.2 | |
| o X ylene | 0.1 | mg kg | | | | 0.1 | |
| X ylenes T otal | 0. | mg kg | | | | 0. | |
| Bromofluoroben ene surr. | 1 | | | | | 1 0 | |



| Client Sample ID | | | SB 27/0.2 | SB 27/0. | SB 27/1.0 | SB 27/3. |
|---|------|-------|-------------|-------------|-------------|-------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S1 Au16461 | S1 Au16462 | S1 Au16463 | S1 Au16466 |
| Date Sampled | | | Aug 0 , 201 |
| Test Reference | LOR | nit | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | | | |
| Ben o a pyrene T EQ lower bound | 0.5 | mg kg | | | 0.5 | 0.5 |
| Ben o a pyrene T EQ medium bound | 0.5 | mg kg | | | 0. | 0. |
| Ben o a pyrene T EQ 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 |
| Ben a anthracene | 0.5 | mg kg | | | 0.5 | 0.5 |
| Ben o a pyrene | 0.5 | mg kg | | | 0.5 | 0.5 |
| Ben o b fluoranthene | 0.5 | mg kg | | | 0.5 | 0.5 |
| Ben o g,h,i perylene | 0.5 | mg kg | | | 0.5 | 0.5 |
| Ben o k fluoranthene | 0.5 | mg kg | | | 0.5 | 0.5 |
| Chrysene | 0.5 | mg kg | | | 0.5 | 0.5 |
| Diben 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, 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 |
| T otal PAH | 0.5 | mg kg | | | 0.5 | 0.5 |
| 2 Fluorobiphenyl surr. | 1 | | | | 101 | 120 |
| p Terphenyl d1 surr. | 1 | | | | 10 | 1 5 |
| Organochlorine Pesticides | | | | | | |
| Chlordanes T otal | 0.1 | mg kg | 0.1 | | | |
| . DDD | 0.05 | mg kg | 0.05 | | | |
| . DDE | 0.05 | mg kg | 0.05 | | | |
| . DDT | 0.05 | mg kg | 0.05 | | | |
| a BHC | 0.05 | mg kg | 0.05 | | | |
| Aldrin | 0.05 | mg kg | 0.05 | | | |
| b BHC | 0.05 | mg kg | 0.05 | | | |
| d BHC | 0.05 | mg kg | 0.05 | | | |
| Dieldrin | 0.05 | mg kg | 0.05 | | | |
| Endosulfan I | 0.05 | mg kg | 0.05 | | | |
| Endosulfan II | 0.05 | mg kg | 0.05 | | | |
| Endosulfan sulphate | 0.05 | mg kg | 0.05 | | | |
| Endrin | 0.05 | mg kg | 0.05 | | | |
| Endrin aldehyde | 0.05 | mg kg | 0.05 | | | |
| Endrin ketone | 0.05 | mg kg | 0.05 | | | |
| g BHC Lindane | 0.05 | mg kg | 0.05 | | | |
| Heptachlor | 0.05 | mg kg | 0.05 | | | |
| Heptachlor epoxide | 0.05 | mg kg | 0.05 | | | |
| Hexachlorobene | 0.05 | mg kg | 0.05 | | | |
| Methoxychlor | 0.05 | mg kg | 0.05 | | | |
| T oxaphene | 1 | mg kg | 1 | | | |
| Aldrin and Dieldrin T otal | 0.05 | mg kg | 0.05 | | | |
| DDT DDE DDD T otal | 0.05 | mg kg | 0.05 | | | |
| V ic EPA IWRG 21 OCP T otal | 0.1 | mg kg | 0.1 | | | |
| V ic EPA IWRG 21 Other OCP T otal | 0.1 | mg kg | 0.1 | | | |
| Dibutylchlorodate surr. | 1 | | 110 | | | |
| T etrachloro m xylene surr. | 1 | | | | | |



| Client Sample ID | | | SB 27/0.2 | SB 27/0. | SB 27/1.0 | SB 27/3. |
|------------------------------------|----------|-------|-------------|-------------|-------------|-------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S1 Au16451 | S1 Au16462 | S1 Au16463 | S1 Au16466 |
| Date Sampled | | | Aug 0 , 201 |
| Test Reference | LOR | nit | | | | |
| Organophosphorus Pesticides | | | | | | |
| A inphos methyl | 0.2 | mg kg | 0.2 | | | |
| Boistar | 0.2 | mg kg | 0.2 | | | |
| Chlorfenvinphos | 0.2 | mg kg | 0.2 | | | |
| Chlorpyrifos | 0.2 | mg kg | 0.2 | | | |
| 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 | | | |
| Dia inon | 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 | | | |
| O methoate | 2 | mg kg | 2 | | | |
| Phorate | 0.2 | mg kg | 0.2 | | | |
| Pirimiphos methyl | 0.2 | mg kg | 0.2 | | | |
| Pyra ophos | 0.2 | mg kg | 0.2 | | | |
| Ronnel | 0.2 | mg kg | 0.2 | | | |
| T erbufos | 0.2 | mg kg | 0.2 | | | |
| T etrachlorvinphos | 0.2 | mg kg | 0.2 | | | |
| T okuthion | 0.2 | mg kg | 0.2 | | | |
| T richloronate | 0.2 | mg kg | 0.2 | | | |
| T riphenylphosphate surr. | 1 | | 11 | | | |
| Polychlorinated B iphenyls | | | | | | |
| Aroclor 101 | 0.1 | mg kg | 0.1 | | | |
| Aroclor 1221 | 0.1 | mg kg | 0.1 | | | |
| Aroclor 12 2 | 0.1 | mg kg | 0.1 | | | |
| Aroclor 12 2 | 0.1 | mg kg | 0.1 | | | |
| Aroclor 12 8 | 0.1 | mg kg | 0.1 | | | |
| Aroclor 125 | 0.1 | mg kg | 0.1 | | | |
| Aroclor 12 0 | 0.1 | mg kg | 0.1 | | | |
| T otal PCB | 0.1 | mg kg | 0.1 | | | |
| Dibutylchloroendate surr. | 1 | | 110 | | | |
| T etrachloro m xylene surr. | 1 | | | | | |
| Moisture | 1 | | 5. | 5.8 | 5. | 1 |



| | | | | | | |
|-------------------------|------|-------|-------------|-------------|-------------|-------------|
| Client Sample ID | | | SB 27/0.2 | SB 27/0. | SB 27/1.0 | SB 27/3. |
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S1 Au16451 | S1 Au16462 | S1 Au16463 | S1 Au16464 |
| Date Sampled | | | Aug 0 , 201 |
| Test Reference | LO R | nit | | | | |
| Heavy Metals | | | | | | |
| Arsenic | 2 | mg kg | | .8 | | 2 |
| Cadmium | 0. | mg kg | | .8 | | 0. |
| Chromium | 5 | mg kg | | 8 | | 5 |
| Copper | 5 | mg kg | | | | 5 |
| Lead | 5 | mg kg | | 0 | | 5 |
| Mercury | 0.1 | mg kg | | 0.1 | | 0.1 |
| Nickel | 5 | mg kg | | 8 | | 5 |
| inc | 5 | mg kg | | 1500 | | 5. |

| | | | | | | |
|---|------|-------|-------------|-------------|-------------|-------------|
| Client Sample ID | | | SB 27/ .0 | SB 27/6.0 | Q S1 | Q S2 |
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S1 Au16466 | S1 Au16467 | S1 Au16468 | S1 Au16470 |
| Date Sampled | | | Aug 0 , 201 | Aug 0 , 201 | Aug 10, 201 | Aug 0 , 201 |
| Test Reference | LO R | nit | | | | |
| Total Recoverable Hydrocarbons 2013 NEPM Fractions | | | | | | |
| Naphthalen ⁰² | 0.5 | mg kg | | 0.5 | 0.5 | 0.5 |
| T RH C C10 | 20 | mg kg | | 20 | 20 | 20 |
| T RH C C10 less BT EX ⁰⁰ F1 | 20 | mg kg | | 20 | 20 | 20 |
| T RH C10 C1 | 50 | mg kg | | 50 | 50 | 50 |
| T RH C10 C1 less Naphthalen ⁰⁰¹ F2 | 50 | mg kg | | 50 | 50 | 50 |
| T RH C1 C | 100 | mg kg | | 100 | 100 | 100 |
| T RH C C 0 | 100 | mg kg | | 100 | 100 | 100 |
| T RH C10 C 0 total | 100 | mg kg | | 100 | 100 | 100 |
| Total Recoverable Hydrocarbons 1 NEPM Fractions | | | | | | |
| T RH C C | 20 | mg kg | | 20 | 20 | 20 |
| T RH C10 C1 | 20 | mg kg | | 20 | 20 | 20 |
| T RH C15 C28 | 50 | mg kg | | 50 | 50 | 50 |
| T RH C2 C | 50 | mg kg | | 50 | 50 | 50 |
| T RH C10 T otal | 50 | mg kg | | 50 | 50 | 50 |
| B TEX | | | | | | |
| Ben ene | 0.1 | mg kg | | 0.1 | 0.1 | 0.1 |
| T oluene | 0.1 | mg kg | | 0.1 | 0.1 | 0.1 |
| Ethylben ene | 0.1 | mg kg | | 0.1 | 0.1 | 0.1 |
| m p X ylenes | 0.2 | mg kg | | 0.2 | 0.2 | 0.2 |
| o X ylene | 0.1 | mg kg | | 0.1 | 0.1 | 0.1 |
| X ylenes T otal | 0. | mg kg | | 0. | 0. | 0. |
| Bromofluoroben ene surr. | 1 | | | 10 | 1 1 | 1 8 |
| Polycyclic Aromatic Hydrocarbons | | | | | | |
| Ben o a pyrene T EQ lower bound | 0.5 | mg kg | | 0.5 | 0.5 | 0.5 |
| Ben o a pyrene T EQ medium bound | 0.5 | mg kg | | 0. | 0. | 0. |
| Ben o a pyrene T EQ 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 |
| Ben a anthracene | 0.5 | mg kg | | 0.5 | 0.5 | 0.5 |
| Ben o a pyrene | 0.5 | mg kg | | 0.5 | 0.5 | 0.5 |
| Ben o b fluoranthene | 0.5 | mg kg | | 0.5 | 0.5 | 0.5 |
| Ben o g,h,i perylene | 0.5 | mg kg | | 0.5 | 0.5 | 0.5 |



| Client Sample ID | | | SB 27/ .0 | SB 27/6.0 | Q S1 | Q S2 |
|---|-----|---------|-------------|-------------|-------------|-------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S1 Au16466 | S1 Au16467 | S1 Au16466 | S1 Au16470 |
| Date Sampled | | | Aug 0 , 201 | Aug 0 , 201 | Aug 10, 201 | Aug 0 , 201 |
| Test Reference | LOR | nit | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | | | |
| 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 | | | 11 | 120 | 102 |
| p Terphenyl d1 surr. | 1 | | | 1 2 | 1 5 | 122 |
| Phenols (Halogenated) | | | | | | |
| 2 Chlorophenol | 0.5 | mg kg | | 0.5 | | |
| 2,4 Dichlorophenol | 0.5 | mg kg | | 0.5 | | |
| 2,6 Dichlorophenol | 1 | mg kg | | 1 | | |
| 2,4,6 Trichlorophenol | 1.0 | mg kg | | 1 | | |
| 2,4,6 Trichlorophenol | 0.5 | mg kg | | 0.5 | | |
| Chloro methylphenol | 1.0 | mg kg | | 1 | | |
| Pentachlorophenol | 1.0 | mg kg | | 1 | | |
| Tetrachlorophenols Total | 1.0 | mg kg | | 1 | | |
| Total Halogenated Phenol | 1 | mg kg | | 1 | | |
| Phenols (non Halogenated) | | | | | | |
| 2 Cyclohexyl dinitrophenol | 20 | mg kg | | 20 | | |
| 2 Methyl dinitrophenol | 5 | mg kg | | 5 | | |
| 2 Methylphenol o Cresol | 0.2 | mg kg | | 0.2 | | |
| 2 Nitrophenol | 1.0 | mg kg | | 1 | | |
| 2,4 Dimethylphenol | 0.5 | mg kg | | 0.5 | | |
| 2,6 Dinitrophenol | 5 | mg kg | | 5 | | |
| 2,4,6 Trimethylphenol m p Cresol | 0. | mg kg | | 0. | | |
| Nitrophenol | 5 | mg kg | | 5 | | |
| Dinoseb | 20 | mg kg | | 20 | | |
| Phenol | 0.5 | mg kg | | 0.5 | | |
| Total Non Halogenated Phenol | 20 | mg kg | | 20 | | |
| Phenol d surr. | 1 | | | 105 | | |
| pH (1:5 Aqueous extract at 25°C as rec.) | | | | | | |
| pH | 0.1 | pH nits | | | | |
| Moisture | 1 | | 1 | 18 | 1 | 12 |
| Heavy Metals | | | | | | |
| Arsenic | 2 | mg kg | | 2 | 2 | 2 |
| Cadmium | 0. | mg kg | | 0. | 0. | 0. |
| Chromium | 5 | mg kg | | 5 | 5 | 5 |
| Copper | 5 | mg kg | | 5 | 5 | 5 |
| Lead | 5 | mg kg | | 5 | 5 | 5 |
| Mercury | 0.1 | mg kg | | 0.1 | 0.1 | 0.1 |
| Nickel | 5 | mg kg | | 5 | 5 | 5 |
| Zinc | 5 | mg kg | | 5 | 5 | 1 |



| | | | | |
|--|------|-------|-------------|-------------|
| Client Sample ID | | | TS | TB |
| Sample Matrix | | | Soil | Soil |
| Eurofins mgt Sample No. | | | S1 Au1664 | S1 Au16646 |
| Date Sampled | | | Aug 0 , 201 | Aug 0 , 201 |
| Test Reference | LO R | nit | | |
| Total Recoverable Hydrocarbons 2013 NEPM Fractions | | | | |
| Naphthalen ⁰² | 0.5 | mg kg | | 0.5 |
| T R H C C10 | 20 | mg kg | 110 | 20 |
| T R H C C10 less BT EX ⁰⁰ F1 | 20 | mg kg | | 20 |
| Total Recoverable Hydrocarbons 1 NEPM Fractions | | | | |
| T R H C C | 20 | mg kg | 110 | 20 |
| B TEX | | | | |
| Ben ene | 0.1 | mg kg | 110 | 0.1 |
| T oluene | 0.1 | mg kg | 110 | 0.1 |
| Ethylben ene | 0.1 | mg kg | 110 | 0.1 |
| m p X ylenes | 0.2 | mg kg | 110 | 0.2 |
| o X ylene | 0.1 | mg kg | 110 | 0.1 |
| X ylenes T otal | 0. | mg kg | 110 | 0. |
| Bromofluoroben ene surr. | 1 | | | 5 |



Sample History

Where samples are submitted analysed over several days the last date of extraction and analysis is reported.
 A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this some of the method reference information on reports has changed. However no substantive change has been made to our laboratory methods and as such there is no change in the validity of current or previous results regarding both quality and NAT A accreditation.
 If the date and time of sampling are not provided the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

| Description | Testing Site | Extracted | Holding Time |
|---|--------------|-------------|--------------|
| Total Recoverable Hydrocarbons 201 NEPM Fractions Method: T RH C C 0 LT M ORG 2010 | Melbourne | Aug 1 2018 | 1 Day |
| Total Recoverable Hydrocarbons Method: T RH C C 0 LT M ORG 2010 | Sydney | Aug 1 2018 | 1 Day |
| Total Recoverable Hydrocarbons 1 NEPM Fractions Method: T RH C C LT M ORG 2010 | Sydney | Aug 1 2018 | 1 Day |
| BT EX Method: T RH C C 0 LT M ORG 2010 | Sydney | Aug 1 2018 | 1 Day |
| Eurofins mgt Suite B A | | | |
| Total Recoverable Hydrocarbons 201 NEPM Fractions Method: T RH C C 0 LT M ORG 2010 | Melbourne | Aug 1 2018 | 1 Day |
| Polycyclic Aromatic Hydrocarbons Method: LT M ORG 21 0 PAH and Phenols in Soil and Water | Melbourne | Aug 1 2018 | 1 Day |
| Phenols Halogenated Method: LT M ORG 21 0 PAH and Phenols in Soil and Water | Melbourne | Aug 1 2018 | 1 Days |
| Phenols non Halogenated Method: LT M ORG 21 0 PAH and Phenols in Soil and Water | Melbourne | Aug 1 2018 | 1 Day |
| Metals M8 Method: LT M MET 0 0 Metals in Waters Soils Sediments by ICP MS | Melbourne | Aug 1 2018 | 28 Days |
| Volatile Organics Method: LT M ORG 2150 VOCs in Soils Liquid and other Aqueous Matrices pH (1:5 Aqueous extract at 25°C as rec.) Method: LT M GEN 0 0 pH in soil by ISE | Melbourne | Aug 1 2018 | Days |
| Eurofins mgt Suite B15 | | | |
| Organochlorine Pesticides Method: LT M ORG 2220 OCP PCB in Soil and Water | Melbourne | Aug 1 2018 | 1 Day |
| Organophosphorus Pesticides Method: LT M ORG 2200 Organophosphorus Pesticides by GC MS | Melbourne | Aug 1 2018 | 1 Day |
| Polychlorinated Biphenyls Method: LT M ORG 2220 OCP PCB in Soil and Water | Melbourne | Aug 1 2018 | 28 Days |
| NEPM Screen for Soil Classification | | | |
| Clay Method: LT M GEN 0 0 | Brisbane | Aug 20 2018 | Day |
| Conductivity (1:5 aqueous extract at 25°C as rec.) Method: LT M ING 0 0 Conductivity | Melbourne | Aug 1 2018 | Day |
| pH (units)(1:5 soil:CaCl2 extract at 25°C as rec.) Method: LT M GEN 0 0 pH in soil by ISE | Melbourne | Aug 1 2018 | Day |
| Total Organic Carbon Method: APHA 5 10B Total Organic Carbon | Melbourne | Aug 1 2018 | 28 Day |
| Cation Exchange Capacity Method: LT M MET 0 0 Cation Exchange Capacity CEC Exchangeable Sodium Percentage ESP | Melbourne | Aug 1 2018 | 28 Day |
| Iron Method: LT M MET 0 0 Metals in Waters Soils Sediments by ICP MS | Melbourne | Aug 1 2018 | 180 Day |
| Iron Method: LT M MET 0 0 by ICP OES | Melbourne | Aug 1 2018 | Month |
| Moisture Method: LT M GEN 080 Moisture | Melbourne | Aug 1 2018 | 1 Day |



ABSL - 60 095 085 594
 email : EnviroSales_eurofins.com
 web : www.eurofins.com.au
MALDEN
 2 5 Kingstons Town Close
 Oadleigh VIC 3605
 Phone : 03 5200 1200
 NAT A : 12 1 Site 1
 Site : 12 1 Site 1
SPRINGWOOD
 1 Maree Road
 Springwood NSW 2008
 Phone : 02 9371 1200
 NAT A : 12 1 Site 20
 Site : 12 1 Site 20
PERTH
 1 21 Smallwood Place
 Murdoch WA 6150
 Phone : 08 9447 1200
 NAT A : 12 1 Site 20
 Site : 12 1 Site 20

Company Name: Trace Environmental P L
Address: Shop 2 New Canterbury Road
 Dutwich Hill NSW 2200
Project Name: MASCO T
Project ID: 1,1
Order No.: 12025
Report : 02 B 0 0555
Phone:
Fax:
Received: Aug 1 2018 :0 PM
Due: Aug 20 2018
Priority: 5 Day
Contact Name: Jack Ellis
mgmt Analytical Services Manager : Nibha V aldiya

| Sample Detail | | Asbestos - WA guidelines | | CANCELLED | HOLD | pH (1.5 Aqueous extract at 25°C as rec.) | Polycyclic Aromatic Hydrocarbons | Metals M8 | Eurofins mgt Suite B15 | Volatile Organics | Moisture Set | NEPM Screen for Soil Classification | Eurofins mgt Suite B | Eurofins mgt Suite B A | BT EX N and V volatile T RH |
|----------------------|------------------------|--------------------------|--------------|-----------|------|--|----------------------------------|-----------|------------------------|-------------------|--------------|-------------------------------------|----------------------|------------------------|-----------------------------|
| Melbourne Laboratory | NATA Site 12 4 & 14271 | | | | | | | | | | | | | | |
| Sydney Laboratory | NATA Site 1 217 | | | | | | | | | | | | | | |
| Brisbane Laboratory | NATA Site 207 4 | | | | | | | | | | | | | | |
| Perth Laboratory | NATA Site 23736 | | | X | | | | | | | | | | | |
| 10 SB11 1.2 | Aug 0 2018 | Soil | S18 Au1 21 x | | | | | | | | | | | | |
| 11 SB11 1. | Aug 0 2018 | Soil | S18 Au1 22 | | | | | | | | | | | | |
| 12 SB11 . | Aug 0 2018 | Soil | S18 Au1 2 | | | | | | | | | | | | |
| 1 SB11 5.0 | Aug 0 2018 | Soil | S18 Au1 2 | | | | | | | | | | | | |
| 1 SB1 0.2 | Aug 10 2018 | Soil | S18 Au1 25 x | | | | | | | | | | | | |
| 15 SB1 0.5 | Aug 10 2018 | Soil | S18 Au1 2 | | | | | | | | | | | | |
| 1 SB1 1.2 | Aug 10 2018 | Soil | S18 Au1 2 | | | | | | | | | | | | |
| 1 SB1 2.5 | Aug 10 2018 | Soil | S18 Au1 28 x | | | | | | | | | | | | |
| 18 SB1 .8 | Aug 10 2018 | Soil | S18 Au1 2 | | | | | | | | | | | | |
| 1 SB1 10.0 | Aug 10 2018 | Soil | S18 Au1 0 | | | | | | | | | | | | |
| 20 SB10 0. | Aug 10 2018 | Soil | S18 Au1 1x | | | | | | | | | | | | |
| 21 SB10 0.5 | Aug 10 2018 | Soil | S18 Au1 2 | | | | | | | | | | | | |



Melbourne
 2 5 Kingsten Town Close
 Oakleigh VIC 3166
 NAT A 12 1 2 1
 Site 126 1 2 1
 Phone: 03 9594 5000
 Email: EnviroSales@eurofins.com.au
 Web: www.eurofins.com.au

Sydney
 1 More Road
 Newington NSW 2041
 Phone: 12 00 80 00
 NAT A 12 1 Site 20
 Site 1821

Perth
 1 21 Smallwood Place
 Murdoch WA 6150
 Phone: 8 9551 0000
 NAT A 12 1 Site 20
 Site 2

Leach Highway
 1 Leach Highway
 Kewdale WA 6105
 Phone: 8 9551 0000
 NAT A 12 1
 Site 2

Company Name: Trace Environmental P L
Address: Shop 2, New Canterbury Road, Dutwich Hill, NSW 220
Project Name: MASCO T
Project ID: 1,1

Order No.: 12025
Report : 02 B 0 0555
Phone:
Fax:

Received: Aug 1 2018 :0 PM
Due: Aug 20 2018
Priority: 5 Day
Contact Name: Jack Ellis

mgmt Analytical Services Manager: Nibha Vaidya

| Sample Detail | | Asbestos - WA guidelines | | CANCELLED | | HOLD | | pH (1.5 Aqueous extract at 25°C as rec.) | | Polycyclic Aromatic Hydrocarbons | | Metals M8 | | Eurofins mgt Suite B15 | | Volatile Organics | | Moisture Set | | NEPM Screen for Soil Classification | | Eurofins mgt Suite B | | Eurofins mgt Suite B A | | BT EX N and Volatile T RH | | | |
|----------------------|------------------------|--------------------------|---------|-----------|--|------|--|--|--|----------------------------------|--|-----------|--|------------------------|--|-------------------|--|--------------|--|-------------------------------------|--|----------------------|--|------------------------|--|---------------------------|--|--|--|
| Melbourne Laboratory | NATA Site 12 4 & 14271 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sydney Laboratory | NATA Site 1 217 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brisbane Laboratory | NATA Site 207 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Perth Laboratory | NATA Site 23736 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 SB1 | 0.5 Aug 10 2018 | Soil | S18 Au1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 SB1 | 1.0 Aug 10 2018 | Soil | S18 Au1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 SB1 | .0 Aug 10 2018 | Soil | S18 Au1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 SB1 | .5 Aug 10 2018 | Soil | S18 Au1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 SB1 | .0 Aug 10 2018 | Soil | S18 Au1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 SB18 | 0.2 Aug 10 2018 | Soil | S18 Au1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 SB18 | 0. Aug 10 2018 | Soil | S18 Au1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 SB18 | 1.0 Aug 10 2018 | Soil | S18 Au1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 SB1 | 0.8 Aug 08 2018 | Soil | S18 Au1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 SB1 | 1.5 Aug 08 2018 | Soil | S18 Au1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 SB1 | 2.5 Aug 08 2018 | Soil | S18 Au1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SB1 | . Aug 08 2018 | Soil | S18 Au1 | | | | | | | | | | | | | | | | | | | | | | | | | | |



ABL-50 005 086 594
 email: EnviroSales_eurofins.com
 web: www.eurofins.com.au

MAJOR ACCOUNTS
 2 5 Kingstee Town Close
 Oadigh VIC 3550
 NAT A 12 1 2 1
 Site 125 1 2 1

SPECIALTY
 1 Merc Road Building F
 Murrumbidgee NSW 2500
 Phone: 12 00 8 00
 NAT A 12 1 Site 1821

ESTABLISHMENTS
 1 21 Smallwood Place
 Murrumbidgee NSW 2500
 Phone: 12 00 8 00
 NAT A 12 1 Site 20

PLANTS
 2 1 Leach Highway
 Kooladale WA 6105
 Phone: 12 00 8 00
 NAT A 12 1 Site 2

Company Name: Trace Environmental P L
Address: Shop 2 New Canterbury Road
 Dutwich Hill NSW 220

Project Name: MASCO T
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mgmt Analytical Services Manager: Nibha V aldiya

| Sample Detail | | Asbestos - WA guidelines | | CANCELLED | HOLD | pH (1.5 Aqueous extract at 25°C as rec.) | Polycyclic Aromatic Hydrocarbons | Metals M8 | Eurofins mgt Suite B15 | Volatile Organics | Moisture Set | NEPM Screen for Soil Classification | Eurofins mgt Suite B | Eurofins mgt Suite B A | BT EX N and V volatile T RH |
|----------------------|------------------------|--------------------------|------|--------------|------|--|----------------------------------|-----------|------------------------|-------------------|--------------|-------------------------------------|----------------------|------------------------|-----------------------------|
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| Sydney Laboratory | NATA Site 1 217 | | | | | | | | | | | | | | |
| Brisbane Laboratory | NATA Site 207 4 | | | | | | | | | | | | | | |
| Perth Laboratory | NATA Site 23736 | | | X | | | | | | | | | | | |
| 5 | SB20 0.0 | Aug 08 2018 | Soil | S18 Au1 5 | | | | | | | | | | | |
| 5 | SB20 1.0 | Aug 08 2018 | Soil | S18 Au1 X | | | X | X | X | | | | | | |
| | SB20 1.5 | Aug 08 2018 | Soil | S18 Au1 | | | | X | | X | | | | | |
| 8 | SB20 .0 | Aug 08 2018 | Soil | S18 Au1 8 | | | | | X | | | | | | |
| | SB20 .8 | Aug 08 2018 | Soil | S18 Au1 | | | | | | X | | | | | |
| | SB20 .0 | Aug 08 2018 | Soil | S18 Au1 50 | | | | | | | X | | | | |
| 0 | SB20 12.0 | Aug 08 2018 | Soil | S18 Au1 51 | | | | | | | | X | | | |
| 1 | SB2 0.2 | Aug 10 2018 | Soil | S18 Au1 42 x | | | | | | | | | X | | |
| 2 | SB2 0.5 | Aug 10 2018 | Soil | S18 Au1 4 | | | | | | | | | | | |
| | SB2 2.0 | Aug 10 2018 | Soil | S18 Au1 3 | | | | | | | | | | | |
| | SB2 .0 | Aug 10 2018 | Soil | S18 Au1 35 | | | | | | | | | | | |
| 5 | SB2 .0 | Aug 10 2018 | Soil | S18 Au1 4 | | | | | | | | | | | |



ABL-50 005 085 594
 email: EnviroSales_eurofins.com
 web: www.eurofins.com.au

MAJOR ACCOUNTS
 2 5 Kingstons Town Close
 Oakleigh VIC 3166 5000
 NAT A 12 1 2 1
 Site 126 1 2 1

SPECIALTY
 1 More Road Building F
 Murrumbidgee NSW 2500
 Phone: 12 00 8 00
 NAT A 12 1 Site 20
 Site 1821

ESTABLISHMENTS
 1 21 Smallwood Place
 Murrumbidgee NSW 2500
 Phone: 12 00 8 00
 NAT A 12 1 Site 20
 Site 2

PLANTS
 1 Leach Highway
 Koolah WA 6105
 Phone: 12 00 8 00
 NAT A 12 1
 Site 251 00

Company Name: Trace Environmental P L
Address: Shop 2 New Canterbury Road
 Dutwich Hill NSW 2200
Project Name: MASCO T
Project ID: 1,1

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Report : 02 B 0 0555
Phone:
Fax:

Received: Aug 1 2018 :0 PM
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mgmt Analytical Services Manager: Nibha V aldiya

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|----------------------|-----------|---------------|------|------------------------|--|-----------|--|------|--|--|--|----------------------------------|--|-----------|--|------------------------|--|-------------------|--|--------------|--|-------------------------------------|--|----------------------|--|------------------------|--|-----------------------------|--|--|--|
| Melbourne Laboratory | NATA Site | 12 4 & 14271 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sydney Laboratory | NATA Site | 1 217 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brisbane Laboratory | NATA Site | 207 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Perth Laboratory | NATA Site | 23736 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SB2 | 5.0 | Aug 10 2018 | Soil | S18 Au1 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SB2 | .0 | Aug 10 2018 | Soil | S18 Au1 38 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 8.0 | Aug 10 2018 | Soil | S18 Au1 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SB2 | 1.5 | Aug 10 2018 | Soil | S18 Au1 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 50 | SB2 0.2 | Aug 08 2018 | Soil | S18 Au1 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 51 | SB2 0.5 | Aug 08 2018 | Soil | S18 Au1 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 52 | SB2 1.0 | Aug 08 2018 | Soil | S18 Au1 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | SB2 1.5 | Aug 08 2018 | Soil | S18 Au1 X | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | SB2 .8 | Aug 08 2018 | Soil | S18 Au1 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 55 | SB2 5.0 | Aug 08 2018 | Soil | S18 Au1 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | SB2 .0 | Aug 08 2018 | Soil | S18 Au1 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Q.S1 | Aug 10 2018 | Soil | S18 Au1 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | |



ABBOTTOTON
 25 Kingstons Town Close
 Oatleigh VIC 3085
 NAT A 12 1 2 1
 Site 125

BRISBANE
 1 Merc Road
 Brisbane QLD 4000
 NAT A 12 1 2 1
 Site 1821

MELBOURNE
 121 Smallwood Place
 Murrumbidgee NSW 2500
 NAT A 12 1 2 1
 Site 2

PERTH
 1 Leach Highway
 Kewdale WA 6105
 NAT A 12 1 2 1
 Site 2

ABBOTTOTON 50 005 085 524
 email: EnviroSales@eurofins.com.au
 web: www.eurofins.com.au

Company Name: Trace Environmental P L
Address: Shop 2, Dutwich Hill, New Canterbury Road, NSW 220
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Report : 02 B 0 0555
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| | | Sample Detail | | | | | | | | | | | |
|----------------------|------------------------|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | S18 | Au1 | S18 | Au1 | S18 | Au1 | S18 | Au1 | S18 | Au1 | S18 | Au1 |
| Melbourne Laboratory | NATA Site 12 4 & 14271 | Soil | | | | | | | | | | | |
| Sydney Laboratory | NATA Site 1 217 | Water | | | | | | | | | | | |
| Brisbane Laboratory | NATA Site 207 4 | Soil | | | | | | | | | | | |
| Perth Laboratory | NATA Site 23736 | Soil | | | | | | | | | | | |
| 56 Q52 | Aug 08 2018 | Soil | | | | | | | | | | | |
| 5 RB1 | Aug 08 2018 | Water | | | | | | | | | | | |
| 0 SB 1.25 | Aug 0 2018 | Soil | | | | | | | | | | | |
| 1 SB | Aug 0 2018 | Soil | | | | | | | | | | | |
| 2 SB11 2.0 | Aug 0 2018 | Soil | | | | | | | | | | | |
| SB11 2. | Aug 0 2018 | Soil | | | | | | | | | | | |
| SB11 | Aug 0 2018 | Soil | | | | | | | | | | | |
| 5 SB1 0. | Aug 10 2018 | Soil | | | | | | | | | | | |
| SB1 | Aug 10 2018 | Soil | | | | | | | | | | | |
| SB1 5.0 | Aug 10 2018 | Soil | | | | | | | | | | | |
| 8 SB1 .0 | Aug 10 2018 | Soil | | | | | | | | | | | |
| SB1 | Aug 10 2018 | Soil | | | | | | | | | | | |



ABSL-60 005 086 594
 email : EnviroSales_eurofins.com
 web : www.eurofins.com.au
Melbourne
 2 5 Kingsten Town Close
 Oakleigh VIC 3166 5000
 NAT A 12 1 2 1
 Site 126 1 2 1
Sydney
 1 More Road Building F
 Murrumbidgee NSW 2500
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|----------------------|------------------------|------------------------|-----|-----------|----|------|--|--|--|----------------------------------|--|-----------|--|------------------------|--|-------------------|--|--------------|--|-------------------------------------|--|----------------------|--|------------------------|--|---------------------------|--|--|--|
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| Brisbane Laboratory | NATA Site 207 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Perth Laboratory | NATA Site 23736 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 SB1 | .0 Aug 10 2018 | Soil | S18 | Au1 | 55 | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 SB1 | 0.2 Aug 10 2018 | Soil | S18 | Au1 | 55 | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 SB1 | 1. Aug 10 2018 | Soil | S18 | Au1 | 55 | | | | | | | | | | | | | | | | | | | | | | | | |
| SB1 | 1. Aug 10 2018 | Soil | S18 | Au1 | 55 | | | | | | | | | | | | | | | | | | | | | | | | |
| SB1 | 1. Aug 10 2018 | Soil | S18 | Au1 | 55 | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 SB1 | 1. Aug 10 2018 | Soil | S18 | Au1 | 55 | | | | | | | | | | | | | | | | | | | | | | | | |
| SB1 | .8 Aug 10 2018 | Soil | S18 | Au1 | 55 | | | | | | | | | | | | | | | | | | | | | | | | |
| SB1 | 10.0 Aug 10 2018 | Soil | S18 | Au1 | 55 | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 SB1 | 0.2 Aug 10 2018 | Soil | S18 | Au1 | 5 | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| SB1 | 2. Aug 10 2018 | Soil | S18 | Au1 | 5 | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| 80 SB20 | 2. Aug 10 2018 | Soil | S18 | Au1 | 5 | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| 81 SB2 | 1.0 Aug 10 2018 | Soil | S18 | Au1 | 5 | | | | | | | | | | | | | | | | | | | | | | | | |



Melbourne
 1 21 Smallwood Place
 Murrumbidgee NSW 2500
 Australia
 Phone: 12 1 202 00 00
 NAT A: 12 1 Site 20
 Site 2

Sydney
 1 Mire Road
 Murrumbidgee NSW 2500
 Australia
 Phone: 12 1 202 00 00
 NAT A: 12 1 Site 20
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 Phone: 12 1 202 00 00
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 Site 2

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Order No.: 12025
Report : 02 B 0 0555
Phone:
Fax:

Received: Aug 1 2018 :0 PM
Due: Aug 20 2018
Priority: 5 Day
Contact Name: Jack Ellis

mgmt Analytical Services Manager: Nibha Vaidya

| Sample Detail | | Asbestos | WA guidelines | CANCELLED | HOLD | pH (1.5 Aqueous extract at 25°C as rec.) | Polycyclic Aromatic Hydrocarbons | Metals M8 | Eurofins mgt Suite B15 | Volatile Organics | Moisture Set | NEPM Screen for Soil Classification | Eurofins mgt Suite B | Eurofins mgt Suite B A | Eurofins | BT EX N and Volatile T RH |
|----------------------|------------------------|----------|---------------|-----------|------|--|----------------------------------|-----------|------------------------|-------------------|--------------|-------------------------------------|----------------------|------------------------|----------|---------------------------|
| Melbourne Laboratory | NATA Site 12 4 & 14271 | | | | | | | | | | | | | | | |
| Sydney Laboratory | NATA Site 1 217 | | | | | | | | | | | | | | | |
| Brisbane Laboratory | NATA Site 207 4 | | | | | | | | | | | | | | | |
| Perth Laboratory | NATA Site 23736 | X | | | | | | | | | | | | | | |
| 82 | SB2 .0 Aug 10 2018 | | | | | | | | | | | | | | | |
| 8 | SB2 .0 Aug 10 2018 | | | | | | | | | | | | | | | |
| 8 | SB2 10.0 Aug 10 2018 | | | | | | | | | | | | | | | |
| 85 | SB2 .1 Aug 08 2018 | | | | | | | | | | | | | | | |
| 8 | SB1 8.0 Aug 10 2018 | | | | | | | | | | | | | | | |
| 8 | T S Aug 0 2018 | | | | | | | | | | | | | | | |
| 88 | T B Aug 0 2018 | | | | | | | | | | | | | | | |
| Test Counts | | | | | | | | | | | | | | | | |
| 1 1 2 5 B 2 | | | | | | | | | | | | | | | | |
| 15 11 2 | | | | | | | | | | | | | | | | |



Internal Quality Control Review and Glossary

General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
- All soil results are reported on a dry basis unless otherwise stated.
 - All biota/food results are reported on a wet weight basis on the edible portion unless otherwise stated.
 - Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
 - SVOC analysis on waters are performed on homogenised unfiltered samples unless noted otherwise.
 - Samples were analysed on an as received basis.
- This report replaces any interim results previously issued.

Holding Times

Please refer to Sample Preservation and Container Guide for holding times Q S 001 .
 For samples received on the last day of holding time notification of testing requirements should have been received at least 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 days however for all other VOCs such as BT, EX or C-10, TRH then the holding time is 1 days.
 NOTPH 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 | 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. |
| LCR | 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 deionised water. |
| 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 | Quality Systems Manual ver 5.1 US Department of Defense |
| 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 0 however the following acceptance guidelines are equally applicable:

Results 10 times the LO R: No Limit

Results between 10 - 20 times the LO R: RPD must lie between 0 - 50

Results 20 times the LO R: RPD must lie between 0 - 0

Surrogate Recoveries: Recoveries must lie between 50 - 150 Phenols PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in Q SM 5.1 where no positive PFAS results have been reported have been reviewed and no data was affected.

WADWER n 10 : PFBA PFPeA PFHxA PFHpA PFOA PFBS PFHxS PFO S :2 FT SA 8:2 FT SA

QC Data General Comments

- Where a result is reported as a less than higher than the nominated LO R 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.
- Duplicate data shown within this report that states the word "BAT CH" 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.
 - Organochlorine Pesticide analysis where reporting LCS data Toxaphene Chlordane are not added to the LCS.
 - Organochlorine Pesticide analysis where reporting Spike data Toxaphene is not added to the Spike.
- Total Recoverable Hydrocarbons where reporting Spike LCS data a single spike of commercial Hydrocarbon products in the range of C12 - C 0 is added and it's Total Recovery is reported in the C10 - C1 cell of the Report.
 - pH and Free Chlorine analysed in the laboratory Analysis on this test must begin within 0 minutes of sampling. Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
 - Recovery Data Spikes Surrogates where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
- Polychlorinated Biphenyls are spiked only using Aroclor 12 0 in Matrix Spikes and LCS.
 - For Matrix Spikes and LCS results a dash " " in the report means that the specific analyte was not added to the QC sample.
- 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 B Iank | | | | | |
| Total Recoverable Hydrocarbons 2013 NEPM Fractions | | | | | |
| Naphthalene | mg kg | 0.5 | 0.5 | Pass | |
| T RH C C10 | mg kg | 20 | 20 | Pass | |
| T RH C10 C1 | mg kg | 50 | 50 | Pass | |
| T RH C1 C | mg kg | 100 | 100 | Pass | |
| T RH C C 0 | mg kg | 100 | 100 | Pass | |
| Method B Iank | | | | | |
| Total Recoverable Hydrocarbons 1 NEPM Fractions | | | | | |
| T RH C C | mg kg | 20 | 20 | Pass | |
| T RH C10 C1 | mg kg | 20 | 20 | Pass | |
| T RH C15 C28 | mg kg | 50 | 50 | Pass | |
| T RH C2 C | mg kg | 50 | 50 | Pass | |
| Method B Iank | | | | | |
| B TEX | | | | | |
| Ben ene | mg kg | 0.1 | 0.1 | Pass | |
| T oluene | mg kg | 0.1 | 0.1 | Pass | |
| Ethylben ene | mg kg | 0.1 | 0.1 | Pass | |
| m p X ylenes | mg kg | 0.2 | 0.2 | Pass | |
| o X ylene | mg kg | 0.1 | 0.1 | Pass | |
| X ylenes T otal | mg kg | 0. | 0. | Pass | |
| Method B Iank | | | | | |
| V olatile Organics | | | | | |
| 1.1 Dichloroethane | mg kg | 0.5 | 0.5 | Pass | |
| 1.1 Dichloroethene | mg kg | 0.5 | 0.5 | Pass | |
| 1.1.1 T richloroethane | mg kg | 0.5 | 0.5 | Pass | |
| 1.1.1.2 T etrachloroethane | mg kg | 0.5 | 0.5 | Pass | |
| 1.1.2 T richloroethane | mg kg | 0.5 | 0.5 | Pass | |
| 1.1.2.2 T etrachloroethane | mg kg | 0.5 | 0.5 | Pass | |
| 1.2 Dibromoethane | mg kg | 0.5 | 0.5 | Pass | |
| 1.2 Dichloroben ene | mg kg | 0.5 | 0.5 | Pass | |
| 1.2 Dichloroethane | mg kg | 0.5 | 0.5 | Pass | |
| 1.2 Dichloropropane | mg kg | 0.5 | 0.5 | Pass | |
| 1.2. T richloropropane | mg kg | 0.5 | 0.5 | Pass | |
| 1.2. T rimethylben ene | mg kg | 0.5 | 0.5 | Pass | |
| 1. Dichloroben ene | mg kg | 0.5 | 0.5 | Pass | |
| 1. Dichloropropane | mg kg | 0.5 | 0.5 | Pass | |
| 1. .5 T rimethylben ene | mg kg | 0.5 | 0.5 | Pass | |
| 1. Dichloroben ene | mg kg | 0.5 | 0.5 | Pass | |
| 2 Butanone MEK | mg kg | 0.5 | 0.5 | Pass | |
| 2 Propanone Acetone | mg kg | 0.5 | 0.5 | Pass | |
| Chlorotoluene | mg kg | 0.5 | 0.5 | Pass | |
| Methyl 2 pentanone MIBK | mg kg | 0.5 | 0.5 | Pass | |
| Allyl chloride | mg kg | 0.5 | 0.5 | Pass | |
| Bromoben ene | mg kg | 0.5 | 0.5 | Pass | |
| Bromochloromethane | mg kg | 0.5 | 0.5 | Pass | |
| Bromodichloromethane | mg kg | 0.5 | 0.5 | Pass | |
| Bromoforn | mg kg | 0.5 | 0.5 | Pass | |
| Bromomethane | mg kg | 0.5 | 0.5 | Pass | |
| Carbon disulfide | mg kg | 0.5 | 0.5 | Pass | |
| Carbon T etrachloride | mg kg | 0.5 | 0.5 | Pass | |
| Chloroben ene | mg kg | 0.5 | 0.5 | Pass | |



| Test | Units | Result 1 | Acceptance Limits | Pass Limits | Q ualifying Code |
|----------------------------------|-------|----------|-------------------|-------------|------------------|
| Chloroethane | mg kg | 0.5 | 0.5 | Pass | |
| Chloroform | mg kg | 0.5 | 0.5 | Pass | |
| Chloromethane | mg kg | 0.5 | 0.5 | Pass | |
| cis 1,2 Dichloroethene | mg kg | 0.5 | 0.5 | Pass | |
| cis 1,3 Dichloropropene | mg kg | 0.5 | 0.5 | Pass | |
| Dibromochloromethane | mg kg | 0.5 | 0.5 | Pass | |
| Dibromomethane | mg kg | 0.5 | 0.5 | Pass | |
| Dichlorodifluoromethane | mg kg | 0.5 | 0.5 | Pass | |
| Iodomethane | mg kg | 0.5 | 0.5 | Pass | |
| Isopropyl ben ene Cumene | mg kg | 0.5 | 0.5 | Pass | |
| Methylene Chloride | mg kg | 0.5 | 0.5 | Pass | |
| Styrene | mg kg | 0.5 | 0.5 | Pass | |
| Tetrachloroethene | mg kg | 0.5 | 0.5 | Pass | |
| trans 1,2 Dichloroethene | mg kg | 0.5 | 0.5 | Pass | |
| trans 1,3 Dichloropropene | mg kg | 0.5 | 0.5 | Pass | |
| T richloroethene | mg kg | 0.5 | 0.5 | Pass | |
| T richlorofluoromethane | mg kg | 0.5 | 0.5 | Pass | |
| V inyl chloride | mg kg | 0.5 | 0.5 | Pass | |
| Method B Iank | | | | | |
| 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 | |
| Ben a anthracene | mg kg | 0.5 | 0.5 | Pass | |
| Ben o a pyrene | mg kg | 0.5 | 0.5 | Pass | |
| Ben o b fluoranthene | mg kg | 0.5 | 0.5 | Pass | |
| Ben o g,h,i perylene | mg kg | 0.5 | 0.5 | Pass | |
| Ben o k fluoranthene | mg kg | 0.5 | 0.5 | Pass | |
| Chrysene | mg kg | 0.5 | 0.5 | Pass | |
| Diben 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 B Iank | | | | | |
| Organochlorine Pesticides | | | | | |
| Chlordanes T otal | mg kg | 0.1 | 0.1 | Pass | |
| . DDD | mg kg | 0.05 | 0.05 | Pass | |
| . DDE | mg kg | 0.05 | 0.05 | Pass | |
| . DDT | mg kg | 0.05 | 0.05 | Pass | |
| a BHC | mg kg | 0.05 | 0.05 | Pass | |
| Aldrin | mg kg | 0.05 | 0.05 | Pass | |
| b BHC | mg kg | 0.05 | 0.05 | Pass | |
| d BHC | mg kg | 0.05 | 0.05 | Pass | |
| Dieldrin | mg kg | 0.05 | 0.05 | Pass | |
| Endosulfan I | mg kg | 0.05 | 0.05 | Pass | |
| Endosulfan II | mg kg | 0.05 | 0.05 | Pass | |
| Endosulfan sulphate | mg kg | 0.05 | 0.05 | Pass | |
| Endrin | mg kg | 0.05 | 0.05 | Pass | |
| Endrin aldehyde | mg kg | 0.05 | 0.05 | Pass | |
| Endrin ketone | mg kg | 0.05 | 0.05 | Pass | |
| g BHC Lindane | mg kg | 0.05 | 0.05 | Pass | |



| Test | Units | Result 1 | Acceptance Limits | Pass Limits | Qualifying Code |
|-----------------------------|-------|----------|-------------------|-------------|-----------------|
| 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 | 1 | 1 | Pass | |
| Method B 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 | |
| O methoate | mg kg | 2 | 2 | Pass | |
| Phorate | mg kg | 0.2 | 0.2 | Pass | |
| Pirimiphos methyl | mg kg | 0.2 | 0.2 | Pass | |
| Pyraophos | 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 | |
| Toxothion | mg kg | 0.2 | 0.2 | Pass | |
| Trichloronate | mg kg | 0.2 | 0.2 | Pass | |
| Method B blank | | | | | |
| Polychlorinated Biphenyls | | | | | |
| Aroclor 101 | mg kg | 0.1 | 0.1 | Pass | |
| Aroclor 1221 | mg kg | 0.1 | 0.1 | Pass | |
| Aroclor 12 2 | mg kg | 0.1 | 0.1 | Pass | |
| Aroclor 12 2 | mg kg | 0.1 | 0.1 | Pass | |
| Aroclor 12 8 | mg kg | 0.1 | 0.1 | Pass | |
| Aroclor 125 | mg kg | 0.1 | 0.1 | Pass | |
| Aroclor 12 0 | mg kg | 0.1 | 0.1 | Pass | |
| Total PCB | mg kg | 0.1 | 0.1 | Pass | |
| Method B blank | | | | | |
| Phenols (Halogenated) | | | | | |
| 2 Chlorophenol | mg kg | 0.5 | 0.5 | Pass | |



| Test | Units | Result 1 | Acceptance Limits | Pass Limits | Qualifying Code |
|--|-------|----------|-------------------|-------------|-----------------|
| 2. Dichlorophenol | mg kg | 0.5 | 0.5 | Pass | |
| 2. 2,4-Dichlorophenol | mg kg | 1 | 1 | Pass | |
| 2. 2,6-Dichlorophenol | mg kg | 1 | 1.0 | Pass | |
| 2. Dichlorophenol | mg kg | 0.5 | 0.5 | Pass | |
| Chloro methylphenol | mg kg | 1 | 1.0 | Pass | |
| Pentachlorophenol | mg kg | 1 | 1.0 | Pass | |
| Tetrachlorophenols Total | mg kg | 1 | 1.0 | Pass | |
| Method B blank | | | | | |
| Phenols (non Halogenated) | | | | | |
| 2 Cyclohexyl dinitrophenol | mg kg | 20 | 20 | Pass | |
| 2 Methyl dinitrophenol | mg kg | 5 | 5 | Pass | |
| 2 Methylphenol o Cresol | mg kg | 0.2 | 0.2 | Pass | |
| 2 Nitrophenol | mg kg | 1 | 1.0 | Pass | |
| 2. Dimethylphenol | mg kg | 0.5 | 0.5 | Pass | |
| 2. Dinitrophenol | mg kg | 5 | 5 | Pass | |
| Methylphenol m p Cresol | mg kg | 0. | 0. | Pass | |
| Nitrophenol | mg kg | 5 | 5 | Pass | |
| Dinoseb | mg kg | 20 | 20 | Pass | |
| Phenol | mg kg | 0.5 | 0.5 | Pass | |
| Method B blank | | | | | |
| Clay | | 1 | 1 | Pass | |
| Total Organic Carbon | | 0.1 | 0.1 | Pass | |
| Method B blank | | | | | |
| Heavy Metals | | | | | |
| Arsenic | mg kg | 2 | 2 | Pass | |
| Cadmium | mg kg | 0. | 0. | Pass | |
| Chromium | mg kg | 5 | 5 | Pass | |
| Copper | mg kg | 5 | 5 | Pass | |
| Iron | mg kg | 20 | 20 | Pass | |
| Lead | mg kg | 5 | 5 | Pass | |
| Mercury | mg kg | 0.1 | 0.1 | Pass | |
| Nickel | mg kg | 5 | 5 | Pass | |
| inc. | mg kg | 5 | 5 | Pass | |
| LCS Recovery | | | | | |
| Total Recoverable Hydrocarbons 2013 NEPM Fractions | | | | | |
| Naphthalene | | | 0 1 0 | Pass | |
| Naphthalene | | 122 | 0 1 0 | Pass | |
| T R H C C10 | | 8 | 0 1 0 | Pass | |
| T R H C C10 | | 11 | 0 1 0 | Pass | |
| T R H C10 C1 | | 10 | 0 1 0 | Pass | |
| LCS Recovery | | | | | |
| Total Recoverable Hydrocarbons 1 NEPM Fractions | | | | | |
| T R H C C | | 101 | 0 1 0 | Pass | |
| T R H C10 C1 | | 8 | 0 1 0 | Pass | |
| LCS Recovery | | | | | |
| B TEX | | | | | |
| Benzene | | 1 | 0 1 0 | Pass | |
| Toluene | | 85 | 0 1 0 | Pass | |
| Ethylbenzene | | 0 | 0 1 0 | Pass | |
| m p Xylenes | | 85 | 0 1 0 | Pass | |
| Xylenes Total | | 85 | 0 1 0 | Pass | |
| LCS Recovery | | | | | |
| Volatile Organics | | | | | |
| 1.1 Dichloroethene | | 80 | 0 1 0 | Pass | |



| Test | Units | Result 1 | Acceptance Limits | Pass Limits | Qualifying Code |
|----------------------------------|-------|----------|-------------------|-------------|-----------------|
| 1.1.1 Trichloroethane | | 1 | 0 1 0 | | Pass |
| 1.2 Dichlorobenzene | | 8 | 0 1 0 | | Pass |
| 1.2 Dichloroethane | | 110 | 0 1 0 | | Pass |
| Benzene | | 10 | 0 1 0 | | Pass |
| Ethylbenzene | | 10 | 0 1 0 | | Pass |
| m,p Xylenes | | 101 | 0 1 0 | | Pass |
| Toluene | | 100 | 0 1 0 | | Pass |
| Trichloroethene | | 10 | 0 1 0 | | Pass |
| Xylenes Total | | 102 | 0 1 0 | | Pass |
| LCS Recovery | | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | | |
| Acenaphthene | | 8 | 0 1 0 | | Pass |
| Acenaphthylene | | 8 | 0 1 0 | | Pass |
| Anthracene | | 8 | 0 1 0 | | Pass |
| Benzo[a]anthracene | | 0 | 0 1 0 | | Pass |
| Benzo[a]pyrene | | 88 | 0 1 0 | | Pass |
| Benzo[b]fluoranthene | | 8 | 0 1 0 | | Pass |
| Benzo[g,h,i]perylene | | 0 | 0 1 0 | | Pass |
| Benzo[k]fluoranthene | | 88 | 0 1 0 | | Pass |
| Chrysene | | | 0 1 0 | | Pass |
| Dibenzo[a,h]anthracene | | 5 | 0 1 0 | | Pass |
| Fluoranthene | | 8 | 0 1 0 | | Pass |
| Fluorene | | 8 | 0 1 0 | | Pass |
| Indeno[1,2,3-cd]pyrene | | 85 | 0 1 0 | | Pass |
| Naphthalene | | 8 | 0 1 0 | | Pass |
| Phenanthrene | | 8 | 0 1 0 | | Pass |
| Pyrene | | 8 | 0 1 0 | | Pass |
| LCS Recovery | | | | | |
| Organochlorine Pesticides | | | | | |
| . DDD | | | 0 1 0 | | Pass |
| . DDE | | 10 | 0 1 0 | | Pass |
| . DDT | | 115 | 0 1 0 | | Pass |
| a BHC | | 10 | 0 1 0 | | Pass |
| Aldrin | | 112 | 0 1 0 | | Pass |
| b BHC | | 100 | 0 1 0 | | Pass |
| d BHC | | 100 | 0 1 0 | | Pass |
| Dieldrin | | 105 | 0 1 0 | | Pass |
| Endosulfan I | | 10 | 0 1 0 | | Pass |
| Endosulfan II | | 8 | 0 1 0 | | Pass |
| Endosulfan sulphate | | 105 | 0 1 0 | | Pass |
| Endrin | | 11 | 0 1 0 | | Pass |
| Endrin aldehyde | | 10 | 0 1 0 | | Pass |
| Endrin ketone | | 10 | 0 1 0 | | Pass |
| g BHC Lindane | | 10 | 0 1 0 | | Pass |
| Heptachlor | | 10 | 0 1 0 | | Pass |
| Heptachlor epoxide | | 105 | 0 1 0 | | Pass |
| Hexachlorobenzene | | 105 | 0 1 0 | | Pass |
| Methoxychlor | | 112 | 0 1 0 | | Pass |
| LCS Recovery | | | | | |
| Organophosphorus Pesticides | | | | | |
| Diazinon | | 8 | 0 1 0 | | Pass |
| Dimethoate | | | 0 1 0 | | Pass |
| Ethion | | 10 | 0 1 0 | | Pass |
| Fenitrothion | | 10 | 0 1 0 | | Pass |



| Test | Units | Result 1 | Acceptance Limits | Pass Limits | Qualifying Code | | |
|--|---------------|-----------|-------------------|-------------|-------------------|-------------|-----------------|
| Methyl parathion | | 8 | 0 1 0 | | Pass | | |
| Mevinphos | | 88 | 0 1 0 | | Pass | | |
| LCS Recovery | | | | | | | |
| Polychlorinated B iphenyls | | | | | | | |
| Aroclor 12 0 | | 8 | 0 1 0 | | Pass | | |
| LCS Recovery | | | | | | | |
| Phenols (Halogenated) | | | | | | | |
| 2 Chlorophenol | | 8 | 0 1 0 | | Pass | | |
| 2, 2 Dichlorophenol | | | 0 1 0 | | Pass | | |
| 2, 4 Dichlorophenol | | 10 | 0 1 0 | | Pass | | |
| 2, 6 Dichlorophenol | | 110 | 0 1 0 | | Pass | | |
| 2, 4, 6 Trichlorophenol | | 10 | 0 1 0 | | Pass | | |
| Chloro methylphenol | | | 0 1 0 | | Pass | | |
| Pentachlorophenol | | | 0 1 0 | | Pass | | |
| Tetrachlorophenols Total | | 8 | 0 1 0 | | Pass | | |
| LCS Recovery | | | | | | | |
| Phenols (non Halogenated) | | | | | | | |
| 2 Cyclohexyl, 1, 4 dinitrophenol | | 5 | 0 1 0 | | Pass | | |
| 2 Methyl, 4 dinitrophenol | | | 0 1 0 | | Pass | | |
| 2 Methylphenol o Cresol | | 81 | 0 1 0 | | Pass | | |
| 2 Nitrophenol | | 2 | 0 1 0 | | Pass | | |
| 2, 4 Dimethylphenol | | | 0 1 0 | | Pass | | |
| 2, 4, 6 Trimethylphenol m p Cresol | | | 0 1 0 | | Pass | | |
| Nitrophenol | | 0 | 0 1 0 | | Pass | | |
| Dinoseb | | | 0 1 0 | | Pass | | |
| Phenol | | 10 | 0 1 0 | | Pass | | |
| LCS Recovery | | | | | | | |
| Clay | | 8 | 0 1 0 | | Pass | | |
| Total Organic Carbon | | 100 | 0 1 0 | | Pass | | |
| LCS Recovery | | | | | | | |
| Heavy Metals | | | | | | | |
| Arsenic | | 111 | 80 120 | | Pass | | |
| Cadmium | | 102 | 80 120 | | Pass | | |
| Chromium | | 11 | 80 120 | | Pass | | |
| Copper | | 118 | 80 120 | | Pass | | |
| Lead | | 11 | 80 120 | | Pass | | |
| Mercury | | 10 | 5 125 | | Pass | | |
| Nickel | | 118 | 80 120 | | Pass | | |
| inc | | 112 | 80 120 | | Pass | | |
| Test | Lab Sample ID | QA Source | Units | Result 1 | Acceptance Limits | Pass Limits | Qualifying Code |
| Spike Recovery | | | | | | | |
| Volatile Organics | | | | Result 1 | | | |
| 1.1 Dichloroethene | M18 Au1 | 25 NCP | | 2 | 0 1 0 | | Pass |
| 1.1.1 Trichloroethane | M18 Au1 | 25 NCP | | | 0 1 0 | | Pass |
| 1.2 Dichlorobenzene | M18 Au1 | 25 NCP | | 10 | 0 1 0 | | Pass |
| 1.2 Dichloroethane | M18 Au1 | 25 NCP | | 121 | 0 1 0 | | Pass |
| Trichloroethene | M18 Au1 | 25 NCP | | 110 | 0 1 0 | | Pass |
| Spike Recovery | | | | | | | |
| Total Recoverable Hydrocarbons 2013 NEPM Fractions | | | | Result 1 | | | |
| Naphthalene | S18 Au1 | 15 CP | | 8 | 0 1 0 | | Pass |
| TRHC C10 | S18 Au1 | 15 CP | | 10 | 0 1 0 | | Pass |
| TRHC C10 C1 | S18 Au1 | 15 CP | | 2 | 0 1 0 | | Pass |
| Spike Recovery | | | | | | | |
| Total Recoverable Hydrocarbons 1 NEPM Fractions | | | | Result 1 | | | |



| Test | Lab Sample ID | QA Source | Units | Result 1 | Acceptance Limits | Pass Limits | Qualifying Code |
|--|---------------|-----------|-------|----------|-------------------|-------------|-----------------|
| T R H C C | S18 Au1 | 15 CP | | 110 | 0 1 0 | | Pass |
| T R H C10 C1 | S18 Au1 | 15 CP | | 8 | 0 1 0 | | Pass |
| Spike Recovery | | | | | | | |
| B TEX | | | | Result 1 | | | |
| Ben ene | S18 Au1 | 15 CP | | | 0 1 0 | | Pass |
| T oluene | S18 Au1 | 15 CP | | | 0 1 0 | | Pass |
| Ethylben ene | S18 Au1 | 15 CP | | | 0 1 0 | | Pass |
| m p X ylenes | S18 Au1 | 15 CP | | | 0 1 0 | | Pass |
| o X ylene | S18 Au1 | 15 CP | | | 0 1 0 | | Pass |
| X ylenes T otal | S18 Au1 | 15 CP | | | 0 1 0 | | Pass |
| Spike Recovery | | | | | | | |
| Total Recoverable Hydrocarbons 2013 NEPM Fractions | | | | Result 1 | | | |
| Naphthalene | S18 Au1 | 18 CP | | 12 | 0 1 0 | | Pass |
| T R H C C10 | S18 Au1 | 18 CP | | 12 | 0 1 0 | | Pass |
| Spike Recovery | | | | | | | |
| Total Recoverable Hydrocarbons 1 NEPM Fractions | | | | Result 1 | | | |
| T R H C C | S18 Au1 | 18 CP | | 12 | 0 1 0 | | Pass |
| Spike Recovery | | | | | | | |
| B TEX | | | | Result 1 | | | |
| Ben ene | S18 Au1 | 18 CP | | 108 | 0 1 0 | | Pass |
| T oluene | S18 Au1 | 18 CP | | 108 | 0 1 0 | | Pass |
| Ethylben ene | S18 Au1 | 18 CP | | 112 | 0 1 0 | | Pass |
| m p X ylenes | S18 Au1 | 18 CP | | 10 | 0 1 0 | | Pass |
| o X ylene | S18 Au1 | 18 CP | | 10 | 0 1 0 | | Pass |
| X ylenes T otal | S18 Au1 | 18 CP | | 10 | 0 1 0 | | Pass |
| Spike Recovery | | | | | | | |
| Phenols (Halogenated) | | | | Result 1 | | | |
| 2 Chlorophenol | M18 Au1 | 822 NCP | | 10 | 0 1 0 | | Pass |
| 2, Dichlorophenol | M18 Au1 | 822 NCP | | 101 | 0 1 0 | | Pass |
| 2, .5 T richlorophenol | M18 Au1 | 822 NCP | | 5 | 0 1 0 | | Pass |
| 2, . T richlorophenol | M18 Au1 | 822 NCP | | 8 | 0 1 0 | | Pass |
| 2, Dichlorophenol | M18 Au1 | 822 NCP | | | 0 1 0 | | Pass |
| Chloro methylphenol | M18 Au1 | 822 NCP | | 8 | 0 1 0 | | Pass |
| Pentachlorophenol | M18 Au1 | 80 NCP | | | 0 1 0 | | Pass |
| T etrachlorophenols T otal | M18 Au1 | 822 NCP | | | 0 1 0 | | Pass |
| Spike Recovery | | | | | | | |
| Phenols (non Halogenated) | | | | Result 1 | | | |
| 2 Cyclohexyl . dinitrophenol | M18 Au18 | 5 NCP | | | 0 1 0 | | Pass |
| 2 Methyl . dinitrophenol | M18 Au15 | 8 NCP | | 2 | 0 1 0 | | Pass |
| 2 Methylphenol o Cresol | M18 Au1 | 822 NCP | | | 0 1 0 | | Pass |
| 2 Nitrophenol | M18 Au1 | 822 NCP | | 88 | 0 1 0 | | Pass |
| 2, Dimethylphenol | M18 Au1 | 822 NCP | | 100 | 0 1 0 | | Pass |
| 2, Dinitrophenol | M18 Au18 | 5 NCP | | | 0 1 0 | | Pass |
| Methylphenol m p Cresol | M18 Au1 | 822 NCP | | 102 | 0 1 0 | | Pass |
| Nitrophenol | M18 Au1 | 822 NCP | | 5 | 0 1 0 | | Pass |
| Dinoseb | M18 Au15 | 8 NCP | | | 0 1 0 | | Pass |
| Phenol | M18 Au1 | 822 NCP | | 10 | 0 1 0 | | Pass |
| Spike Recovery | | | | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | Result 1 | | | |
| Acenaphthene | S18 Au1 | 21 CP | | 0 | 0 1 0 | | Pass |
| Acenaphthylene | S18 Au1 | 21 CP | | 1 | 0 1 0 | | Pass |
| Anthracene | S18 Au1 | 21 CP | | | 0 1 0 | | Pass |
| Ben a anthracene | S18 Au1 | 21 CP | | | 0 1 0 | | Pass |
| Ben o a pyrene | S18 Au1 | 21 CP | | 85 | 0 1 0 | | Pass |



| Test | Lab Sample ID | QA Source | Units | Result 1 | Acceptance Limits | Pass Limits | Qualifying Code |
|---------------------------|---------------|-----------|-------|----------|-------------------|-------------|-----------------|
| Ben o b fluoranthene | S18 Au1 21 | CP | | | 0 1 0 | | Pass |
| Ben o g,h,i perylene | S18 Au1 21 | CP | | 0 | 0 1 0 | | Pass |
| Ben o k fluoranthene | S18 Au1 21 | CP | | 8 | 0 1 0 | | Pass |
| Chrysene | S18 Au1 21 | CP | | | 0 1 0 | | Pass |
| Diben a,h anthracene | S18 Au1 21 | CP | | 8 | 0 1 0 | | Pass |
| Fluoranthene | S18 Au1 21 | CP | | 1 | 0 1 0 | | Pass |
| Fluorene | S18 Au1 21 | CP | | | 0 1 0 | | Pass |
| Indeno 1,2, cd pyrene | S18 Au1 21 | CP | | | 0 1 0 | | Pass |
| Naphthalene | S18 Au1 21 | CP | | 0 | 0 1 0 | | Pass |
| Phenanthrene | S18 Au1 21 | CP | | 8 | 0 1 0 | | Pass |
| Pyrene | S18 Au1 21 | CP | | 2 | 0 1 0 | | Pass |
| Spike Recovery | | | | | | | |
| Heavy Metals | | | | Result 1 | | | |
| Arsenic | S18 Au1 22 | CP | | 8 | 5 125 | | Pass |
| Cadmium | S18 Au1 22 | CP | | 1 | 5 125 | | Pass |
| Chromium | S18 Au1 22 | CP | | 108 | 5 125 | | Pass |
| Copper | S18 Au1 22 | CP | | 6 | 5 125 | | Pass |
| Lead | S18 Au1 22 | CP | | 1 | 5 125 | | Fail Q 08 |
| Mercury | S18 Au1 22 | CP | | 8 | 0 1 0 | | Pass |
| Nickel | S18 Au1 22 | CP | | 11 | 5 125 | | Pass |
| Spike Recovery | | | | | | | |
| Organochlorine Pesticides | | | | Result 1 | | | |
| . DDD | S18 Au1 2 | CP | | 100 | 0 1 0 | | Pass |
| . DDE | S18 Au1 2 | CP | | 105 | 0 1 0 | | Pass |
| . DDT | S18 Au1 2 | CP | | 8 | 0 1 0 | | Pass |
| a BHC | S18 Au1 2 | CP | | | 0 1 0 | | Pass |
| Aldrin | S18 Au1 2 | CP | | 10 | 0 1 0 | | Pass |
| b BHC | S18 Au1 2 | CP | | 5 | 0 1 0 | | Pass |
| d BHC | S18 Au1 2 | CP | | 8 | 0 1 0 | | Pass |
| Dieldrin | S18 Au1 2 | CP | | 8 | 0 1 0 | | Pass |
| Endosulfan I | S18 Au1 2 | CP | | | 0 1 0 | | Pass |
| Endosulfan II | S18 Au1 2 | CP | | 5 | 0 1 0 | | Pass |
| Endosulfan sulphate | S18 Au1 2 | CP | | 100 | 0 1 0 | | Pass |
| Endrin | S18 Au1 2 | CP | | 10 | 0 1 0 | | Pass |
| Endrin aldehyde | S18 Au1 2 | CP | | 102 | 0 1 0 | | Pass |
| Endrin ketone | S18 Au1 2 | CP | | 10 | 0 1 0 | | Pass |
| g BHC Lindane | S18 Au1 2 | CP | | | 0 1 0 | | Pass |
| Heptachlor | S18 Au1 2 | CP | | | 0 1 0 | | Pass |
| Heptachlor epoxide | S18 Au1 2 | CP | | 5 | 0 1 0 | | Pass |
| Hexachlorobenzene | S18 Au1 2 | CP | | 5 | 0 1 0 | | Pass |
| Methoxychlor | S18 Au1 2 | CP | | 100 | 0 1 0 | | Pass |
| Spike Recovery | | | | | | | |
| Polychlorinated Biphenyls | | | | Result 1 | | | |
| Aroclor 1200 | S18 Au1 2 | CP | | 102 | 0 1 0 | | Pass |
| Spike Recovery | | | | | | | |
| Heavy Metals | | | | Result 1 | | | |
| Arsenic | S18 Au1 1 | CP | | 10 | 5 125 | | Pass |
| Cadmium | S18 Au1 1 | CP | | 8 | 5 125 | | Pass |
| Chromium | S18 Au1 1 | CP | | 10 | 5 125 | | Pass |
| Copper | S18 Au1 1 | CP | | 118 | 5 125 | | Pass |
| Lead | S18 Au1 1 | CP | | 11 | 5 125 | | Pass |
| Mercury | S18 Au1 1 | CP | | 10 | 0 1 0 | | Pass |
| Nickel | S18 Au1 1 | CP | | 10 | 5 125 | | Pass |
| Spike Recovery | | | | | | | |



| Test | Lab Sample ID | QA Source | Units | Result 1 | Acceptance Limits | Pass Limits | Qualifying Code |
|---|---------------|-----------|-------|----------|-------------------|-------------|-----------------|
| Organophosphorus Pesticides | | | | | | | |
| | | | | Result 1 | | | |
| Dia inon | S18 Au1 | 5 | CP | | 0 1 0 | | Pass |
| Dimethoate | S18 Au1 | 5 | CP | 1 | 0 1 0 | | Pass |
| Ethion | S18 Au1 | 5 | CP | 12 | 0 1 0 | | Pass |
| Fenitrothion | S18 Au1 | 5 | CP | 10 | 0 1 0 | | Pass |
| Methyl parathion | S18 Au1 | 5 | CP | 8 | 0 1 0 | | Pass |
| Mevinphos | S18 Au1 | 5 | CP | 10 | 0 1 0 | | Pass |
| Spike Recovery | | | | | | | |
| Organochlorine Pesticides | | | | | | | |
| | | | | Result 1 | | | |
| DDD | S18 Au1 | 5 | CP | 5 | 0 1 0 | | Pass |
| DDE | S18 Au1 | 5 | CP | 100 | 0 1 0 | | Pass |
| DDT | S18 Au1 | 5 | CP | 11 | 0 1 0 | | Pass |
| a BHC | S18 Au1 | 5 | CP | 2 | 0 1 0 | | Pass |
| Aldrin | S18 Au1 | 5 | CP | | 0 1 0 | | Pass |
| b BHC | S18 Au1 | 5 | CP | 85 | 0 1 0 | | Pass |
| d BHC | S18 Au1 | 5 | CP | 8 | 0 1 0 | | Pass |
| Dieldrin | S18 Au1 | 5 | CP | | 0 1 0 | | Pass |
| Endosulfan I | S18 Au1 | 5 | CP | 2 | 0 1 0 | | Pass |
| Endosulfan II | S18 Au1 | 5 | CP | | 0 1 0 | | Pass |
| Endosulfan sulphate | S18 Au1 | 5 | CP | | 0 1 0 | | Pass |
| Endrin | S18 Au1 | 5 | CP | 10 | 0 1 0 | | Pass |
| Endrin aldehyde | S18 Au1 | 5 | CP | | 0 1 0 | | Pass |
| Endrin ketone | S18 Au1 | 5 | CP | 1 | 0 1 0 | | Pass |
| g BHC Lindane | S18 Au1 | 5 | CP | 2 | 0 1 0 | | Pass |
| Heptachlor | S18 Au1 | 5 | CP | 118 | 0 1 0 | | Pass |
| Heptachlor epoxide | S18 Au1 | 5 | CP | 8 | 0 1 0 | | Pass |
| Hexachlorobene | S18 Au1 | 5 | CP | 1 | 0 1 0 | | Pass |
| Methoxychlor | S18 Au1 | 5 | CP | 115 | 0 1 0 | | Pass |
| Spike Recovery | | | | | | | |
| Heavy Metals | | | | | | | |
| | | | | Result 1 | | | |
| Arsenic | S18 Au1 | 5 | CP | 10 | 5 125 | | Pass |
| Cadmium | S18 Au1 | 5 | CP | | 5 125 | | Pass |
| Chromium | S18 Au1 | 5 | CP | 112 | 5 125 | | Pass |
| Copper | S18 Au1 | 5 | CP | 112 | 5 125 | | Pass |
| Lead | S18 Au1 | 5 | CP | 11 | 5 125 | | Pass |
| Mercury | S18 Au1 | 5 | CP | 5 | 0 1 0 | | Pass |
| Nickel | S18 Au1 | 5 | CP | 108 | 5 125 | | Pass |
| inc | S18 Au1 | 5 | CP | 120 | 5 125 | | Pass |
| Spike Recovery | | | | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | | | | |
| | | | | Result 1 | | | |
| Acenaphthene | S18 Au1 | 58 | CP | 8 | 0 1 0 | | Pass |
| Acenaphthylene | S18 Au1 | 58 | CP | | 0 1 0 | | Pass |
| Anthracene | S18 Au1 | 58 | CP | 82 | 0 1 0 | | Pass |
| Ben a anthracene | S18 Au1 | 58 | CP | 8 | 0 1 0 | | Pass |
| Ben o a pyrene | S18 Au1 | 58 | CP | 2 | 0 1 0 | | Pass |
| Ben o b fluoranthene | S18 Au1 | 58 | CP | | 0 1 0 | | Pass |
| Ben o g,h,i perylene | S18 Au1 | 58 | CP | | 0 1 0 | | Pass |
| Ben o k fluoranthene | S18 Au1 | 58 | CP | 101 | 0 1 0 | | Pass |
| Chrysene | S18 Au1 | 58 | CP | 88 | 0 1 0 | | Pass |
| Diben a,h anthracene | S18 Au1 | 58 | CP | | 0 1 0 | | Pass |
| Fluoranthene | S18 Au1 | 58 | CP | 81 | 0 1 0 | | Pass |
| Fluorene | S18 Au1 | 58 | CP | | 0 1 0 | | Pass |
| Indeno 1,2,3-cd pyrene | S18 Au1 | 58 | CP | 8 | 0 1 0 | | Pass |
| Naphthalene | S18 Au1 | 58 | CP | 8 | 0 1 0 | | Pass |



| Test | Lab Sample ID | QA Source | Units | Result 1 | Acceptance Limits | Pass Limits | Qualifying Code |
|--------------------------------|---------------------|-------------|-------|----------|-------------------|-------------|-----------------|
| Phenanthrene | S18 Au1 | 58 CP | | | 0 1 0 | 0 | Pass |
| Pyrene | S18 Au1 | 58 CP | | 80 | 0 1 0 | 0 | Pass |
| Spike Recovery | | | | | | | |
| Polychlorinated Biphenyls | | | | Result 1 | | | |
| Aroclor 120 | S18 Au1 | 5 CP | | 102 | 0 1 0 | 0 | Pass |
| Spike Recovery | | | | | | | |
| Total Recoverable Hydrocarbons | 2013 NEPM Fractions | | | Result 1 | | | |
| Naphthalene | S18 Au1 | 5 CP | | 10 | 0 1 0 | 0 | Pass |
| T RH C10 | S18 Au1 | 5 CP | | | 0 1 0 | 0 | Pass |
| T RH C10 C1 | S18 Au1 | 5 CP | | 128 | 0 1 0 | 0 | Pass |
| Spike Recovery | | | | | | | |
| Total Recoverable Hydrocarbons | 1 NEPM Fractions | | | Result 1 | | | |
| T RH C C | S18 Au1 | 5 CP | | | 0 1 0 | 0 | Pass |
| T RH C10 C1 | S18 Au1 | 5 CP | | 110 | 0 1 0 | 0 | Pass |
| Spike Recovery | | | | | | | |
| B TEX | | | | Result 1 | | | |
| Benene | S18 Au1 | 5 CP | | 8 | 0 1 0 | 0 | Pass |
| Toluene | S18 Au1 | 5 CP | | 85 | 0 1 0 | 0 | Pass |
| Ethylbenene | S18 Au1 | 5 CP | | 8 | 0 1 0 | 0 | Pass |
| m p Xylenes | S18 Au1 | 5 CP | | 8 | 0 1 0 | 0 | Pass |
| o Xylene | S18 Au1 | 5 CP | | 8 | 0 1 0 | 0 | Pass |
| Xylenes Total | S18 Au1 | 5 CP | | 85 | 0 1 0 | 0 | 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 | |
| T RH C10 C1 | S18 Au1 | 12 CP mg kg | | 50 | 50 | 1 | 0 Pass |
| T RH C1 C | S18 Au1 | 12 CP mg kg | | 100 | 100 | 1 | 0 Pass |
| T RH C C0 | S18 Au1 | 12 CP mg kg | | 100 | 100 | 1 | 0 Pass |
| Duplicate | | | | | | | |
| Total Recoverable Hydrocarbons | 1 NEPM Fractions | | | Result 1 | Result 2 | RPD | |
| T RH C10 C1 | S18 Au1 | 12 CP mg kg | | 20 | 20 | 1 | 0 Pass |
| T RH C15 C28 | S18 Au1 | 12 CP mg kg | | 50 | 50 | 1 | 0 Pass |
| T RH C2 C | S18 Au1 | 12 CP mg kg | | 50 | 50 | 1 | 0 Pass |
| Duplicate | | | | | | | |
| Total Organic Carbon | M18 Ma0 | 58 NCP | | 0. | 0.5 | 2 | 0 Pass |
| Cation Exchange Capacity | M18 Au1 | 0 N3Req | 100g | 11 | 11 | 1.0 | 0 Pass |
| Duplicate | | | | | | | |
| Total Recoverable Hydrocarbons | 2013 NEPM Fractions | | | Result 1 | Result 2 | RPD | |
| Naphthalene | S18 Au1 | 1 CP mg kg | | 0.5 | 0.5 | 1 | 0 Pass |
| T RH C C10 | S18 Au1 | 1 CP mg kg | | 20 | 20 | 1 | 0 Pass |
| Duplicate | | | | | | | |
| Total Recoverable Hydrocarbons | 1 NEPM Fractions | | | Result 1 | Result 2 | RPD | |
| T RH C C | S18 Au1 | 1 CP mg kg | | 20 | 20 | 1 | 0 Pass |
| Duplicate | | | | | | | |
| B TEX | | | | Result 1 | Result 2 | RPD | |
| Benene | S18 Au1 | 1 CP mg kg | | 0.1 | 0.1 | 1 | 0 Pass |
| Toluene | S18 Au1 | 1 CP mg kg | | 0.1 | 0.1 | 1 | 0 Pass |
| Ethylbenene | S18 Au1 | 1 CP mg kg | | 0.1 | 0.1 | 1 | 0 Pass |
| m p Xylenes | S18 Au1 | 1 CP mg kg | | 0.2 | 0.2 | 1 | 0 Pass |
| o Xylene | S18 Au1 | 1 CP mg kg | | 0.1 | 0.1 | 1 | 0 Pass |
| Xylenes Total | S18 Au1 | 1 CP mg kg | | 0. | 0. | 1 | 0 Pass |



| Duplicate | | | | | | | | | | |
|----------------------------------|-----|-----|----|----|----|----------|----------|------|------|--------|
| | | | | | | Result 1 | Result 2 | RPD | | |
| Clay | S18 | Au1 | 1 | CP | | | 1 | 1 | 1 | 0 Pass |
| Conductivity at 25°C as rec.) | S18 | Au1 | 1 | CP | uS | cm | | 0 | 11 | 0 Pass |
| pH units at 25°C as rec.) | S18 | Au1 | 1 | CP | | pH | nits | .2 | pass | 0 Pass |
| Duplicate | | | | | | | | | | |
| Heavy Metals | | | | | | | | | | |
| | | | | | | Result 1 | Result 2 | RPD | | |
| Arsenic | S18 | Au1 | 18 | CP | mg | kg | 2 | 2 | 1 | 0 Pass |
| Cadmium | S18 | Au1 | 18 | CP | mg | kg | 0. | 0. | 1 | 0 Pass |
| Chromium | S18 | Au1 | 18 | CP | mg | kg | . | 5. | 8.0 | 0 Pass |
| Copper | S18 | Au1 | 18 | CP | mg | kg | 5 | 5 | 1 | 0 Pass |
| Iron | S18 | Au1 | 18 | CP | mg | kg | 1100 | 1000 | 8.0 | 0 Pass |
| Lead | S18 | Au1 | 18 | CP | mg | kg | 5 | 5 | 1 | 0 Pass |
| Mercury | S18 | Au1 | 18 | CP | mg | kg | 0.1 | 0.1 | 1 | 0 Pass |
| Nickel | S18 | Au1 | 18 | CP | mg | kg | 5 | 5 | 1 | 0 Pass |
| inc | S18 | Au1 | 18 | CP | mg | kg | 21 | 20 | .0 | 0 Pass |
| Duplicate | | | | | | | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | | | | | | | |
| | | | | | | Result 1 | Result 2 | RPD | | |
| Acenaphthene | S18 | Au1 | 1 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 Pass |
| Acenaphthylene | S18 | Au1 | 1 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 Pass |
| Anthracene | S18 | Au1 | 1 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 Pass |
| Ben a anthracene | S18 | Au1 | 1 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 Pass |
| Ben o a pyrene | S18 | Au1 | 1 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 Pass |
| Ben o b fluoranthene | S18 | Au1 | 1 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 Pass |
| Ben o g,h,i perylene | S18 | Au1 | 1 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 Pass |
| Ben o k fluoranthene | S18 | Au1 | 1 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 Pass |
| Chrysene | S18 | Au1 | 1 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 Pass |
| Diben a,h anthracene | S18 | Au1 | 1 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 Pass |
| Fluoranthene | S18 | Au1 | 1 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 Pass |
| Fluorene | S18 | Au1 | 1 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 Pass |
| Indeno 1,2, cd pyrene | S18 | Au1 | 1 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 Pass |
| Naphthalene | S18 | Au1 | 1 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 Pass |
| Phenanthrene | S18 | Au1 | 1 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 Pass |
| Pyrene | S18 | Au1 | 1 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 Pass |
| Duplicate | | | | | | | | | | |
| Organophosphorus Pesticides | | | | | | | | | | |
| | | | | | | Result 1 | Result 2 | RPD | | |
| A inphos methyl | S18 | Au1 | 1 | CP | mg | kg | 0.2 | 0.2 | 1 | 0 Pass |
| Bolstar | S18 | Au1 | 1 | CP | mg | kg | 0.2 | 0.2 | 1 | 0 Pass |
| Chlorfenvinphos | S18 | Au1 | 1 | CP | mg | kg | 0.2 | 0.2 | 1 | 0 Pass |
| Chlorpyrifos | S18 | Au1 | 1 | CP | mg | kg | 0.2 | 0.2 | 1 | 0 Pass |
| Chlorpyrifos methyl | S18 | Au1 | 1 | CP | mg | kg | 0.2 | 0.2 | 1 | 0 Pass |
| Coumaphos | S18 | Au1 | 1 | CP | mg | kg | 2 | 2 | 1 | 0 Pass |
| Demeton S | S18 | Au1 | 1 | CP | mg | kg | 0.2 | 0.2 | 1 | 0 Pass |
| Demeton O | S18 | Au1 | 1 | CP | mg | kg | 0.2 | 0.2 | 1 | 0 Pass |
| Dia inon | S18 | Au1 | 1 | CP | mg | kg | 0.2 | 0.2 | 1 | 0 Pass |
| Dichlorvos | S18 | Au1 | 1 | CP | mg | kg | 0.2 | 0.2 | 1 | 0 Pass |
| Dimethoate | S18 | Au1 | 1 | CP | mg | kg | 0.2 | 0.2 | 1 | 0 Pass |
| Disulfoton | S18 | Au1 | 1 | CP | mg | kg | 0.2 | 0.2 | 1 | 0 Pass |
| EPN | S18 | Au1 | 1 | CP | mg | kg | 0.2 | 0.2 | 1 | 0 Pass |
| Ethion | S18 | Au1 | 1 | CP | mg | kg | 0.2 | 0.2 | 1 | 0 Pass |
| Ethoprop | S18 | Au1 | 1 | CP | mg | kg | 0.2 | 0.2 | 1 | 0 Pass |
| Ethyl parathion | S18 | Au1 | 1 | CP | mg | kg | 0.2 | 0.2 | 1 | 0 Pass |
| Fenitrothion | S18 | Au1 | 1 | CP | mg | kg | 0.2 | 0.2 | 1 | 0 Pass |
| Fensulfothion | S18 | Au1 | 1 | CP | mg | kg | 0.2 | 0.2 | 1 | 0 Pass |
| Fenthion | S18 | Au1 | 1 | CP | mg | kg | 0.2 | 0.2 | 1 | 0 Pass |



| Duplicate | | | | | | | | | | | | |
|-----------------------------|-----|-----|----|----|----|----|----------|----------|-----|---|------|------|
| Organophosphorus Pesticides | | | | | | | Result 1 | Result 2 | RPD | | | |
| Malathion | S18 | Au1 | 1 | CP | mg | kg | 0.2 | 0.2 | 1 | 0 | Pass | |
| Merphos | S18 | Au1 | 1 | CP | mg | kg | 0.2 | 0.2 | 1 | 0 | Pass | |
| Methyl parathion | S18 | Au1 | 1 | CP | mg | kg | 0.2 | 0.2 | 1 | 0 | Pass | |
| Mevinphos | S18 | Au1 | 1 | CP | mg | kg | 0.2 | 0.2 | 1 | 0 | Pass | |
| Monocrotophos | S18 | Au1 | 1 | CP | mg | kg | 2 | 2 | 1 | 0 | Pass | |
| Naled | S18 | Au1 | 1 | CP | mg | kg | 0.2 | 0.2 | 1 | 0 | Pass | |
| O methoate | S18 | Au1 | 1 | CP | mg | kg | 2 | 2 | 1 | 0 | Pass | |
| Phorate | S18 | Au1 | 1 | CP | mg | kg | 0.2 | 0.2 | 1 | 0 | Pass | |
| Pirimiphos methyl | S18 | Au1 | 1 | CP | mg | kg | 0.2 | 0.2 | 1 | 0 | Pass | |
| Pyra ophos | S18 | Au1 | 1 | CP | mg | kg | 0.2 | 0.2 | 1 | 0 | Pass | |
| Ronnel | S18 | Au1 | 1 | CP | mg | kg | 0.2 | 0.2 | 1 | 0 | Pass | |
| T erbufos | S18 | Au1 | 1 | CP | mg | kg | 0.2 | 0.2 | 1 | 0 | Pass | |
| T etrachlorvinphos | S18 | Au1 | 1 | CP | mg | kg | 0.2 | 0.2 | 1 | 0 | Pass | |
| T okuthion | S18 | Au1 | 1 | CP | mg | kg | 0.2 | 0.2 | 1 | 0 | Pass | |
| T richloronate | S18 | Au1 | 1 | CP | mg | kg | 0.2 | 0.2 | 1 | 0 | Pass | |
| Duplicate | | | | | | | | | | | | |
| Phenols (Halogenated) | | | | | | | Result 1 | Result 2 | RPD | | | |
| 2 Chlorophenol | S18 | Au1 | 1 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass | |
| 2 Dichlorophenol | S18 | Au1 | 1 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass | |
| 2, 5 Trichlorophenol | S18 | Au1 | 1 | CP | mg | kg | 1 | 1 | 1 | 0 | Pass | |
| 2, 4 Trichlorophenol | S18 | Au1 | 1 | CP | mg | kg | 1 | 1 | 1 | 0 | Pass | |
| 2 Dichlorophenol | S18 | Au1 | 1 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass | |
| Chloro methylphenol | S18 | Au1 | 1 | CP | mg | kg | 1 | 1 | 1 | 0 | Pass | |
| Pentachlorophenol | S18 | Au1 | 1 | CP | mg | kg | 1 | 1 | 1 | 0 | Pass | |
| T etrachlorophenols Total | S18 | Au1 | 1 | CP | mg | kg | 1 | 1 | 1 | 0 | Pass | |
| Duplicate | | | | | | | | | | | | |
| Phenols (non Halogenated) | | | | | | | Result 1 | Result 2 | RPD | | | |
| 2 Cyclohexyl, dinitrophenol | S18 | Au1 | 1 | CP | mg | kg | 20 | 20 | 20 | 1 | 0 | Pass |
| 2 Methyl, dinitrophenol | S18 | Au1 | 1 | CP | mg | kg | 5 | 5 | 1 | 0 | Pass | |
| 2 Methylphenol o Cresol | S18 | Au1 | 1 | CP | mg | kg | 0.2 | 0.2 | 1 | 0 | Pass | |
| 2 Nitrophenol | S18 | Au1 | 1 | CP | mg | kg | 1 | 1 | 1 | 0 | Pass | |
| 2, Dimethylphenol | S18 | Au1 | 1 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass | |
| 2, Dinitrophenol | S18 | Au1 | 1 | CP | mg | kg | 5 | 5 | 1 | 0 | Pass | |
| Methylphenol m p Cresol | S18 | Au1 | 1 | CP | mg | kg | 0. | 0. | 1 | 0 | Pass | |
| Nitrophenol | S18 | Au1 | 1 | CP | mg | kg | 5 | 5 | 1 | 0 | Pass | |
| Dinoseb | S18 | Au1 | 1 | CP | mg | kg | 20 | 20 | 1 | 0 | Pass | |
| Phenol | S18 | Au1 | 1 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass | |
| Duplicate | | | | | | | | | | | | |
| | | | | | | | Result 1 | Result 2 | RPD | | | |
| Moisture | S18 | Au1 | 1 | CP | | | | | 0 | 0 | Pass | |
| Duplicate | | | | | | | | | | | | |
| Heavy Metals | | | | | | | Result 1 | Result 2 | RPD | | | |
| Arsenic | S18 | Au1 | 22 | CP | mg | kg | 2 | | 1.0 | 0 | Pass | |
| Cadmium | S18 | Au1 | 22 | CP | mg | kg | | | 1.0 | 0 | Pass | |
| Chromium | S18 | Au1 | 22 | CP | mg | kg | 22 | 2 | 2.0 | 0 | Pass | |
| Copper | S18 | Au1 | 22 | CP | mg | kg | 150 | 150 | 2.0 | 0 | Pass | |
| Lead | S18 | Au1 | 22 | CP | mg | kg | 100 | 100 | 1.0 | 0 | Pass | |
| Mercury | S18 | Au1 | 22 | CP | mg | kg | 0.2 | 0.2 | 0 | 0 | Pass | |
| Nickel | S18 | Au1 | 22 | CP | mg | kg | 5 | 5 | 1.0 | 0 | Pass | |
| inc | S18 | Au1 | 22 | CP | mg | kg | 2 00 | 2 00 | 1 | 0 | Pass | |



| Duplicate | | | | | | | | | | | |
|---------------------------|-----|-----|---|----|----|----|----------|----------|-----|---|------|
| Organochlorine Pesticides | | | | | | | Result 1 | Result 2 | RPD | | |
| Chlordanes Total | S18 | Au1 | 2 | CP | mg | kg | 0.1 | 0.1 | 1 | 0 | Pass |
| . DDD | S18 | Au1 | 2 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| . DDE | S18 | Au1 | 2 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| . DDT | S18 | Au1 | 2 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| a BHC | S18 | Au1 | 2 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| Aldrin | S18 | Au1 | 2 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| b BHC | S18 | Au1 | 2 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| d BHC | S18 | Au1 | 2 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| Dieldrin | S18 | Au1 | 2 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| Endosulfan I | S18 | Au1 | 2 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| Endosulfan II | S18 | Au1 | 2 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| Endosulfan sulphate | S18 | Au1 | 2 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| Endrin | S18 | Au1 | 2 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| Endrin aldehyde | S18 | Au1 | 2 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| Endrin ketone | S18 | Au1 | 2 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| g BHC Lindane | S18 | Au1 | 2 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| Heptachlor | S18 | Au1 | 2 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| Heptachlor epoxide | S18 | Au1 | 2 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| Hexachlorobenzene | S18 | Au1 | 2 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| Methoxychlor | S18 | Au1 | 2 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| Toxaphene | S18 | Au1 | 2 | CP | mg | kg | 1 | 1 | 1 | 0 | Pass |
| Duplicate | | | | | | | | | | | |
| Polychlorinated Biphenyls | | | | | | | Result 1 | Result 2 | RPD | | |
| Aroclor 101 | S18 | Au1 | 2 | CP | mg | kg | 0.1 | 0.1 | 1 | 0 | Pass |
| Aroclor 1221 | S18 | Au1 | 2 | CP | mg | kg | 0.1 | 0.1 | 1 | 0 | Pass |
| Aroclor 12 2 | S18 | Au1 | 2 | CP | mg | kg | 0.1 | 0.1 | 1 | 0 | Pass |
| Aroclor 12 2 | S18 | Au1 | 2 | CP | mg | kg | 0.1 | 0.1 | 1 | 0 | Pass |
| Aroclor 12 8 | S18 | Au1 | 2 | CP | mg | kg | 0.1 | 0.1 | 1 | 0 | Pass |
| Aroclor 125 | S18 | Au1 | 2 | CP | mg | kg | 0.1 | 0.1 | 1 | 0 | Pass |
| Aroclor 12 0 | S18 | Au1 | 2 | CP | mg | kg | 0.1 | 0.1 | 1 | 0 | Pass |
| Total PCB | S18 | Au1 | 2 | CP | mg | kg | 0.1 | 0.1 | 1 | 0 | Pass |
| Duplicate | | | | | | | | | | | |
| Moisture | S18 | Au1 | 2 | CP | | | 1 | 1 | 2.0 | 0 | Pass |
| Duplicate | | | | | | | | | | | |
| Organochlorine Pesticides | | | | | | | Result 1 | Result 2 | RPD | | |
| Chlordanes Total | S18 | Au1 | 0 | CP | mg | kg | 0.1 | 0.1 | 1 | 0 | Pass |
| . DDD | S18 | Au1 | 0 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| . DDE | S18 | Au1 | 0 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| . DDT | S18 | Au1 | 0 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| a BHC | S18 | Au1 | 0 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| Aldrin | S18 | Au1 | 0 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| b BHC | S18 | Au1 | 0 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| d BHC | S18 | Au1 | 0 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| Dieldrin | S18 | Au1 | 0 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| Endosulfan I | S18 | Au1 | 0 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| Endosulfan II | S18 | Au1 | 0 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| Endosulfan sulphate | S18 | Au1 | 0 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| Endrin | S18 | Au1 | 0 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| Endrin aldehyde | S18 | Au1 | 0 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| Endrin ketone | S18 | Au1 | 0 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| g BHC Lindane | S18 | Au1 | 0 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| Heptachlor | S18 | Au1 | 0 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| Heptachlor epoxide | S18 | Au1 | 0 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |



| Duplicate | | | | | | | | | | | |
|--|-----|-----|---|-----|----|----------|----------|------|------|---|------|
| Organochlorine Pesticides | | | | | | Result 1 | Result 2 | RPD | | | |
| Hexachlorobene | S18 | Au1 | 0 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| Methoxychlor | S18 | Au1 | 0 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| Toxaphene | S18 | Au1 | 0 | CP | mg | kg | 1 | 1 | 1 | 0 | Pass |
| Duplicate | | | | | | | | | | | |
| Polychlorinated Biphenyls | | | | | | Result 1 | Result 2 | RPD | | | |
| Aroclor 101 | S18 | Au1 | 0 | CP | mg | kg | 0.1 | 0.1 | 1 | 0 | Pass |
| Aroclor 1221 | S18 | Au1 | 0 | CP | mg | kg | 0.1 | 0.1 | 1 | 0 | Pass |
| Aroclor 12 2 | S18 | Au1 | 0 | CP | mg | kg | 0.1 | 0.1 | 1 | 0 | Pass |
| Aroclor 12 2 | S18 | Au1 | 0 | CP | mg | kg | 0.1 | 0.1 | 1 | 0 | Pass |
| Aroclor 12 8 | S18 | Au1 | 0 | CP | mg | kg | 0.1 | 0.1 | 1 | 0 | Pass |
| Aroclor 125 | S18 | Au1 | 0 | CP | mg | kg | 0.1 | 0.1 | 1 | 0 | Pass |
| Aroclor 12 0 | S18 | Au1 | 0 | CP | mg | kg | 0.1 | 0.1 | 1 | 0 | Pass |
| Total PCB | S18 | Au1 | 0 | CP | mg | kg | 0.1 | 0.1 | 1 | 0 | Pass |
| Duplicate | | | | | | | | | | | |
| pH (1:5 Aqueous extract at 25°C as rec.) | M18 | Au1 | 8 | NCP | pH | nits | 8.1 | 8.0 | pass | 0 | Pass |
| Duplicate | | | | | | | | | | | |
| Total Recoverable Hydrocarbons 2013 NEPM Fractions | | | | | | Result 1 | Result 2 | RPD | | | |
| Naphthalene | S18 | Au1 | | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass |
| T RH C C10 | S18 | Au1 | | CP | mg | kg | 20 | 20 | 1 | 0 | Pass |
| T RH C10 C1 | S18 | Au1 | | CP | mg | kg | 50 | 50 | 1 | 0 | Pass |
| T RH C1 C | S18 | Au1 | | CP | mg | kg | 100 | 100 | 1 | 0 | Pass |
| T RH C C 0 | S18 | Au1 | | CP | mg | kg | 100 | 100 | 1 | 0 | Pass |
| Duplicate | | | | | | | | | | | |
| Total Recoverable Hydrocarbons 1 NEPM Fractions | | | | | | Result 1 | Result 2 | RPD | | | |
| T RH C C | S18 | Au1 | | CP | mg | kg | 20 | 20 | 1 | 0 | Pass |
| T RH C10 C1 | S18 | Au1 | | CP | mg | kg | 20 | 20 | 1 | 0 | Pass |
| T RH C15 C28 | S18 | Au1 | | CP | mg | kg | 50 | 50 | 1 | 0 | Pass |
| T RH C2 C | S18 | Au1 | | CP | mg | kg | 50 | 50 | 1 | 0 | Pass |
| Duplicate | | | | | | | | | | | |
| B TEX | | | | | | Result 1 | Result 2 | RPD | | | |
| Benzene | S18 | Au1 | | CP | mg | kg | 0.1 | 0.1 | 1 | 0 | Pass |
| Toluene | S18 | Au1 | | CP | mg | kg | 0.1 | 0.1 | 1 | 0 | Pass |
| Ethylbenzene | S18 | Au1 | | CP | mg | kg | 0.1 | 0.1 | 1 | 0 | Pass |
| m p Xylenes | S18 | Au1 | | CP | mg | kg | 0.2 | 0.2 | 1 | 0 | Pass |
| o Xylene | S18 | Au1 | | CP | mg | kg | 0.1 | 0.1 | 1 | 0 | Pass |
| Xylenes Total | S18 | Au1 | | CP | mg | kg | 0. | 0. | 1 | 0 | Pass |
| Duplicate | | | | | | | | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | | | Result 1 | Result 2 | RPD | | | |
| Acenaphthene | S18 | Au1 | 8 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass |
| Acenaphthylene | S18 | Au1 | 8 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass |
| Anthracene | S18 | Au1 | 8 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass |
| Ben a anthracene | S18 | Au1 | 8 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass |
| Ben o a pyrene | S18 | Au1 | 8 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass |
| Ben o b fluoranthene | S18 | Au1 | 8 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass |
| Ben o g,h,i perylene | S18 | Au1 | 8 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass |
| Ben o k fluoranthene | S18 | Au1 | 8 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass |
| Chrysene | S18 | Au1 | 8 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass |
| Diben a,h anthracene | S18 | Au1 | 8 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass |
| Fluoranthene | S18 | Au1 | 8 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass |
| Fluorene | S18 | Au1 | 8 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass |
| Indeno 1,2,3-cd pyrene | S18 | Au1 | 8 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass |
| Naphthalene | S18 | Au1 | 8 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass |



| Duplicate | | | | | | | | | | | | |
|----------------------------------|-----|-----|---|----|----|----------|----------|-----|----|---|------|------|
| Polycyclic Aromatic Hydrocarbons | | | | | | Result 1 | Result 2 | RPD | | | | |
| Phenanthrene | S18 | Au1 | 8 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass | |
| Pyrene | S18 | Au1 | 8 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass | |
| Duplicate | | | | | | | | | | | | |
| Organophosphorus Pesticides | | | | | | Result 1 | Result 2 | RPD | | | | |
| A inphos methyl | S18 | Au1 | 8 | CP | mg | kg | 0.2 | 0.2 | 1 | 0 | Pass | |
| Bolstar | S18 | Au1 | 8 | CP | mg | kg | 0.2 | 0.2 | 1 | 0 | Pass | |
| Chlorfenvinphos | S18 | Au1 | 8 | CP | mg | kg | 0.2 | 0.2 | 1 | 0 | Pass | |
| Chlorpyrifos | S18 | Au1 | 8 | CP | mg | kg | 0.2 | 0.2 | 1 | 0 | Pass | |
| Chlorpyrifos methyl | S18 | Au1 | 8 | CP | mg | kg | 0.2 | 0.2 | 1 | 0 | Pass | |
| Coumaphos | S18 | Au1 | 8 | CP | mg | kg | 2 | 2 | 1 | 0 | Pass | |
| Demeton S | S18 | Au1 | 8 | CP | mg | kg | 0.2 | 0.2 | 1 | 0 | Pass | |
| Demeton O | S18 | Au1 | 8 | CP | mg | kg | 0.2 | 0.2 | 1 | 0 | Pass | |
| Dia inon | S18 | Au1 | 8 | CP | mg | kg | 0.2 | 0.2 | 1 | 0 | Pass | |
| Dichlorvos | S18 | Au1 | 8 | CP | mg | kg | 0.2 | 0.2 | 1 | 0 | Pass | |
| Dimethoate | S18 | Au1 | 8 | CP | mg | kg | 0.2 | 0.2 | 1 | 0 | Pass | |
| Disulfoton | S18 | Au1 | 8 | CP | mg | kg | 0.2 | 0.2 | 1 | 0 | Pass | |
| EPN | S18 | Au1 | 8 | CP | mg | kg | 0.2 | 0.2 | 1 | 0 | Pass | |
| Ethion | S18 | Au1 | 8 | CP | mg | kg | 0.2 | 0.2 | 1 | 0 | Pass | |
| Ethoprop | S18 | Au1 | 8 | CP | mg | kg | 0.2 | 0.2 | 1 | 0 | Pass | |
| Ethyl parathion | S18 | Au1 | 8 | CP | mg | kg | 0.2 | 0.2 | 1 | 0 | Pass | |
| Fenitrothion | S18 | Au1 | 8 | CP | mg | kg | 0.2 | 0.2 | 1 | 0 | Pass | |
| Fensulfothion | S18 | Au1 | 8 | CP | mg | kg | 0.2 | 0.2 | 1 | 0 | Pass | |
| Fenthion | S18 | Au1 | 8 | CP | mg | kg | 0.2 | 0.2 | 1 | 0 | Pass | |
| Malathion | S18 | Au1 | 8 | CP | mg | kg | 0.2 | 0.2 | 1 | 0 | Pass | |
| Merphos | S18 | Au1 | 8 | CP | mg | kg | 0.2 | 0.2 | 1 | 0 | Pass | |
| Methyl parathion | S18 | Au1 | 8 | CP | mg | kg | 0.2 | 0.2 | 1 | 0 | Pass | |
| Mevinphos | S18 | Au1 | 8 | CP | mg | kg | 0.2 | 0.2 | 1 | 0 | Pass | |
| Monocrotophos | S18 | Au1 | 8 | CP | mg | kg | 2 | 2 | 1 | 0 | Pass | |
| Naled | S18 | Au1 | 8 | CP | mg | kg | 0.2 | 0.2 | 1 | 0 | Pass | |
| O methoate | S18 | Au1 | 8 | CP | mg | kg | 2 | 2 | 1 | 0 | Pass | |
| Phorate | S18 | Au1 | 8 | CP | mg | kg | 0.2 | 0.2 | 1 | 0 | Pass | |
| Pirimiphos methyl | S18 | Au1 | 8 | CP | mg | kg | 0.2 | 0.2 | 1 | 0 | Pass | |
| Pyra ophos | S18 | Au1 | 8 | CP | mg | kg | 0.2 | 0.2 | 1 | 0 | Pass | |
| Ronnel | S18 | Au1 | 8 | CP | mg | kg | 0.2 | 0.2 | 1 | 0 | Pass | |
| T erbufos | S18 | Au1 | 8 | CP | mg | kg | 0.2 | 0.2 | 1 | 0 | Pass | |
| T etrachlorvinphos | S18 | Au1 | 8 | CP | mg | kg | 0.2 | 0.2 | 1 | 0 | Pass | |
| T okuthion | S18 | Au1 | 8 | CP | mg | kg | 0.2 | 0.2 | 1 | 0 | Pass | |
| T richloronate | S18 | Au1 | 8 | CP | mg | kg | 0.2 | 0.2 | 1 | 0 | Pass | |
| Duplicate | | | | | | | | | | | | |
| Phenols (Halogenated) | | | | | | Result 1 | Result 2 | RPD | | | | |
| 2 Chlorophenol | S18 | Au1 | 8 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass | |
| 2,4 Dichlorophenol | S18 | Au1 | 8 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass | |
| 2,4,6 Trichlorophenol | S18 | Au1 | 8 | CP | mg | kg | 1 | 1 | 1 | 0 | Pass | |
| 2,4,6-Trichlorophenol | S18 | Au1 | 8 | CP | mg | kg | 1 | 1 | 1 | 0 | Pass | |
| 2,4-Dichlorophenol | S18 | Au1 | 8 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass | |
| Chloro methylphenol | S18 | Au1 | 8 | CP | mg | kg | 1 | 1 | 1 | 0 | Pass | |
| Pentachlorophenol | S18 | Au1 | 8 | CP | mg | kg | 1 | 1 | 1 | 0 | Pass | |
| T etrachlorophenols Total | S18 | Au1 | 8 | CP | mg | kg | 1 | 1 | 1 | 0 | Pass | |
| Duplicate | | | | | | | | | | | | |
| Phenols (non Halogenated) | | | | | | Result 1 | Result 2 | RPD | | | | |
| 2 Cyclohexyl . dinitrophenol | S18 | Au1 | 8 | CP | mg | kg | 5 | 5 | 20 | 1 | 0 | Pass |
| 2 Methyl . dinitrophenol | S18 | Au1 | 8 | CP | mg | kg | 5 | 5 | 20 | 1 | 0 | Pass |
| 2 Methylphenol o Cresol | S18 | Au1 | 8 | CP | mg | kg | 0.2 | 0.2 | 1 | 0 | Pass | |
| 2 Nitrophenol | S18 | Au1 | 8 | CP | mg | kg | 1 | 1 | 1 | 0 | Pass | |



| Duplicate | | | | | | | | | | | |
|---------------------------|-----|-----|---|----|----|----------|----------|-------|-----|---|------|
| Phenols (non Halogenated) | | | | | | Result 1 | Result 2 | RPD | | | |
| 2. Dimethylphenol | S18 | Au1 | 8 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass |
| 2. Dinitrophenol | S18 | Au1 | 8 | CP | mg | kg | 5 | 5 | 1 | 0 | Pass |
| Methylphenol m p Cresol | S18 | Au1 | 8 | CP | mg | kg | 0. | 0. | 0. | 1 | 0 |
| Nitrophenol | S18 | Au1 | 8 | CP | mg | kg | 5 | 5 | 1 | 0 | Pass |
| Dinoseb | S18 | Au1 | 8 | CP | mg | kg | 20 | 20 | 1 | 0 | Pass |
| Phenol | S18 | Au1 | 8 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass |
| Duplicate | | | | | | | | | | | |
| Moisture | | | | | | Result 1 | Result 2 | RPD | | | |
| Moisture | S18 | Au1 | 0 | CP | | | 8 | . | 1.0 | 0 | Pass |
| Duplicate | | | | | | | | | | | |
| Heavy Metals | | | | | | Result 1 | Result 2 | RPD | | | |
| Arsenic | S18 | Au1 | 0 | CP | mg | kg | . | . | .0 | 0 | Pass |
| Cadmium | S18 | Au1 | 0 | CP | mg | kg | 0. | 0. | 1 | 0 | Pass |
| Chromium | S18 | Au1 | 0 | CP | mg | kg | 21 | 18 | 1 | 0 | Pass |
| Copper | S18 | Au1 | 0 | CP | mg | kg | | | 8.0 | 0 | Pass |
| Lead | S18 | Au1 | 0 | CP | mg | kg | 20 | 10 | 2.0 | 0 | Pass |
| Mercury | S18 | Au1 | 0 | CP | mg | kg | 0.1 | 0.1 | .0 | 0 | Pass |
| Nickel | S18 | Au1 | 0 | CP | mg | kg | 21 | 12 | 5 | 0 | Fail |
| inc | S18 | Au1 | 0 | CP | mg | kg | 1000 | 8 0 | 1 | 0 | Pass |
| Duplicate | | | | | | | | | | | |
| Heavy Metals | | | | | | Result 1 | Result 2 | RPD | | | |
| Arsenic | S18 | Au1 | 1 | CP | mg | kg | .0 | .2 | .0 | 0 | Pass |
| Cadmium | S18 | Au1 | 1 | CP | mg | kg | 0. | 0. | 1 | 0 | Pass |
| Chromium | S18 | Au1 | 1 | CP | mg | kg | 2 | 2 | 1.0 | 0 | Pass |
| Copper | S18 | Au1 | 1 | CP | mg | kg | 0 | 1 | 2.0 | 0 | Pass |
| Iron | S18 | Au1 | 1 | CP | mg | kg | 15000 | 15000 | 2.0 | 0 | Pass |
| Lead | S18 | Au1 | 1 | CP | mg | kg | 8 | 2 | .0 | 0 | Pass |
| Mercury | S18 | Au1 | 1 | CP | mg | kg | 0.1 | 0.1 | 11 | 0 | Pass |
| Nickel | S18 | Au1 | 1 | CP | mg | kg | 58 | 58 | 2.0 | 0 | Pass |
| inc | S18 | Au1 | 1 | CP | mg | kg | 8 0 | 8 0 | 2.0 | 0 | Pass |
| Duplicate | | | | | | | | | | | |
| Organochlorine Pesticides | | | | | | Result 1 | Result 2 | RPD | | | |
| Chlordanes Total | S18 | Au1 | 8 | CP | mg | kg | 0.1 | 0.1 | 1 | 0 | Pass |
| . DDD | S18 | Au1 | 8 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| . DDE | S18 | Au1 | 8 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| . DDT | S18 | Au1 | 8 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| a BHC | S18 | Au1 | 8 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| Aldrin | S18 | Au1 | 8 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| b BHC | S18 | Au1 | 8 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| d BHC | S18 | Au1 | 8 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| Dieldrin | S18 | Au1 | 8 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| Endosulfan I | S18 | Au1 | 8 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| Endosulfan II | S18 | Au1 | 8 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| Endosulfan sulphate | S18 | Au1 | 8 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| Endrin | S18 | Au1 | 8 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| Endrin aldehyde | S18 | Au1 | 8 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| Endrin ketone | S18 | Au1 | 8 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| g BHC Lindane | S18 | Au1 | 8 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| Heptachlor | S18 | Au1 | 8 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| Heptachlor epoxide | S18 | Au1 | 8 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| Hexachlorobenzene | S18 | Au1 | 8 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| Methoxychlor | S18 | Au1 | 8 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| Toxaphene | S18 | Au1 | 8 | CP | mg | kg | 1 | 1 | 1 | 0 | Pass |

Pass

Q 15



| Duplicate | | | | | | | | | | | |
|---------------------------|-----|-----|----|----|----|----|----------|----------|-----|---|------|
| Polychlorinated Biphenyls | | | | | | | Result 1 | Result 2 | RPD | | |
| Aroclor 101 | S18 | Au1 | 8 | CP | mg | kg | 0.1 | 0.1 | 1 | 0 | Pass |
| Aroclor 1221 | S18 | Au1 | 8 | CP | mg | kg | 0.1 | 0.1 | 1 | 0 | Pass |
| Aroclor 12 2 | S18 | Au1 | 8 | CP | mg | kg | 0.1 | 0.1 | 1 | 0 | Pass |
| Aroclor 12 2 | S18 | Au1 | 8 | CP | mg | kg | 0.1 | 0.1 | 1 | 0 | Pass |
| Aroclor 12 8 | S18 | Au1 | 8 | CP | mg | kg | 0.1 | 0.1 | 1 | 0 | Pass |
| Aroclor 125 | S18 | Au1 | 8 | CP | mg | kg | 0.1 | 0.1 | 1 | 0 | Pass |
| Aroclor 12 0 | S18 | Au1 | 8 | CP | mg | kg | 0.1 | 0.1 | 1 | 0 | Pass |
| T otal PCB | S18 | Au1 | 8 | CP | mg | kg | 0.1 | 0.1 | 1 | 0 | Pass |
| Duplicate | | | | | | | | | | | |
| Moisture | | | | | | | Result 1 | Result 2 | RPD | | |
| Moisture | S18 | Au1 | 50 | CP | | | 1 | 1 | 1 | 0 | Pass |
| Duplicate | | | | | | | | | | | |
| Heavy Metals | | | | | | | Result 1 | Result 2 | RPD | | |
| Arsenic | S18 | Au1 | 52 | CP | mg | kg | .5 | . | 5.0 | 0 | Pass |
| Cadmium | S18 | Au1 | 52 | CP | mg | kg | 0. | 0. | 1 | 0 | Pass |
| Chromium | S18 | Au1 | 52 | CP | mg | kg | 1 | 20 | 20 | 0 | Pass |
| Copper | S18 | Au1 | 52 | CP | mg | kg | 25 | 21 | 1 | 0 | Pass |
| Iron | S18 | Au1 | 52 | CP | mg | kg | 11000 | 12000 | 1.0 | 0 | Pass |
| Lead | S18 | Au1 | 52 | CP | mg | kg | 120 | 110 | 11 | 0 | Pass |
| Mercury | S18 | Au1 | 52 | CP | mg | kg | 0.2 | 0.2 | 1 | 0 | Pass |
| Nickel | S18 | Au1 | 52 | CP | mg | kg | 1 | 18 | 8.0 | 0 | Pass |
| inc | S18 | Au1 | 52 | CP | mg | kg | 0 | 10 | .0 | 0 | Pass |
| Duplicate | | | | | | | | | | | |
| Organochlorine Pesticides | | | | | | | Result 1 | Result 2 | RPD | | |
| Chlordanes T otal | S18 | Au1 | 55 | CP | mg | kg | 0.1 | 0.1 | 1 | 0 | Pass |
| . DDD | S18 | Au1 | 55 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| . DDE | S18 | Au1 | 55 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| . DDT | S18 | Au1 | 55 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| a BHC | S18 | Au1 | 55 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| Aldrin | S18 | Au1 | 55 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| b BHC | S18 | Au1 | 55 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| d BHC | S18 | Au1 | 55 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| Dieldrin | S18 | Au1 | 55 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| Endosulfan I | S18 | Au1 | 55 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| Endosulfan II | S18 | Au1 | 55 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| Endosulfan sulphate | S18 | Au1 | 55 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| Endrin | S18 | Au1 | 55 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| Endrin aldehyde | S18 | Au1 | 55 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| Endrin ketone | S18 | Au1 | 55 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| g BHC Lindane | S18 | Au1 | 55 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| Heptachlor | S18 | Au1 | 55 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| Heptachlor epoxide | S18 | Au1 | 55 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| Hexachlorobene | S18 | Au1 | 55 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| Methoxychlor | S18 | Au1 | 55 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| T oxaphene | S18 | Au1 | 55 | CP | mg | kg | 1 | 1 | 1 | 0 | Pass |
| Duplicate | | | | | | | | | | | |
| Polychlorinated Biphenyls | | | | | | | Result 1 | Result 2 | RPD | | |
| Aroclor 101 | S18 | Au1 | 55 | CP | mg | kg | 0.1 | 0.1 | 1 | 0 | Pass |
| Aroclor 1221 | S18 | Au1 | 55 | CP | mg | kg | 0.1 | 0.1 | 1 | 0 | Pass |
| Aroclor 12 2 | S18 | Au1 | 55 | CP | mg | kg | 0.1 | 0.1 | 1 | 0 | Pass |
| Aroclor 12 2 | S18 | Au1 | 55 | CP | mg | kg | 0.1 | 0.1 | 1 | 0 | Pass |
| Aroclor 12 8 | S18 | Au1 | 55 | CP | mg | kg | 0.1 | 0.1 | 1 | 0 | Pass |
| Aroclor 125 | S18 | Au1 | 55 | CP | mg | kg | 0.1 | 0.1 | 1 | 0 | Pass |
| Aroclor 12 0 | S18 | Au1 | 55 | CP | mg | kg | 0.1 | 0.1 | 1 | 0 | Pass |
| T otal PCB | S18 | Au1 | 55 | CP | mg | kg | 0.1 | 0.1 | 1 | 0 | Pass |



| Duplicate | | | | | | | | | | | |
|----------------------------------|-----|-----|---|----|----|----|----------|----------|-----|---|------|
| Polycyclic Aromatic Hydrocarbons | | | | | | | Result 1 | Result 2 | RPD | | |
| Acenaphthene | S18 | Au1 | 5 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass |
| Acenaphthylene | S18 | Au1 | 5 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass |
| Anthracene | S18 | Au1 | 5 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass |
| Ben a anthracene | S18 | Au1 | 5 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass |
| Ben o a pyrene | S18 | Au1 | 5 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass |
| Ben o b fluoranthene | S18 | Au1 | 5 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass |
| Ben o g,h,i perylene | S18 | Au1 | 5 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass |
| Ben o k fluoranthene | S18 | Au1 | 5 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass |
| Chrysene | S18 | Au1 | 5 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass |
| Diben a,h anthracene | S18 | Au1 | 5 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass |
| Fluoranthene | S18 | Au1 | 5 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass |
| Fluorene | S18 | Au1 | 5 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass |
| Indeno 1,2, cd pyrene | S18 | Au1 | 5 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass |
| Naphthalene | S18 | Au1 | 5 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass |
| Phenanthrene | S18 | Au1 | 5 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass |
| Pyrene | S18 | Au1 | 5 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass |
| Duplicate | | | | | | | | | | | |
| Phenols (Halogenated) | | | | | | | Result 1 | Result 2 | RPD | | |
| 2 Chlorophenol | S18 | Au1 | 5 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass |
| 2, Dichlorophenol | S18 | Au1 | 5 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass |
| 2, .5 T richlorophenol | S18 | Au1 | 5 | CP | mg | kg | 1 | 1 | 1 | 0 | Pass |
| 2, . T richlorophenol | S18 | Au1 | 5 | CP | mg | kg | 1 | 1 | 1 | 0 | Pass |
| 2, Dichlorophenol | S18 | Au1 | 5 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass |
| Chloro methylphenol | S18 | Au1 | 5 | CP | mg | kg | 1 | 1 | 1 | 0 | Pass |
| Pentachlorophenol | S18 | Au1 | 5 | CP | mg | kg | 1 | 1 | 1 | 0 | Pass |
| T etrachlorophenols T total | S18 | Au1 | 5 | CP | mg | kg | 1 | 1 | 1 | 0 | Pass |
| Duplicate | | | | | | | | | | | |
| Phenols (non Halogenated) | | | | | | | Result 1 | Result 2 | RPD | | |
| 2 Cyclohexyl . dinitrophenol | S18 | Au1 | 5 | CP | mg | kg | 20 | 20 | 1 | 0 | Pass |
| 2 Methyl . dinitrophenol | S18 | Au1 | 5 | CP | mg | kg | 5 | 5 | 1 | 0 | Pass |
| 2 Methylphenol o Cresol | S18 | Au1 | 5 | CP | mg | kg | 0.2 | 0.2 | 1 | 0 | Pass |
| 2 Nitrophenol | S18 | Au1 | 5 | CP | mg | kg | 1 | 1 | 1 | 0 | Pass |
| 2, Dimethylphenol | S18 | Au1 | 5 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass |
| 2, Dinitrophenol | S18 | Au1 | 5 | CP | mg | kg | 5 | 5 | 1 | 0 | Pass |
| Methylphenol m p Cresol | S18 | Au1 | 5 | CP | mg | kg | 0. | 0. | 0. | 1 | 0 |
| Nitrophenol | S18 | Au1 | 5 | CP | mg | kg | 5 | 5 | 1 | 0 | Pass |
| Dinoseb | S18 | Au1 | 5 | CP | mg | kg | 20 | 20 | 1 | 0 | Pass |
| Phenol | S18 | Au1 | 5 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass |
| Duplicate | | | | | | | | | | | |
| Heavy Metals | | | | | | | Result 1 | Result 2 | RPD | | |
| Arsenic | S18 | Au1 | 5 | CP | mg | kg | 2 | 2 | 1 | 0 | Pass |
| Cadmium | S18 | Au1 | 5 | CP | mg | kg | 0. | 0. | 1 | 0 | Pass |
| Chromium | S18 | Au1 | 5 | CP | mg | kg | 5 | 5 | 1 | 0 | Pass |
| Copper | S18 | Au1 | 5 | CP | mg | kg | 5 | 5 | 1 | 0 | Pass |
| Iron | S18 | Au1 | 5 | CP | mg | kg | 0 | 0 | 0 | 0 | Pass |
| Lead | S18 | Au1 | 5 | CP | mg | kg | | 0 | 1.0 | 0 | Pass |
| Mercury | S18 | Au1 | 5 | CP | mg | kg | 0.1 | 0.1 | 1 | 0 | Pass |
| Nickel | S18 | Au1 | 5 | CP | mg | kg | 5 | 5 | 1 | 0 | Pass |
| inc | S18 | Au1 | 5 | CP | mg | kg | 12 | 1 | 2.0 | 0 | Pass |



| Duplicate | | | | | | | | | | | |
|--------------------------------|---------|---------------------|----|----|----|----------|----------|-----|---|------|------|
| Total Recoverable Hydrocarbons | | 2013 NEPM Fractions | | | | Result 1 | Result 2 | RPD | | | |
| Naphthalene | S18 Au1 | 0 | CP | mg | kg | . | 5. | 5 | 0 | Fail | Q 15 |
| T RH C C10 | S18 Au1 | 0 | CP | mg | kg | 1 | 58 | | 0 | Fail | Q 15 |
| T RH C10 C1 | S18 Au1 | 0 | CP | mg | kg | 1 00 | 1500 | 12 | 0 | Pass | |
| T RH C1 C | S18 Au1 | 0 | CP | mg | kg | 1800 | 2100 | 1 | 0 | Pass | |
| T RH C C 0 | S18 Au1 | 0 | CP | mg | kg | 2 0 | 0 | 21 | 0 | Pass | |
| Duplicate | | | | | | | | | | | |
| Total Recoverable Hydrocarbons | | 1 NEPM Fractions | | | | Result 1 | Result 2 | RPD | | | |
| T RH C C | S18 Au1 | 0 | CP | mg | kg | 20 | 20 | 1 | 0 | Pass | |
| T RH C10 C1 | S18 Au1 | 0 | CP | mg | kg | 1000 | 1000 | 1.0 | 0 | Pass | |
| T RH C15 C28 | S18 Au1 | 0 | CP | mg | kg | 1500 | 1800 | 18 | 0 | Pass | |
| T RH C2 C | S18 Au1 | 0 | CP | mg | kg | 500 | 5 0 | 1 | 0 | Pass | |
| Duplicate | | | | | | | | | | | |
| B TEX | | | | | | Result 1 | Result 2 | RPD | | | |
| Ben ene | S18 Au1 | 0 | CP | mg | kg | 0.1 | 0.1 | 1 | 0 | Pass | |
| Toluene | S18 Au1 | 0 | CP | mg | kg | 0.1 | 0.1 | 1 | 0 | Pass | |
| Ethylben ene | S18 Au1 | 0 | CP | mg | kg | 0. | 0.5 | | 0 | Fail | Q 15 |
| m p X ylenes | S18 Au1 | 0 | CP | mg | kg | 0.5 | 0.8 | | 0 | Fail | Q 15 |
| o X ylene | S18 Au1 | 0 | CP | mg | kg | 0. | 0. | | 0 | Fail | Q 15 |
| X ylenes T otal | S18 Au1 | 0 | CP | mg | kg | 0.8 | 1.2 | 5 | 0 | Fail | Q 15 |
| Duplicate | | | | | | | | | | | |
| V olatile Organics | | | | | | Result 1 | Result 2 | RPD | | | |
| 1.1 Dichloroethane | S18 Au1 | 0 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass | |
| 1.1 Dichloroethene | S18 Au1 | 0 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass | |
| 1.1.1 T richloroethane | S18 Au1 | 0 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass | |
| 1.1.1.2 T etrachloroethane | S18 Au1 | 0 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass | |
| 1.1.2 T richloroethane | S18 Au1 | 0 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass | |
| 1.1.2.2 T etrachloroethane | S18 Au1 | 0 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass | |
| 1.2 Dibromoethane | S18 Au1 | 0 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass | |
| 1.2 Dichloroben ene | S18 Au1 | 0 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass | |
| 1.2 Dichloroethane | S18 Au1 | 0 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass | |
| 1.2 Dichloropropane | S18 Au1 | 0 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass | |
| 1.2. T richloropropane | S18 Au1 | 0 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass | |
| 1.2. T rimethylben ene | S18 Au1 | 0 | CP | mg | kg | . | .0 | 5 | 0 | Fail | Q 15 |
| 1. Dichloroben ene | S18 Au1 | 0 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass | |
| 1. Dichloropropane | S18 Au1 | 0 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass | |
| 1. .5 T rimethylben ene | S18 Au1 | 0 | CP | mg | kg | 0. | 1.5 | 50 | 0 | Fail | Q 15 |
| 1. Dichloroben ene | S18 Au1 | 0 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass | |
| 2 Butanone MEK | S18 Au1 | 0 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass | |
| 2 Propanone Acetone | S18 Au1 | 0 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass | |
| Chlorotoluene | S18 Au1 | 0 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass | |
| Methyl 2 pentanone MEK | S18 Au1 | 0 | CP | mg | kg | 0.5 | 0.5 | 0.5 | 1 | 0 | Pass |
| Allyl chloride | S18 Au1 | 0 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass | |
| Bromoben ene | S18 Au1 | 0 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass | |
| Bromochloromethane | S18 Au1 | 0 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass | |
| Bromodichloromethane | S18 Au1 | 0 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass | |
| Bromoform | S18 Au1 | 0 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass | |
| Bromomethane | S18 Au1 | 0 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass | |
| Carbon disulfide | S18 Au1 | 0 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass | |
| Carbon T etrachloride | S18 Au1 | 0 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass | |
| Chloroben ene | S18 Au1 | 0 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass | |
| Chloroethane | S18 Au1 | 0 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass | |
| Chloroform | S18 Au1 | 0 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass | |
| Chloromethane | S18 Au1 | 0 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass | |
| cis 1.2 Dichloroethene | S18 Au1 | 0 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass | |



| Duplicate | | | | | | | | | | | |
|---------------------------|-----|-----|---|----|----|----------|----------|-----|----|---|------|
| Volatile Organics | | | | | | Result 1 | Result 2 | RPD | | | |
| cis 1,2 Dichloropropene | S18 | Au1 | 0 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass |
| Dibromochloromethane | S18 | Au1 | 0 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass |
| Dibromomethane | S18 | Au1 | 0 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass |
| Dichlorodifluoromethane | S18 | Au1 | 0 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass |
| Iodomethane | S18 | Au1 | 0 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass |
| Isopropyl benzene Cumene | S18 | Au1 | 0 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Fail |
| Methylene Chloride | S18 | Au1 | 0 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass |
| Styrene | S18 | Au1 | 0 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass |
| Tetrachloroethene | S18 | Au1 | 0 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass |
| trans 1,2 Dichloroethene | S18 | Au1 | 0 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass |
| trans 1,2 Dichloropropene | S18 | Au1 | 0 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass |
| Trichloroethene | S18 | Au1 | 0 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass |
| Trichlorofluoromethane | S18 | Au1 | 0 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass |
| Vinyl chloride | S18 | Au1 | 0 | CP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass |
| Duplicate | | | | | | | | | | | |
| | | | | | | Result 1 | Result 2 | RPD | | | |
| Moisture | S18 | Au1 | 1 | CP | | | 5. | 5. | .0 | 0 | Pass |

Q 15



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 Holding Time | 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 C1 " 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 QA/QC acceptance criteria and are entirely technically valid. |
| N0 | F1 is determined by arithmetically subtracting the " Total BT EX " value from the " C C10 " value. The " Total BT EX " value is obtained by summing the concentrations of BT EX analytes. The " C C10 " value is obtained by quantitating against a standard of mixed aromatic aliphatic analytes. |
| N0 | Please note: These two PAH isomers closely co elute using the most contemporary analytical methods and both the reported concentration and the TEQ apply specifically to the total of the two co eluting PAHs |
| Q08 | The matrix spike recovery is outside of the recommended acceptance criteria. An acceptable recovery was obtained for the laboratory control sample indicating a sample matrix interference |
| Q15 | The RPD reported passes Eurofins mgt s QC Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report. |

Authorised By

| | |
|------------------|------------------------------|
| Nibha Vaidya | Analytical Services Manager |
| Alex Petridis | Senior Analyst Metal VIC |
| Harry Bacalis | Senior Analyst Volatile VIC |
| Jonathan Angell | Senior Analyst Inorganic QLD |
| Joseph Edouard | Senior Analyst Organic VIC |
| Matthew Deaves | Senior Analyst Asbestos WA |
| Michael Brancati | Senior Analyst Inorganic VIC |
| Rhys Thomas | Senior Analyst Asbestos WA |



Glenn Jackson

National Operations Manager

~~Final report - this report replaces any previously issued report~~

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Measurement uncertainty of test data is available on request or [please here](#).

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Site Number 1 217

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to Australian national standards.

Trace Environmental P/L
Shop 2, 7 3 7 New Canterbury Road
Dulwich Hill
NSW 2203

Attention: **Jack Ellis**
Report **12025 V 2 AID**
Project Name **MASCO T**
Project ID **1.1**
Received Date **Aug 1 2018**
Date Reported **Aug 21 2018**

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, AS 4964 requires that these are reported as MF 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 0 to 0g then a sub sampling routine based on ISO 18220:2000 is employed.

NOTE: Depending on the nature and size of the soil sample, the sub 2 mm residue material may need to be subsampled 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 building 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 method for inhomogeneous samples is around 0.1 g/kg. 0.01% w/w. If no asbestos is found by PLM and DS including Trace Analysis where required this is considered to be at the nominal reporting limit of 0.01% w/w. The examination of large sample sizes 500 mL is recommended may improve the likelihood of identifying ACM in the 2mm fraction. The NEPM screening level of 0.001% w/w asbestos in soil for FA friable asbestos and AF asbestos fines then applies where they are able to be quantified by gravimetric procedures. This quantitative screening is not generally applicable to FF free fibres and results of Trace Analysis are referred.

NOTE: NATA News March 2014, p.7, states in relation to AS4964: "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". Accordingly, NATA Accreditation does not cover the performance of this service (indicated with an asterisk).

This report is consistent with the analytical procedures and reporting recommendations in the National Environment Protection (Assessment of Site Contamination) Measure, 2011 (as amended) and the National Environment Protection (Assessment, Remediation and Management of Asbestos Contaminated Sites in 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, June 2011.



Project Name **MASCO T**
 Project ID **1.1**
 Date Sampled **Aug 08 2018 to Aug 10 2018**
 Report **12025 V2 AID**

| Client Sample ID | Eurofins mgst Sample No. | Date Sampled | Sample Description | Result |
|------------------|--------------------------|--------------|--|---|
| SB1 0.5 | 18 Au1 1 | Aug 0 | Approximate Sample 08g Sample consisted of: Brown coarse grain soil and rocks | ACM: Chrysotile and amosite asbestos detected in fibre cement fragments. Approximate raw weight of ACM 1. g Total estimated asbestos content in ACM 0.2 g Total estimated asbestos concentration in ACM 0.02 w w Organic-fibre detected. No respirable fibres detected. |
| SB 0. | 18 Au1 1 | Aug 0 | Approximate Sample 101 g Sample consisted of: Brown coarse grain soil and rocks | ACM: Chrysotile asbestos detected in fibre cement fragments. Approximate raw weight of ACM 5. g Total estimated asbestos content in ACM 0.80g Total estimated asbestos concentration in ACM 0.0 w w FA: Chrysotile asbestos detected in weathered fibre cement fragments. Approximate raw weight of FA 0.0 2g Estimated asbestos content in FA 0.01 g AF: Chrysotile asbestos detected in fibre cement fragments and in the form of loose fibre bundles. Approximate raw weight of AF 0.00 1g Estimated asbestos content in AF 0.00 g Total estimated asbestos content in FA and AF 0.01 g Total estimated asbestos concentration in FA and AF 0.001 w w Organic fibre detected. No respirable fibres detected. |
| SB11 1.2 | 18 Au1 21 | Aug 0 | Approximate Sample 25g Sample consisted of: Brown coarse grain soil and rocks | No asbestos detected at the reporting limit of 0.001 w w. Organic fibre detected. No respirable fibres detected. |

First Reported: Aug 21 2018
 Date Reported: Sep 0 2018

Eurofins mgst nit F Building F 1 Mars Road Lane Cove West NSW Australia 20
 ABN : 50 006 065 521 telephone: 12 00 8 00

Page 2 of 1
 Report Number: 12025 V2 AID



NATA Accredited
 Accreditation Number 1261
 Site Number 1 217
 Accredited for compliance with ISO/IEC 17025 - Testing of laboratories. The following methods and measurement procedures are included in this document and traceable to Australian national standards.

| Client Sample ID | Eurofins Sample No. | Data Sampled | Sample Description | Result |
|------------------|---------------------|--------------|---|--|
| SB1 0.2 | 18 Au1 25 | Aug 10 | Approximate Sample g Sample consisted of: Brown coarse grain soil and rocks | No asbestos detected at the reporting limit of 0.001 w/w. Organic fibre detected. No respirable fibres detected. |
| SB1 2.5 | 18 Au1 28 | Aug 10 | Approximate Sample 1 g Sample consisted of: Brown coarse grain soil and rocks | No asbestos detected at the reporting limit of 0.001 w/w. Organic fibre detected. No respirable fibres detected. |
| SB10 0. | 18 Au1 1 | Aug 10 | Approximate Sample 85 g Sample consisted of: Brown coarse grain soil and rocks | No asbestos detected at the reporting limit of 0.001 w/w. Organic fibre detected. No respirable fibres detected. |
| SB1 1.0 | 18 Au1 8 | Aug 10 | Approximate Sample 5 g Sample consisted of: Brown coarse grain soil and rocks | No asbestos detected at the reporting limit of 0.001 w/w. Organic fibre detected. No respirable fibres detected. |
| SB18 0.2 | 18 Au1 8 | Aug 10 | Approximate Sample 0g Sample consisted of: Brown coarse grain soil and rocks | No asbestos detected at the reporting limit of 0.001 w/w. Organic fibre detected. No respirable fibres detected. |
| SB18 0. | 18 Au1 1 | Aug 10 | Approximate Sample g Sample consisted of: Brown coarse grain soil and rocks | No asbestos detected at the reporting limit of 0.001 w/w. Organic fibre detected. No respirable fibres detected. |
| SB1 0.8 | 18 Au1 1 | Aug 08 | Approximate Sample 5 g Sample consisted of: Brown coarse grain soil and rocks | No asbestos detected at the reporting limit of 0.001 w/w. Organic fibre detected. No respirable fibres detected. |
| SB20 1.0 | 18 Au1 1 | Aug 08 | Approximate Sample 1g Sample consisted of: Brown coarse grain soil and rocks | No asbestos detected at the reporting limit of 0.001 w/w. Organic fibre detected. No respirable fibres detected. |
| SB2 0.2 | 18 Au1 52 | Aug 10 | Approximate Sample g Sample consisted of: Brown coarse grain soil and rocks | No asbestos detected at the reporting limit of 0.001 w/w. Organic fibre detected. No respirable fibres detected. |
| SB2 0.2 | 18 Au1 1 | Aug 08 | Approximate Sample g Sample consisted of: Brown coarse grain soil and rocks | ACM: Chrysotile asbestos detected in fibre cement fragments. Approximate raw weight of ACM 0.82g Total estimated asbestos content in ACM 0.12g Total estimated asbestos concentration in ACM 0.01 w/w Organic fibre detected. No respirable fibres detected. |
| SB2 1.5 | 18 Au1 1 | Aug 08 | Approximate Sample 8 g Sample consisted of: Brown coarse grain soil and rocks | No asbestos detected at the reporting limit of 0.001 w/w. Organic fibre detected. No respirable fibres detected. |

First Reported: Aug 21 2018
 Date Reported: Sep 0 2018

Eurofins mgt nit F Building F 1 Mars Road Lane Cove West NSW Australia 20
 ABN : 50 006 065 521 T telephone: 12 00 8 00

Page of 1
 Report Number: 13235 V.2 AID



Sample History

Where samples are submitted analysed over several days the last date of extraction and analysis is reported. A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this some of the method reference information on reports has changed. However no substantive change has been made to our laboratory methods and as such there is no change in the validity of current or previous results regarding both quality and NAT A accreditation .

If the date and time of sampling are not provided the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

| Description | Testing Site | Extracted | Holding Time |
|------------------------|--------------|-------------|--------------|
| Asbestos LT M ASB 8020 | Perth | Aug 20 2018 | Indefinite |



Melbourne: 5000 Lams Cove West NSW 20
 Phone: 12 00 00 00 NAT A 12 1 Site 20
 Site: 125 1 2 1 NAT A 12 1 Site 4821

Sydney: 5000 Lams Cove West NSW 20
 Phone: 12 00 00 00 NAT A 12 1 Site 20
 Site: 125 1 2 1 NAT A 12 1 Site 4821

Brisbane: 5000 Lams Cove West NSW 20
 Phone: 12 00 00 00 NAT A 12 1 Site 20
 Site: 125 1 2 1 NAT A 12 1 Site 4821

Perth: 5000 Lams Cove West NSW 20
 Phone: 12 00 00 00 NAT A 12 1 Site 20
 Site: 125 1 2 1 NAT A 12 1 Site 4821

Company Name: **T race Environmental P L**
 Address: **Shop 2 New Canterbury Road**
Dutwich Hill NSW 220

Project Name: **MASCO T**
 Project ID: **1,1**

Order No.: **12025**
 Report : **02 B 0 0555**

Received: **Aug 1 2018 :0 PM**
 Due: **Aug 20 2018**
 Priority: **5 Day**
 Contact Name: **ack Ellis**

| Sample Detail | Asbestos WA guidelines | CANCELLED | HOLD | pH (1.5 Aqueous extract at 25°C as rec.) | Polycyclic Aromatic Hydrocarbons | Metals M8 | Eurofins mgt Suite B15 | Volatile Organics | Moisture Set | NEPM Screen for Soil Classification | Eurofins mgt Suite B | Eurofins mgt Suite B A | BT EX N and Volatile T RH |
|---|------------------------|-----------|------|--|----------------------------------|-----------|------------------------|-------------------|--------------|-------------------------------------|----------------------|------------------------|---------------------------|
| Melbourne Laboratory NATA Site 12 4 & 14271 | | | | | | | | | | | | | |
| Sydney Laboratory NATA Site 1 217 | | | | | | | | | | | | | |
| Brisbane Laboratory NATA Site 207 4 | | | | | | | | | | | | | |
| Perth Laboratory NATA Site 23736 | | | | | | | | | | | | | |
| 22 SB1 0.5 Aug 10 2018 Soil | | | | | | | | | | | | | |
| 2 SB1 1.0 Aug 10 2018 Soil | | | | | | | | | | | | | |
| 2 SB1 .0 Aug 10 2018 Soil | | | | | | | | | | | | | |
| 25 SB1 .5 Aug 10 2018 Soil | | | | | | | | | | | | | |
| 2 SB1 .0 Aug 10 2018 Soil | | | | | | | | | | | | | |
| 2 SB18 0.2 Aug 10 2018 Soil | | | | | | | | | | | | | |
| 2 SB18 0. Aug 10 2018 Soil | | | | | | | | | | | | | |
| 2 SB18 1.0 Aug 10 2018 Soil | | | | | | | | | | | | | |
| 0 SB1 0.8 Aug 08 2018 Soil | | | | | | | | | | | | | |
| 1 SB1 1.5 Aug 08 2018 Soil | | | | | | | | | | | | | |
| 2 SB1 2.5 Aug 08 2018 Soil | | | | | | | | | | | | | |
| SB1 Aug 08 2018 Soil | | | | | | | | | | | | | |



Melbourne
 5000 Lams Cove West NSW 20
 Phone : 02 8 00 00 00
 Site : 125 1 2 1 NAT A 12 1 Site 4821

Sydney
 5000 Lams Cove West NSW 20
 Phone : 02 8 00 00 00
 Site : 125 1 2 1 NAT A 12 1 Site 4821

Brisbane
 5000 Lams Cove West NSW 20
 Phone : 02 8 00 00 00
 Site : 125 1 2 1 NAT A 12 1 Site 4821

Perth
 5000 Lams Cove West NSW 20
 Phone : 02 8 00 00 00
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Company Name: **T race Environmental P L**
 Address: **Shop 2 New Canterbury Road**
Dutwich Hill NSW 220

Project Name: **MASCO T**
 Project ID: **1,1**

Order No.: **12025**
 Report : **Aug 1 2018 :0 PM**

Phone: **02 8 0 0555**
 Priority: **5 Day**

Fax:
 Contact Name: **ack Ellis**

mgmt Analytical Services Manager : Nibha V aldy

| Sample Detail | Asbestos WA guidelines | CANCELLED | HOLD | pH (1.5 Aqueous extract at 25°C as rec.) | Polycyclic Aromatic Hydrocarbons | Metals M8 | Eurofins mgt Suite B15 | Volatile Organics | Moisture Set | NEPM Screen for Soil Classification | Eurofins mgt Suite B | Eurofins mgt Suite B A | BT EX N and V volatile T RH | Received: |
|---|------------------------|-----------|------|--|----------------------------------|-----------|------------------------|-------------------|--------------|-------------------------------------|----------------------|------------------------|-----------------------------|-------------------------|
| Melbourne Laboratory NATA Site 12 4 & 14271 | | | | | | | | | | | | | | Aug 1 2018 :0 PM |
| Sydney Laboratory NATA Site 1 217 | | | | | | | | | | | | | | Aug 20 2018 |
| Brisbane Laboratory NATA Site 207 4 | | | | | | | | | | | | | | 5 Day |
| Perth Laboratory NATA Site 23736 | | X | | | | | | | | | | | | Contact Name: ack Ellis |
| SB20 0. Aug 08 2018 Soil | | | | | | | | | | | | | | |
| 5 SB20 1.0 Aug 08 2018 Soil | | | | | | | | | | | | | | |
| SB20 1.5 Aug 08 2018 Soil | | | | | | | | | | | | | | |
| SB20 .0 Aug 08 2018 Soil | | | | | | | | | | | | | | |
| 8 SB20 .8 Aug 08 2018 Soil | | | | | | | | | | | | | | |
| SB20 .0 Aug 08 2018 Soil | | | | | | | | | | | | | | |
| 0 SB20 12.0 Aug 08 2018 Soil | | | | | | | | | | | | | | |
| 1 SB2 0.2 Aug 10 2018 Soil | | | | | | | | | | | | | | |
| 2 SB2 0.5 Aug 10 2018 Soil | | | | | | | | | | | | | | |
| SB2 2.0 Aug 10 2018 Soil | | | | | | | | | | | | | | |
| SB2 .0 Aug 10 2018 Soil | | | | | | | | | | | | | | |
| 5 SB2 .0 Aug 10 2018 Soil | | | | | | | | | | | | | | |



Melbourne
 125
 Phone: 03 9586 651
 Email: info@eurofins.com.au
 Web: www.eurofins.com.au

Sydney
 1
 Phone: 6100 0000
 NAT A: 12 1 1
 Site: 125

Brisbane
 1
 Phone: 07 5500 0000
 NAT A: 12 1 1
 Site: 125

Perth
 1
 Phone: 08 9442 2222
 NAT A: 12 1 1
 Site: 125

Company Name: Trace Environmental P L
Address: Shop 2, New Canterbury Road, Dutch Hill NSW 220
Project Name: MASCO T
Project ID: 1,1

Order No.: 12025
Report : 12025
Phone: 02 8 0 0555
Fax:

Received: Aug 1 2018 :0 PM
Due: Aug 20 2018
Priority: 5 Day
Contact Name: Jack Ellis

mgmt Analytical Services Manager: Nibha V aldy

| Sample Detail | Asbestos | WA guidelines | CANCELLED | HOLD | pH (1.5 Aqueous extract at 25°C as rec.) | Polycyclic Aromatic Hydrocarbons | Metals M8 | Eurofins mgt Suite B15 | Volatile Organics | Moisture Set | NEPM Screen for Soil Classification | Eurofins mgt Suite B | Eurofins mgt Suite B A | BT EX N and V volatile T RH |
|---|----------|---------------|-----------|------|--|----------------------------------|-----------|------------------------|-------------------|--------------|-------------------------------------|----------------------|------------------------|-----------------------------|
| Melbourne Laboratory NATA Site 12 4 & 14271 | | | | | | | | | | | | | | |
| Sydney Laboratory NATA Site 1 217 | | | | | | | | | | | | | | |
| Brisbane Laboratory NATA Site 207 4 | | | | | | | | | | | | | | |
| Perth Laboratory NATA Site 23736 | | | | | | | | | | | | | | |
| 58 Q52 Aug 08 2018 | Soil | S18 Au1 0 | | | | | | | | | | | | |
| 5 RB1 Aug 08 2018 | Water | S18 Au1 2 | | | | | | | | | | | | |
| 0 SB 1.25 Aug 0 2018 | Soil | S18 Au1 5 2 | | X | | | | | | | | | | |
| 1 SB Aug 0 2018 | Soil | S18 Au1 5 | | X | | | | | | | | | | |
| 2 SB11 2.0 Aug 0 2018 | Soil | S18 Au1 5 | | X | | | | | | | | | | |
| SB11 2. Aug 0 2018 | Soil | S18 Au1 5 | | X | | | | | | | | | | |
| SB11 Aug 0 2018 | Soil | S18 Au1 5 | | X | | | | | | | | | | |
| 5 SB1 0. Aug 10 2018 | Soil | S18 Au1 5 | | X | | | | | | | | | | |
| SB1 2. Aug 10 2018 | Soil | S18 Au1 5 8 | | X | | | | | | | | | | |
| SB1 5.0 Aug 10 2018 | Soil | S18 Au1 5 | | X | | | | | | | | | | |
| 8 SB1 0. Aug 10 2018 | Soil | S18 Au1 55 | | X | | | | | | | | | | |
| SB1 0. Aug 10 2018 | Soil | S18 Au1 55 | | X | | | | | | | | | | |



Melbourne
 1255
 Phone: 03 9586 651
 Email: info@eurofins.com.au
 Web: www.eurofins.com.au

Sydney
 1255
 Phone: 6100 0000
 NAT A: 12 1 Site 1
 NAT A: 12 1 Site 2

Brisbane
 1255
 Phone: 07 5500 0000
 NAT A: 12 1 Site 1
 NAT A: 12 1 Site 2

Perth
 1255
 Phone: 08 9440 0000
 NAT A: 12 1 Site 1
 NAT A: 12 1 Site 2

Company Name: **T race Environmental P L**
 Address: **Shop 2 New Canterbury Road Dutwich Hill NSW 220**
 Project Name: **MASCO T**
 Project ID: **1,1**

Order No.: **12025**
 Report : **02 B 0 0555**
 Phone: **02 8 0 0555**
 Fax:

Received: **Aug 1 2018 :0 PM**
 Due: **Aug 20 2018**
 Priority: **5 Day**
 Contact Name: **ack Ellis**

mg Analytical Services Manager : Nibha V aldy

| Sample Detail | Asbestos WA guidelines | CANCELLED | HOLD | pH (1.5 Aqueous extract at 25°C as rec.) | Polycyclic Aromatic Hydrocarbons | Metals M8 | Eurofins mgt Suite B15 | Volatile Organics | Moisture Set | NEPM Screen for Soil Classification | Eurofins mgt Suite B | Eurofins mgt Suite B A | BT EX N and V volatile T RH |
|---|------------------------|-----------|------|--|----------------------------------|-----------|------------------------|-------------------|--------------|-------------------------------------|----------------------|------------------------|-----------------------------|
| Melbourne Laboratory NATA Site 12 4 & 14271 | | | | | | | | | | | | | |
| Sydney Laboratory NATA Site 1 217 | | | | | | | | | | | | | |
| Brisbane Laboratory NATA Site 207 4 | | | | | | | | | | | | | |
| Perth Laboratory NATA Site 23736 | | | | | | | | | | | | | |
| 0 SB1 .0 Aug 10 2018 Soil | | | | | | | | | | | | | |
| 1 SB1 0.2 Aug 10 2018 Soil | | | | | | | | | | | | | |
| 2 SB1 1. Aug 10 2018 Soil | | | | | | | | | | | | | |
| SB1 1. Aug 10 2018 Soil | | | | | | | | | | | | | |
| SB1 1. Aug 10 2018 Soil | | | | | | | | | | | | | |
| 5 SB1 1. Aug 10 2018 Soil | | | | | | | | | | | | | |
| SB1 .8 Aug 10 2018 Soil | | | | | | | | | | | | | |
| SB1 10.0 Aug 10 2018 Soil | | | | | | | | | | | | | |
| 8 SB1 0.2 Aug 10 2018 Soil | | | | | | | | | | | | | |
| SB1 2 Aug 10 2018 Soil | | | | | | | | | | | | | |
| 80 SB20 2. Aug 10 2018 Soil | | | | | | | | | | | | | |
| 81 SB2 1.0 Aug 10 2018 Soil | | | | | | | | | | | | | |



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.
 - . Samples were analysed on an as received basis.
 - . This report replaces any interim results previously issued.

Holding Times

Please refer to Sample Preservation and Container Guide for holding times Q S 001 .
 For samples received on the last day of holding time notification of testing requirements should have been received at least 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 | Where a moisture has been determined on a solid sample the result is expressed on a dry basis |
| LOR | Limit of Reporting |
| COC | Chain of Custody |
| SRA | Sample Receipt Advice |
| ISO | International Standards Organisation |
| AS | Australian Standards |
| WA DCH | Western Australia Department of Health |
| NOHSC | National Occupational Health and Safety Commission |
| ACM | Bonded asbestos containing material means any material containing more than 1% asbestos and comprises asbestos containing material which is in sound condition although possibly broken or fragmented and where the asbestos is bound in a matrix such as cement or resin. Common examples of ACM include but are not limited to: pipe and boiler insulation sprayed on fireproofing troweled on acoustical plaster floor tile and mastio floor linoleum transite shingles roofing materials wall and ceiling plaster ceiling tiles and gasket materials. This term is restricted to material that cannot pass a 75 mm x 75 mm sieve. This sieve size is selected because it approximates the thickness of common asbestos cement sheeting and for fragments to be smaller than this would imply a high degree of damage and hence potential for fibre release. |
| FA | FA comprises friable asbestos material and includes severely weathered cement sheet insulation products and woven asbestos material. This type of friable asbestos is defined here as asbestos material that is in a degraded condition such that it can be broken or crumbled by hand pressure. This material is typically unbonded or was previously bonded and is now significantly degraded crumbling. |
| PACM | Presumed Asbestos Containing Material means thermal system insulation and surfacing material found in buildings vessels and vessel sections constructed no later than 1980 that are assumed to contain greater than one percent asbestos but have not been sampled or analysed to verify or negate the presence of asbestos. |
| AF | Asbestos fines AF are defined as free fibres or fibre bundles smaller than 5 microns. It is the free fibres which present the greatest risk to human health although very small fibres 5 microns in length are not considered to be such a risk. AF also includes small fragments of bonded ACM that pass through a 75 mm x 75 mm sieve. Note that for bonded ACM fragments to pass through a 75 mm x 75 mm sieve implies a substantial degree of damage which increases the potential for fibre release. |
| AC | Asbestos cement means a mixture of cement and asbestos fibres typically 0:10 ratios. |



Comments

This report has been revised V 2 to amend Asbestos test results for samples 18 Au1 1 18 Au1 1 and 18 Au1 1.

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 Holding Time | Yes |
| Some samples have been subcontracted | No |

Qualifier Codes/Comments

| Code | Description |
|------|----------------|
| N A | Not applicable |

Asbestos Counter/Identifier:

Edward Rowley Asbestos Analyst WA

Authorised by:

Rhys Thomas Senior Analyst Asbestos WA



Glenn Jackson
National Operations Manager

Final Report – this report replaces any previously issued Report

Indicates Not Requested

Indicates NAT A accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or [click here](#).

Eurofins mgt shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report, in no case shall Eurofins mgt be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relate only to the items listed, unless indicated otherwise. The tests were performed on the sample as received.



Certificate of Analysis

Trace Environmental P/L
 Shop 2, 7 3 7 New Canterbury Road
 Dulwich Hill
 NSW 2203



NATA Accredited
 Accreditation Number 1261
 Site Number 1 217

Accredited for compliance with ISO/IEC 17025 – Testing
 The results of the tests, calibrations and
 measurements included in this document are traceable
 to Australian national standards.

Attention: Jack Ellis
 Report 61202 W
 Project name MASCO T
 Project ID 1.1
 Received Date Aug 1 2018

| | | | |
|---|-------|------|-------------|
| Client Sample ID | | | RB 1 |
| Sample Matrix | | | Water |
| Eurofins mgt Sample No. | | | S1 Au16472 |
| Date Sampled | | | Aug 0 , 201 |
| Test Reference | LO R | nit | |
| Total Recoverable Hydrocarbons 1 NEPM Fractions | | | |
| T RH C C | 0.02 | mg L | 0.02 |
| T RH C10 C1 | 0.05 | mg L | 0.05 |
| T RH C15 C28 | 0.1 | mg L | 0.1 |
| T RH C2 C | 0.1 | mg L | 0.1 |
| T RH C10 T otal | 0.1 | mg L | 0.1 |
| B TEX | | | |
| Ben ene | 0.001 | mg L | 0.001 |
| T oluene | 0.001 | mg L | 0.001 |
| Ethylben ene | 0.001 | mg L | 0.001 |
| m p X ylenes | 0.002 | mg L | 0.002 |
| o X ylene | 0.001 | mg L | 0.001 |
| X ylenes T otal | 0.00 | mg L | 0.00 |
| Bromofluoroben ene surr. | 1 | | 82 |
| Total Recoverable Hydrocarbons 2013 NEPM Fractions | | | |
| Naphthalen ⁰⁰² | 0.01 | mg L | 0.01 |
| T RH C C10 | 0.02 | mg L | 0.02 |
| T RH C C10 less BT EX ⁰⁰ F1 | 0.02 | mg L | 0.02 |
| T RH C10 C1 | 0.05 | mg L | 0.05 |
| T RH C10 C1 less Naphthalen ⁰⁰¹ F2 | 0.05 | mg L | 0.05 |
| T RH C1 C | 0.1 | mg L | 0.1 |
| T RH C C 0 | 0.1 | mg L | 0.1 |
| T RH C10 C 0 total | 0.1 | mg L | 0.1 |
| Polycyclic Aromatic Hydrocarbons | | | |
| Acenaphthene | 0.001 | mg L | 0.001 |
| Acenaphthylene | 0.001 | mg L | 0.001 |
| Anthracene | 0.001 | mg L | 0.001 |
| Ben a anthracene | 0.001 | mg L | 0.001 |
| Ben o a pyrene | 0.001 | mg L | 0.001 |
| Ben o b fluoranthene | 0.001 | mg L | 0.001 |
| Ben o g,h,i perylene | 0.001 | mg L | 0.001 |
| Ben o k fluoranthene | 0.001 | mg L | 0.001 |
| Chrysene | 0.001 | mg L | 0.001 |
| Diben a,h anthracene | 0.001 | mg L | 0.001 |
| Fluoranthene | 0.001 | mg L | 0.001 |
| Fluorene | 0.001 | mg L | 0.001 |



| | | | |
|---|--------|------|-------------|
| Client Sample ID | | | RB 1 |
| Sample Matrix | | | Water |
| Eurofins mgt Sample No. | | | S1 Au16472 |
| Date Sampled | | | Aug 0 , 201 |
| Test Reference | LO R | nit | |
| Polycyclic Aromatic Hydrocarbons | | | |
| Indeno 1,2,3-cd pyrene | 0.001 | mg L | 0.001 |
| Naphthalene | 0.001 | mg L | 0.001 |
| Phenanthrene | 0.001 | mg L | 0.001 |
| Pyrene | 0.001 | mg L | 0.001 |
| Total PAH | 0.001 | mg L | 0.001 |
| 2,3-Difluorobiphenyl surr. | 1 | | 2 |
| 1,2,4-Trichlorobiphenyl d1 surr. | 1 | | 11 |
| Phenols (Halogenated) | | | |
| 2,4-Dichlorophenol | 0.00 | mg L | 0.00 |
| 2,6-Dichlorophenol | 0.00 | mg L | 0.00 |
| 2,4,6-Trichlorophenol | 0.01 | mg L | 0.01 |
| 2,6-Trichlorophenol | 0.01 | mg L | 0.01 |
| 2,4-Dichlorophenol | 0.00 | mg L | 0.00 |
| Chloro-methylphenol | 0.01 | mg L | 0.01 |
| Pentachlorophenol | 0.01 | mg L | 0.01 |
| Tetrachlorophenols Total | 0.0 | mg L | 0.0 |
| Total Halogenated Phenol | 0.01 | mg L | 0.01 |
| Phenols (non Halogenated) | | | |
| 2-Cyclohexyl-1,4-dinitrophenol | 0.1 | mg L | 0.1 |
| 2-Methyl-4-nitrophenol | 0.0 | mg L | 0.0 |
| 2-Methylphenol o-Cresol | 0.00 | mg L | 0.00 |
| 2-Nitrophenol | 0.01 | mg L | 0.01 |
| 2,4-Dimethylphenol | 0.00 | mg L | 0.00 |
| 2,6-Dinitrophenol | 0.0 | mg L | 0.0 |
| Methylphenol m-p-Cresol | 0.00 | mg L | 0.00 |
| Nitrophenol | 0.0 | mg L | 0.0 |
| Dinoseb | 0.1 | mg L | 0.1 |
| Phenol | 0.00 | mg L | 0.00 |
| Total Non Halogenated Phenol | 0.1 | mg L | 0.1 |
| Phenol d surr. | 1 | | 50 |
| Heavy Metals | | | |
| Arsenic | 0.001 | mg L | 0.001 |
| Cadmium | 0.0002 | mg L | 0.0002 |
| Chromium | 0.001 | mg L | 0.001 |
| Copper | 0.001 | mg L | 0.001 |
| Lead | 0.001 | mg L | 0.001 |
| Mercury | 0.0001 | mg L | 0.0001 |
| Nickel | 0.001 | mg L | 0.001 |
| Zinc | 0.005 | mg L | 0.005 |



Sample History

Where samples are submitted analysed over several days the last date of extraction and analysis is reported.
 A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this some of the method reference information on reports has changed. However no substantive change has been made to our laboratory methods and as such there is no change in the validity of current or previous results regarding both quality and NAT A accreditation.
 If the date and time of sampling are not provided the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

| Description | Testing Site | Extracted | Holding Time |
|--|--------------|-------------|--------------|
| Total Recoverable Hydrocarbons 1 NEPM Fractions Method: LT M ORG 2010 T RH C C | Melbourne | Aug 1 2018 | Day |
| BT EX Method: T RH C C 0 LT M ORG 2010 | Melbourne | Aug 15 2018 | 1 Day |
| Total Recoverable Hydrocarbons 201 NEPM Fractions Method: T RH C C 0 LT M ORG 2010 | Melbourne | Aug 15 2018 | Day |
| Eurofins mgt Suite B A | | | |
| Total Recoverable Hydrocarbons 201 NEPM Fractions Method: T RH C C 0 LT M ORG 2010 | Melbourne | Aug 1 2018 | Day |
| Polycyclic Aromatic Hydrocarbons Method: LT M ORG 21 0 PAH and Phenols in Soil and Water | Melbourne | Aug 1 2018 | Day |
| Phenols Halogenated Method: LT M ORG 21 0 PAH and Phenols in Soil and Water | Melbourne | Aug 1 2018 | Days |
| Phenols non Halogenated Method: LT M ORG 21 0 PAH and Phenols in Soil and Water | Melbourne | Aug 1 2018 | Day |
| Metals M8 Method: LT M MET 0 0 Metals in Waters Soils Sediments by ICP MS | Melbourne | Aug 15 2018 | 28 Days |



Melbourne
 2 5 King Street Owen Close
 Oakleigh VIC 3166
 Phone: 03 9594 5000
 Fax: 03 9594 5000
 Email: info@eurofins.com.au
 Website: www.eurofins.com.au

Sydney
 11 Macleay Street
 Sydney NSW 2000
 Phone: 02 9550 1212
 Fax: 02 9550 1212
 Email: info@eurofins.com.au
 Website: www.eurofins.com.au

Perth
 121 Smallwood Place
 Murdoch WA 6150
 Phone: 08 9447 1212
 Fax: 08 9447 1212
 Email: info@eurofins.com.au
 Website: www.eurofins.com.au

Company Name: Trace Environmental P L
Address: Shop 2, Dutwich Hill, New Canterbury Road, NSW 2200
Project Name: MASCO T
Project ID: 1,1

Order No.: 12025
Report : 02 B 0 0555
Phone: 02 8 0 0555
Fax:

Received: Aug 1 2018 :0 PM
Due: Aug 20 2018
Priority: 5 Day
Contact Name: Jack Ellis

mgmt Analytical Services Manager: Nibha Vaidya

| Sample Detail | | Asbestos - WA guidelines | | CANCELLED | HOLD | pH (1.5 Aqueous extract at 25°C as rec.) | Polycyclic Aromatic Hydrocarbons | Metals M8 | Eurofins mgt Suite B15 | Volatile Organics | Moisture Set | NEPM Screen for Soil Classification | Eurofins mgt Suite B | Eurofins mgt Suite B A | BT EX N and V volatile T RH |
|----------------------|------------------------|--------------------------|--------------|-----------|------|--|----------------------------------|-----------|------------------------|-------------------|--------------|-------------------------------------|----------------------|------------------------|-----------------------------|
| Melbourne Laboratory | NATA Site 12 4 & 14271 | | | | | | | | | | | | | | |
| Sydney Laboratory | NATA Site 1 217 | | | | | | | | | | | | | | |
| Brisbane Laboratory | NATA Site 207 4 | | | | | | | | | | | | | | |
| Perth Laboratory | NATA Site 23736 | | | X | | | | | | | | | | | |
| 10 SB11 1.2 | Aug 0 2018 | Soil | S18 Au1 21 X | | | | | | | | | | | | |
| 11 SB11 1. | Aug 0 2018 | Soil | S18 Au1 22 | | | | | | | | | | | | |
| 12 SB11 . | Aug 0 2018 | Soil | S18 Au1 2 | | | | | | | | | | | | |
| 1 SB11 5.0 | Aug 0 2018 | Soil | S18 Au1 2 | | | | | | | | | | | | |
| 1 SB1 0.2 | Aug 10 2018 | Soil | S18 Au1 25 X | | | | | | | | | | | | |
| 15 SB1 0.5 | Aug 10 2018 | Soil | S18 Au1 2 | | | | | | | | | | | | |
| 1 SB1 1.2 | Aug 10 2018 | Soil | S18 Au1 2 | | | | | | | | | | | | |
| 1 SB1 2.5 | Aug 10 2018 | Soil | S18 Au1 28 X | | | | | | | | | | | | |
| 18 SB1 .8 | Aug 10 2018 | Soil | S18 Au1 2 | | | | | | | | | | | | |
| 1 SB1 10.0 | Aug 10 2018 | Soil | S18 Au1 0 | | | | | | | | | | | | |
| 20 SB10 0. | Aug 10 2018 | Soil | S18 Au1 1 X | | | | | | | | | | | | |
| 21 SB10 0.5 | Aug 10 2018 | Soil | S18 Au1 2 | | | | | | | | | | | | |



Melbourne
 25 King Street, Level 10
 Melbourne VIC 3000
 Phone: +61 3 9593 8000
 Fax: +61 3 9593 8001
 Email: info@eurofins.com.au
 Website: www.eurofins.com.au

Sydney
 1 Macleay Street, Level 12
 Sydney NSW 2000
 Phone: +61 2 9593 8000
 Fax: +61 2 9593 8001
 Email: info@eurofins.com.au
 Website: www.eurofins.com.au

Perth
 121 South Street, Level 12
 Perth WA 6000
 Phone: +61 8 9442 1212
 Fax: +61 8 9442 1213
 Email: info@eurofins.com.au
 Website: www.eurofins.com.au

Company Name: Trace Environmental P L
Address: Shop 2, New Canterbury Road, Dutch Hill, NSW 220
Project Name: MASCO T
Project ID: 1,1

Order No.: 12025
Report : 02 B 0 0555
Phone:
Fax:

Received: Aug 1 2018 :0 PM
Due: Aug 20 2018
Priority: 5 Day
Contact Name: Jack Ellis

mgmt Analytical Services Manager: Nibha Vaidya

| Sample Detail | | Asbestos - WA guidelines | | CANCELLED | | HOLD | | pH (1.5 Aqueous extract at 25°C as rec.) | | Polycyclic Aromatic Hydrocarbons | | Metals M8 | | Eurofins mgt Suite B15 | | Volatile Organics | | Moisture Set | | NEPM Screen for Soil Classification | | Eurofins mgt Suite B | | Eurofins mgt Suite B A | | BT EX N and Volatile T RH | | |
|----------------------|------------------------|--------------------------|---------|-----------|--|------|--|--|--|----------------------------------|--|-----------|--|------------------------|--|-------------------|--|--------------|--|-------------------------------------|--|----------------------|--|------------------------|--|---------------------------|--|--|
| Melbourne Laboratory | NATA Site 12 4 & 14271 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sydney Laboratory | NATA Site 1 217 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brisbane Laboratory | NATA Site 207 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Perth Laboratory | NATA Site 23736 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 SB1 | 0.5 Aug 10 2018 | Soil | S18 Au1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 SB1 | 1.0 Aug 10 2018 | Soil | S18 Au1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 SB1 | .0 Aug 10 2018 | Soil | S18 Au1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 SB1 | .5 Aug 10 2018 | Soil | S18 Au1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 SB1 | .0 Aug 10 2018 | Soil | S18 Au1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 SB18 | 0.2 Aug 10 2018 | Soil | S18 Au1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 SB18 | 0. Aug 10 2018 | Soil | S18 Au1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 SB18 | 1.0 Aug 10 2018 | Soil | S18 Au1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 SB1 | 0.8 Aug 08 2018 | Soil | S18 Au1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 SB1 | 1.5 Aug 08 2018 | Soil | S18 Au1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 SB1 | 2.5 Aug 08 2018 | Soil | S18 Au1 | | | | | | | | | | | | | | | | | | | | | | | | | |
| SB1 | . Aug 08 2018 | Soil | S18 Au1 | | | | | | | | | | | | | | | | | | | | | | | | | |



ABSL-50,005,086,594
 email: EnviroSales_eurofins.com
 web: www.eurofins.com.au
MALDEN
 25 Kingstons Town Close
 Oakleigh VIC 3166
 Phone: 03 9500 1200
 NAT A: 12.1 Site 1
 Site 2
SYDNEY
 1 More Road
 Newington NSW 2041
 Phone: 02 9500 1200
 NAT A: 12.1 Site 1
 Site 2
MURRUMBidgee
 1 21 Smallwood Place
 Murrumbidgee NSW 2570
 Phone: 02 6332 0000
 NAT A: 12.1 Site 1
 Site 2
Perth
 1 Leach Highway
 Kewdale WA 6105
 Phone: 08 9437 2571
 NAT A: 12.1 Site 1
 Site 2

Company Name: Trace Environmental P L
Address: Shop 2, New Canterbury Road, Dutwich Hill, NSW 2200
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mgmt Analytical Services Manager: Nibha Vaidya

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|----------------------|------------------------|--------------------------|------|--------------|------|--|----------------------------------|-----------|------------------------|-------------------|--------------|-------------------------------------|----------------------|------------------------|-----------------------------|
| Melbourne Laboratory | NATA Site 12_4 & 14271 | | | | | | | | | | | | | | |
| Sydney Laboratory | NATA Site 1_217 | | | | | | | | | | | | | | |
| Brisbane Laboratory | NATA Site 207_4 | | | | | | | | | | | | | | |
| Perth Laboratory | NATA Site 23736 | | | X | | | | | | | | | | | |
| 5 | SB20 1.0 | Aug 08 2018 | Soil | S18 Au1 5 | | | X | X | X | | | | | | |
| | SB20 1.5 | Aug 08 2018 | Soil | S18 Au1 X | | | | | | | | | | | |
| | SB20 .0 | Aug 08 2018 | Soil | S18 Au1 8 | | | | | | | | | | | |
| | SB20 .8 | Aug 08 2018 | Soil | S18 Au1 50 | | | | | | | | | | | |
| | SB20 12.0 | Aug 08 2018 | Soil | S18 Au1 51 | | | | | | | | | | | |
| | SB2 0.2 | Aug 10 2018 | Soil | S18 Au1 42 x | | | | | | | | | | | |
| | SB2 0.5 | Aug 10 2018 | Soil | S18 Au1 4 | | | | | | | | | | | |
| | SB2 2.0 | Aug 10 2018 | Soil | S18 Au1 3 | | | | | | | | | | | |
| | SB2 .0 | Aug 10 2018 | Soil | S18 Au1 35 | | | | | | | | | | | |
| | SB2 .0 | Aug 10 2018 | Soil | S18 Au1 4 | | | | | | | | | | | |



ABL - 50 005 085 594
 email : EnviroSales_eurofins.com
 web : www.eurofins.com.au
Melbourne
 2 5 Kingsten Town Close
 Oakleigh VIC 3166
 NAT A : 12 1 2 1
 Site : 126 1 2 1
Sydney
 1 More Road Building F
 Macquarie NSW 2108
 Phone : 12 00 8 00
 NAT A : 12 1 Site : 20
Perth
 1 21 Smallwood Place
 Murdoch WA 6150
 Phone : 8 251 00
 NAT A : 12 1 Site : 2
Leach Highway
 Kooloona WA 6105
 Phone : 8 251 00
 NAT A : 12 1 Site : 2

Company Name: Trace Environmental P L
Address: Shop 2 New Canterbury Road
 Dutwich Hill NSW 220
Project Name: MASCO T
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mgmt Analytical Services Manager : Nibha V aldiya

| Sample Detail | | Asbestos WA guidelines | | CANCELLED | | HOLD | | pH (1.5 Aqueous extract at 25°C as rec.) | | Polycyclic Aromatic Hydrocarbons | | Metals M8 | | Eurofins mgt Suite B15 | | Volatile Organics | | Moisture Set | | NEPM Screen for Soil Classification | | Eurofins mgt Suite B | | Eurofins mgt Suite B A | | BT EX N and V volatile T RH | | | |
|----------------------|------------------------|------------------------|-------------|-------------|------|------|-----|--|--|----------------------------------|--|-----------|--|------------------------|--|-------------------|--|--------------|--|-------------------------------------|--|----------------------|--|------------------------|--|-----------------------------|--|--|--|
| Melbourne Laboratory | NATA Site 12 4 & 14271 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sydney Laboratory | NATA Site 1 217 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brisbane Laboratory | NATA Site 207 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Perth Laboratory | NATA Site 23736 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SB2 | 5.0 | Aug 10 2018 | Soil | S18 | Au1 | 4 | | | | | | | | | | | | | | | | | | | | | | | |
| SB2 | .0 | Aug 10 2018 | Soil | S18 | Au1 | 5 | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | SB2 | 8.0 | Aug 10 2018 | Soil | S18 | Au1 | 5 | | | | | | | | | | | | | | | | | | | | | | |
| 50 | SB2 | 1.5 | 2.0 | Aug 08 2018 | Soil | S18 | Au1 | 0 | | | | | | | | | | | | | | | | | | | | | |
| 51 | SB2 | 0.2 | Aug 08 2018 | Soil | S18 | Au1 | 2 | | | | | | | | | | | | | | | | | | | | | | |
| 52 | SB2 | 0.5 | Aug 08 2018 | Soil | S18 | Au1 | 2 | | | | | | | | | | | | | | | | | | | | | | |
| 5 | SB2 | 1.0 | Aug 08 2018 | Soil | S18 | Au1 | 2 | | | | | | | | | | | | | | | | | | | | | | |
| 5 | SB2 | 1.5 | Aug 08 2018 | Soil | S18 | Au1 | 2 | | | | | | | | | | | | | | | | | | | | | | |
| 5 | SB2 | .8 | Aug 08 2018 | Soil | S18 | Au1 | 5 | | | | | | | | | | | | | | | | | | | | | | |
| 55 | SB2 | 5.0 | Aug 08 2018 | Soil | S18 | Au1 | 5 | | | | | | | | | | | | | | | | | | | | | | |
| 5 | SB2 | .0 | Aug 08 2018 | Soil | S18 | Au1 | 8 | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Q.S1 | | Aug 10 2018 | Soil | S18 | Au1 | 8 | | | | | | | | | | | | | | | | | | | | | | |



Melbourne
 2 5 King Street, Tower Close
 Oakleigh VIC 3166
 Australia
 Phone: 03 9595 5000
 Fax: 03 9595 5001
 Email: sales@eurofins.com.au
 Website: www.eurofins.com.au

Sydney
 1 Macleay Street, Level 20
 Sydney NSW 2000
 Australia
 Phone: 02 9595 5000
 Fax: 02 9595 5001
 Email: sales@eurofins.com.au
 Website: www.eurofins.com.au

Perth
 121 Smallwood Place
 Murdoch WA 6150
 Australia
 Phone: 08 9447 1200
 Fax: 08 9447 1201
 Email: sales@eurofins.com.au
 Website: www.eurofins.com.au

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mgmt Analytical Services Manager: Nibha V aldiya

| Sample Detail | | Asbestos - WA guidelines | | CANCELLED | | HOLD | | pH (1.5 Aqueous extract at 25°C as rec.) | | Polycyclic Aromatic Hydrocarbons | | Metals M8 | | Eurofins mgt Suite B15 | | Volatile Organics | | Moisture Set | | NEPM Screen for Soil Classification | | Eurofins mgt Suite B | | Eurofins mgt Suite B A | | BT EX N and Volatile T RH | | |
|----------------------|------------------------|--------------------------|-------|-----------|------|------|------|--|------|----------------------------------|------|-----------|------|------------------------|------|-------------------|------|--------------|------|-------------------------------------|------|----------------------|------|------------------------|------|---------------------------|------|--|
| Lab | Sample | Soil | Water | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil | |
| Melbourne Laboratory | NATA Site 12 4 & 14271 | S18 | Au1 | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| Sydney Laboratory | NATA Site 1 217 | S18 | Au1 | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Brisbane Laboratory | NATA Site 207 4 | S18 | Au1 | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Perth Laboratory | NATA Site 23736 | S18 | Au1 | 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 RB1 | Aug 08 2018 | Soil | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 SB 1.25 | Aug 0 2018 | Water | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 SB | Aug 0 2018 | Soil | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 SB11 2.0 | Aug 0 2018 | Soil | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SB11 2. | Aug 0 2018 | Soil | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SB11 | Aug 0 2018 | Soil | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 SB1 0. | Aug 10 2018 | Soil | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SB1 | Aug 10 2018 | Soil | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SB1 5.0 | Aug 10 2018 | Soil | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 SB1 0. | Aug 10 2018 | Soil | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SB1 | Aug 10 2018 | Soil | | | | | | | | | | | | | | | | | | | | | | | | | | |



ABRIL - 60 005 085 524
 email : EnviroSales_eurofins.com
 web : www.eurofins.com.au
MAINTENANCE
 2 5 Kingstee T ower Close
 O adleigh VIC 35 5000
 NAT A 12 1 00 B
 Site 1 2 1
SPRINGWOOD
 1 Mare Road
 Springwood NSW 20
 Phone : 12 00 8
 NAT A 12 1 Site 1821
PERKINS
 1 21 Smallwood Place
 Murrumbidgee NSW 251
 NAT A 12 1 Site 20
 Site 2
LEACH HIGHWAY
 1 Leach Highway
 Kewdale WA 105
 NAT A 12 1
 Site 251 00

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| | | Asbestos WA guidelines | | CANCELLED | | HOLD | | pH (1.5 Aqueous extract at 25°C as rec.) | | Polycyclic Aromatic Hydrocarbons | | Metals M8 | | Eurofins mgt Suite B15 | | Volatile Organics | | Moisture Set | | NEPM Screen for Soil Classification | | Eurofins mgt Suite B | | Eurofins mgt Suite B A | | BT EX N and Volatile T RH | | | |
|----------------------|------------------------|------------------------|-----|-----------|---|------|---|--|--|----------------------------------|--|-----------|--|------------------------|--|-------------------|--|--------------|--|-------------------------------------|--|----------------------|--|------------------------|--|---------------------------|--|--|--|
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| Sydney Laboratory | NATA Site 1 217 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brisbane Laboratory | NATA Site 207 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Perth Laboratory | NATA Site 23736 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 82 SB2 | .0 Aug 10 2018 | Soil | S18 | Au1 | 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 SB2 | .0 Aug 10 2018 | Soil | S18 | Au1 | 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 SB2 | 10.0 Aug 10 2018 | Soil | S18 | Au1 | 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 85 SB2 | .1 Aug 08 2018 | Soil | S18 | Au1 | 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 SB1 | 8.0 Aug 10 2018 | Soil | S18 | Au1 | 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 T S | Aug 0 2018 | Soil | S18 | Au1 | 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 88 T B | Aug 0 2018 | Soil | S18 | Au1 | 5 | | | | | | | | | | | | | | | | | | | | | | | | |
| Test Counts | | | 1 | 1 | 2 | 5 | B | | | | | | | | | | | | | | | | | | | | | | |



Internal Quality Control Review and Glossary

General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
- All soil results are reported on a dry basis unless otherwise stated.
 - All biota/food results are reported on a wet weight basis on the edible portion unless otherwise stated.
 - Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
 - SVOC analysis on waters are performed on homogenised unfiltered samples unless noted otherwise.
 - Samples were analysed on an as received basis.
- This report replaces any interim results previously issued.

Holding Times

Please refer to Sample Preservation and Container Guide for holding times Q S 001 .
 For samples received on the last day of holding time notification of testing requirements should have been received at least 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 days however for all other VOCs such as BT, EX or C-10 TRH then the holding time is 1 days.
 NOTPH 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. |
| LCR | 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 deionised water. |
| 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 | Quality Systems Manual ver 5.1 US Department of Defense |
| 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 0 however the following acceptance guidelines are equally applicable:

Results 10 times the LO R: No Limit

Results between 10 - 20 times the LO R: RPD must lie between 0 - 50

Results 20 times the LO R: RPD must lie between 0 - 0

Surrogate Recoveries: Recoveries must lie between 50 - 150 Phenols PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in Q SM 5.1 where no positive PFAS results have been reported have been reviewed and no data was affected.

WADWER n 10 : PFBA PFPeA PFHxA PFHpA PFOA PFBS PFHxS PFO S :2 FT SA 8:2 FT SA

QC Data General Comments

- Where a result is reported as a less than higher than the nominated LO R 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.
- Duplicate data shown within this report that states the word "BAT CH" 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.
 - Organochlorine Pesticide analysis where reporting LCS data Toxaphene Chlordane are not added to the LCS.
 - Organochlorine Pesticide analysis where reporting Spike data Toxaphene is not added to the Spike.
- Total Recoverable Hydrocarbons where reporting Spike LCS data a single spike of commercial Hydrocarbon products in the range of C12 - C 0 is added and it's Total Recovery is reported in the C10 - C1 cell of the Report.
 - pH and Free Chlorine analysed in the laboratory Analysis on this test must begin within 0 minutes of sampling. Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
 - Recovery Data Spikes Surrogates where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
- Polychlorinated Biphenyls are spiked only using Aroclor 12 0 in Matrix Spikes and LCS.
 - For Matrix Spikes and LCS results a dash " " in the report means that the specific analyte was not added to the QC sample.
- 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 B blank | | | | | |
| Total Recoverable Hydrocarbons 1 NEPM Fractions | | | | | |
| T RH C C | mg L | 0.02 | 0.02 | Pass | |
| T RH C10 C1 | mg L | 0.05 | 0.05 | Pass | |
| T RH C15 C28 | mg L | 0.1 | 0.1 | Pass | |
| T RH C2 C | mg L | 0.1 | 0.1 | Pass | |
| Method B blank | | | | | |
| B TEX | | | | | |
| Ben ene | mg L | 0.001 | 0.001 | Pass | |
| T oluene | mg L | 0.001 | 0.001 | Pass | |
| Ethylben ene | mg L | 0.001 | 0.001 | Pass | |
| m p X ylenes | mg L | 0.002 | 0.002 | Pass | |
| o X ylene | mg L | 0.001 | 0.001 | Pass | |
| X ylenes T otal | mg L | 0.00 | 0.00 | Pass | |
| Method B blank | | | | | |
| Total Recoverable Hydrocarbons 2013 NEPM Fractions | | | | | |
| Naphthalene | mg L | 0.01 | 0.01 | Pass | |
| T RH C C10 | mg L | 0.02 | 0.02 | Pass | |
| T RH C10 C1 | mg L | 0.05 | 0.05 | Pass | |
| T RH C1 C | mg L | 0.1 | 0.1 | Pass | |
| T RH C C 0 | mg L | 0.1 | 0.1 | Pass | |
| Method B blank | | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | | |
| Acenaphthene | mg L | 0.001 | 0.001 | Pass | |
| Acenaphthylene | mg L | 0.001 | 0.001 | Pass | |
| Anthracene | mg L | 0.001 | 0.001 | Pass | |
| Ben a anthracene | mg L | 0.001 | 0.001 | Pass | |
| Ben o a pyrene | mg L | 0.001 | 0.001 | Pass | |
| Ben o b fluoranthene | mg L | 0.001 | 0.001 | Pass | |
| Ben o g.h.i perylene | mg L | 0.001 | 0.001 | Pass | |
| Ben o k fluoranthene | mg L | 0.001 | 0.001 | Pass | |
| Chrysene | mg L | 0.001 | 0.001 | Pass | |
| Diben a.h anthracene | mg L | 0.001 | 0.001 | Pass | |
| Fluoranthene | mg L | 0.001 | 0.001 | Pass | |
| Fluorene | mg L | 0.001 | 0.001 | Pass | |
| Indeno 1,2, cd pyrene | mg L | 0.001 | 0.001 | Pass | |
| Naphthalene | mg L | 0.001 | 0.001 | Pass | |
| Phenanthrene | mg L | 0.001 | 0.001 | Pass | |
| Pyrene | mg L | 0.001 | 0.001 | Pass | |
| Method B blank | | | | | |
| Phenols (Halogenated) | | | | | |
| 2 Chlorophenol | mg L | 0.00 | 0.00 | Pass | |
| 2, 4 Dichlorophenol | mg L | 0.00 | 0.00 | Pass | |
| 2, 5 T richlorophenol | mg L | 0.01 | 0.01 | Pass | |
| 2, 6 T richlorophenol | mg L | 0.01 | 0.01 | Pass | |
| 2, 4, 6 Trichlorophenol | mg L | 0.00 | 0.00 | Pass | |
| Chloro methylphenol | mg L | 0.01 | 0.01 | Pass | |
| Pentachlorophenol | mg L | 0.01 | 0.01 | Pass | |
| T etrachlorophenols T otal | mg L | 0.0 | 0.0 | Pass | |
| Method B blank | | | | | |
| Phenols (non Halogenated) | | | | | |
| 2 Cyclohexyl, 1, 4 dinitrophenol | mg L | 0.1 | 0.1 | Pass | |



| Test | Units | Result 1 | Acceptance Limits | Pass Limits | Qualifying Code |
|--|-------|----------|-------------------|-------------|-----------------|
| 2 Methyl dinitrophenol | mg L | 0.0 | 0.0 | Pass | |
| 2 Methylphenol o Cresol | mg L | 0.00 | 0.00 | Pass | |
| 2 Nitrophenol | mg L | 0.01 | 0.01 | Pass | |
| 2, Dimethylphenol | mg L | 0.00 | 0.00 | Pass | |
| 2, Dinitrophenol | mg L | 0.0 | 0.0 | Pass | |
| Methylphenol m p Cresol | mg L | 0.00 | 0.00 | Pass | |
| Nitrophenol | mg L | 0.0 | 0.0 | Pass | |
| Dinoseb | mg L | 0.1 | 0.1 | Pass | |
| Phenol | mg L | 0.00 | 0.00 | Pass | |
| Method B blank | | | | | |
| Heavy Metals | | | | | |
| Arsenic | mg L | 0.001 | 0.001 | Pass | |
| Cadmium | mg L | 0.0002 | 0.0002 | Pass | |
| Chromium | mg L | 0.001 | 0.001 | Pass | |
| Copper | mg L | 0.001 | 0.001 | Pass | |
| Lead | mg L | 0.001 | 0.001 | Pass | |
| Mercury | mg L | 0.0001 | 0.0001 | Pass | |
| Nickel inc | mg L | 0.001 | 0.001 | Pass | |
| 0.005 | mg L | 0.005 | 0.005 | Pass | |
| LCS Recovery | | | | | |
| Total Recoverable Hydrocarbons 1 NEPM Fractions | | | | | |
| T RH C C | | 115 | 0 1 0 | Pass | |
| T RH C10 C1 | | 10 | 0 1 0 | Pass | |
| LCS Recovery | | | | | |
| B TEX | | | | | |
| Ben ene | | 11 | 0 1 0 | Pass | |
| Toluene | | 105 | 0 1 0 | Pass | |
| Ethylben ene | | 8 | 0 1 0 | Pass | |
| m p X ylenes | | 100 | 0 1 0 | Pass | |
| X ylenes T otal | | 100 | 0 1 0 | Pass | |
| LCS Recovery | | | | | |
| Total Recoverable Hydrocarbons 2013 NEPM Fractions | | | | | |
| Naphthalene | | | 0 1 0 | Pass | |
| T RH C C10 | | 115 | 0 1 0 | Pass | |
| T RH C10 C1 | | 10 | 0 1 0 | Pass | |
| LCS Recovery | | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | | |
| Acenaphthene | | 1 | 0 1 0 | Pass | |
| Acenaphthylene | | 110 | 0 1 0 | Pass | |
| Anthracene | | 110 | 0 1 0 | Pass | |
| Ben a anthracene | | 108 | 0 1 0 | Pass | |
| Ben o a pyrene | | 122 | 0 1 0 | Pass | |
| Ben o b fluoranthene | | 115 | 0 1 0 | Pass | |
| Ben o g,h,i perylene | | 10 | 0 1 0 | Pass | |
| Ben o k fluoranthene | | 108 | 0 1 0 | Pass | |
| Chrysene | | 105 | 0 1 0 | Pass | |
| Diben a,h anthracene | | | 0 1 0 | Pass | |
| Fluoranthene | | 115 | 0 1 0 | Pass | |
| Fluorene | | 101 | 0 1 0 | Pass | |
| Indeno 1,2, cd pyrene | | 11 | 0 1 0 | Pass | |
| Naphthalene | | 10 | 0 1 0 | Pass | |
| Phenanthrene | | 102 | 0 1 0 | Pass | |
| Pyrene | | 11 | 0 1 0 | Pass | |
| LCS Recovery | | | | | |



| Test | Units | Result 1 | Acceptance Limits | Pass Limits | Qualifying Code | | |
|--|---------------|-----------|-------------------|-------------|-------------------|-------------|-----------------|
| Phenols (Halogenated) | | | | | | | |
| 2 Chlorophenol | | 10 | 0 1 0 | | Pass | | |
| 2, Dichlorophenol | | 11 | 0 1 0 | | Pass | | |
| 2, 5 Trichlorophenol | | 108 | 0 1 0 | | Pass | | |
| 2, 4 Trichlorophenol | | 105 | 0 1 0 | | Pass | | |
| 2, Dichlorophenol | | 105 | 0 1 0 | | Pass | | |
| Chloro methylphenol | | 11 | 0 1 0 | | Pass | | |
| Pentachlorophenol | | 1 | 0 1 0 | | Pass | | |
| Tetrachlorophenols Total | | 10 | 0 1 0 | | Pass | | |
| LCS Recovery | | | | | | | |
| Phenols (non Halogenated) | | | | | | | |
| 2 Cyclohexyl dinitrophenol | | | 0 1 0 | | Pass | | |
| 2 Methyl dinitrophenol | | | 0 1 0 | | Pass | | |
| 2 Methylphenol o Cresol | | 8 | 0 1 0 | | Pass | | |
| 2 Nitrophenol | | 112 | 0 1 0 | | Pass | | |
| 2, Dimethylphenol | | | 0 1 0 | | Pass | | |
| 2, Dinitrophenol | | | 0 1 0 | | Pass | | |
| Methylphenol m p Cresol | | | 0 1 0 | | Pass | | |
| Nitrophenol | | 2 | 0 1 0 | | Pass | | |
| Dinoseb | | 0 | 0 1 0 | | Pass | | |
| Phenol | | | 0 1 0 | | Pass | | |
| LCS Recovery | | | | | | | |
| Heavy Metals | | | | | | | |
| Arsenic | | | 80 120 | | Pass | | |
| Cadmium | | 105 | 80 120 | | Pass | | |
| Chromium | | 100 | 80 120 | | Pass | | |
| Copper | | | 80 120 | | Pass | | |
| Lead | | 10 | 80 120 | | Pass | | |
| Mercury | | 100 | 5 125 | | Pass | | |
| Nickel | | 100 | 80 120 | | Pass | | |
| inc | | 101 | 80 120 | | Pass | | |
| Test | Lab Sample ID | QA Source | Units | Result 1 | Acceptance Limits | Pass Limits | Qualifying Code |
| Spike Recovery | | | | | | | |
| Total Recoverable Hydrocarbons 1 NEPM Fractions | | | | Result 1 | | | |
| T R H C C | M18 Au1 20 | NCP | | 11 | 0 1 0 | | Pass |
| T R H C10 C1 | M18 Au1 008 | NCP | | 1 0 | 0 1 0 | | Pass |
| Spike Recovery | | | | | | | |
| B TEX | | | | Result 1 | | | |
| Ben ene | M18 Au1 20 | NCP | | 11 | 0 1 0 | | Pass |
| Toluene | M18 Au1 20 | NCP | | 112 | 0 1 0 | | Pass |
| Ethylben ene | M18 Au1 20 | NCP | | 10 | 0 1 0 | | Pass |
| m p X ylenes | M18 Au1 20 | NCP | | 108 | 0 1 0 | | Pass |
| o X ylene | M18 Au1 20 | NCP | | 110 | 0 1 0 | | Pass |
| X ylenes Total | M18 Au1 20 | NCP | | 10 | 0 1 0 | | Pass |
| Spike Recovery | | | | | | | |
| Total Recoverable Hydrocarbons 2013 NEPM Fractions | | | | Result 1 | | | |
| Naphthalene | M18 Au1 20 | NCP | | 2 | 0 1 0 | | Pass |
| T R H C C10 | M18 Au1 20 | NCP | | 11 | 0 1 0 | | Pass |
| T R H C10 C1 | M18 Au1 008 | NCP | | 122 | 0 1 0 | | Pass |
| Spike Recovery | | | | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | Result 1 | | | |
| Acenaphthene | S18 Au1 | NCP | | 8 | 0 1 0 | | Pass |
| Acenaphthylene | S18 Au1 | NCP | | | 0 1 0 | | Pass |
| Anthracene | S18 Au1 | NCP | | 8 | 0 1 0 | | Pass |



| Test | Lab Sample ID | QA Source | Units | Result 1 | Acceptance Limits | Pass Limits | Q ualifying Code |
|--------------------------------|---------------|----------------|--------|----------|-------------------|-------------|------------------|
| Ben a anthracene | S18 Au1 | | NCP | 88 | 0 1 0 | | Pass |
| Ben o a pyrene | S18 Au1 | | NCP | 10 | 0 1 0 | | Pass |
| Ben o b fluoranthene | S18 Au1 | | NCP | 10 | 0 1 0 | | Pass |
| Ben o g,h,i perylene | S18 Au1 | | NCP | 82 | 0 1 0 | | Pass |
| Ben o k fluoranthene | S18 Au1 | | NCP | 10 | 0 1 0 | | Pass |
| Chrysene | S18 Au1 | | NCP | 8 | 0 1 0 | | Pass |
| Diben a,h anthracene | S18 Au1 | | NCP | 5 | 0 1 0 | | Pass |
| Fluoranthene | S18 Au1 | | NCP | 1 | 0 1 0 | | Pass |
| Fluorene | S18 Au1 | | NCP | 8 | 0 1 0 | | Pass |
| Indeno 1,2, cd pyrene | S18 Au1 | | NCP | 8 | 0 1 0 | | Pass |
| Naphthalene | M18 Au12 0 | | NCP | | 0 1 0 | | Pass |
| Phenanthrene | S18 Au1 | | NCP | | 0 1 0 | | Pass |
| Pyrene | S18 Au1 | | NCP | 2 | 0 1 0 | | Pass |
| Spike Recovery | | | | | | | |
| Phenols (Halogenated) | | | | Result 1 | | | |
| 2 Chlorophenol | B18 Au111 2 | | NCP | 102 | 0 1 0 | | Pass |
| 2, Dichlorophenol | B18 Au111 2 | | NCP | 111 | 0 1 0 | | Pass |
| 2, .5 T richlorophenol | B18 Au111 2 | | NCP | 10 | 0 1 0 | | Pass |
| 2, . T richlorophenol | B18 Au111 2 | | NCP | 101 | 0 1 0 | | Pass |
| 2, Dichlorophenol | B18 Au111 2 | | NCP | | 0 1 0 | | Pass |
| Chloro methylphenol | B18 Au111 2 | | NCP | 12 | 0 1 0 | | Pass |
| Pentachlorophenol | B18 Au111 2 | | NCP | 81 | 0 1 0 | | Pass |
| Tetrachlorophenols T total | B18 Au111 2 | | NCP | 10 | 0 1 0 | | Pass |
| Spike Recovery | | | | | | | |
| Phenols (non Halogenated) | | | | Result 1 | | | |
| 2 Cyclohexyl, dinitrophenol | B18 Au111 2 | | NCP | | 0 1 0 | | Pass |
| 2 Methyl, dinitrophenol | B18 Au111 2 | | NCP | 5 | 0 1 0 | | Pass |
| 2 Methylphenol o Cresol | B18 Au111 2 | | NCP | | 0 1 0 | | Pass |
| 2 Nitrophenol | B18 Au111 2 | | NCP | 110 | 0 1 0 | | Pass |
| 2, Dimethylphenol | B18 Au111 2 | | NCP | 111 | 0 1 0 | | Pass |
| Methylphenol m p Cresol | B18 Au111 2 | | NCP | 8 | 0 1 0 | | Pass |
| Nitrophenol | B18 Au111 2 | | NCP | | 0 1 0 | | Pass |
| Dinoseb | B18 Au111 2 | | NCP | 10 | 0 1 0 | | Pass |
| Phenol | B18 Au111 2 | | NCP | | 0 1 0 | | Pass |
| Spike Recovery | | | | | | | |
| Heavy Metals | | | | Result 1 | | | |
| Arsenic | M18 Au1 25 | | NCP | 8 | 5 125 | | Pass |
| Cadmium | M18 Au1 25 | | NCP | 8 | 5 125 | | Pass |
| Chromium | M18 Au1 25 | | NCP | | 5 125 | | Pass |
| Copper | M18 Au1 25 | | NCP | | 5 125 | | Pass |
| Lead | M18 Au1 25 | | NCP | 81 | 5 125 | | Pass |
| Mercury | M18 Au1 25 | | NCP | | 0 1 0 | | Pass |
| Nickel | M18 Au1 25 | | NCP | 80 | 5 125 | | Pass |
| inc | M18 Au1 25 | | NCP | 81 | 5 125 | | Pass |
| Duplicate | | | | | | | |
| Total Recoverable Hydrocarbons | 1 | NEPM Fractions | | Result 1 | Result 2 | RPD | |
| T RH C C | M18 Au1 1 | 5 | NCP mg | L | 0.02 | 0.02 | 1 0 |
| T RH C10 C1 | M18 Au1 | 55 | NCP mg | L | 0.28 | 0.1 | .0 0 |
| T RH C15 C28 | M18 Au1 | 55 | NCP mg | L | 0. | 0.5 | 0 |
| T RH C2 C | M18 Au1 | 55 | NCP mg | L | 0.1 | 0.1 | 1 0 |

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| Duplicate | | | | | | | | | | | | |
|--|-----|-------|---|---|--------|----------|----------|-------|-----|---|------|------|
| B TEX | | | | | | Result 1 | Result 2 | RPD | | | | |
| Ben ene | M18 | Au1 | 1 | 5 | NCP mg | L | 0.001 | 0.001 | 1 | 0 | Pass | |
| Toluene | M18 | Au1 | 1 | 5 | NCP mg | L | 0.001 | 0.001 | 1 | 0 | Pass | |
| Ethylben ene | M18 | Au1 | 1 | 5 | NCP mg | L | 0.001 | 0.001 | 1 | 0 | Pass | |
| m p X ylenes | M18 | Au1 | 1 | 5 | NCP mg | L | 0.002 | 0.002 | 1 | 0 | Pass | |
| o X ylene | M18 | Au1 | 1 | 5 | NCP mg | L | 0.001 | 0.001 | 1 | 0 | Pass | |
| X ylenes T otal | M18 | Au1 | 1 | 5 | NCP mg | L | 0.00 | 0.00 | 1 | 0 | Pass | |
| Duplicate | | | | | | | | | | | | |
| Total Recoverable Hydrocarbons 2013 NEPM Fractions | | | | | | Result 1 | Result 2 | RPD | | | | |
| Naphthalene | M18 | Au1 | 1 | 5 | NCP mg | L | 0.01 | 0.01 | 1 | 0 | Pass | |
| T RH C C10 | M18 | Au1 | 1 | 5 | NCP mg | L | 0.02 | 0.02 | 1 | 0 | Pass | |
| T RH C10 C1 | M18 | Au1 | 5 | 5 | NCP mg | L | 0. | 0.5 | 18 | 0 | Pass | |
| T RH C1 C | M18 | Au1 | 5 | 5 | NCP mg | L | 0.2 | 0. | 0 | 0 | Fail | |
| T RH C C 0 | M18 | Au1 | 5 | 5 | NCP mg | L | 0.1 | 0.1 | 1 | 0 | Pass | |
| Duplicate | | | | | | | | | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | | | Result 1 | Result 2 | RPD | | | | |
| Acenaphthene | S18 | Au1 | 8 | 8 | NCP mg | L | 0.01 | 0.01 | 1 | 0 | Pass | |
| Acenaphthylene | S18 | Au1 | 8 | 8 | NCP mg | L | 0.01 | 0.01 | 1 | 0 | Pass | |
| Anthracene | S18 | Au1 | 8 | 8 | NCP mg | L | 0.01 | 0.01 | 1 | 0 | Pass | |
| Ben a anthracene | S18 | Au1 | 8 | 8 | NCP mg | L | 0.01 | 0.01 | 1 | 0 | Pass | |
| Ben o a pyrene | S18 | Au1 | 8 | 8 | NCP mg | L | 0.01 | 0.01 | 1 | 0 | Pass | |
| Ben o b fluoranthene | S18 | Au1 | 8 | 8 | NCP mg | L | 0.01 | 0.01 | 1 | 0 | Pass | |
| Ben o g,h,i perylene | S18 | Au1 | 8 | 8 | NCP mg | L | 0.01 | 0.01 | 1 | 0 | Pass | |
| Ben o k fluoranthene | S18 | Au1 | 8 | 8 | NCP mg | L | 0.01 | 0.01 | 1 | 0 | Pass | |
| Chrysene | S18 | Au1 | 8 | 8 | NCP mg | L | 0.01 | 0.01 | 1 | 0 | Pass | |
| Diben a,h anthracene | S18 | Au1 | 8 | 8 | NCP mg | L | 0.01 | 0.01 | 1 | 0 | Pass | |
| Fluoranthene | S18 | Au1 | 8 | 8 | NCP mg | L | 0.01 | 0.01 | 1.0 | 0 | Pass | |
| Fluorene | S18 | Au1 | 8 | 8 | NCP mg | L | 0.01 | 0.01 | 1 | 0 | Pass | |
| Indeno 1,2, cd pyrene | S18 | Au1 | 8 | 8 | NCP mg | L | 0.01 | 0.01 | 1 | 0 | Pass | |
| Naphthalene | S18 | Au1 | 8 | 8 | NCP mg | L | 0.01 | 0.01 | 1 | 0 | Pass | |
| Phenanthrene | S18 | Au1 | 8 | 8 | NCP mg | L | 0.01 | 0.01 | 1 | 0 | Pass | |
| Pyrene | S18 | Au1 | 8 | 8 | NCP mg | L | 0.01 | 0.011 | 18 | 0 | Pass | |
| Duplicate | | | | | | | | | | | | |
| Phenols (Halogenated) | | | | | | Result 1 | Result 2 | RPD | | | | |
| 2 Chlorophenol | B18 | Au111 | 1 | 1 | NCP mg | L | 0.00 | 0.00 | 1 | 0 | Pass | |
| 2, Dichlorophenol | B18 | Au111 | 1 | 1 | NCP mg | L | 0.00 | 0.00 | 1 | 0 | Pass | |
| 2, .5 T richlorophenol | B18 | Au111 | 1 | 1 | NCP mg | L | 0.01 | 0.01 | 1 | 0 | Pass | |
| 2, . T richlorophenol | B18 | Au111 | 1 | 1 | NCP mg | L | 0.01 | 0.01 | 1 | 0 | Pass | |
| 2, Dichlorophenol | B18 | Au111 | 1 | 1 | NCP mg | L | 0.00 | 0.00 | 1 | 0 | Pass | |
| Chloro methylphenol | B18 | Au111 | 1 | 1 | NCP mg | L | 0.01 | 0.01 | 1 | 0 | Pass | |
| Pentachlorophenol | B18 | Au111 | 1 | 1 | NCP mg | L | 0.01 | 0.01 | 1 | 0 | Pass | |
| T etrachlorophenols T otal | B18 | Au111 | 1 | 1 | NCP mg | L | 0.0 | 0.0 | 1 | 0 | Pass | |
| Duplicate | | | | | | | | | | | | |
| Phenols (non Halogenated) | | | | | | Result 1 | Result 2 | RPD | | | | |
| 2 Cyclohexyl . dinitrophenol | B18 | Au111 | 1 | 1 | NCP mg | L | 0.0 | 0.1 | 0.1 | 1 | 0 | Pass |
| 2 Methyl . dinitrophenol | B18 | Au111 | 1 | 1 | NCP mg | L | 0.00 | 0.00 | 1 | 0 | Pass | |
| 2 Methylphenol o Cresol | B18 | Au111 | 1 | 1 | NCP mg | L | 0.00 | 0.00 | 1 | 0 | Pass | |
| 2 Nitrophenol | B18 | Au111 | 1 | 1 | NCP mg | L | 0.01 | 0.01 | 1 | 0 | Pass | |
| 2, Dimethylphenol | B18 | Au111 | 1 | 1 | NCP mg | L | 0.00 | 0.00 | 1 | 0 | Pass | |
| 2, Dinitrophenol | B18 | Au111 | 1 | 1 | NCP mg | L | 0.0 | 0.0 | 1 | 0 | Pass | |
| Methylphenol m p Cresol | B18 | Au111 | 1 | 1 | NCP mg | L | 0.00 | 0.00 | 1 | 0 | Pass | |
| Nitrophenol | B18 | Au111 | 1 | 1 | NCP mg | L | 0.0 | 0.0 | 1 | 0 | Pass | |
| Dinoseb | B18 | Au111 | 1 | 1 | NCP mg | L | 0.1 | 0.1 | 1 | 0 | Pass | |
| Phenol | B18 | Au111 | 1 | 1 | NCP mg | L | 0.00 | 0.00 | 1 | 0 | Pass | |

Q 15

Pass



| Duplicate | | | | | | | | | | | |
|--------------|-----|-----|----|-----|----|----------|----------|--------|---|---|------|
| Heavy Metals | | | | | | Result 1 | Result 2 | RPD | | | |
| Arsenic | M18 | Au1 | 25 | NCP | mg | L | 0.001 | 0.001 | 1 | 0 | Pass |
| Cadmium | M18 | Au1 | 25 | NCP | mg | L | 0.0002 | 0.0002 | 1 | 0 | Pass |
| Chromium | M18 | Au1 | 25 | NCP | mg | L | 0.001 | 0.001 | 1 | 0 | Pass |
| Copper | M18 | Au1 | 25 | NCP | mg | L | 0.001 | 0.001 | 1 | 0 | Pass |
| Lead | M18 | Au1 | 25 | NCP | mg | L | 0.001 | 0.001 | 1 | 0 | Pass |
| Mercury | M18 | Au1 | 25 | NCP | mg | L | 0.0001 | 0.0001 | 1 | 0 | Pass |
| Nickel | M18 | Au1 | 25 | NCP | mg | L | 0.001 | 0.001 | 1 | 0 | Pass |
| inc | M18 | Au1 | 25 | NCP | mg | L | 0.005 | 0.005 | 1 | 0 | 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 Holding Time | 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 C1 " 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. |
| N0 | F1 is determined by arithmetically subtracting the " Total BT EX " value from the " C C10 " value. The " Total BT EX " value is obtained by summing the concentrations of BT EX analytes. The " C C10 " value is obtained by quantitating against a standard of mixed aromatic aliphatic analytes. |
| N0 | 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 |
| Q 15 | The RPD reported passes Eurofins mgt s QC Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report. |

Authorised By

| | |
|----------------|-----------------------------|
| Nibha Vaidya | Analytical Services Manager |
| Alex Petridis | Senior Analyst Metal VIC |
| Harry Bacalis | Senior Analyst Volatile VIC |
| Joseph Edouard | Senior Analyst Organic VIC |



Glenn Jackson

National Operations Manager

~~Final report - this Report replaces any previously issued Report~~

Indicates Not Requested

Indicates NAT A accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or [click here](#).

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Melbourne
 25 King Street, Level 10
 Melbourne VIC 3000
 Phone: +61 3 9593 8000
 Fax: +61 3 9593 8001
 Email: info@eurofins.com.au
 Website: www.eurofins.com.au

Sydney
 11 Macquarie Street
 Sydney NSW 2000
 Phone: +61 2 9250 8000
 Fax: +61 2 9250 8001
 Email: info@eurofins.com.au
 Website: www.eurofins.com.au

Perth
 121 South Street
 Perth WA 6000
 Phone: +61 8 9447 8000
 Fax: +61 8 9447 8001
 Email: info@eurofins.com.au
 Website: www.eurofins.com.au

Company Name: Trace Environmental P L
Address: Shop 2, New Canterbury Road, Duntwich Hill, NSW 220
Project Name: MASCO T
Project ID: 1,1

Order No.: 12025
Report : 02 B 0 0555
Phone: 02 8 0 0555
Fax:

Received: Aug 1 2018 :0 PM
Due: Aug 20 2018
Priority: 5 Day
Contact Name: Jack Ellis

mgmt Analytical Services Manager: Nibha Vaidya

| Sample Detail | | Asbestos - WA guidelines | | CANCELLED | HOLD | pH (1.5 Aqueous extract at 25°C as rec.) | Polycyclic Aromatic Hydrocarbons | Metals M8 | Volatile Organics | Moisture Set | NEPM Screen for Soil Classification | Eurofins - mgt Suite B A | Eurofins - mgt Suite B | BT EX N and Volatile T RH |
|----------------------|------------------------|--------------------------|--------------|-----------|------|--|----------------------------------|-----------|-------------------|--------------|-------------------------------------|--------------------------|------------------------|---------------------------|
| Melbourne Laboratory | NATA Site 12 4 & 14271 | | | | | | | | | | | | | |
| Sydney Laboratory | NATA Site 1 217 | | | | | | | | | | | | | |
| Brisbane Laboratory | NATA Site 207 4 | | | | | | | | | | | | | |
| Perth Laboratory | NATA Site 23736 | | | X | | | | | | | | | | |
| 10 SB11 1.2 | Aug 0 2018 | Soil | S18 Au1 21 x | | | | | | | | | | | |
| 11 SB11 1. | Aug 0 2018 | Soil | S18 Au1 22 | | | | X | X | X | X | X | X | X | X |
| 12 SB11 . | Aug 0 2018 | Soil | S18 Au1 2 | | | | | | X | X | X | X | X | X |
| 1 SB11 5.0 | Aug 0 2018 | Soil | S18 Au1 2 | | | | | X | X | X | X | X | X | X |
| 1 SB1 0.2 | Aug 10 2018 | Soil | S18 Au1 25 x | | | | | | X | X | X | X | X | X |
| 15 SB1 0.5 | Aug 10 2018 | Soil | S18 Au1 2 | | | | | X | X | X | X | X | X | X |
| 1 SB1 1.2 | Aug 10 2018 | Soil | S18 Au1 2 | | | | X | X | X | X | X | X | X | X |
| 1 SB1 2.5 | Aug 10 2018 | Soil | S18 Au1 28 x | | | | | | X | X | X | X | X | X |
| 18 SB1 .8 | Aug 10 2018 | Soil | S18 Au1 2 | | | | | X | X | X | X | X | X | X |
| 1 SB1 10.0 | Aug 10 2018 | Soil | S18 Au1 0 | | | | | | X | X | X | X | X | X |
| 20 SB10 0. | Aug 10 2018 | Soil | S18 Au1 1x | | | | | | | | | | | |
| 21 SB10 0.5 | Aug 10 2018 | Soil | S18 Au1 2 | | | | | X | X | X | X | X | X | X |



Melbourne
 2 5 King Street Tower Close
 Oakleigh VIC 3166
 NAT A 12 1 2 1
 Site 126 1 2 1
 Phone: 03 9594 5000
 Email: EnviroSales@eurofins.com.au
 Web: www.eurofins.com.au

Sydney
 1 More Road
 Sydney NSW 2000
 Phone: 61 2 9008 0000
 NAT A 12 1 Site 20
 Site 1821

Perth
 1 21 Smallwood Place
 Murdoch WA 6150
 Phone: 61 8 9487 2511
 NAT A 12 1 Site 20
 Site 2

Leach Highway
 1 Leach Highway
 Kooloos WA 6063
 Phone: 61 8 9487 2511
 NAT A 12 1
 Site 2

Company Name: Trace Environmental P L
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Project ID: 1,1

Order No.: 12025
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Phone:
Fax:

Received: Aug 1 2018 :0 PM
Due: Aug 20 2018
Priority: 5 Day
Contact Name: Jack Ellis

mgmt Analytical Services Manager: Nibha Vaidya

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|--|------------------------|---------------|------------|--|--|
| Melbourne Laboratory | NATA Site 12 4 & 14271 | | | | |
| Sydney Laboratory | NATA Site 1 217 | | | | |
| Brisbane Laboratory | NATA Site 207 4 | | | | |
| Perth Laboratory | NATA Site 23736 | | | | |
| 22 SB1 0.5 | Aug 10 2018 | Soil | S18 Au1 | | |
| 2 SB1 1.0 | Aug 10 2018 | Soil | S18 Au1 | | |
| 2 SB1 .0 | Aug 10 2018 | Soil | S18 Au1 5 | | |
| 25 SB1 .5 | Aug 10 2018 | Soil | S18 Au1 | | |
| 2 SB1 .0 | Aug 10 2018 | Soil | S18 Au1 | | |
| 2 SB18 0.2 | Aug 10 2018 | Soil | S18 Au1 8x | | |
| 2 SB18 0. | Aug 10 2018 | Soil | S18 Au1 | | |
| 2 SB18 1.0 | Aug 10 2018 | Soil | S18 Au1 0 | | |
| 0 SB1 0.8 | Aug 08 2018 | Soil | S18 Au1 | | |
| 1 SB1 1.5 | Aug 08 2018 | Soil | S18 Au1 2 | | |
| 2 SB1 2.5 | Aug 08 2018 | Soil | S18 Au1 | | |
| SB1 | Aug 08 2018 | Soil | S18 Au1 | | |
| Asbestos WA guidelines | | | | | |
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| HOLD | | | | | |
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| Polycyclic Aromatic Hydrocarbons | | | | | |
| Metals M8 | | | | | |
| Eurofins mgt Suite B15 | | | | | |
| Volatile Organics | | | | | |
| Moisture Set | | | | | |
| NEPM Screen for Soil Classification | | | | | |
| Eurofins mgt Suite B | | | | | |
| Eurofins mgt Suite B A | | | | | |
| BT EX N and Volatile T RH | | | | | |



ABSL - 50,005,086,594
 email: EnviroSales@eurofins.com.au
 web: www.eurofins.com.au
MALDEN
 25 Kingstons Tower Close
 Oadleigh VIC 3605
 NAT A: 12 1 2 1
 Site: 125 1 2 1
SYDNEY
 11 Macleay Street NSW 2000
 Phone: 12 00 8 00 00
 NAT A: 12 1 Site: 20
MURRUMBidgee
 1 21 Smallwood Place
 Murrumbidgee NSW 2522
 NAT A: 12 1 Site: 20
Perth
 2 Leach Highway
 Kewdale WA 6105
 Phone: 8 251 00 00
 NAT A: 12 1
 Site: 2

Company Name: Trace Environmental P L
Address: Shop 2, New Canterbury Road, Dutwich Hill, NSW 2200
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| Sample Detail | | Asbestos - WA guidelines | | CANCELLED | HOLD | pH (1.5 Aqueous extract at 25°C as rec.) | Polycyclic Aromatic Hydrocarbons | Metals M8 | Eurofins mgt Suite B15 | Volatile Organics | Moisture Set | NEPM Screen for Soil Classification | Eurofins mgt Suite B | Eurofins mgt Suite B A | BT EX N and Volatile T RH |
|----------------------|------------------------|--------------------------|------|--------------|------|--|----------------------------------|-----------|------------------------|-------------------|--------------|-------------------------------------|----------------------|------------------------|---------------------------|
| Melbourne Laboratory | NATA Site 12 4 & 14271 | | | | | | | | | | | | | | |
| Sydney Laboratory | NATA Site 1 217 | | | | | | | | | | | | | | |
| Brisbane Laboratory | NATA Site 207 4 | | | | | | | | | | | | | | |
| Perth Laboratory | NATA Site 23736 | | | X | | | | | | | | | | | |
| 5 | SB20 1.0 | Aug 08 2018 | Soil | S18 Au1 5 | | | X | X | X | | | | | | |
| | SB20 1.5 | Aug 08 2018 | Soil | S18 Au1 X | | | | | | | | | | | |
| | SB20 .0 | Aug 08 2018 | Soil | S18 Au1 8 | | | | | | | | | | | |
| | SB20 .8 | Aug 08 2018 | Soil | S18 Au1 8 | | | | | | | | | | | |
| | SB20 .0 | Aug 08 2018 | Soil | S18 Au1 50 | | | | | | | | | | | |
| | SB20 12.0 | Aug 08 2018 | Soil | S18 Au1 51 | | | | | | | | | | | |
| | SB2 0.2 | Aug 10 2018 | Soil | S18 Au1 42 x | | | | | | | | | | | |
| | SB2 0.5 | Aug 10 2018 | Soil | S18 Au1 4 | | | | | | | | | | | |
| | SB2 2.0 | Aug 10 2018 | Soil | S18 Au1 3 | | | | | | | | | | | |
| | SB2 .0 | Aug 10 2018 | Soil | S18 Au1 35 | | | | | | | | | | | |
| | SB2 .0 | Aug 10 2018 | Soil | S18 Au1 4 | | | | | | | | | | | |



ABL-50 005 085 594
 email: EnviroSales_eurofins.com
 web: www.eurofins.com.au

Melbourne
 2 5 Kingsten Town Close
 Oakleigh VIC 3166 5000
 NAT A 12 1 2 1
 Site 126 1 2 1

Sydney
 1 More Road Building F
 Newington NSW 2041
 Phone: 12 00 8 00
 NAT A 12 1 Site 20
 Site 1821

Perth
 1 21 Smallwood Place
 Murdoch WA 6150
 Phone: 8 251 00
 NAT A 12 1 Site 20
 Site 2

Leach Highway
 1 Leach Highway
 Kewdale WA 6105
 Phone: 8 251 00
 NAT A 12 1
 Site 20

Company Name: Terrace Environmental P L
Address: Shop 2 New Canterbury Road
 Dutwich Hill NSW 220
Project Name: MASCO T
Project ID: 1,1

Order No.: 12025
Report : 02 B 0 0555
Phone:
Fax:

Received: Aug 1 2018 :0 PM
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mgmt Analytical Services Manager: Nibha Vaidya

| | | Sample Detail | | | | | | | | | | | | | |
|--|-----------|---------------|-------------|------|-----|-----|---|--|--|--|--|--|--|--|--|
| | | | | | | | | | | | | | | | |
| Melbourne Laboratory | NATA Site | 12 4 & 14271 | | | | | | | | | | | | | |
| Sydney Laboratory | NATA Site | 1 217 | | | | | | | | | | | | | |
| Brisbane Laboratory | NATA Site | 207 4 | | | | | | | | | | | | | |
| Perth Laboratory | NATA Site | 23736 | | | | | | | | | | | | | |
| SB2 | 5.0 | Aug 10 2018 | Soil | S18 | Au1 | 4 | | | | | | | | | |
| SB2 | .0 | Aug 10 2018 | Soil | S18 | Au1 | 5 | | | | | | | | | |
| 8 | 8.0 | Aug 10 2018 | Soil | S18 | Au1 | 5 | | | | | | | | | |
| SB2 | 1.5 | 2.0 | Aug 10 2018 | Soil | S18 | Au1 | 0 | | | | | | | | |
| 50 | SB2 | 0.2 | Aug 08 2018 | Soil | S18 | Au1 | 0 | | | | | | | | |
| 51 | SB2 | 0.5 | Aug 08 2018 | Soil | S18 | Au1 | 2 | | | | | | | | |
| 52 | SB2 | 1.0 | Aug 08 2018 | Soil | S18 | Au1 | 2 | | | | | | | | |
| 5 | SB2 | 1.5 | Aug 08 2018 | Soil | S18 | Au1 | 5 | | | | | | | | |
| 5 | SB2 | .8 | Aug 08 2018 | Soil | S18 | Au1 | 5 | | | | | | | | |
| 55 | SB2 | 5.0 | Aug 08 2018 | Soil | S18 | Au1 | 5 | | | | | | | | |
| 5 | SB2 | .0 | Aug 08 2018 | Soil | S18 | Au1 | 8 | | | | | | | | |
| 5 | Q.S1 | | Aug 10 2018 | Soil | S18 | Au1 | 8 | | | | | | | | |
| Asbestos WA guidelines | | | | | | | | | | | | | | | |
| CANCELLED | | | | | | | | | | | | | | | |
| HOLD | | | | | | | | | | | | | | | |
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| Metals M8 | | | | | | | | | | | | | | | |
| Eurofins mgt Suite B15 | | | | | | | | | | | | | | | |
| Volatile Organics | | | | | | | | | | | | | | | |
| Moisture Set | | | | | | | | | | | | | | | |
| NEPM Screen for Soil Classification | | | | | | | | | | | | | | | |
| Eurofins mgt Suite B | | | | | | | | | | | | | | | |
| Eurofins mgt Suite B A | | | | | | | | | | | | | | | |
| BT EX N and Volatile RH | | | | | | | | | | | | | | | |



Melbourne
 2 5 Kingsten Town Close
 Oakleigh VIC 3166
 NAT A 12 1 2 1
 Site 126 1 2 1
 Phone : 03 9500 5000
 Email : EuroSales@eurofins.com.au
 Web : www.eurofins.com.au

Sydney
 1 More Road
 Newington NSW 2041
 Phone : 12 00 8 00 00
 NAT A 12 1 Site 20
 Site 1821

Perth
 1 21 Smallwood Place
 Murdoch WA 6150
 NAT A 12 1 Site 20
 Site 2

Leach Highway
 1 Leach Highway
 Kewdale WA 6105
 NAT A 12 1
 Site 251 00

Company Name: Trace Environmental P L
Address: Shop 2 New Canterbury Road
 Dutwich Hill NSW 220
Project Name: MASCO T
Project ID: 1,1

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Fax:

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| | | Sample Detail | | | |
|--|------------------------|---------------|-------------|--|--|
| | | | | | |
| Melbourne Laboratory | NATA Site 12 4 & 14271 | | | | |
| Sydney Laboratory | NATA Site 1 217 | | | | |
| Brisbane Laboratory | NATA Site 207 4 | | | | |
| Perth Laboratory | NATA Site 23736 | | | | |
| 56 Q 52 | Aug 08 2018 | Soil | S18 Au1 0 | | |
| 5 RB1 | Aug 08 2018 | Water | S18 Au1 2 | | |
| 0 SB 1.25 | Aug 0 2018 | Soil | S18 Au1 5 2 | | |
| 1 SB | Aug 0 2018 | Soil | S18 Au1 5 | | |
| 2 SB11 2.0 | Aug 0 2018 | Soil | S18 Au1 5 | | |
| SB11 2. | Aug 0 2018 | Soil | S18 Au1 5 | | |
| SB11 | Aug 0 2018 | Soil | S18 Au1 5 | | |
| 5 SB1 0. | Aug 10 2018 | Soil | S18 Au1 5 | | |
| SB1 2. | Aug 10 2018 | Soil | S18 Au1 5 8 | | |
| SB1 5.0 | Aug 10 2018 | Soil | S18 Au1 5 | | |
| 8 SB1 0. | Aug 10 2018 | Soil | S18 Au1 55 | | |
| SB1 0. | Aug 10 2018 | Soil | S18 Au1 55 | | |
| Asbestos WA guidelines | | | | | |
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| Polycyclic Aromatic Hydrocarbons | | | | | |
| Metals M8 | | | | | |
| Eurofins mgt Suite B15 | | | | | |
| Volatile Organics | | | | | |
| Moisture Set | | | | | |
| NEPM Screen for Soil Classification | | | | | |
| Eurofins mgt Suite B | | | | | |
| Eurofins mgt Suite B A | | | | | |
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Melbourne
 2 5 King Street Tower Close
 Oakleigh VIC 3166
 NAT A 12 1 2 1
 Site 126 1 2 1
 Phone : 03 9594 5000
 Email : EnviroSales@eurofins.com.au
 Web : www.eurofins.com.au

Sydney
 11 Macleay Street
 Sydney NSW 2000
 NAT A 12 1 2 1
 Site 1821
 Phone : 61 2 9594 5000
 Email : EnviroSales@eurofins.com.au
 Web : www.eurofins.com.au

Perth
 1 21 Smallwood Place
 Murdoch WA 6150
 NAT A 12 1 2 1
 Site 2
 Phone : 61 8 9447 1251
 Email : EnviroSales@eurofins.com.au
 Web : www.eurofins.com.au

Leach Highway
 1 Leach Highway
 Kooloora WA 6460
 NAT A 12 1 2 1
 Site 251
 Phone : 61 8 9447 1251
 Email : EnviroSales@eurofins.com.au
 Web : www.eurofins.com.au

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|----------------------|------------------------|------------------------|-----|-----------|----|------|--|--|--|----------------------------------|--|-----------|--|------------------------|--|-------------------|--|--------------|--|-------------------------------------|--|----------------------|--|------------------------|--|---------------------------|--|--|
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| Brisbane Laboratory | NATA Site 207 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Perth Laboratory | NATA Site 23736 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 SB1 | .0 Aug 10 2018 | Soil | S18 | Au1 | 55 | | | | | | | | | | | | | | | | | | | | | | | |
| 1 SB1 | 0.2 Aug 10 2018 | Soil | S18 | Au1 | 55 | | | | | | | | | | | | | | | | | | | | | | | |
| 2 SB1 | 1. Aug 10 2018 | Soil | S18 | Au1 | 55 | | | | | | | | | | | | | | | | | | | | | | | |
| SB1 | 1. Aug 10 2018 | Soil | S18 | Au1 | 55 | | | | | | | | | | | | | | | | | | | | | | | |
| SB1 | 1. Aug 10 2018 | Soil | S18 | Au1 | 55 | | | | | | | | | | | | | | | | | | | | | | | |
| 5 SB1 | 1. Aug 10 2018 | Soil | S18 | Au1 | 55 | | | | | | | | | | | | | | | | | | | | | | | |
| SB1 | .8 Aug 10 2018 | Soil | S18 | Au1 | 55 | | | | | | | | | | | | | | | | | | | | | | | |
| SB1 | 10.0 Aug 10 2018 | Soil | S18 | Au1 | 55 | | | | | | | | | | | | | | | | | | | | | | | |
| 8 SB1 | 0.2 Aug 10 2018 | Soil | S18 | Au1 | 5 | 0 | | | | | | | | | | | | | | | | | | | | | | |
| SB1 | 2 Aug 10 2018 | Soil | S18 | Au1 | 5 | 1 | | | | | | | | | | | | | | | | | | | | | | |
| 80 SB20 | 2. Aug 10 2018 | Soil | S18 | Au1 | 5 | 2 | | | | | | | | | | | | | | | | | | | | | | |
| 81 SB2 | 1.0 Aug 10 2018 | Soil | S18 | Au1 | 5 | | | | | | | | | | | | | | | | | | | | | | | |



Melbourne
 25 King Street Level 10
 Melbourne VIC 3000
 Australia
 Phone: +61 3 9595 5941
 Fax: +61 3 9595 5942
 Email: info@eurofins.com.au
 Website: www.eurofins.com.au

Sydney
 111 Macquarie Street Level 10
 Sydney NSW 2000
 Australia
 Phone: +61 2 9595 5941
 Fax: +61 2 9595 5942
 Email: info@eurofins.com.au
 Website: www.eurofins.com.au

Perth
 121 Stirling Street Level 10
 Perth WA 6000
 Australia
 Phone: +61 8 9595 5941
 Fax: +61 8 9595 5942
 Email: info@eurofins.com.au
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| Brisbane Laboratory | NATA Site 207 4 | | | | | | | | | | | | | | |
| Perth Laboratory | NATA Site 23736 | X | | | | | | | | | | | | | |
| 82 | SB2 .0 Aug 10 2018 | | | | | | | | | | | | | | |
| 8 | SB2 .0 Aug 10 2018 | | | | | | | | | | | | | | |
| 8 | SB2 10.0 Aug 10 2018 | | | | | | | | | | | | | | |
| 85 | SB2 .1 Aug 08 2018 | | | | | | | | | | | | | | |
| 8 | SB1 8.0 Aug 10 2018 | | | | | | | | | | | | | | |
| 8 | T S Aug 0 2018 | | | | | | | | | | | | | | |
| 88 | T B Aug 0 2018 | | | | | | | | | | | | | | |
| Test Counts | | | | | | | | | | | | | | | |
| 1 1 2 5 B | | | | | | | | | | | | | | | |
| 15 11 2 | | | | | | | | | | | | | | | |



Head Office: 5 Kingston Town Closeriff Building F
Phone: 1 85 5800ns Cove West NSW 20
NAT A: 12 1 Site 125
Phone: 1 2 00 8
NAT A: 12 1 Site 1821

Head Office: 1 21 Smallwood Place
Phone: 1 02
Head Office: 2 1 Leach Highway
Phone: 1 8 251 00

Head Office: 1 2 Murarie QLD
Phone: 1 02
Head Office: 1 21 Leach Highway
Phone: 1 8 251 00

Head Office: 1 21 Leach Highway
Phone: 1 8 251 00

ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com web : www.eurofins.com.au

Sample Receipt Advice

Company name: Trace Environmental P L
Contact name: Jack Ellis
Project name: MASCO T
Project ID: 1.1
CO C number: Not provided
Turn around time: 5 Day
Date Time received: Aug 1 2018 :0 PM
Eurofins mgt reference: 12280055

Sample information

- A detailed list of analytes logged into our LIM S is included in the attached summary table.
- Sample Temperature of a random sample selected from the batch as recorded by Eurofins mgt Sample Receipt : . degrees Celsius.
- All samples have been received as described on the above CO C.
- CO C 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 ero headspace.
- Split sample sent to requested external lab.
- Some samples have been subcontracted.

CO C: N/A Custody Seals intact if used .

ars not received for SB10 0. only asbestos analysis conducted SB10 0.5 analysis conducted from bag .
not received for SB1 1. . Trip spike and blank received and placed on hold.

Contact notes

If you have any questions with respect to these samples please contact:

Nibha V aidya on Phone : 1 2 00 8 15 or by e.mail: NibhaV aidya eurofins.com

Results will be delivered electronically via e.mail to Jack Ellis Jack traceenviro.com.



Environmental Laboratory
 Air Analysis
 Water Analysis
 Soil Contamination Analysis

NAT A Accreditation
 Stack Emission Sampling Analysis
 Trade Waste Sampling Analysis
 Groundwater Sampling Analysis

38 Years of Environmental Analysis & Experience



|  | | Sydny 1FG - 6 Buildings, 16 Mars Road Lane Cove Ph: +612 9900 8400 a/e: EnviroSampleNSW@eurofins.com.au | Brisbane Unit 1-21 Smallwood Place, Morningside Phone: +617 3902 4600 Email: EnviroSampleQLD@eurofins.com.au | Melbourne 2 Kingston Town Close, Oakleigh, VIC 3166 Phone: +613 8564 5000 Fax: +613 8564 5000 Email: EnviroSampleVic@eurofins.com.au | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|----------|---|---|---|-----------|-----------|-----------|----------------|----------|----------------|-----------|-----------------------|-----------|-------------------------------|---------|--------------|----------|--------------|----------|---------------|---------|-----------------|----------------|-------------------------|----------|-------------------------|----------|----------------------------|--------|--------|---------|------------------------|--------|---------------------------|----------|-------------|--------|------------|--------|---|--|--|--|--|--|--|--|----------------|---|---------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----------------|---|---------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|---------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|---------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|---------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|---------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|---------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|---------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|---------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|---------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|---------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|---------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|---------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|---------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|
| CHAIN OF CUSTODY RECORD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CLIENT DETAILS Company Name: TRACE Environment Office Address: 793-799 New Canterbury Road, Dulwich Hill, NSW | | Contact Name: Jack Ellis Project Manager: Ken Handerson Email for results: Ken@traceenviro.com | Purchase Order: PROJECT Number: 1-16 PROJECT Name: Mascot | Page: 1 of 1 COC Number: 1 of 6 Eurofins I mat quote ID: 130902TRU Data output format: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Special Directions: Please email all requests to accounts@traceenviro.com & Proj. Manager | | Analytes: Suite B7 Suite B7a Suite B15 PAH Suite MR VOC PH PAHs 28 PAAS Suite RZ1 Asbestos | | Some common holding times (with correct preservation) For further information contact the lab. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eurofins mg/L water batch number: | | <table border="1"> <thead> <tr> <th colspan="2">Waters</th> <th colspan="2">Soils</th> </tr> </thead> <tbody> <tr> <td>BTEX, MAH, VOC</td> <td>14 days</td> <td>BTEX, MAH, VOC</td> <td>14 days</td> </tr> <tr> <td>TRH, PAH, Phenols, PC</td> <td>7 days</td> <td>TRH, PAH, Phenols, Pesticides</td> <td>14 days</td> </tr> <tr> <td>Heavy Metals</td> <td>6 months</td> <td>Heavy Metals</td> <td>6 months</td> </tr> <tr> <td>Mercury, CrVI</td> <td>28 days</td> <td>Mercury, CrVI</td> <td>28 days</td> </tr> <tr> <td>Microbiological testing</td> <td>24 hours</td> <td>Microbiological testing</td> <td>72 hours</td> </tr> <tr> <td>BOD, Nitrate, Nitrite, TOC</td> <td>2 days</td> <td>Anions</td> <td>28 days</td> </tr> <tr> <td>Solids - TSS, TDS etc.</td> <td>7 days</td> <td>SPOCCAS, pH Field and FOX</td> <td>24 hours</td> </tr> <tr> <td>Freeze iron</td> <td>7 days</td> <td>ASLP, TCLP</td> <td>7 days</td> </tr> </tbody> </table> | | Waters | | Soils | | BTEX, MAH, VOC | 14 days | BTEX, MAH, VOC | 14 days | TRH, PAH, Phenols, PC | 7 days | TRH, PAH, Phenols, Pesticides | 14 days | Heavy Metals | 6 months | Heavy Metals | 6 months | Mercury, CrVI | 28 days | Mercury, CrVI | 28 days | Microbiological testing | 24 hours | Microbiological testing | 72 hours | BOD, Nitrate, Nitrite, TOC | 2 days | Anions | 28 days | Solids - TSS, TDS etc. | 7 days | SPOCCAS, pH Field and FOX | 24 hours | Freeze iron | 7 days | ASLP, TCLP | 7 days | Containers: 1LP, 250P, 125P, 1LA, 10L, 250mL, Jar, Bag Sample comments: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Waters | | Soils | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BTEX, MAH, VOC | 14 days | BTEX, MAH, VOC | 14 days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TRH, PAH, Phenols, PC | 7 days | TRH, PAH, Phenols, Pesticides | 14 days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heavy Metals | 6 months | Heavy Metals | 6 months | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mercury, CrVI | 28 days | Mercury, CrVI | 28 days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Microbiological testing | 24 hours | Microbiological testing | 72 hours | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BOD, Nitrate, Nitrite, TOC | 2 days | Anions | 28 days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Solids - TSS, TDS etc. | 7 days | SPOCCAS, pH Field and FOX | 24 hours | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freeze iron | 7 days | ASLP, TCLP | 7 days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Sample ID</th> <th>Date</th> <th>Matrix</th> <th>Suite B7</th> <th>Suite B7a</th> <th>Suite B15</th> <th>PAH</th> <th>Suite MR</th> <th>VOC</th> <th>PH</th> <th>PAHs 28 PAAS</th> <th>Suite RZ1</th> <th>Asbestos</th> <th>HOLD</th> <th>1LP</th> <th>250P</th> <th>125P</th> <th>1LA</th> <th>10L</th> <th>250mL</th> <th>Jar</th> <th>Bag</th> <th>Sample comments</th> </tr> </thead> <tbody> <tr><td>1</td><td>SB1/0-3</td><td>1/8/18</td><td>Soil</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>contact sample</td></tr> <tr><td>2</td><td>SB1/0-5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>contact sample</td></tr> <tr><td>3</td><td>SB1/0-4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>4</td><td>SB1/1-0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>5</td><td>SB1/1-25</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>6</td><td>SB1/1-1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>7</td><td>SB1/2-0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>8</td><td>SB1/2-8</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>9</td><td>SB1/3-2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>10</td><td>SB1/3-9</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>11</td><td>SB1/4-1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>12</td><td>SB1/4-8</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>13</td><td>SB1/5-1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>14</td><td>SB1/0-2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>15</td><td>SB1/0-5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>16</td><td>SB1/1-1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table> | | Sample ID | Date | Matrix | Suite B7 | Suite B7a | Suite B15 | PAH | Suite MR | VOC | PH | PAHs 28 PAAS | Suite RZ1 | Asbestos | HOLD | 1LP | 250P | 125P | 1LA | 10L | 250mL | Jar | Bag | Sample comments | 1 | SB1/0-3 | 1/8/18 | Soil | | | | | | | | | | | | | | | | | | | | contact sample | 2 | SB1/0-5 | | | | | | | | | | | | | | | | | | | | | | contact sample | 3 | SB1/0-4 | | | | | | | | | | | | | | | | | | | | | | | 4 | SB1/1-0 | | | | | | | | | | | | | | | | | | | | | | | 5 | SB1/1-25 | | | | | | | | | | | | | | | | | | | | | | | 6 | SB1/1-1 | | | | | | | | | | | | | | | | | | | | | | | 7 | SB1/2-0 | | | | | | | | | | | | | | | | | | | | | | | 8 | SB1/2-8 | | | | | | | | | | | | | | | | | | | | | | | 9 | SB1/3-2 | | | | | | | | | | | | | | | | | | | | | | | 10 | SB1/3-9 | | | | | | | | | | | | | | | | | | | | | | | 11 | SB1/4-1 | | | | | | | | | | | | | | | | | | | | | | | 12 | SB1/4-8 | | | | | | | | | | | | | | | | | | | | | | | 13 | SB1/5-1 | | | | | | | | | | | | | | | | | | | | | | | 14 | SB1/0-2 | | | | | | | | | | | | | | | | | | | | | | | 15 | SB1/0-5 | | | | | | | | | | | | | | | | | | | | | | | 16 | SB1/1-1 | | | | | | | | | | | | | | | | | | | | | | | Laboratory Staff: [Signature] Turn around time: 1 DAY, 2 DAY, 3 DAY, 4 DAY, 10 DAY, Other: [] Method Of Shipment: Courier, Hand Delivered, Postal, or Consignment [] Temperature on arrival: 4.43 Report number: 612025 |
| Sample ID | Date | Matrix | Suite B7 | Suite B7a | Suite B15 | PAH | Suite MR | VOC | PH | PAHs 28 PAAS | Suite RZ1 | Asbestos | HOLD | 1LP | 250P | 125P | 1LA | 10L | 250mL | Jar | Bag | Sample comments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | SB1/0-3 | 1/8/18 | Soil | | | | | | | | | | | | | | | | | | | | contact sample | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | SB1/0-5 | | | | | | | | | | | | | | | | | | | | | | contact sample | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | SB1/0-4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | SB1/1-0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | SB1/1-25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | SB1/1-1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | SB1/2-0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | SB1/2-8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | SB1/3-2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | SB1/3-9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | SB1/4-1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | SB1/4-8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | SB1/5-1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | SB1/0-2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | SB1/0-5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | SB1/1-1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

|  | | Sydny 1 F3 - 6 Building 7, 16 Mars Road, Lane Cove NSW 1500 Phone: +612 9900 8400 Fax: +612 9900 8400 Email: EnviroSampleNSW@eurofins.com.au | Brisbane Unit 1-21 Smallwood Place, Murrumbidgee QLD 4500 Phone: +617 3902 4600 Fax: +617 3902 4600 Email: EnviroSampleQLD@eurofins.com.au | Melbourne 2 Kingston Town Close, Oakleigh, VIC 3186 Phone: +613 8564 5000 Fax: +613 8564 5000 Email: EnviroSampleVic@eurofins.com.au | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| CHAIN OF CUSTODY RECORD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CLIENT DETAILS Company Name: TRACE Environment Office Address: 793-795 New Canterbury Road, Dulwich Hill, NSW. | | Contact Name: Jack Ellis Project Manager: AS COC PAGE 1 Email for results: | | Page: 1 of 1 Purchase Order: PROJECT Number: 1-16 PROJECT Name: Eurofins mt quote ID: 2015 Date output format: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Special Directions: Please email invoices to accounts@traceenviro.com & Proj Manager | | Analytes Sub B7 Sub B7a Sub B7S PAH Sub M8 VOC PH 28 PCAS Sub B21 Asbestos | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eurofins mgt DI water batch number: | | Some common holding times (with correct preservation). For further information contact the lab. <table border="1"> <thead> <tr> <th colspan="2">Waters</th> <th colspan="2">Soils</th> </tr> </thead> <tbody> <tr> <td>BTEX, MAH, VOC</td> <td>14 days</td> <td>BTEX, MAH, VOC</td> <td>14 days</td> </tr> <tr> <td>TRH, PAH, Phenols, Pe</td> <td>7 days</td> <td>TRH, PAH, Phenols, Pesticides</td> <td>14 days</td> </tr> <tr> <td>Heavy Metals</td> <td>6 months</td> <td>Heavy Metals</td> <td>6 months</td> </tr> <tr> <td>Mercury, CrVI</td> <td>28 days</td> <td>Mercury, CrVI</td> <td>28 days</td> </tr> <tr> <td>Microbiological testing</td> <td>24 hrs</td> <td>Microbiological testing</td> <td>72 hours</td> </tr> <tr> <td>BOD, Nitrate, Nitrite, To</td> <td>2 days</td> <td>Anions</td> <td>28 days</td> </tr> <tr> <td>Sulphide, TSS, TDS etc</td> <td>7 days</td> <td>SPOCAS, pH Field and FOX</td> <td>24 hours</td> </tr> <tr> <td>Ferrous iron</td> <td>7 days</td> <td>ASLP, TCLP</td> <td>7 days</td> </tr> </tbody> </table> | | | Waters | | Soils | | BTEX, MAH, VOC | 14 days | BTEX, MAH, VOC | 14 days | TRH, PAH, Phenols, Pe | 7 days | TRH, PAH, Phenols, Pesticides | 14 days | Heavy Metals | 6 months | Heavy Metals | 6 months | Mercury, CrVI | 28 days | Mercury, CrVI | 28 days | Microbiological testing | 24 hrs | Microbiological testing | 72 hours | BOD, Nitrate, Nitrite, To | 2 days | Anions | 28 days | Sulphide, TSS, TDS etc | 7 days | SPOCAS, pH Field and FOX | 24 hours | Ferrous iron | 7 days | ASLP, TCLP | 7 days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Waters | | Soils | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BTEX, MAH, VOC | 14 days | BTEX, MAH, VOC | 14 days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TRH, PAH, Phenols, Pe | 7 days | TRH, PAH, Phenols, Pesticides | 14 days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heavy Metals | 6 months | Heavy Metals | 6 months | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mercury, CrVI | 28 days | Mercury, CrVI | 28 days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Microbiological testing | 24 hrs | Microbiological testing | 72 hours | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BOD, Nitrate, Nitrite, To | 2 days | Anions | 28 days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sulphide, TSS, TDS etc | 7 days | SPOCAS, pH Field and FOX | 24 hours | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ferrous iron | 7 days | ASLP, TCLP | 7 days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Sample ID</th> <th>Date</th> <th>Matrix</th> <th>Sub B7</th> <th>Sub B7a</th> <th>Sub B7S</th> <th>PAH</th> <th>Sub M8</th> <th>VOC</th> <th>PH</th> <th>28 PCAS</th> <th>Sub B21</th> <th>Asbestos</th> <th>HOLD</th> <th>Containers:</th> <th>Sample comments:</th> </tr> <tr> <th>TLP</th> <th>250P</th> <th>125P</th> <th>1EA</th> <th>50mL</th> <th>250mL</th> <th>Jar</th> <th>Bag</th> <th colspan="8"></th> </tr> </thead> <tbody> <tr><td>1</td><td>SB11/1-6</td><td>1/8/18</td><td>Soil C</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>contact sample</td></tr> <tr><td>2</td><td>SB11/1-0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>contact sample</td></tr> <tr><td>3</td><td>SB11/2-0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>4</td><td>SB11/3-6</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>5</td><td>SB11/4-4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>6</td><td>SB11/5-0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>7</td><td>SB14/1-2</td><td>10/8/18</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>8</td><td>SB14/10-4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>9</td><td>SB14/16-8</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>10</td><td>SB14/17-2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>11</td><td>SB14/23-5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>12</td><td>SB14/3-2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>13</td><td>SB14/3-8</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>14</td><td>SB14/5-0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>15</td><td>SB14/16-0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>16</td><td>SB14/17-0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table> | | Sample ID | Date | Matrix | Sub B7 | Sub B7a | Sub B7S | PAH | Sub M8 | VOC | PH | 28 PCAS | Sub B21 | Asbestos | HOLD | Containers: | Sample comments: | TLP | 250P | 125P | 1EA | 50mL | 250mL | Jar | Bag | | | | | | | | | 1 | SB11/1-6 | 1/8/18 | Soil C | | | | | | | | | | | | contact sample | 2 | SB11/1-0 | | | | | | | | | | | | | | contact sample | 3 | SB11/2-0 | | | | | | | | | | | | | | | 4 | SB11/3-6 | | | | | | | | | | | | | | | 5 | SB11/4-4 | | | | | | | | | | | | | | | 6 | SB11/5-0 | | | | | | | | | | | | | | | 7 | SB14/1-2 | 10/8/18 | | | | | | | | | | | | | | 8 | SB14/10-4 | | | | | | | | | | | | | | | 9 | SB14/16-8 | | | | | | | | | | | | | | | 10 | SB14/17-2 | | | | | | | | | | | | | | | 11 | SB14/23-5 | | | | | | | | | | | | | | | 12 | SB14/3-2 | | | | | | | | | | | | | | | 13 | SB14/3-8 | | | | | | | | | | | | | | | 14 | SB14/5-0 | | | | | | | | | | | | | | | 15 | SB14/16-0 | | | | | | | | | | | | | | | 16 | SB14/17-0 | | | | | | | | | | | | | | |
| Sample ID | Date | Matrix | Sub B7 | Sub B7a | Sub B7S | PAH | Sub M8 | VOC | PH | 28 PCAS | Sub B21 | Asbestos | HOLD | Containers: | Sample comments: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TLP | 250P | 125P | 1EA | 50mL | 250mL | Jar | Bag | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | SB11/1-6 | 1/8/18 | Soil C | | | | | | | | | | | | contact sample | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | SB11/1-0 | | | | | | | | | | | | | | contact sample | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | SB11/2-0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | SB11/3-6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | SB11/4-4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | SB11/5-0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | SB14/1-2 | 10/8/18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | SB14/10-4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | SB14/16-8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | SB14/17-2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | SB14/23-5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | SB14/3-2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | SB14/3-8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | SB14/5-0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | SB14/16-0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | SB14/17-0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Requisitioner: Jack Ellis Date & Time: 13/8/18 Signature: [Signature] | | Received By: [Signature] Date & Time: 13/8/18 3:09pm Signature: [Signature] | | Turn around time: 1 DAY <input type="checkbox"/> 2 DAY <input type="checkbox"/> 3 DAY <input type="checkbox"/> 5 DAY <input type="checkbox"/> 10 DAY <input type="checkbox"/> Other <input type="checkbox"/> | Method Of Shipment: Courier <input type="checkbox"/> Hand Delivered <input type="checkbox"/> Postal <input type="checkbox"/> Courier Consignment <input type="checkbox"/> | Temperature on arrival: 14.3 Report number: 612025 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OIS3009_R1 Issue Date: 22 August 2013 Page 1 of 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

|  | | Sydney 3 F9 - 6 Building, 16 Mars Road, Lane Cove Phone: +612 9900 9400 Email: EnviroSampleNSW@eurofins.com.au | Brisbane Unit 1-21 Smallwood Place, Murrumbidgee Phone: +617 9902 4600 Email: EnviroSampleQLD@eurofins.com.au | Melbourne 2 Kingston Town Close, Oakleigh, VIC 3166 Phone: +613 8564 5000 Fax: +613 8564 5090 Email: EnviroSampleVic@eurofins.com.au | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| CHAIN OF CUSTODY RECORD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CLIENT DETAILS Company Name: TRACE Environment Office Address: 793-799 New Canterbury Road, Dulwich Hill, NSW | | Contact Name: Sidellus Project Manager: See COC Page 1 Email for results: | | Purchase Order: PROJECT Number: 1.16 PROJECT Name: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Special Directions Please email invoices to accounts@traceenviro.com & Proj Manager | | Analytes: | | Page 1 of 1 COC Number: 3076 Eurofins lot quote ID: see pg 2 Data output format: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eurofins (mg/l) water batch number: | | Some common holding times (with correct preservation). For further information contact the lab. | | Waters: BTEX, MAH, VOC: 14 days TRH, PAH, Phenols, PCB: 7 days Heavy Metals: 6 months Mercury, CrVI: 28 days Microbiological testing: 24 hours BOD, Nitrate, Nitrite, Total: 2 days Solids: TSS, TDS etc: 7 days Ferrous iron: 7 days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Sample ID</th> <th>Date</th> <th>Matrix</th> </tr> </thead> <tbody> <tr><td>1</td><td>SB17/0-0</td><td>10/8/18 Soil</td></tr> <tr><td>2</td><td>SB17/0-0</td><td></td></tr> <tr><td>3</td><td>SB17/0-0</td><td></td></tr> <tr><td>4</td><td>SB17/0-3</td><td></td></tr> <tr><td>5</td><td>SB17/0-5</td><td></td></tr> <tr><td>6</td><td>SB17/0-2</td><td></td></tr> <tr><td>7</td><td>SB17/0-5</td><td></td></tr> <tr><td>8</td><td>SB17/1-0</td><td></td></tr> <tr><td>9</td><td>SB17/1-3</td><td></td></tr> <tr><td>10</td><td>SB17/1-6</td><td></td></tr> <tr><td>11</td><td>SB17/1-9</td><td></td></tr> <tr><td>12</td><td>SB17/3-3</td><td></td></tr> <tr><td>13</td><td>SB17/6-0</td><td></td></tr> <tr><td>14</td><td>SB17/7-5</td><td></td></tr> <tr><td>15</td><td>SB17/9-0</td><td></td></tr> <tr><td>16</td><td>SB17/10-0</td><td></td></tr> </tbody> </table> | | Sample ID | Date | Matrix | 1 | SB17/0-0 | 10/8/18 Soil | 2 | SB17/0-0 | | 3 | SB17/0-0 | | 4 | SB17/0-3 | | 5 | SB17/0-5 | | 6 | SB17/0-2 | | 7 | SB17/0-5 | | 8 | SB17/1-0 | | 9 | SB17/1-3 | | 10 | SB17/1-6 | | 11 | SB17/1-9 | | 12 | SB17/3-3 | | 13 | SB17/6-0 | | 14 | SB17/7-5 | | 15 | SB17/9-0 | | 16 | SB17/10-0 | | Soils: BTEX, MAH, VOC: 14 days TRH, PAH, Phenols, Pesticides: 14 days Heavy Metals: 6 months Mercury, CrVI: 28 days Microbiological testing: 72 hours Anions: 28 days SPOCAS, pH Field and FOX: 24 hours ASLP, TCLP: 7 days | |
| Sample ID | Date | Matrix | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | SB17/0-0 | 10/8/18 Soil | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | SB17/0-0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | SB17/0-0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | SB17/0-3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | SB17/0-5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | SB17/0-2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | SB17/0-5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | SB17/1-0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | SB17/1-3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | SB17/1-6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | SB17/1-9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | SB17/3-3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | SB17/6-0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | SB17/7-5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | SB17/9-0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | SB17/10-0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Containers: 1LP, 250P, 125P, 1LA, 10mL, 25mL, Jar, B3g | | Sample comments: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished by: Jacchellus Date & Time: 13/8/18 Signature: Sidellus | | Received By: Ans. D Date & Time: 13/8/18 3:09PM Signature: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Laboratory Staff | | Turn around time: 1 DAY, 2 DAY, 3 DAY, 5 DAY, 10 DAY, Other | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Method Of Shipment: Courier, Hand Delivered, Postal, Courier Consignment | | Temperature on arrival: 14.3 Report number: 612025 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

|  | | Sydney 1/FB - 6 Building 16 Mars Road, Lane Cove ph: +612 9900 9400 email: EnviroSampleNSW@eurofins.com.au | Brisbane Unit 1-21 Smallwood Place, Murrumbidgee Phone: +617 9902 4600 Email: EnviroSampleQLD@eurofins.com.au | Melbourne 2 Kingston Town Close, Oakleigh, VIC 3186 Phone: +613 8564 5000 Fax: +613 8564 5090 Email: EnviroSampleVic@eurofins.com.au | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| CLIENT DETAILS: Page 1 of 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Company Name: TRACE Environmental | | Contact Name: <i>Sackellus</i> | | Purchase Order: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Office Address: 793-799 New Canterbury Road, Dulwich Hill, NSW | | Project Manager: | | PROJECT Number: <i>1-16</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Email for results: <i>See COC Page 1</i> | | PROJECT Name: | | Eurofins lot quote ID: <i>5016</i> Data output format: <i>Self</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Special Directions: Please email requests to accounts@traceenv.com.au & Project Manager | | Analytes | | Some common holding times (with correct preservation). For further information contact the lab. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1"> <tr><td>Sub B7</td><td>Sub B7A</td><td>Sub B7S</td><td>PAH</td><td>Sub M8</td><td>VOC</td><td>PH</td><td>98 PAHs</td><td>Sub R21</td><td>Asbestos</td></tr> </table> | | Sub B7 | Sub B7A | Sub B7S | PAH | Sub M8 | VOC | PH | 98 PAHs | Sub R21 | Asbestos | <table border="1"> <tr> <th colspan="2">Waters</th> <th colspan="2">Soils</th> </tr> <tr> <td>BTEX, MAH, VOC</td> <td>14 days</td> <td>BTEX, MAH, VOC</td> <td>14 days</td> </tr> <tr> <td>TRH, PAH, Phenols, Pb</td> <td>7 days</td> <td>TRH, PAH, Phenols, Pesticides</td> <td>14 days</td> </tr> <tr> <td>Heavy Metals</td> <td>6 months</td> <td>Heavy Metals</td> <td>6 months</td> </tr> <tr> <td>Mercury, CrVI</td> <td>28 days</td> <td>Mercury, CrVI</td> <td>28 days</td> </tr> <tr> <td>Microbiological testing</td> <td>24 hours</td> <td>Microbiological testing</td> <td>72 hours</td> </tr> <tr> <td>BOD, Nitrate, Nitrite, TSS</td> <td>2 days</td> <td>Aspites</td> <td>28 days</td> </tr> <tr> <td>Solids - TSS, TDS etc</td> <td>7 days</td> <td>SPOCAS, pH Field and FOX</td> <td>24 hours</td> </tr> <tr> <td>Ferrous iron</td> <td>7 days</td> <td>ASLR, TCLP</td> <td>7 days</td> </tr> </table> | | Waters | | Soils | | BTEX, MAH, VOC | 14 days | BTEX, MAH, VOC | 14 days | TRH, PAH, Phenols, Pb | 7 days | TRH, PAH, Phenols, Pesticides | 14 days | Heavy Metals | 6 months | Heavy Metals | 6 months | Mercury, CrVI | 28 days | Mercury, CrVI | 28 days | Microbiological testing | 24 hours | Microbiological testing | 72 hours | BOD, Nitrate, Nitrite, TSS | 2 days | Aspites | 28 days | Solids - TSS, TDS etc | 7 days | SPOCAS, pH Field and FOX | 24 hours | Ferrous iron | 7 days | ASLR, TCLP | 7 days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub B7 | Sub B7A | Sub B7S | PAH | Sub M8 | VOC | PH | 98 PAHs | Sub R21 | Asbestos | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Waters | | Soils | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BTEX, MAH, VOC | 14 days | BTEX, MAH, VOC | 14 days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TRH, PAH, Phenols, Pb | 7 days | TRH, PAH, Phenols, Pesticides | 14 days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heavy Metals | 6 months | Heavy Metals | 6 months | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mercury, CrVI | 28 days | Mercury, CrVI | 28 days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Microbiological testing | 24 hours | Microbiological testing | 72 hours | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BOD, Nitrate, Nitrite, TSS | 2 days | Aspites | 28 days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Solids - TSS, TDS etc | 7 days | SPOCAS, pH Field and FOX | 24 hours | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ferrous iron | 7 days | ASLR, TCLP | 7 days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eurofins mg/L DI water batch number: | | Containers: | | Sample comments: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Sample ID</th> <th>Date</th> <th>Matrix</th> <th>Sub B7</th> <th>Sub B7A</th> <th>Sub B7S</th> <th>PAH</th> <th>Sub M8</th> <th>VOC</th> <th>PH</th> <th>98 PAHs</th> <th>Sub R21</th> <th>Asbestos</th> <th>Hold</th> <th>TLP</th> <th>250P</th> <th>125P</th> <th>3LA</th> <th>10mL</th> <th>25mL</th> <th>Jar</th> <th>Bag</th> <th>Sample comments</th> </tr> </thead> <tbody> <tr><td>1</td><td>5/8/18</td><td>Soil</td><td>/</td><td>/</td><td>/</td><td>/</td><td>/</td><td>/</td><td>/</td><td>/</td><td>/</td><td>/</td><td>/</td><td>/</td><td>/</td><td>/</td><td>/</td><td>/</td><td>/</td><td>/</td><td>/</td><td>/</td><td>contact sample</td></tr> <tr><td>2</td><td>5/8/18</td><td>Soil</td><td>/</td><td>/</td><td>/</td><td>/</td><td>/</td><td>/</td><td>/</td><td>/</td><td>/</td><td>/</td><td>/</td><td>/</td><td>/</td><td>/</td><td>/</td><td>/</td><td>/</td><td>/</td><td>/</td><td>/</td><td>contact sample</td></tr> 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| / | / | / | / | / | / | / | / | / | / | / | / | | 4 | 5/8/18 | | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | 5 | 5/8/18 | | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | 6 | 5/8/18 | | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | 7 | 5/8/18 | | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | 8 | 5/8/18 | | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | 9 | 5/8/18 | | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | 10 | 5/8/18 | | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | 11 | 5/8/18 | | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | 12 | 5/8/18 | | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | 13 | 5/8/18 | | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | 14 | 5/8/18 | | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | 15 | 5/8/18 | | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | 16 | 5/8/18 | | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | Turn around time: | | Method Of Shipment: | | Temperature on arrival: |
| Sample ID | Date | Matrix | Sub B7 | Sub B7A | Sub B7S | PAH | Sub M8 | VOC | PH | 98 PAHs | Sub R21 | Asbestos | Hold | TLP | 250P | 125P | 3LA | 10mL | 25mL | Jar | Bag | Sample comments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 8 | 5/8/18 | | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 5/8/18 | | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 5/8/18 | | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | 5/8/18 | | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | 5/8/18 | | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | 5/8/18 | | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | 5/8/18 | | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | 5/8/18 | | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | 5/8/18 | | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished By: <i>Sackellus</i> | | Received By: <i>Elvis D</i> | | Courier: | | Report number: <i>A43</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Date & Time: <i>13/8/18 3:09pm</i> | | Date & Time: <i>13/8/18 3:09pm</i> | | Hand Delivered: | | Report number: <i>612025</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Signature: <i>Sackellus</i> | | Signature: <i>[Signature]</i> | | Postal: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | Other Consignment: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Alena Bounkeua

From: Nibha Vaidya
Sent: Tuesday, 14 August 2018 4:54 PM
To: Alena Bounkeua
Subject: FW: Eurofins | mgt - Report 612025 : Site MASCOT (1.16)
Attachments: 612025_COC.pdf; 612025_sample_receipt_coc.pdf; 612025_summary.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

From: Ken Henderson
Sent: Tuesday, 14 August 2018 4:52:53 PM (UTC+10:00) Canberra, Melbourne, Sydney
To: Nibha Vaidya
Cc: Jack Ellis
Subject: FW: Eurofins | mgt - Report 612025 : Site MASCOT (1.16)

EXTERNAL EMAIL*

Hi Nibha,

Can I please amend a few things for this job:

1. For all samples in which we have requested asbestos, we would like the NEPM/WA quantification method.
2. Please analyse metals (M8) for samples SB1/0.5, SB10/0.5, SB11/1.2 and SB14/1.2;
3. Please analyse NEPM Screen for Soil Classification for sample SB6/2.6;
4. Please analyse metals (M8) and PAHs for samples SB18/0.2, SB19/0.8 and SB20/0.3;
5. Please analyse Suite B7 for sample SB26/0.2;
6. Please analyse the trip blank and trip spike samples for vTPH & BTEXN.

Please also HOLD the PFAS analysis for sample SB27/0.5.

Finally, please FORWARD samples QS1A and QS2A to ALS for analysis of BTEXN/TRH, PAHs, and 8 metals. These were meant to be the triplicate samples and should not be analysed by Eurofins.

Thank you, please ring if any questions/issues.

Regards,
Ken



From: EnviroSampleNSW@eurofins.com <EnviroSampleNSW@eurofins.com>
Sent: Tuesday, 14 August 2018 3:54 PM
To: Jack Ellis <jack@traceenviro.com>
Cc: Ken Henderson <ken@traceenviro.com>
Subject: Eurofins | mgt - Report 612025 : Site MASCOT (1.16)

Dear Valued Client,

Jars not received for SB10/0.3(only asbestos analysis conducted) & SB10/0.5 (analysis conducted from bag). Jar not received for SB17/1.6. Trip spike and blank received and placed 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

Elvis Dsouza
Sample Receipt

Eurofins | mgt
 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 1076 - PFAS Biota](#)
[EnviroNote 1077 - Soil Vapour Sampling – NATA Accreditation](#)

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Alena Bounkeua

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Subject: FW: Eurofins | mgt - Report 612025 : Site MASCOT (1.16)
Attachments: 612025_COC.pdf; 612025_sample_receipt_coc.pdf; 612025_summary.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

From: Ken Henderson
Sent: Tuesday, 14 August 2018 4:52:53 PM (UTC+10:00) Canberra, Melbourne, Sydney
To: Nibha Vaidya
Cc: Jack Ellis
Subject: FW: Eurofins | mgt - Report 612025 : Site MASCOT (1.16)

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To: Jack Ellis <jack@traceenviro.com>
Cc: Ken Henderson <ken@traceenviro.com>
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Regards

Elvis Dsouza
Sample Receipt

Eurofins | mgt
 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 1076 - PFAS Biota](#)
[EnviroNote 1077 - Soil Vapour Sampling – NATA Accreditation](#)

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Certificate of Analysis

Trace Environmental P/L
 Shop 2, 7 3 7 New Canterbury Road
 Dulwich Hill
 NSW 2203



NATA Accredited
 Accreditation Number 1261
 Site Number 1 217

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: Ken Henderson
 Report 61242 S
 Project name MASCO T
 Project ID 1.1
 Received Date Aug 15 2018

| Client Sample ID | | | SB 6/2.0 | SB 6/4.0 | SB 6/ .0 | SB 13/0.3 | |
|---|-----|---------|-------------|-------------|-------------|-------------|-------|
| Sample Matrix | | | Soil | Soil | Soil | Soil | |
| Eurofins mgt Sample No. | | | S1 Au1 | S1 Au1 | 4 S1 | Au1 4 S1 | Au1 0 |
| Date Sampled | | | Aug 0 , 201 | Aug 0 , 201 | Aug 0 , 201 | Aug 13, 201 | |
| Test Reference | LOR | nit | | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | | | | |
| Ben o a pyrene T EQ lower bound | 0.5 | mg kg | | | | 0.5 | |
| Ben o a pyrene T EQ medium bound | 0.5 | mg kg | | | | 0. | |
| Ben o a pyrene T EQ 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 | |
| Ben a anthracene | 0.5 | mg kg | | | | 0.5 | |
| Ben o a pyrene | 0.5 | mg kg | | | | 0.5 | |
| Ben o b fluoranthene | 0.5 | mg kg | | | | 0.5 | |
| Ben o g,h,i perylene | 0.5 | mg kg | | | | 0.5 | |
| Ben o k fluoranthene | 0.5 | mg kg | | | | 0.5 | |
| Chrysene | 0.5 | mg kg | | | | 0.5 | |
| Diben 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, 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 | | | | | 101 | |
| p Terphenyl d1 surr. | 1 | | | | | | |
| Moisture | 1 | | | | | 11 | |
| Acid Sulfate Soils Field pH Test | | | | | | | |
| pH F Field pH test | 0.1 | pH nits | .8 | . | . | | |
| pH FOX Field pH Peroxide test | 0.1 | pH nits | 5. | . | . | | |
| Reaction Ratings ⁸⁵ | | comment | .0 | 1.0 | 1.0 | | |



| | | | | | | | |
|----------------------------------|------|---------|-------------|-------------|-------------|-------------|-----|
| Client Sample ID | | | SB 14/6.0 | SB 14/ .0 | SB 14/10.0 | SB 17/3. | |
| Sample Matrix | | | Soil | Soil | Soil | Soil | |
| Eurofins mgt Sample No. | | | S1 Au1 | 2 S1 Au1 | 3 S1 | Au1 4 S1 | Au1 |
| Date Sampled | | | Aug 10, 201 | Aug 10, 201 | Aug 10, 201 | Aug 10, 201 | |
| Test Reference | LO R | nit | | | | | |
| Acid Sulfate Soils Field pH Test | | | | | | | |
| pH F Field pH test | 0.1 | pH nits | . | . | . | 8.2 | |
| pH FOX Field pH Peroxide test | 0.1 | pH nits | . | 2. | .2 | . | |
| Reaction Ratings ⁹⁵ | | comment | 1.0 | .0 | .0 | .0 | |

| | | | | | | | |
|----------------------------------|------|---------|-------------|-------------|-------------|-------------|--------|
| Client Sample ID | | | SB 17/6.0 | SB 17/ .0 | SB 17/10.0 | SB 20/ .0 | |
| Sample Matrix | | | Soil | Soil | Soil | Soil | |
| Eurofins mgt Sample No. | | | S1 Au1 | 6 S1 Au1 | 7 S1 | Au1 | S1 Au1 |
| Date Sampled | | | Aug 10, 201 | Aug 10, 201 | Aug 10, 201 | Aug 0 , 201 | |
| Test Reference | LO R | nit | | | | | |
| Acid Sulfate Soils Field pH Test | | | | | | | |
| pH F Field pH test | 0.1 | pH nits | .5 | . | . | .2 | |
| pH FOX Field pH Peroxide test | 0.1 | pH nits | .8 | 2. | .0 | .1 | |
| Reaction Ratings ⁹⁵ | | comment | 2.0 | 2.0 | 2.0 | 2.0 | |

| | | | | | | | |
|--|------|-------|-------------|-------------|-------------|-------------|--------|
| Client Sample ID | | | SB 20/ .0 | SB 20/10.0 | SB 20/12.0 | SB 21/0.1 | |
| Sample Matrix | | | Soil | Soil | Soil | Soil | |
| Eurofins mgt Sample No. | | | S1 Au1 | 60 S1 Au1 | 61 S1 Au1 | 62 S1 | Au1 63 |
| Date Sampled | | | Aug 0 , 201 | Aug 0 , 201 | Aug 0 , 201 | Aug 13, 201 | |
| Test Reference | LO R | nit | | | | | |
| Total Recoverable Hydrocarbons 1 NEPM Fractions | | | | | | | |
| T RH C C | 20 | mg kg | | | | 20 | |
| T RH C10 C1 | 20 | mg kg | | | | 20 | |
| T RH C15 C28 | 50 | mg kg | | | | 50 | |
| T RH C2 C | 50 | mg kg | | | | 50 | |
| T RH C10 T otal | 50 | mg kg | | | | 50 | |
| B TEX | | | | | | | |
| Ben ene | 0.1 | mg kg | | | | 0.1 | |
| T oluene | 0.1 | mg kg | | | | 0.1 | |
| Ethylben ene | 0.1 | mg kg | | | | 0.1 | |
| m p X ylenes | 0.2 | mg kg | | | | 0.2 | |
| o X ylene | 0.1 | mg kg | | | | 0.1 | |
| X ylenes T otal | 0. | mg kg | | | | 0. | |
| Bromofluoroben ene surr. | 1 | | | | | 1 | |
| Total Recoverable Hydrocarbons 2013 NEPM Fractions | | | | | | | |
| Naphthalen ⁹² | 0.5 | mg kg | | | | 0.5 | |
| T RH C C10 | 20 | mg kg | | | | 20 | |
| T RH C C10 less BT EX ⁹⁰ F1 | 20 | mg kg | | | | 20 | |
| T RH C10 C1 | 50 | mg kg | | | | 50 | |
| T RH C10 C1 less Naphthalen ⁹¹ F2 | 50 | mg kg | | | | 50 | |
| T RH C1 C | 100 | mg kg | | | | 100 | |
| T RH C C 0 | 100 | mg kg | | | | 100 | |
| T RH C10 C 0 total | 100 | mg kg | | | | 100 | |



| Client Sample ID | | | SB 20/ .0 | SB 20/10.0 | SB 20/12.0 | SB 21/0.1 |
|---|-----|-------|-------------|-------------|-------------|-------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S1 Au1 | S1 Au1 | S1 Au1 | S1 Au1 |
| Date Sampled | | | Aug 0 , 201 | Aug 0 , 201 | Aug 0 , 201 | Aug 13, 201 |
| Test Reference | LOR | nit | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | | | |
| Ben o a pyrene T EQ lower bound | 0.5 | mg kg | | | | 0.5 |
| Ben o a pyrene T EQ medium bound | 0.5 | mg kg | | | | 0. |
| Ben o a pyrene T EQ 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 |
| Ben a anthracene | 0.5 | mg kg | | | | 0.5 |
| Ben o a pyrene | 0.5 | mg kg | | | | 0.5 |
| Ben o b fluoranthene | 0.5 | mg kg | | | | 0.5 |
| Ben o g,h,i perylene | 0.5 | mg kg | | | | 0.5 |
| Ben o k fluoranthene | 0.5 | mg kg | | | | 0.5 |
| Chrysene | 0.5 | mg kg | | | | 0.5 |
| Diben 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, 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 |
| T otal PAH | 0.5 | mg kg | | | | 0.5 |
| 2 Fluorobiphenyl surr. | 1 | | | | | 11 |
| p Terphenyl d1 surr. | 1 | | | | | 88 |
| Phenols (Halogenated) | | | | | | |
| 2 Chlorophenol | 0.5 | mg kg | | | | 0.5 |
| 2, Dichlorophenol | 0.5 | mg kg | | | | 0.5 |
| 2, .5 T richlorophenol | 1 | mg kg | | | | 1 |
| 2, . T richlorophenol | 1.0 | mg kg | | | | 1 |
| 2, Dichlorophenol | 0.5 | mg kg | | | | 0.5 |
| Chloro methylphenol | 1.0 | mg kg | | | | 1 |
| Pentachlorophenol | 1.0 | mg kg | | | | 1 |
| T etrachlorophenols T otal | 1.0 | mg kg | | | | 1 |
| T otal Halogenated Phenol | 1 | mg kg | | | | 1 |
| Phenols (non Halogenated) | | | | | | |
| 2 Cyclohexyl . dinitrophenol | 20 | mg kg | | | | 20 |
| 2 Methyl . dinitrophenol | 5 | mg kg | | | | 5 |
| 2 Methylphenol o Cresol | 0.2 | mg kg | | | | 0.2 |
| 2 Nitrophenol | 1.0 | mg kg | | | | 1 |
| 2, Dimethylphenol | 0.5 | mg kg | | | | 0.5 |
| 2, Dinitrophenol | 5 | mg kg | | | | 5 |
| Methylphenol m p Cresol | 0. | mg kg | | | | 0. |
| Nitrophenol | 5 | mg kg | | | | 5 |
| Dinoseb | 20 | mg kg | | | | 20 |
| Phenol | 0.5 | mg kg | | | | 0.5 |
| T otal Non Halogenated Phenol | 20 | mg kg | | | | 20 |
| Phenol d surr. | 1 | | | | | 122 |
| Moisture | | | | | | |
| | 1 | | | | | 5.5 |

Au1 63



| Client Sample ID | | | SB 20/ .0 | SB 20/10.0 | SB 20/12.0 | SB 21/0.1 | |
|---|-----|---------|-------------|-------------|-------------|-------------|--------|
| Sample Matrix | | | Soil | Soil | Soil | Soil | |
| Eurofins mgt Sample No. | | | S1 Au1 60 | S1 Au1 | 61 S1 Au1 | 62 S1 Au1 | Au1 63 |
| Date Sampled | | | Aug 0 , 201 | Aug 0 , 201 | Aug 0 , 201 | Aug 13, 201 | |
| Test Reference | LOR | nit | | | | | |
| Heavy Metals | | | | | | | |
| Arsenic | 2 | mg kg | | | | .8 | |
| Cadmium | 0. | mg kg | | | | 0. | |
| Chromium | 5 | mg kg | | | | 1 | |
| Copper | 5 | mg kg | | | | 220 | |
| Lead | 5 | mg kg | | | | 10 | |
| Mercury | 0.1 | mg kg | | | | 0.2 | |
| Nickel | 5 | mg kg | | | | 2 | |
| inc | 5 | mg kg | | | | 5 0 | |
| Acid Sulfate Soils Field pH Test | | | | | | | |
| pH F Field pH test | 0.1 | pH nits | .1 | .2 | .1 | | |
| pH FO X Field pH Peroxide test | 0.1 | pH nits | 2.2 | .2 | 2.8 | | |
| Reaction Ratings ⁹⁵ | | comment | 1.0 | 1.0 | .0 | | |

| Client Sample ID | | | SB 22/0.1 | SB 22/1.3 | SB 22/3.0 | SB 22/ .0 | |
|---|-----|-------|-------------|-------------|-------------|-------------|-------|
| Sample Matrix | | | Soil | Soil | Soil | Soil | |
| Eurofins mgt Sample No. | | | S1 Au1 6 | S1 Au1 | 66 S1 Au1 | 67 S1 Au1 | Au1 6 |
| Date Sampled | | | Aug 0 , 201 | |
| Test Reference | LOR | nit | | | | | |
| Total Recoverable Hydrocarbons 1 NEPM Fractions | | | | | | | |
| T RH C C | 20 | mg kg | | 20 | | | |
| T RH C10 C1 | 20 | mg kg | | 20 | | | |
| T RH C15 C28 | 50 | mg kg | | 50 | | | |
| T RH C2 C | 50 | mg kg | | 50 | | | |
| T RH C10 T otal | 50 | mg kg | | 50 | | | |
| B TEX | | | | | | | |
| Ben ene | 0.1 | mg kg | | 0.1 | | | |
| T oluene | 0.1 | mg kg | | 0.1 | | | |
| Ethylben ene | 0.1 | mg kg | | 0.1 | | | |
| m p X ylenes | 0.2 | mg kg | | 0.2 | | | |
| o X ylene | 0.1 | mg kg | | 0.1 | | | |
| X ylenes T otal | 0. | mg kg | | 0. | | | |
| Bromofluoroben ene surr. | 1 | | | 8 | | | |
| Total Recoverable Hydrocarbons 2013 NEPM Fractions | | | | | | | |
| Naphthalen ⁹² | 0.5 | mg kg | | 0.5 | | | |
| T RH C C10 | 20 | mg kg | | 20 | | | |
| T RH C C10 less BT EX ⁹⁰ F1 | 20 | mg kg | | 20 | | | |
| T RH C10 C1 | 50 | mg kg | | 50 | | | |
| T RH C10 C1 less Naphthalen ⁹¹ F2 | 50 | mg kg | | 50 | | | |
| T RH C1 C | 100 | mg kg | | 100 | | | |
| T RH C C 0 | 100 | mg kg | | 100 | | | |
| T RH C10 C 0 total | 100 | mg kg | | 100 | | | |
| Polycyclic Aromatic Hydrocarbons | | | | | | | |
| Ben o a pyrene T EQ lower bound | 0.5 | mg kg | | 0.5 | | | |
| Ben o a pyrene T EQ medium bound | 0.5 | mg kg | | 0. | | | |
| Ben o a pyrene T EQ 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 | | | SB 22/0.1 | SB 22/1.3 | SB 22/3.0 | SB 22/ .0 |
|---|------|-------|-------------|-------------|-------------|-------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S1 Au1 | S1 Au1 | 66 S1 | Au1 67 S1 |
| Date Sampled | | | Aug 0 , 201 |
| Test Reference | LOR | nit | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | | | |
| Ben a anthracene | 0.5 | mg kg | | 0.5 | | |
| Ben o a pyrene | 0.5 | mg kg | | 0.5 | | |
| Ben o b fluoranthene | 0.5 | mg kg | | 0.5 | | |
| Ben o g,h,i perylene | 0.5 | mg kg | | 0.5 | | |
| Ben o k fluoranthene | 0.5 | mg kg | | 0.5 | | |
| Chrysene | 0.5 | mg kg | | 0.5 | | |
| Diben 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, 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 | | |
| T otal PAH | 0.5 | mg kg | | 0.5 | | |
| 2 Fluorobiphenyl surr. | 1 | | | 101 | | |
| p Terphenyl d1 surr. | 1 | | | 80 | | |
| Organochlorine Pesticides | | | | | | |
| Chlordanes T otal | 0.1 | mg kg | | 0.1 | | |
| . DDD | 0.05 | mg kg | | 0.05 | | |
| . DDE | 0.05 | mg kg | | 0.05 | | |
| . DDT | 0.05 | mg kg | | 0.05 | | |
| a BHC | 0.05 | mg kg | | 0.05 | | |
| Aldrin | 0.05 | mg kg | | 0.05 | | |
| b BHC | 0.05 | mg kg | | 0.05 | | |
| d BHC | 0.05 | mg kg | | 0.05 | | |
| Dieldrin | 0.05 | mg kg | | 0.05 | | |
| Endosulfan I | 0.05 | mg kg | | 0.05 | | |
| Endosulfan II | 0.05 | mg kg | | 0.05 | | |
| Endosulfan sulphate | 0.05 | mg kg | | 0.05 | | |
| Endrin | 0.05 | mg kg | | 0.05 | | |
| Endrin aldehyde | 0.05 | mg kg | | 0.05 | | |
| Endrin ketone | 0.05 | mg kg | | 0.05 | | |
| g BHC Lindane | 0.05 | mg kg | | 0.05 | | |
| Heptachlor | 0.05 | mg kg | | 0.05 | | |
| Heptachlor epoxide | 0.05 | mg kg | | 0.05 | | |
| Hexachlorobene | 0.05 | mg kg | | 0.05 | | |
| Methoxychlor | 0.05 | mg kg | | 0.05 | | |
| T oxaphene | 1 | mg kg | | 1 | | |
| Aldrin and Dieldrin T otal | 0.05 | mg kg | | 0.05 | | |
| DDT DDE DDD T otal | 0.05 | mg kg | | 0.05 | | |
| V ic EPA IWRG 21 OCP T otal | 0.1 | mg kg | | 0.1 | | |
| V ic EPA IWRG 21 O ther OCP T otal | 0.1 | mg kg | | 0.1 | | |
| Dibutylchloro date surr. | 1 | | | 1 | | |
| T etrachloro m xylene surr. | 1 | | | 101 | | |
| Organophosphorus Pesticides | | | | | | |
| A inphos 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 | | | SB 22/0.1 | SB 22/1.3 | SB 22/3.0 | SB 22/ .0 | |
|------------------------------------|-----|-------|-------------|-------------|-------------|-------------|-------|
| Sample Matrix | | | Soil | Soil | Soil | Soil | |
| Eurofins mgt Sample No. | | | S1 Au1 | S1 Au1 | 66 S1 | Au1 67 S1 | Au1 6 |
| Date Sampled | | | Aug 0 , 201 | |
| Test Reference | LOR | nit | | | | | |
| 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 | | | | |
| Dia inon | 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 | | | | |
| O methoate | 2 | mg kg | 2 | | | | |
| Phorate | 0.2 | mg kg | 0.2 | | | | |
| Pirimiphos methyl | 0.2 | mg kg | 0.2 | | | | |
| Pyra ophos | 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 | | 10 | | | | |
| Polychlorinated Biphenyls | | | | | | | |
| Aroclor 101 | 0.1 | mg kg | 0.1 | | | | |
| Aroclor 1221 | 0.1 | mg kg | 0.1 | | | | |
| Aroclor 12 2 | 0.1 | mg kg | 0.1 | | | | |
| Aroclor 12 2 | 0.1 | mg kg | 0.1 | | | | |
| Aroclor 12 8 | 0.1 | mg kg | 0.1 | | | | |
| Aroclor 125 | 0.1 | mg kg | 0.1 | | | | |
| Aroclor 12 0 | 0.1 | mg kg | 0.1 | | | | |
| Total PCB | 0.1 | mg kg | 0.1 | | | | |
| Dibutylchloroendate surr. | 1 | | 1 | | | | |
| Tetrachloro m xylene surr. | 1 | | 101 | | | | |
| Phenols (Halogenated) | | | | | | | |
| 2 Chlorophenol | 0.5 | mg kg | | 0.5 | | | |
| 2, Dichlorophenol | 0.5 | mg kg | | 0.5 | | | |
| 2, .5 Trichlorophenol | 1 | mg kg | | 1 | | | |
| 2, . Trichlorophenol | 1.0 | mg kg | | 1 | | | |
| 2, Dichlorophenol | 0.5 | mg kg | | 0.5 | | | |
| Chloro methylphenol | 1.0 | mg kg | | 1 | | | |



| Client Sample ID | | | SB 22/0.1 Soil | SB 22/1.3 Soil | SB 22/3.0 Soil | SB 22/ .0 Soil |
|--|------|----------|-------------------|-------------------|-------------------|-------------------|
| Sample Matrix | | | S1 Au1 | S1 Au1 | 66 S1 | Au1 67 S1 |
| Eurofins mgt Sample No. | | | | | | |
| Date Sampled | | | Aug 0 , 201 |
| Test Reference | LO R | nit | | | | |
| Phenols (Halogenated) | | | | | | |
| Pentachlorophenol | 1.0 | mg kg | | 1 | | |
| Tetrachlorophenols Total | 1.0 | mg kg | | 1 | | |
| Total Halogenated Phenol | 1 | mg kg | | 1 | | |
| Phenols (non Halogenated) | | | | | | |
| 2-Cyclohexyl-dinitrophenol | 20 | mg kg | | 20 | | |
| 2-Methyl-dinitrophenol | 5 | mg kg | | 5 | | |
| 2-Methylphenol o-Cresol | 0.2 | mg kg | | 0.2 | | |
| 2-Nitrophenol | 1.0 | mg kg | | 1 | | |
| 2,4-Dimethylphenol | 0.5 | mg kg | | 0.5 | | |
| 2,6-Dinitrophenol | 5 | mg kg | | 5 | | |
| 2,4,6-Trinitrophenol m-p-Cresol | 0. | mg kg | | 0. | | |
| 3-Nitrophenol | 5 | mg kg | | 5 | | |
| Dinoseb | 20 | mg kg | | 20 | | |
| Phenol | 0.5 | mg kg | | 0.5 | | |
| Total Non-Halogenated Phenol | 20 | mg kg | | 20 | | |
| Phenol d. surr. | 1 | | | 112 | | |
| Physical Properties | | | | | | |
| Clay | 1 | | | 1 | | |
| Conductivity (1:5 aqueous extract at 25°C as rec.) | 10 | uS cm | | 10 | | |
| pH (units)(1:5 soil:CaCl2 extract at 25°C as rec.) | 0.1 | pH nits | | .2 | | |
| Total Organic Carbon | 0.1 | | | 0. | | |
| Moisture | 1 | | 11 | .2 | | |
| Heavy Metals | | | | | | |
| Arsenic | 2 | mg kg | | 2 | | |
| Cadmium | 0. | mg kg | | 0. | | |
| Chromium | 5 | mg kg | | 5 | | |
| Copper | 5 | mg kg | | . | | |
| Iron | 20 | mg kg | | 2 00 | | |
| Lead | 5 | mg kg | | 25 | | |
| Mercury | 0.1 | mg kg | | 0.1 | | |
| Nickel | 5 | mg kg | | 5 | | |
| Zinc | 5 | mg kg | | 2 0 | | |
| Other Parameters | | | | | | |
| Iron | 0.01 | | | 0.2 | | |
| Cation Exchange Capacity | | | | | | |
| Cation Exchange Capacity | 0.05 | meq 100g | | 11 | | |
| Acid Sulfate Soils Field pH Test | | | | | | |
| pH Field pH test | 0.1 | pH nits | | .1 | .0 | |
| pH FOX Field pH Peroxide test | 0.1 | pH nits | | 5.1 | . | |
| Reaction Ratings ⁸⁹⁵ | | comment | | .0 | 1.0 | |



| Client Sample ID | | | SB 22/6.0 | SB 22/7.0 | SB 26/2.0 | SB 26/4.0 | |
|---|------|-------|-------------|-------------|-------------|-------------|--------|
| Sample Matrix | | | Soil | Soil | Soil | Soil | |
| Eurofins mgt Sample No. | | | S1 Au1 | S1 Au1 | 70 S1 | Au1 71 S1 | Au1 72 |
| Date Sampled | | | Aug 0 , 201 | |
| Test Reference | LO R | nit | | | | | |
| Total Recoverable Hydrocarbons 1 NEPM Fractions | | | | | | | |
| T RH C C | 20 | mg kg | 20 | | | | |
| T RH C10 C1 | 20 | mg kg | 20 | | | | |
| T RH C15 C28 | 50 | mg kg | 50 | | | | |
| T RH C2 C | 50 | mg kg | 50 | | | | |
| T RH C10 T otal | 50 | mg kg | 50 | | | | |
| B TEX | | | | | | | |
| Ben ene | 0.1 | mg kg | 0.1 | | | | |
| T oluene | 0.1 | mg kg | 0.1 | | | | |
| Ethylben ene | 0.1 | mg kg | 0.1 | | | | |
| m p X ylenes | 0.2 | mg kg | 0.2 | | | | |
| o X ylene | 0.1 | mg kg | 0.1 | | | | |
| X ylenes T otal | 0. | mg kg | 0. | | | | |
| Bromofluoroben ene surr. | 1 | | | | | | |
| Total Recoverable Hydrocarbons 2013 NEPM Fractions | | | | | | | |
| Naphthalen ⁰² | 0.5 | mg kg | 0.5 | | | | |
| T RH C C10 | 20 | mg kg | 20 | | | | |
| T RH C C10 less BT EX ⁰⁰ F1 | 20 | mg kg | 20 | | | | |
| T RH C10 C1 | 50 | mg kg | 50 | | | | |
| T RH C10 C1 less Naphthalen ⁰⁰¹ F2 | 50 | mg kg | 50 | | | | |
| T RH C1 C | 100 | mg kg | 100 | | | | |
| T RH C C 0 | 100 | mg kg | 100 | | | | |
| T RH C10 C 0 total | 100 | mg kg | 100 | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | | | | |
| Ben o a pyrene T EQ lower bound | 0.5 | mg kg | 0.5 | | | | |
| Ben o a pyrene T EQ medium bound | 0.5 | mg kg | 0. | | | | |
| Ben o a pyrene T EQ 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 | | | | |
| Ben a anthracene | 0.5 | mg kg | 0.5 | | | | |
| Ben o a pyrene | 0.5 | mg kg | 0.5 | | | | |
| Ben o b fluoranthene | 0.5 | mg kg | 0.5 | | | | |
| Ben o g.h.i perylene | 0.5 | mg kg | 0.5 | | | | |
| Ben o k fluoranthene | 0.5 | mg kg | 0.5 | | | | |
| Chrysene | 0.5 | mg kg | 0.5 | | | | |
| Diben 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. 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 | | | | |
| T otal PAH | 0.5 | mg kg | 0.5 | | | | |
| 2 Fluorobiphenyl surr. | 1 | | | | | | |
| p Terphenyl d1 surr. | 1 | | 110 | | | | |
| Moisture | | | | | | | |
| | 1 | | 18 | | | | |



| | | | | | | | |
|---|------|---------|-------------|-------------|-------------|-------------|--------|
| Client Sample ID | | | SB 22/6.0 | SB 22/7.0 | SB 26/2.0 | SB 26/4.0 | |
| Sample Matrix | | | Soil | Soil | Soil | Soil | |
| Eurofins mgt Sample No. | | | S1 Au1 6 | S1 Au1 | 70 S1 | Au1 71 S1 | Au1 72 |
| Date Sampled | | | Aug 0 , 201 | |
| Test Reference | LO R | nit | | | | | |
| Heavy Metals | | | | | | | |
| Arsenic | 2 | mg kg | 2 | | | | |
| Cadmium | 0. | mg kg | 0. | | | | |
| Chromium | 5 | mg kg | 5 | | | | |
| Copper | 5 | mg kg | 5 | | | | |
| Lead | 5 | mg kg | 5 | | | | |
| Mercury | 0.1 | mg kg | 0.1 | | | | |
| Nickel | 5 | mg kg | 5 | | | | |
| inc | 5 | mg kg | .1 | | | | |
| Acid Sulfate Soils Field pH Test | | | | | | | |
| pH F Field pH test | 0.1 | pH nits | . | . | .1 | . | |
| pH FO X Field pH Peroxide test | 0.1 | pH nits | . | .5 | . | 5.1 | |
| Reaction Ratings ⁹⁵ | | comment | | 1.0 | 1.0 | 1.0 | |

| | | | | | | | |
|---|------|-------|-------------|-------------|-------------|-------------|--------|
| Client Sample ID | | | SB 26/6.0 | SB 26/ .0 | SB 26/10.0 | Q S3 | |
| Sample Matrix | | | Soil | Soil | Soil | Soil | |
| Eurofins mgt Sample No. | | | S1 Au1 73 | S1 Au1 | 74 S1 | Au1 7 S1 | Au1 77 |
| Date Sampled | | | Aug 10, 201 | Aug 10, 201 | Aug 10, 201 | Aug 13, 201 | |
| Test Reference | LO R | nit | | | | | |
| Total Recoverable Hydrocarbons 1 NEPM Fractions | | | | | | | |
| T RH C C | 20 | mg kg | | | | 20 | |
| T RH C10 C1 | 20 | mg kg | | | | 20 | |
| T RH C15 C28 | 50 | mg kg | | | | 50 | |
| T RH C2 C | 50 | mg kg | | | | 50 | |
| T RH C10 T otal | 50 | mg kg | | | | 50 | |
| B TEX | | | | | | | |
| Ben ene | 0.1 | mg kg | | | | 0.1 | |
| T oluene | 0.1 | mg kg | | | | 0.1 | |
| Ethylben ene | 0.1 | mg kg | | | | 0.1 | |
| m p X ylenes | 0.2 | mg kg | | | | 0.2 | |
| o X ylene | 0.1 | mg kg | | | | 0.1 | |
| X ylenes T otal | 0. | mg kg | | | | 0. | |
| Bromofluoroben ene surr. | 1 | | | | | | |
| Total Recoverable Hydrocarbons 2013 NEPM Fractions | | | | | | | |
| Naphthalen ⁹² | 0.5 | mg kg | | | | 0.5 | |
| T RH C C10 | 20 | mg kg | | | | 20 | |
| T RH C C10 less BT EX ⁹⁰ F1 | 20 | mg kg | | | | 20 | |
| T RH C10 C1 | 50 | mg kg | | | | 50 | |
| T RH C10 C1 less Naphthalen ⁹¹ F2 | 50 | mg kg | | | | 50 | |
| T RH C1 C | 100 | mg kg | | | | 100 | |
| T RH C C 0 | 100 | mg kg | | | | 100 | |
| T RH C10 C 0 total | 100 | mg kg | | | | 100 | |
| Polycyclic Aromatic Hydrocarbons | | | | | | | |
| Ben o a pyrene T EQ lower bound | 0.5 | mg kg | | | | 0.5 | |
| Ben o a pyrene T EQ medium bound | 0.5 | mg kg | | | | 0. | |
| Ben o a pyrene T EQ 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 | | | SB 26/6.0 | SB 26/ .0 | SB 26/10.0 | Q S3 |
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S1 Au1 73 | S1 Au1 | 74 S1 | Au1 7 S1 |
| Date Sampled | | | Aug 10, 201 | Aug 10, 201 | Aug 10, 201 | Aug 13, 201 |
| Test Reference | LO R | nit | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | | | |
| Ben a anthracene | 0.5 | mg kg | | | | 0.5 |
| Ben o a pyrene | 0.5 | mg kg | | | | 0.5 |
| Ben o b fluoranthene | 0.5 | mg kg | | | | 0.5 |
| Ben o g,h,i perylene | 0.5 | mg kg | | | | 0.5 |
| Ben o k fluoranthene | 0.5 | mg kg | | | | 0.5 |
| Chrysene | 0.5 | mg kg | | | | 0.5 |
| Diben 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. 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 | | | | | |
| p Terphenyl d1 surr. | 1 | | | | | 112 |
| Moisture | 1 | | | | | 1 |
| Heavy Metals | | | | | | |
| Arsenic | 2 | mg kg | | | | 2 |
| Cadmium | 0. | mg kg | | | | 0. |
| Chromium | 5 | mg kg | | | | 5 |
| Copper | 5 | mg kg | | | | 5 |
| Lead | 5 | mg kg | | | | 5 |
| Mercury | 0.1 | mg kg | | | | 0.1 |
| Nickel | 5 | mg kg | | | | 5 |
| inc | 5 | mg kg | | | | 11 |
| Acid Sulfate Soils Field pH Test | | | | | | |
| pH F Field pH test | 0.1 | pH nits | 5. | .8 | . | |
| pH FOX Field pH Peroxide test | 0.1 | pH nits | 2. | 2.8 | 2. | |
| Reaction Ratings ⁹⁵ | | comment | 2.0 | .0 | .0 | |

Au1 77

| | | | | | | |
|---|------|-------|-------------|-------------|-------------|-------------|
| Client Sample ID | | | SB 4/0.2 | SB 7/0.2 | SB /0.1 | SB /0.2 |
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S1 Au1 | 0 S1 Au1 | 1 S1 | Au1 2 S1 |
| Date Sampled | | | Aug 14, 201 | Aug 14, 201 | Aug 14, 201 | Aug 14, 201 |
| Test Reference | LO R | nit | | | | |
| Total Recoverable Hydrocarbons 1 NEPM Fractions | | | | | | |
| T RH C C | 20 | mg kg | 20 | 20 | 20 | 20 |
| T RH C10 C1 | 20 | mg kg | 120 | 22 | 20 | 20 |
| T RH C15 C28 | 50 | mg kg | 00 | 120 | 50 | 50 |
| T RH C2 C | 50 | mg kg | 10 | 1 0 | 50 | 5 |
| T RH C10 T otal | 50 | mg kg | 8 0 | 282 | 50 | 5 |
| B TEX | | | | | | |
| Ben ene | 0.1 | mg kg | 0.1 | 0.1 | 0.1 | 0.1 |
| T oluene | 0.1 | mg kg | 0.1 | 0. | 0.1 | 0.1 |
| Ethylben ene | 0.1 | mg kg | 0.1 | 0.1 | 0.1 | 0.1 |
| m p X ylenes | 0.2 | mg kg | 0.2 | 0.2 | 0.2 | 0.2 |

Au1 3



| Client Sample ID | | | SB 4/0.2 | SB 7/0.2 | SB /0.1 | SB /0.2 |
|--|------|-------|-------------|-------------|-------------|-------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S1 Au1 | 0 S1 Au1 | 1 S1 | Au1 2 S1 |
| Date Sampled | | | Aug 14, 201 | Aug 14, 201 | Aug 14, 201 | Aug 14, 201 |
| Test Reference | LO R | nit | | | | |
| B TEX | | | | | | |
| o Xylene | 0.1 | mg kg | 0.1 | 0.1 | 0.1 | 0.1 |
| Xylenes Total | 0. | mg kg | 0. | 0. | 0. | 0. |
| Bromofluorobene surr. | 1 | | 8 | 1 | 8 | 8 |
| Total Recoverable Hydrocarbons 2013 NEPM Fractions | | | | | | |
| Naphthalene ⁰² | 0.5 | mg kg | 0.5 | 0.5 | 0.5 | 0.5 |
| T RH C C10 | 20 | mg kg | 20 | 20 | 20 | 20 |
| T RH C C10 less BT EX ⁰⁰ F1 | 20 | mg kg | 20 | 20 | 20 | 20 |
| T RH C10 C1 | 50 | mg kg | 1 0 | 50 | 50 | 50 |
| T RH C10 C1 less Naphthalene ⁰¹ F2 | 50 | mg kg | 1 0 | 50 | 50 | 50 |
| T RH C1 C | 100 | mg kg | 80 | 2 0 | 100 | 100 |
| T RH C C 0 | 100 | mg kg | 150 | 110 | 100 | 100 |
| T RH C10 C 0 total | 100 | mg kg | 0 | 50 | 100 | 100 |
| Polycyclic Aromatic Hydrocarbons | | | | | | |
| Ben o a pyrene T EQ lower bound | 0.5 | mg kg | 0.5 | 0.8 | 0.5 | 0.5 |
| Ben o a pyrene T EQ medium bound | 0.5 | mg kg | 0. | 1.1 | 0. | 0. |
| Ben o a pyrene T EQ upper bound | 0.5 | mg kg | 1.2 | 1. | 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 |
| Ben a anthracene | 0.5 | mg kg | 0.5 | 0.5 | 0.5 | 0.5 |
| Ben o a pyrene | 0.5 | mg kg | 0.5 | 0. | 0.5 | 0.5 |
| Ben o b fluoranthene | 0.5 | mg kg | 0.5 | 0.5 | 0.5 | 0.5 |
| Ben o g,h,i perylene | 0.5 | mg kg | 0.5 | 0.8 | 0.5 | 0.5 |
| Ben o k fluoranthene | 0.5 | mg kg | 0.5 | 0. | 0.5 | 0.5 |
| Chrysene | 0.5 | mg kg | 0.5 | 0. | 0.5 | 0.5 |
| Diben a,h anthracene | 0.5 | mg kg | 0.5 | 0.5 | 0.5 | 0.5 |
| Fluoranthene | 0.5 | mg kg | 0.5 | 1.0 | 0.5 | 0.5 |
| Fluorene | 0.5 | mg kg | 0.5 | 0.5 | 0.5 | 0.5 |
| Indeno 1,2, cd pyrene | 0.5 | mg kg | 0.5 | 0. | 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 | 1.1 | 0.5 | 0.5 |
| Total PAH | 0.5 | mg kg | 0.5 | 5.8 | 0.5 | 0.5 |
| 2 Fluorobiphenyl surr. | 1 | | 80 | 12 | 122 | 11 |
| p Terphenyl d1 surr. | 1 | | 81 | 11 | 12 | 11 |
| Phenols (Halogenated) | | | | | | |
| 2 Chlorophenol | 0.5 | mg kg | 0.5 | 0.5 | 0.5 | 0.5 |
| 2,4 Dichlorophenol | 0.5 | mg kg | 0.5 | 0.5 | 0.5 | 0.5 |
| 2,4,6 Trichlorophenol | 1 | mg kg | 1 | 1 | 1 | 1 |
| 2,4,6 Trichlorophenol | 1.0 | mg kg | 1 | 1 | 1 | 1 |
| 2,4,6 Trichlorophenol | 0.5 | mg kg | 0.5 | 0.5 | 0.5 | 0.5 |
| Chloro methylphenol | 1.0 | mg kg | 1 | 1 | 1 | 1 |
| Pentachlorophenol | 1.0 | mg kg | 1 | 1 | 1 | 1 |
| Tetrachlorophenols Total | 1.0 | mg kg | 1 | 1 | 1 | 1 |
| Total Halogenated Phenol | 1 | mg kg | 1 | 1 | 1 | 1 |



| | | | | | | |
|------------------------------|------|-------|-------------|-------------|-------------|-------------|
| Client Sample ID | | | SB 4/0.2 | SB 7/0.2 | SB /0.1 | SB /0.2 |
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S1 Au1 | 0 S1 Au1 | 1 S1 | Au1 2 S1 |
| Date Sampled | | | Aug 14, 201 | Aug 14, 201 | Aug 14, 201 | Aug 14, 201 |
| Test Reference | LO R | nit | | | | |
| Phenols (non Halogenated) | | | | | | |
| 2 Cyclohexyl dinitrophenol | 20 | mg kg | 20 | 20 | 20 | 20 |
| 2 Methyl dinitrophenol | 5 | mg kg | 5 | 5 | 5 | 5 |
| 2 Methylphenol o Cresol | 0.2 | mg kg | 0.2 | 0.2 | 0.2 | 0.2 |
| 2 Nitrophenol | 1.0 | mg kg | 1 | 1 | 1 | 1 |
| 2 Dimethylphenol | 0.5 | mg kg | 0.5 | 0.5 | 0.5 | 0.5 |
| 2 Dinitrophenol | 5 | mg kg | 5 | 5 | 5 | 5 |
| Methylphenol m p Cresol | 0. | mg kg | 0. | 0. | 0. | 0. |
| Nitrophenol | 5 | mg kg | 5 | 5 | 5 | 5 |
| Dinoseb | 20 | mg kg | 20 | 20 | 20 | 20 |
| Phenol | 0.5 | mg kg | 0.5 | 0.5 | 0.5 | 0.5 |
| Total Non Halogenated Phenol | 20 | mg kg | 20 | 20 | 20 | 20 |
| Phenol d surr. | 1 | | 2 | 11 | 120 | 10 |
| Moisture | | | | | | |
| | 1 | | 1 | .1 | 2. | 11 |
| Heavy Metals | | | | | | |
| Arsenic | 2 | mg kg | 15 | 2 | .2 | .0 |
| Cadmium | 0. | mg kg | 0. | 0. | 0. | 0. |
| Chromium | 5 | mg kg | 1 | 120 | .5 | 12 |
| Copper | 5 | mg kg | | 5 | 1 | 18 |
| Lead | 5 | mg kg | 8 | 2 0 | | 2 |
| Mercury | 0.1 | mg kg | 0.1 | 0.1 | 0.1 | 0.1 |
| Nickel | 5 | mg kg | 8.5 | 1 0 | 1 | 11 |
| inc | 5 | mg kg | 220 | 1 00 | 2 0 | 1 |

| | | | | | | |
|--|------|-------|-------------|-------------|-------------|-------------|
| Client Sample ID | | | SB 23/0.4 | SB 24/0.3 | SB 2 /0.2 | SB 22/0. |
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | S1 Au1 | 4 S1 Au1 | S1 | Au1 6 S1 |
| Date Sampled | | | Aug 14, 201 | Aug 14, 201 | Aug 14, 201 | Aug 13, 201 |
| Test Reference | LO R | nit | | | | |
| Total Recoverable Hydrocarbons 1 NEPM Fractions | | | | | | |
| T R H C C | 20 | mg kg | 20 | 20 | 20 | |
| T R H C10 C1 | 20 | mg kg | 20 | 20 | 20 | |
| T R H C15 C28 | 50 | mg kg | 50 | 50 | 50 | |
| T R H C2 C | 50 | mg kg | 50 | 50 | 50 | |
| T R H C10 T otal | 50 | mg kg | 50 | 50 | 50 | |
| B TEX | | | | | | |
| Ben ene | 0.1 | mg kg | 0.1 | 0.1 | 0.1 | |
| T oluene | 0.1 | mg kg | 0.1 | 0.1 | 0.1 | |
| Ethylben ene | 0.1 | mg kg | 0.1 | 0.1 | 0.1 | |
| m p X ylenes | 0.2 | mg kg | 0.2 | 0.2 | 0.2 | |
| o X ylene | 0.1 | mg kg | 0.1 | 0.1 | 0.1 | |
| X ylenes T otal | 0. | mg kg | 0. | 0. | 0. | |
| Bromofluoroben ene surr. | 1 | | 8 | | 8 | |
| Total Recoverable Hydrocarbons 2013 NEPM Fractions | | | | | | |
| Naphthalen ⁸²² | 0.5 | mg kg | 0.5 | 0.5 | 0.5 | |
| T R H C C10 | 20 | mg kg | 20 | 20 | 20 | |
| T R H C C10 less B T E X ¹⁰⁰ F1 | 20 | mg kg | 20 | 20 | 20 | |
| T R H C10 C1 | 50 | mg kg | 50 | 50 | 50 | |



| | | | | | | | |
|--|------|-------|-------------|-------------|-------------|-------------|-----------|
| Client Sample ID | | | SB 23/0.4 | SB 24/0.3 | SB 2 /0.2 | SB 22/0. | |
| Sample Matrix | | | Soil | Soil | Soil | Soil | |
| Eurofins mgt Sample No. | | | S1 Au1 | 4 S1 Au1 | S1 | Au1 6 | S1 Au20 1 |
| Date Sampled | | | Aug 14, 201 | Aug 14, 201 | Aug 14, 201 | Aug 13, 201 | |
| Test Reference | LO R | nit | | | | | |
| Total Recoverable Hydrocarbons 2013 NEPM Fractions | | | | | | | |
| T RH C10 C1 less Naphthalen ^{sp1} F2 | 50 | mg kg | 50 | 50 | 50 | | |
| T RH C1 C | 100 | mg kg | 100 | 100 | 100 | | |
| T RH C C 0 | 100 | mg kg | 100 | 100 | 100 | | |
| T RH C10 C 0 total | 100 | mg kg | 100 | 100 | 100 | | |
| Polycyclic Aromatic Hydrocarbons | | | | | | | |
| Ben o a pyrene T EQ lower bound | 0.5 | mg kg | 0.5 | 0.5 | 0.5 | 0.5 | |
| Ben o a pyrene T EQ medium bound | 0.5 | mg kg | 0. | 0. | 0. | 0. | |
| Ben o a pyrene T EQ 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 | |
| Ben a anthracene | 0.5 | mg kg | 0.5 | 0.5 | 0.5 | 0.5 | |
| Ben o a pyrene | 0.5 | mg kg | 0.5 | 0.5 | 0.5 | 0.5 | |
| Ben o b fluoranthene | 0.5 | mg kg | 0.5 | 0.5 | 0.5 | 0.5 | |
| Ben o g,h,i perylene | 0.5 | mg kg | 0.5 | 0.5 | 0.5 | 0.5 | |
| Ben o 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 | |
| Diben 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. 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. | |
| Pyrene | 0.5 | mg kg | 0.5 | 0.5 | 0.5 | 0.5 | |
| T otal PAH | 0.5 | mg kg | 0.5 | 0.5 | 0.5 | 0. | |
| 2 Fluorobiphenyl surr. | 1 | | 100 | 11 | 11 | 105 | |
| p Terphenyl d1 surr. | 1 | | 105 | 12 | 128 | 121 | |
| Phenols (Halogenated) | | | | | | | |
| 2 Chlorophenol | 0.5 | mg kg | 0.5 | 0.5 | 0.5 | | |
| 2. Dichlorophenol | 0.5 | mg kg | 0.5 | 0.5 | 0.5 | | |
| 2. .5 T richlorophenol | 1 | mg kg | 1 | 1 | 1 | | |
| 2. . T richlorophenol | 1.0 | mg kg | 1 | 1 | 1 | | |
| 2. Dichlorophenol | 0.5 | mg kg | 0.5 | 0.5 | 0.5 | | |
| Chloro methylphenol | 1.0 | mg kg | 1 | 1 | 1 | | |
| Pentachlorophenol | 1.0 | mg kg | 1 | 1 | 1 | | |
| T etrachlorophenols T otal | 1.0 | mg kg | 1 | 1 | 1 | | |
| T otal Halogenated Phenol | 1 | mg kg | 1 | 1 | 1 | | |
| Phenols (non Halogenated) | | | | | | | |
| 2 Cyclohexyl . dinitrophenol | 20 | mg kg | 20 | 20 | 20 | | |
| 2 Methyl . dinitrophenol | 5 | mg kg | 5 | 5 | 5 | | |
| 2 Methylphenol o Cresol | 0.2 | mg kg | 0.2 | 0.2 | 0.2 | | |
| 2 Nitrophenol | 1.0 | mg kg | 1 | 1 | 1 | | |
| 2. Dimethylphenol | 0.5 | mg kg | 0.5 | 0.5 | 0.5 | | |
| 2. Dinitrophenol | 5 | mg kg | 5 | 5 | 5 | | |
| Methylphenol m p Cresol | 0. | mg kg | 0. | 0. | 0. | | |
| Nitrophenol | 5 | mg kg | 5 | 5 | 5 | | |
| Dinoseb | 20 | mg kg | 20 | 20 | 20 | | |
| Phenol | 0.5 | mg kg | 0.5 | 0.5 | 0.5 | | |
| T otal Non Halogenated Phenol | 20 | mg kg | 20 | 20 | 20 | | |
| Phenol d surr. | 1 | | 5 | 10 | 111 | | |



| | | | | | | | |
|-------------------------|------|-------|-------------|-------------|-------------|-------------|-----------|
| Client Sample ID | | | SB 23/0.4 | SB 24/0.3 | SB 2 /0.2 | SB 22/0. | |
| Sample Matrix | | | Soil | Soil | Soil | Soil | |
| Eurofins mgt Sample No. | | | S1 Au1 | 4 S1 Au1 | S1 | Au1 6 | S1 Au20 1 |
| Date Sampled | | | Aug 14, 201 | Aug 14, 201 | Aug 14, 201 | Aug 13, 201 | |
| Test Reference | LO R | nit | | | | | |
| Moisture | 1 | | . | .1 | . | .5 | |
| Heavy Metals | | | | | | | |
| Arsenic | 2 | mg kg | 2.0 | 2. | . | . | |
| Cadmium | 0. | mg kg | 0. | 0. | 0. | 0. | |
| Chromium | 5 | mg kg | 5 | 12 | 1 | 1 | |
| Copper | 5 | mg kg | 1 | 10 | 12 | 2 | |
| Lead | 5 | mg kg | | 50 | | 150 | |
| Mercury | 0.1 | mg kg | 0.1 | 0.1 | 0.1 | 0.1 | |
| Nickel | 5 | mg kg | .1 | 1 | 12 | 12 | |
| Inc | 5 | mg kg | 200 | 1 0 | 520 | 10 | |



Sample History

Where samples are submitted analysed over several days the last date of extraction and analysis is reported.
 A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this some of the method reference information on reports has changed. However no substantive change has been made to our laboratory methods and as such there is no change in the validity of current or previous results regarding both quality and NAT A accreditation.
 If the date and time of sampling are not provided the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

| Description | Testing Site | Extracted | Holding Time |
|---|--------------|-------------|--------------|
| Eurofins mgt Suite B A | | | |
| Total Recoverable Hydrocarbons 1 NEPM Fractions | Melbourne | Aug 21 2018 | 1 Day |
| Method: LT M ORG 2010 T RH C C | | | |
| BT EX | Melbourne | Aug 21 2018 | 1 Day |
| Method: T RH C C 0 LT M ORG 2010 | | | |
| Total Recoverable Hydrocarbons 201 NEPM Fractions | Melbourne | Aug 21 2018 | 1 Day |
| Method: T RH C C 0 LT M ORG 2010 | | | |
| Total Recoverable Hydrocarbons 201 NEPM Fractions | Melbourne | Aug 21 2018 | 1 Day |
| Method: T RH C C 0 LT M ORG 2010 | | | |
| Polycyclic Aromatic Hydrocarbons | Melbourne | Aug 21 2018 | 1 Day |
| Method: LT M ORG 21 0 PAH and Phenols in Soil and Water | | | |
| Phenols Halogenated | Melbourne | Aug 21 2018 | 1 Days |
| Method: LT M ORG 21 0 PAH and Phenols in Soil and Water | | | |
| Phenols non Halogenated | Melbourne | Aug 21 2018 | 1 Day |
| Method: LT M ORG 21 0 PAH and Phenols in Soil and Water | | | |
| Metals M8 | Melbourne | Aug 21 2018 | 28 Days |
| Method: LT M MET 0 0 Metals in Waters Soils Sediments by ICP MS | | | |
| Eurofins mgt Suite B15 | | | |
| Organochlorine Pesticides | Melbourne | Aug 20 2018 | 1 Day |
| Method: LT M ORG 2220 O CP PCB in Soil and Water | | | |
| Organophosphorus Pesticides | Melbourne | Aug 20 2018 | 1 Day |
| Method: LT M ORG 2200 O rganophosphorus Pesticides by GC MS | | | |
| Polychlorinated Biphenyls | Melbourne | Aug 20 2018 | 28 Days |
| Method: LT M ORG 2220 O CP PCB in Soil and Water | | | |
| NEPM Screen for Soil Classification | | | |
| Clay | Brisbane | Aug 20 2018 | Day |
| Method: LT M GEN 0 0 | | | |
| Conductivity (1:5 aqueous extract at 25°C as rec.) | Melbourne | Aug 20 2018 | Day |
| Method: LT M INO 0 0 Conductivity | | | |
| pH (units)(1:5 soil:CaCl2 extract at 25°C as rec.) | Melbourne | Aug 20 2018 | Day |
| Method: LT M GEN 0 0 pH in soil by ISE | | | |
| Total Organic Carbon | Melbourne | Aug 21 2018 | 28 Day |
| Method: APHA 5 10B Total Organic Carbon | | | |
| Heavy Metals | Melbourne | Aug 20 2018 | 180 Day |
| Method: LT M MET 0 0 Metals in Waters Soils Sediments by ICP MS | | | |
| Cation Exchange Capacity | Melbourne | Aug 21 2018 | 180 Days |
| Method: LT M MET 0 0 Cation Exchange Capacity by bases Exchangeable Sodium Percentage | | | |
| Moisture | Melbourne | Aug 1 2018 | 1 Day |
| Method: LT M GEN 080 Moisture | | | |
| Acid Sulfate Soils Field pH Test | Brisbane | Aug 20 2018 | Day |
| Method: LT M GEN 0 0 | | | |



ABN: 50 005 085 524
email: EnviroSales@eurofins.com
web: www.eurofins.com.au
MAJOR OFFICES:
 25 King Street, Level 10, Sydney NSW 2000
 122 Victoria Road, Brisbane QLD 4000
 122 Victoria Road, Perth WA 6000
SPINOFFS:
 1 More Road, Newcastle NSW 2088
 122 Victoria Road, Perth WA 6000
REGISTRATION:
 1 21 Smallwood Place, Murrumbidgee NSW 2510
 122 Victoria Road, Perth WA 6000
SALES:
 1 Leach Highway, Kewdale WA 6105
 122 Victoria Road, Perth WA 6000

Company Name: Trace Environmental P L
Address: Shop 2, Dutwich Hill, New Canterbury Road, NSW 220
Project Name: MASCO T
Project ID: 1,1
Order No.: 12 28
Report : 02 B 0 0555
Phone: 02 8 0 0555
Fax:
Received: Aug 15 2018 5: 1 PM
Due: Aug 2 2018
Priority: 5 Day
Contact Name: Ken Henderson
Project Manager: Nibha Vaidya

| No | Sample ID | Sample Date | Sampling Time | Matrix | LAB ID |
|----|-----------|-------------|---------------|--------|-------------|
| 1 | SB 2.0 | Aug 0 2018 | | Soil | S18_Au188 |
| 2 | SB .0 | Aug 0 2018 | | Soil | S18_Au188 |
| | SB 5.0 | Aug 0 2018 | | Soil | S18_Au188 |
| | SB1 0. | Aug 1 2018 | | Soil | S18_Au18850 |
| 5 | SB1 .0 | Aug 10 2018 | | Soil | S18_Au18851 |
| | SB1 .0 | Aug 10 2018 | | Soil | S18_Au18852 |
| | SB1 8.0 | Aug 10 2018 | | Soil | S18_Au1885 |
| 8 | SB1 10.0 | Aug 10 2018 | | Soil | S18_Au1885 |
| | SB1 .8 | Aug 10 2018 | | Soil | S18_Au18855 |

| Sample Detail | Asbestos | WA guidelines | CANCELLED | HOLD | HOLD | Polycyclic Aromatic Hydrocarbons | Metals M8 | Eurofins mgt Suite B15 | Moisture Set | Acid Sulfate Soils Field pH Test | NEPM Screen for Soil Classification | Eurofins mgt Suite B | Eurofins mgt Suite B A |
|---|----------|---------------|-----------|------|------|----------------------------------|-----------|------------------------|--------------|----------------------------------|-------------------------------------|----------------------|------------------------|
| Melbourne Laboratory NATA Site 12 4 & 14271 | X | | X | | | | | X | X | | X | X | X |
| Sydney Laboratory NATA Site 1 217 | | | | | | | | | | X | | X | X |
| Brisbane Laboratory NATA Site 207 4 | | | | X | | | | | | | | | |
| Perth Laboratory NATA Site 23736 | | | | | | | | | | | | | |
| External Laboratory | | | | | | | | | | | | | |



ABL - 60 095 085 924
 email : EnviroSales_eurofins.com
 web : www.eurofins.com.au

MARLBOROUGH
 2 5 Kingstons Town Close
 Oatridge VIC 3085 5000
 NAT A 12 1 2 1
 Site 1 2 1

Sydney
 1 More Road NSW 2012
 Phone : 12 00 8 00
 NAT A 12 1 Site 20

MURRUMBidgegon
 1 21 Smallwood Place
 Murrumbidgegon NSW 2510
 Phone : 12 00 8 00
 NAT A 12 1 Site 20

Perth
 2 1 Leach Highway
 Kewdale WA 6105
 Phone : 12 00 8 00
 NAT A 12 1 Site 2

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Eurofins mgt Analytical Services Manager : Nibha V aldiya

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|---|----------|---------------|-----------|------|------|----------------------------------|-----------|------------------------|--------------|-----------------------------------|-------------------------------------|----------------------|------------------------|
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| Sydney Laboratory NATA Site 1 217 | | | | | | | | | | | | | |
| Brisbane Laboratory NATA Site 207 4 | | | | | | | | | | | | | |
| Perth Laboratory NATA Site 23736 | | | | | | | | | | | | | |
| 10 SB1 .0 Aug 10 2018 Soil | | | | | | | | | | | | | |
| 11 SB1 8.0 Aug 10 2018 Soil | | | | | | | | | | | | | |
| 12 SB1 10.0 Aug 10 2018 Soil | | | | | | | | | | | | | |
| 1 SB20 5.0 Aug 08 2018 Soil | | | | | | | | | | | | | |
| 1 SB20 8.0 Aug 08 2018 Soil | | | | | | | | | | | | | |
| 15 SB20 10.0 Aug 08 2018 Soil | | | | | | | | | | | | | |
| 1 SB20 12.0 Aug 08 2018 Soil | | | | | | | | | | | | | |
| 1 SB21 0.15 Aug 1 2018 Soil | | | | | | | | | | | | | |
| 18 SB21 0.1 Aug 08 2018 Soil | | | | | | | | | | | | | |
| 1 SB22 0.1 Aug 08 2018 Soil | | | | | | | | | | | | | |
| 20 SB22 1. Aug 08 2018 Soil | | | | | | | | | | | | | |
| 21 SB22 .0 Aug 08 2018 Soil | | | | | | | | | | | | | |



Melbourne
 25 King Street, Level 10
 Melbourne VIC 3000
 Australia
 Phone: +61 3 9595 5941
 Fax: +61 3 9595 5942
 Email: sales@eurofins.com.au
 Website: www.eurofins.com.au

Sydney
 11 Macquarie Street
 Sydney NSW 2000
 Australia
 Phone: +61 2 9230 0000
 Fax: +61 2 9230 0001
 Email: sales@eurofins.com.au
 Website: www.eurofins.com.au

Perth
 121 Smallwood Place
 Murdoch WA 6150
 Australia
 Phone: +61 8 9447 1200
 Fax: +61 8 9447 1201
 Email: sales@eurofins.com.au
 Website: www.eurofins.com.au

Company Name: Trace Environmental P L
Address: Shop 2, Dutwich Hill, New Canterbury Road, NSW 2200
Project Name: MASCO T
Project ID: 1,1

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Report : 02 B
Phone: 0 0555
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Received: Aug 15 2018 5: 1 PM
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Service: mgt Analytical Services Manager : Nibha Valiya

| Sample Detail | Asbestos | CANCELLED | HOLD | HOLD | Polycyclic Aromatic Hydrocarbons | Metals M8 | Eurofins mgt Suite B15 | Moisture Set | Acid Sulfate Soils Field pH Test | NEPM Screen for Soil Classification | Eurofins mgt Suite B | Eurofins mgt Suite B A |
|---|----------|-----------|------|------|----------------------------------|-----------|------------------------|--------------|----------------------------------|-------------------------------------|----------------------|------------------------|
| Melbourne Laboratory NATA Site 12 4 & 14271 | X | X | | | | | | | | | | |
| Sydney Laboratory NATA Site 1 217 | | | | | | | | | | | | |
| Brisbane Laboratory NATA Site 207 4 | | | | | | | | | | | | |
| Perth Laboratory NATA Site 23736 | | | | | | | | | | | | |
| 22 SB22 5.0 Aug 08 2018 Soil | | | | | | | | | | | | |
| 2 SB22 .0 Aug 08 2018 Soil | | | | | | | | | | | | |
| 2 SB22 .0 Aug 08 2018 Soil | | | | | | | | | | | | |
| 25 SB2 2.0 Aug 08 2018 Soil | | | | | | | | | | | | |
| 2 SB2 .0 Aug 08 2018 Soil | | | | | | | | | | | | |
| 2 SB2 .0 Aug 10 2018 Soil | | | | | | | | | | | | |
| 28 SB2 8.0 Aug 10 2018 Soil | | | | | | | | | | | | |
| 2 SB2 10.0 Aug 10 2018 Soil | | | | | | | | | | | | |
| 0 QA1 Aug 1 2018 Soil | | | | | | | | | | | | |
| 1 QS Aug 1 2018 Soil | | | | | | | | | | | | |
| 2 RB2 Aug 1 2018 Water | | | | | | | | | | | | |
| RB Aug 1 2018 Water | | | | | | | | | | | | |



ABL-60 095 085 934
 email: EnviroSales_eurofins.com
 web: www.eurofins.com.au

Melbourne
 2 5 Kingsten Town Close
 Oakleigh VIC 3166 5000
 Phone: 12 00 8 00 00
 NAT A 12 1 Site 20
 Site 1 2 1

Sydney
 1 More Road NSW 20
 Phone: 12 00 8 00 00
 NAT A 12 1 Site 20
 Site 1 2 1

Perth
 1 21 Smallwood Place
 Murrumbidgee NSW 2510
 Phone: 12 00 8 00 00
 NAT A 12 1 Site 20
 Site 1 2 1

Company Name: **T race Environmental P L**
 Address: **Shop 2 New Canterbury Road**
Dutwich Hill
NSW 220

Project Name: **MASCO T**
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Eurofins mgt Analytical Services Manager : Nibha V aldy

| Sample Detail | | Asbestos WA guidelines | | CANCELLED | | HOLD | | HOLD | | Polycyclic Aromatic Hydrocarbons | | Metals M8 | | Eurofins mgt Suite B15 | | Moisture Set | | Acid Sulfate Soils Field pH T est | | NEPM Screen for Soil Classification | | Eurofins mgt Suite B | | Eurofins mgt Suite B A | | |
|----------------------|------------------------|------------------------|-------------|-----------|--|------|--|------|--|----------------------------------|--|-----------|--|------------------------|--|--------------|--|-----------------------------------|--|-------------------------------------|--|----------------------|--|------------------------|--|--|
| Melbourne Laboratory | NATA Site 12 4 & 14271 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sydney Laboratory | NATA Site 1 217 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brisbane Laboratory | NATA Site 207 4 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Perth Laboratory | NATA Site 23736 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 SB 0.2 | Aug 1 2018 | Soil | S18 Au18880 | X | | | | | | | | | | | | | | | | | | | | | | |
| 5 SB 0.25 | Aug 1 2018 | Soil | S18 Au18881 | X | | | | | | | | | | | | | | | | | | | | | | |
| SB 0.15 | Aug 1 2018 | Soil | S18 Au18882 | | | | | | | | | | | | | | | | | | | | | | | |
| 8 SB 0.25 | Aug 1 2018 | Soil | S18 Au18888 | X | | | | | | | | | | | | | | | | | | | | | | |
| 8 SB2 0. | Aug 1 2018 | Soil | S18 Au18888 | X | | | | | | | | | | | | | | | | | | | | | | |
| SB2 0. | Aug 1 2018 | Soil | S18 Au18885 | X | | | | | | | | | | | | | | | | | | | | | | |
| 0 SB25 0.25 | Aug 1 2018 | Soil | S18 Au18888 | X | | | | | | | | | | | | | | | | | | | | | | |
| 1 Q A2 | Aug 1 2018 | Soil | S18 Au18888 | X | | | | | | | | | | | | | | | | | | | | | | |
| 2 RB | Aug 1 2018 | Water | S18 Au18888 | | | | | | | | | | | | | | | | | | | | | | | |
| SB1 0.5 | Aug 0 2018 | Soil | S18 Au18888 | | | | | | | | | | | | | | | | | | | | | | | |
| SB 0. | Aug 0 2018 | Soil | S18 Au1888 | | | | | | | | | | | | | | | | | | | | | | | |
| 5 SB .0 | Aug 0 2018 | Soil | S18 Au188 1 | | | | | | | | | | | | | | | | | | | | | | | |



ABL-50 095 085 594
 email : EnviroSales_eurofins.com
 web : www.eurofins.com.au
Melbourne
 2 5 Kingsten Town Close
 Oakleigh VIC 3166 5000
 Phone : 12 00 8 00 00
 NAT A 12 1 Site 1821
Sydney
 1 Mare Road NSW 20
 Phone : 12 00 8 00 00
 NAT A 12 1 Site 1821
Brisbane
 1 21 Smallwood Place
 Murrumbidgee QLD 4000
 Phone : 12 00 8 00 00
 NAT A 12 1 Site 20
Perth
 2 1 Leach Highway
 Kewdale WA 105
 Phone : 12 00 8 00 00
 NAT A 12 1 Site 2

Company Name: Trace Environmental P L
Address: Shop 2 New Canterbury Road
 Dutwich Hill NSW 220
Project Name: MASCO T
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Service: mgt Analytical Services Manager : Nibha V aldyia

| Sample Detail | | Asbestos WA guidelines | | CANCELLED | | HOLD | | Polycyclic Aromatic Hydrocarbons | | Metals M8 | | Eurofins mgt Suite B15 | | Moisture Set | | Acid Sulfate Soils Field pH T est | | NEPM Screen for Soil Classification | | Eurofins mgt Suite B | | Eurofins mgt Suite B A | |
|----------------------|------------------------|------------------------|-----|-----------|--|------|--|----------------------------------|--|-----------|--|------------------------|--|--------------|--|-----------------------------------|--|-------------------------------------|--|----------------------|--|------------------------|--|
| Melbourne Laboratory | NATA Site 12 4 & 14271 | | | | | | | | | | | | | | | | | | | | | | |
| Sydney Laboratory | NATA Site 1 217 | | | | | | | | | | | | | | | | | | | | | | |
| Brisbane Laboratory | NATA Site 207 4 | | | | | | | | | | | | | | | | | | | | | | |
| Perth Laboratory | NATA Site 23736 | | | | | | | | | | | | | | | | | | | | | | |
| 58 SB1 | .0 Aug 10 2018 | Soil | S18 | Aug 18 0 | | | | | | | | | | | | | | | | | | | |
| 5 SB1 | .0 Aug 10 2018 | Soil | S18 | Aug 18 05 | | | | | | | | | | | | | | | | | | | |
| 0 SB20 | 0 Aug 08 2018 | Soil | S18 | Aug 18 0 | | | | | | | | | | | | | | | | | | | |
| 1 SB20 | 1.0 Aug 08 2018 | Soil | S18 | Aug 18 0 | | | | | | | | | | | | | | | | | | | |
| 2 SB20 | 2.2 Aug 08 2018 | Soil | S18 | Aug 18 04 | | | | | | | | | | | | | | | | | | | |
| SB20 | 2 Aug 08 2018 | Soil | S18 | Aug 18 0 | | | | | | | | | | | | | | | | | | | |
| SB20 | .0 Aug 08 2018 | Soil | S18 | Aug 18 14 | | | | | | | | | | | | | | | | | | | |
| 5 SB20 | .0 Aug 08 2018 | Soil | S18 | Aug 18 11 | | | | | | | | | | | | | | | | | | | |
| SB20 | .0 Aug 08 2018 | Soil | S18 | Aug 18 12 | | | | | | | | | | | | | | | | | | | |
| SB20 | 11.0 Aug 08 2018 | Soil | S18 | Aug 18 1 | | | | | | | | | | | | | | | | | | | |
| 8 SB21 | 0.5 Aug 1 2018 | Soil | S18 | Aug 18 1 | | | | | | | | | | | | | | | | | | | |
| SB21 | 0.8 Aug 1 2018 | Soil | S18 | Aug 18 15 | | | | | | | | | | | | | | | | | | | |



ABRIL 50 005 085 594
 email : EnviroSales_eurofins.com
 web : www.eurofins.com.au
MALDEN 2 5 Kingstee T own Close
 O arlign V IC 85 5000
 NAT A 12 1 2 1
 Site 125 1 2 1
SPRINGWOOD 1 Merc Road NSW 20
 Phone : 12 00 8
 NAT A 12 1 Site 20
ROCKBANK 1 21 Smallwood Place
 Murrumbidgee Q LD 1 202
 NAT A 12 1 Site 20
ROCKBANK 2 1 Leach Highway
 K owdale WA 105
 NAT A 12 1
 Site 2

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Project Name: Eurofins mgt Analytical Services Manager : Nibha V aldiya

| Sample Detail | Asbestos | WA guidelines | CANCELLED | HOLD | HOLD | Polycyclic Aromatic Hydrocarbons | Metals M8 | Eurofins mgt Suite B15 | Moisture Set | Acid Sulfate Soils Field pH T est | NEPM Screen for Soil Classification | Eurofins mgt Suite B | Eurofins mgt Suite B A |
|---|----------|---------------|-----------|------|------|----------------------------------|-----------|------------------------|--------------|-----------------------------------|-------------------------------------|----------------------|------------------------|
| Melbourne Laboratory NATA Site 12 4 & 14271 | | | | | | | | | | | | | |
| Sydney Laboratory NATA Site 1 217 | | | | | | | | | | | | | |
| Brisbane Laboratory NATA Site 207 4 | | | | | | | | | | | | | |
| Perth Laboratory NATA Site 23736 | | | | | | | | | | | | | |
| 0 SB22 0. Aug 1 2018 | Soil | S18 Au18 1 | | | | | | | | | | | |
| 1 SB22 1.0 Aug 1 2018 | Soil | S18 Au18 1 | | | | | | | | | | | |
| 2 SB22 2.0 Aug 1 2018 | Soil | S18 Au18 1 | | | | | | | | | | | |
| SB22 2. Aug 1 2018 | Soil | S18 Au18 1 | | | | | | | | | | | |
| SB22 .0 Aug 1 2018 | Soil | S18 Au18 2 | | | | | | | | | | | |
| 5 SB2 0.2 Aug 1 2018 | Soil | S18 Au18 2 | | | | | | | | | | | |
| SB2 1.0 Aug 1 2018 | Soil | S18 Au18 2 | | | | | | | | | | | |
| SB2 .0 Aug 1 2018 | Soil | S18 Au18 2 | | | | | | | | | | | |
| 8 SB2 5.0 Aug 1 2018 | Soil | S18 Au18 2 | | | | | | | | | | | |
| SB2 .0 Aug 10 2018 | Soil | S18 Au18 2 | | | | | | | | | | | |
| 80 SB2 .0 Aug 10 2018 | Soil | S18 Au18 2 | | | | | | | | | | | |
| 81 SB2 0.2 Aug 08 2018 | Soil | S18 Au18 2 | | | | | | | | | | | |



Melbourne
 25 King Street Level 10
 Melbourne VIC 3000
 Australia
 Phone: +61 3 9595 5000
 Fax: +61 3 9595 5001
 Email: info@eurofins.com.au
 Website: www.eurofins.com.au

Sydney
 1 More Road
 Sydney NSW 2000
 Australia
 Phone: +61 2 9000 0000
 Fax: +61 2 9000 0001
 Email: info@eurofins.com.au
 Website: www.eurofins.com.au

Perth
 121 Smallwood Place
 Murdoch WA 6150
 Australia
 Phone: +61 8 9447 1200
 Fax: +61 8 9447 1201
 Email: info@eurofins.com.au
 Website: www.eurofins.com.au

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Project Name: MASCO T
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Order No.: 12 28
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Received: Aug 15 2018 5: 1 PM
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Service: mgmt Analytical Services Manager : Nibha Vaidya

| Sample Detail | Asbestos | WA guidelines | CANCELLED | HOLD | HOLD | Polycyclic Aromatic Hydrocarbons | Metals M8 | Eurofins mgt Suite B15 | Moisture Set | Acid Sulfate Soils Field pH Test | NEPM Screen for Soil Classification | Eurofins mgt Suite B | Eurofins mgt Suite B A |
|---|----------|---------------|-----------|------|------|----------------------------------|-----------|------------------------|--------------|----------------------------------|-------------------------------------|----------------------|------------------------|
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| Brisbane Laboratory NATA Site 207 4 | | | | | | | | | | | | | |
| Perth Laboratory NATA Site 23736 | | | | | | | | | | | | | |
| 82 SB2 1.0 Aug 08 2018 Soil | | S18 Au18 2 | | | | | | | | | | | |
| 8 SB2 .1 Aug 08 2018 Soil | | S18 Au18 2 | | | | | | | | | | | |
| 8 SB2 5.0 Aug 08 2018 Soil | | S18 Au18 0 | | | | | | | | | | | |
| 85 SB2 .0 Aug 08 2018 Soil | | S18 Au18 1 | | | | | | | | | | | |
| 8 SB2 0.2 Aug 1 2018 Soil | | S18 Au18 2 | | | | | | | | | | | |
| 8 SB22 0.5 Aug 1 2018 Soil | | S18 Au20518 X | | | | | | | | | | | |
| 88 SB8 0. Aug 1 2018 Soil | | S18 Au2051 X | | | | | | | | | | | |
| 8 SB1 1.2 Aug 10 2018 Soil | | S18 Au2052 X | | | | | | | | | | | |
| 0 SB20 .0 Aug 08 2018 Soil | | S18 Au2052 | | | | | | | | | | | |
| 1 SB20 .3 Aug 08 2018 Soil | | S18 Au2052 | | | | | | | | | | | |
| Test Counts | | | 12 | 2 | | | | | | | | | |



Internal Quality Control Review and Glossary

General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
- All soil results are reported on a dry basis unless otherwise stated.
 - All biota/food results are reported on a wet weight basis on the edible portion unless otherwise stated.
 - Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
 - SVOC analysis on waters are performed on homogenised unfiltered samples unless noted otherwise.
 - Samples were analysed on an as received basis.
- This report replaces any interim results previously issued.

Holding Times

Please refer to Sample Preservation and Container Guide for holding times Q S 001 .
 For samples received on the last day of holding time notification of testing requirements should have been received at least 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 days however for all other VOCs such as BTX or C10-TRH then the holding time is 1 days.
 NOTPH 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. |
| LCR | 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 deionised water. |
| 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 | Quality Systems Manual ver 5.1 US Department of Defense |
| 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 0 however the following acceptance guidelines are equally applicable:
 Results 10 times the LO R: No Limit
 Results between 10-20 times the LO R: RPD must lie between 0-50
 Results 20 times the LO R: RPD must lie between 0-100
 Surrogate Recoveries: Recoveries must lie between 50-150 Phenols PFASs
 PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in Q SM 5.1 where no positive PFAS results have been reported have been reviewed and no data was affected.
 WADWER n 10 : PFBA PFPeA PFHxA PFHpA PFOA PFBS PFHxS PFO S :2 FT SA 8:2 FT SA

QC Data General Comments

- Where a result is reported as a less than higher than the nominated LO R 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.
- Duplicate data shown within this report that states the word "BAT CH" 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.
 - Organochlorine Pesticide analysis where reporting LCS data Toxaphene Chlordane are not added to the LCS.
 - Organochlorine Pesticide analysis where reporting Spike data Toxaphene is not added to the Spike.
- Total Recoverable Hydrocarbons where reporting Spike LCS data a single spike of commercial Hydrocarbon products in the range of C12-C20 is added and it's Total Recovery is reported in the C10-C11 cell of the Report.
 - pH and Free Chlorine analysed in the laboratory Analysis on this test must begin within 0 minutes of sampling. Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
 - Recovery Data Spikes Surrogates where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
- Polychlorinated Biphenyls are spiked only using Aroclor 1200 in Matrix Spikes and LCS.
 - For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
- 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 B blank | | | | | |
| Total Recoverable Hydrocarbons 1 NEPM Fractions | | | | | |
| T RH C C | mg kg | 20 | 20 | Pass | |
| T RH C10 C1 | mg kg | 20 | 20 | Pass | |
| T RH C15 C28 | mg kg | 50 | 50 | Pass | |
| T RH C2 C | mg kg | 50 | 50 | Pass | |
| Method B blank | | | | | |
| B TEX | | | | | |
| Ben ene | mg kg | 0.1 | 0.1 | Pass | |
| T oluene | mg kg | 0.1 | 0.1 | Pass | |
| Ethylben ene | mg kg | 0.1 | 0.1 | Pass | |
| m p X ylenes | mg kg | 0.2 | 0.2 | Pass | |
| o X ylene | mg kg | 0.1 | 0.1 | Pass | |
| X ylenes T otal | mg kg | 0. | 0. | Pass | |
| Method B blank | | | | | |
| Total Recoverable Hydrocarbons 2013 NEPM Fractions | | | | | |
| Naphthalene | mg kg | 0.5 | 0.5 | Pass | |
| T RH C C10 | mg kg | 20 | 20 | Pass | |
| T RH C10 C1 | mg kg | 50 | 50 | Pass | |
| T RH C1 C | mg kg | 100 | 100 | Pass | |
| T RH C C 0 | mg kg | 100 | 100 | Pass | |
| Method B 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 | |
| Ben a anthracene | mg kg | 0.5 | 0.5 | Pass | |
| Ben o a pyrene | mg kg | 0.5 | 0.5 | Pass | |
| Ben o b fluoranthene | mg kg | 0.5 | 0.5 | Pass | |
| Ben o g.h.i perylene | mg kg | 0.5 | 0.5 | Pass | |
| Ben o k fluoranthene | mg kg | 0.5 | 0.5 | Pass | |
| Chrysene | mg kg | 0.5 | 0.5 | Pass | |
| Diben 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, 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 B blank | | | | | |
| Organochlorine Pesticides | | | | | |
| Chlordanes T otal | mg kg | 0.1 | 0.1 | Pass | |
| . DDD | mg kg | 0.05 | 0.05 | Pass | |
| . DDE | mg kg | 0.05 | 0.05 | Pass | |
| . 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 | 0.05 | 0.05 | Pass | |
| Toxaphene | mg kg | 1 | 1 | Pass | |
| Method B 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 | |
| O methoate | mg kg | 2 | 2 | Pass | |
| Phorate | mg kg | 0.2 | 0.2 | Pass | |
| Pirimiphos methyl | mg kg | 0.2 | 0.2 | Pass | |
| Pyraophos | 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 | |
| Toxothion | mg kg | 0.2 | 0.2 | Pass | |
| Trichloronate | mg kg | 0.2 | 0.2 | Pass | |
| Method B blank | | | | | |
| Polychlorinated Biphenyls | | | | | |
| Aroclor 101 | mg kg | 0.1 | 0.1 | Pass | |
| Aroclor 1221 | mg kg | 0.1 | 0.1 | Pass | |
| Aroclor 12 2 | mg kg | 0.1 | 0.1 | Pass | |
| Aroclor 12 2 | mg kg | 0.1 | 0.1 | Pass | |
| Aroclor 12 8 | mg kg | 0.1 | 0.1 | Pass | |
| Aroclor 125 | mg kg | 0.1 | 0.1 | Pass | |



| Test | Units | Result 1 | Acceptance Limits | Pass Limits | Qualifying Code |
|--|----------|----------|-------------------|-------------|-----------------|
| Aroclor 12 0 | mg kg | 0.1 | 0.1 | Pass | |
| Total PCB | mg kg | 0.1 | 0.1 | Pass | |
| Method B Iank | | | | | |
| Phenols (Halogenated) | | | | | |
| 2 Chlorophenol | mg kg | 0.5 | 0.5 | Pass | |
| 2,4 Dichlorophenol | mg kg | 0.5 | 0.5 | Pass | |
| 2,4,6 Trichlorophenol | mg kg | 1 | 1 | Pass | |
| 2,4,6-Trichlorophenol | mg kg | 1 | 1.0 | Pass | |
| 2,4-Dichlorophenol | mg kg | 0.5 | 0.5 | Pass | |
| Chloro-methylphenol | mg kg | 1 | 1.0 | Pass | |
| Pentachlorophenol | mg kg | 1 | 1.0 | Pass | |
| Tetrachlorophenols Total | mg kg | 1 | 1.0 | Pass | |
| Method B Iank | | | | | |
| Phenols (non Halogenated) | | | | | |
| 2-Cyclohexyl-dinitrophenol | mg kg | 20 | 20 | Pass | |
| 2-Methyl-dinitrophenol | mg kg | 5 | 5 | Pass | |
| 2-Methylphenol o-Cresol | mg kg | 0.2 | 0.2 | Pass | |
| 2-Nitrophenol | mg kg | 1 | 1.0 | Pass | |
| 2,4-Dimethylphenol | mg kg | 0.5 | 0.5 | Pass | |
| 2,4-Dinitrophenol | mg kg | 5 | 5 | Pass | |
| Methylphenol m-p-Cresol | mg kg | 0.5 | 0.5 | Pass | |
| Nitrophenol | mg kg | 5 | 5 | Pass | |
| Dinoseb | mg kg | 20 | 20 | Pass | |
| Phenol | mg kg | 0.5 | 0.5 | Pass | |
| Method B Iank | | | | | |
| Clay | | 1 | 1 | Pass | |
| Total Organic Carbon | | 0.1 | 0.1 | Pass | |
| Method B Iank | | | | | |
| Heavy Metals | | | | | |
| Arsenic | mg kg | 2 | 2 | Pass | |
| Cadmium | mg kg | 0.1 | 0.1 | Pass | |
| Chromium | mg kg | 5 | 5 | Pass | |
| Copper | mg kg | 5 | 5 | Pass | |
| Iron | mg kg | 20 | 20 | Pass | |
| Lead | mg kg | 5 | 5 | Pass | |
| Mercury | mg kg | 0.1 | 0.1 | Pass | |
| Nickel | mg kg | 5 | 5 | Pass | |
| inc | mg kg | 5 | 5 | Pass | |
| Method B Iank | | | | | |
| Cation Exchange Capacity | | | | | |
| Cation Exchange Capacity | meq 100g | 0.05 | 0.05 | Pass | |
| LCS Recovery | | | | | |
| Total Recoverable Hydrocarbons 1 NEPM Fractions | | | | | |
| T RHC C | | 85 | 0 1 0 | Pass | |
| T RHC10 C1 | | 110 | 0 1 0 | Pass | |
| LCS Recovery | | | | | |
| B TEX | | | | | |
| Benzene | | 88 | 0 1 0 | Pass | |
| Toluene | | 5 | 0 1 0 | Pass | |
| Ethylbenzene | | 100 | 0 1 0 | Pass | |
| m-p Xylenes | | 5 | 0 1 0 | Pass | |
| Xylenes Total | | | 0 1 0 | Pass | |
| LCS Recovery | | | | | |
| Total Recoverable Hydrocarbons 2013 NEPM Fractions | | | | | |



| Test | Units | Result 1 | Acceptance Limits | Pass Limits | Qualifying Code |
|----------------------------------|-------|----------|-------------------|-------------|-----------------|
| Naphthalene | | | 0 1 0 | | Pass |
| T RH C C10 | | 81 | 0 1 0 | | Pass |
| T RH C10 C1 | | 12 | 0 1 0 | | Pass |
| LCS Recovery | | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | | |
| Acenaphthene | | 0 | 0 1 0 | | Pass |
| Acenaphthylene | | 0 | 0 1 0 | | Pass |
| Anthracene | | 8 | 0 1 0 | | Pass |
| Ben a anthracene | | 85 | 0 1 0 | | Pass |
| Ben o a pyrene | | 0 | 0 1 0 | | Pass |
| Ben o b fluoranthene | | 101 | 0 1 0 | | Pass |
| Ben o g,h,i perylene | | 88 | 0 1 0 | | Pass |
| Ben o k fluoranthene | | | 0 1 0 | | Pass |
| Chrysene | | 1 | 0 1 0 | | Pass |
| Diben a,h anthracene | | | 0 1 0 | | Pass |
| Fluoranthene | | 102 | 0 1 0 | | Pass |
| Fluorene | | 0 | 0 1 0 | | Pass |
| Indeno 1,2, cd pyrene | | | 0 1 0 | | Pass |
| Naphthalene | | | 0 1 0 | | Pass |
| Phenanthrene | | | 0 1 0 | | Pass |
| Pyrene | | 100 | 0 1 0 | | Pass |
| LCS Recovery | | | | | |
| Organochlorine Pesticides | | | | | |
| . DDD | | 10 | 0 1 0 | | Pass |
| . DDE | | 112 | 0 1 0 | | Pass |
| . DDT | | 2 | 0 1 0 | | Pass |
| a BHC | | 10 | 0 1 0 | | Pass |
| Aldrin | | 115 | 0 1 0 | | Pass |
| b BHC | | 112 | 0 1 0 | | Pass |
| d BHC | | 10 | 0 1 0 | | Pass |
| Dieldrin | | 11 | 0 1 0 | | Pass |
| Endosulfan I | | 115 | 0 1 0 | | Pass |
| Endosulfan II | | 105 | 0 1 0 | | Pass |
| Endosulfan sulphate | | 10 | 0 1 0 | | Pass |
| Endrin | | 120 | 0 1 0 | | Pass |
| Endrin aldehyde | | 10 | 0 1 0 | | Pass |
| Endrin ketone | | 102 | 0 1 0 | | Pass |
| g BHC Lindane | | 11 | 0 1 0 | | Pass |
| Heptachlor | | 10 | 0 1 0 | | Pass |
| Heptachlor epoxide | | 115 | 0 1 0 | | Pass |
| Hexachlorobenzene | | 11 | 0 1 0 | | Pass |
| Methoxychlor | | 8 | 0 1 0 | | Pass |
| LCS Recovery | | | | | |
| Organophosphorus Pesticides | | | | | |
| Diazinon | | 108 | 0 1 0 | | Pass |
| Dimethoate | | | 0 1 0 | | Pass |
| Ethion | | 12 | 0 1 0 | | Pass |
| Fenitrothion | | 102 | 0 1 0 | | Pass |
| Methyl parathion | | 11 | 0 1 0 | | Pass |
| Mevinphos | | 125 | 0 1 0 | | Pass |
| LCS Recovery | | | | | |
| Polychlorinated Biphenyls | | | | | |
| Aroclor 120 | | 100 | 0 1 0 | | Pass |
| LCS Recovery | | | | | |



| Test | Units | Result 1 | Acceptance Limits | Pass Limits | Q ualifying Code | | |
|---|---------------|----------------|-------------------|-------------|-------------------|-------------|------------------|
| Phenols (Halogenated) | | | | | | | |
| 2 Chlorophenol | | | 0 1 0 | Pass | | | |
| 2 Dichlorophenol | | | 0 1 0 | Pass | | | |
| 2 .5 T richlorophenol | | | 0 1 0 | Pass | | | |
| 2 . T richlorophenol | | 5 | 0 1 0 | Pass | | | |
| 2 Dichlorophenol | | 82 | 0 1 0 | Pass | | | |
| Chloro methylphenol | | 8 | 0 1 0 | Pass | | | |
| Pentachlorophenol | | 5 | 0 1 0 | Pass | | | |
| T etrachlorophenols T otal | | | 0 1 0 | Pass | | | |
| LCS Recovery | | | | | | | |
| Phenols (non Halogenated) | | | | | | | |
| 2 Methyl . dinitrophenol | | | 0 1 0 | Pass | | | |
| 2 Methylphenol o Cresol | | 8 | 0 1 0 | Pass | | | |
| 2 Nitrophenol | | 8 | 0 1 0 | Pass | | | |
| 2 Dimethylphenol | | | 0 1 0 | Pass | | | |
| 2 Dinitrophenol | | 1 | 0 1 0 | Pass | | | |
| Methylphenol m p Cresol | | 82 | 0 1 0 | Pass | | | |
| Nitrophenol | | 52 | 0 1 0 | Pass | | | |
| Dinoseb | | | 0 1 0 | Pass | | | |
| Phenol | | 88 | 0 1 0 | Pass | | | |
| LCS Recovery | | | | | | | |
| Clay | | 8 | 0 1 0 | Pass | | | |
| T otal O rganic Carbon | | 101 | 0 1 0 | Pass | | | |
| LCS Recovery | | | | | | | |
| Heavy Metals | | | | | | | |
| Arsenic | | 112 | 80 120 | Pass | | | |
| Cadmium | | 101 | 80 120 | Pass | | | |
| Chromium | | 100 | 80 120 | Pass | | | |
| Copper | | 11 | 80 120 | Pass | | | |
| Lead | | 11 | 80 120 | Pass | | | |
| Mercury | | 10 | 5 125 | Pass | | | |
| Nickel | | 11 | 80 120 | Pass | | | |
| inc | | 111 | 80 120 | Pass | | | |
| Test | Lab Sample ID | QA Source | Units | Result 1 | Acceptance Limits | Pass Limits | Q ualifying Code |
| Spike Recovery | | | | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | | | | |
| Acenaphthene | S18 Au2 2 | NCP | | 8 | 0 1 0 | Pass | |
| Acenaphthylene | S18 Au2 2 | NCP | | 8 | 0 1 0 | Pass | |
| Anthracene | S18 Au2 2 | NCP | | 8 | 0 1 0 | Pass | |
| Ben a anthracene | S18 Au2 2 | NCP | | 8 | 0 1 0 | Pass | |
| Ben o a pyrene | S18 Au2 2 | NCP | | | 0 1 0 | Pass | |
| Ben o b fluoranthene | S18 Au2 2 | NCP | | | 0 1 0 | Pass | |
| Ben o g,h,i perylene | S18 Au2 2 | NCP | | 1 | 0 1 0 | Pass | |
| Ben o k fluoranthene | S18 Au2 2 | NCP | | 8 | 0 1 0 | Pass | |
| Chrysene | S18 Au2 2 | NCP | | 8 | 0 1 0 | Pass | |
| Diben a,h anthracene | S18 Au2 2 | NCP | | 85 | 0 1 0 | Pass | |
| Fluoranthene | S18 Au2 2 | NCP | | | 0 1 0 | Pass | |
| Fluorene | S18 Au2 2 | NCP | | 2 | 0 1 0 | Pass | |
| Indeno 1,2 cd pyrene | S18 Au2 2 | NCP | | 1 | 0 1 0 | Pass | |
| Naphthalene | S18 Au2 2 | NCP | | 8 | 0 1 0 | Pass | |
| Phenanthrene | S18 Au2 2 | NCP | | 1 | 0 1 0 | Pass | |
| Pyrene | S18 Au2 2 | NCP | | 5 | 0 1 0 | Pass | |
| Spike Recovery | | | | | | | |
| Total Recoverable Hydrocarbons | 1 | NEPM Fractions | | Result 1 | | | |



| Test | Lab Sample ID | QA Source | Units | Result 1 | Acceptance Limits | Pass Limits | Qualifying Code |
|--|---------------|-----------|-------|----------|-------------------|-------------|-----------------|
| T RH C C | M18 Au22 80 | NCP | | 81 | 0 1 0 | | Pass |
| T RH C10 C1 | S18 Au188 | CP | | 105 | 0 1 0 | | Pass |
| Spike Recovery | | | | | | | |
| B TEX | | | | Result 1 | | | |
| Ben ene | M18 Au22 80 | NCP | | | 0 1 0 | | Pass |
| Toluene | M18 Au22 80 | NCP | | 85 | 0 1 0 | | Pass |
| Ethylben ene | M18 Au22 80 | NCP | | 8 | 0 1 0 | | Pass |
| m p Xylenes | M18 Au22 80 | NCP | | 1 | 0 1 0 | | Pass |
| o Xylene | M18 Au22 80 | NCP | | | 0 1 0 | | Pass |
| Xylenes Total | M18 Au22 80 | NCP | | 1 | 0 1 0 | | Pass |
| Spike Recovery | | | | | | | |
| Total Recoverable Hydrocarbons 2013 NEPM Fractions | | | | Result 1 | | | |
| Naphthalene | M18 Au22 80 | NCP | | | 0 1 0 | | Pass |
| T RH C C10 | M18 Au22 80 | NCP | | 8 | 0 1 0 | | Pass |
| T RH C10 C1 | S18 Au188 | CP | | 128 | 0 1 0 | | Pass |
| Spike Recovery | | | | | | | |
| Phenols (Halogenated) | | | | Result 1 | | | |
| 2 Chlorophenol | M18 Au222 | NCP | | 1 | 0 1 0 | | Pass |
| 2, Dichlorophenol | M18 Au222 | NCP | | 82 | 0 1 0 | | Pass |
| 2, .5 T richlorophenol | M18 Au222 | NCP | | 8 | 0 1 0 | | Pass |
| 2, . T richlorophenol | M18 Au222 | NCP | | 81 | 0 1 0 | | Pass |
| 2, Dichlorophenol | M18 Au222 | NCP | | 8 | 0 1 0 | | Pass |
| Chloro methylphenol | M18 Au222 | NCP | | 8 | 0 1 0 | | Pass |
| Pentachlorophenol | M18 Au222 | NCP | | 2 | 0 1 0 | | Pass |
| Tetrachlorophenols Total | M18 Au222 | NCP | | 8 | 0 1 0 | | Pass |
| Spike Recovery | | | | | | | |
| Phenols (non Halogenated) | | | | Result 1 | | | |
| 2 Methyl, . dinitrophenol | M18 Au22 | NCP | | 2 | 0 1 0 | | Pass |
| 2 Methylphenol o Cresol | M18 Au222 | NCP | | 82 | 0 1 0 | | Pass |
| 2 Nitrophenol | M18 Au222 | NCP | | 2 | 0 1 0 | | Pass |
| 2, Dimethylphenol | M18 Au222 | NCP | | 1 | 0 1 0 | | Pass |
| 2, Dinitrophenol | M18 Au222 | NCP | | 5 | 0 1 0 | | Pass |
| Methylphenol m p Cresol | M18 Au222 | NCP | | 8 | 0 1 0 | | Pass |
| Nitrophenol | M18 Au222 | NCP | | 5 | 0 1 0 | | Pass |
| Dinoseb | M18 Au222 | NCP | | 5 | 0 1 0 | | Pass |
| Phenol | M18 Au222 | NCP | | 122 | 0 1 0 | | Pass |
| Spike Recovery | | | | | | | |
| Heavy Metals | | | | Result 1 | | | |
| Arsenic | M18 Au21 1 | NCP | | 8 | 5 125 | | Pass |
| Cadmium | M18 Au21 1 | NCP | | 100 | 5 125 | | Pass |
| Chromium | M18 Au2 12 | NCP | | 10 | 5 125 | | Pass |
| Copper | M18 Au21 1 | NCP | | 111 | 5 125 | | Pass |
| Lead | M18 Au21 1 | NCP | | 10 | 5 125 | | Pass |
| Mercury | M18 Au21 1 | NCP | | 10 | 0 1 0 | | Pass |
| Nickel | M18 Au2 12 | NCP | | 102 | 5 125 | | Pass |
| inc | M18 Au21 1 | NCP | | 122 | 5 125 | | Pass |
| Spike Recovery | | | | | | | |
| Organochlorine Pesticides | | | | Result 1 | | | |
| . DDD | S18 Au2 85 | NCP | | | 0 1 0 | | Pass |
| . DDE | S18 Au2 85 | NCP | | 8 | 0 1 0 | | Pass |
| . DDT | S18 Au2 85 | NCP | | 82 | 0 1 0 | | Pass |
| a BHC | S18 Au2 85 | NCP | | 8 | 0 1 0 | | Pass |
| Aldrin | S18 Au2 85 | NCP | | 102 | 0 1 0 | | Pass |
| b BHC | S18 Au2 85 | NCP | | | 0 1 0 | | Pass |



| Test | Lab Sample ID | QA Source | Units | Result 1 | Result 2 | RPD | Acceptance Limits | Pass Limits | Q qualifying Code |
|--|---------------|-----------|---------|----------|----------|-----|-------------------|-------------|-------------------|
| d BHC | S18 Au2 85 | NCP | | 8 | | | 0 1 0 | 0 | Pass |
| Dieldrin | S18 Au2 85 | NCP | | 100 | | | 0 1 0 | 0 | Pass |
| Endosulfan I | S18 Au2 85 | NCP | | | | | 0 1 0 | 0 | Pass |
| Endosulfan II | S18 Au2 85 | NCP | | 8 | | | 0 1 0 | 0 | Pass |
| Endosulfan sulphate | S18 Au2 85 | NCP | | 8 | | | 0 1 0 | 0 | Pass |
| Endrin | S18 Au2 85 | NCP | | 128 | | | 0 1 0 | 0 | Pass |
| Endrin aldehyde | S18 Au2 85 | NCP | | 85 | | | 0 1 0 | 0 | Pass |
| Endrin ketone | S18 Au2 85 | NCP | | 8 | | | 0 1 0 | 0 | Pass |
| g BHC Lindane | S18 Au2 85 | NCP | | | | | 0 1 0 | 0 | Pass |
| Heptachlor | S18 Au2 85 | NCP | | | | | 0 1 0 | 0 | Pass |
| Heptachlor epoxide | S18 Au2 85 | NCP | | 8 | | | 0 1 0 | 0 | Pass |
| Hexachlorobenzene | S18 Au2 85 | NCP | | 100 | | | 0 1 0 | 0 | Pass |
| Methoxychlor | S18 Au2 85 | NCP | | | | | 0 1 0 | 0 | Pass |
| Spike Recovery | | | | | | | | | |
| Total Recoverable Hydrocarbons 1 NEPM Fractions | | | | Result 1 | | | | | |
| T RH C10 C1 | S18 Au188 | CP | | 80 | | | 0 1 0 | 0 | Pass |
| Spike Recovery | | | | | | | | | |
| Total Recoverable Hydrocarbons 2013 NEPM Fractions | | | | Result 1 | | | | | |
| T RH C10 C1 | S18 Au188 | CP | | | | | 0 1 0 | 0 | Pass |
| Test | Lab Sample ID | QA Source | Units | Result 1 | Result 2 | RPD | Acceptance Limits | Pass Limits | Q qualifying Code |
| Duplicate | | | | | | | | | |
| Acid Sulfate Soils Field pH Test | | | | Result 1 | Result 2 | RPD | | | |
| pH F Field pH test | S18 Au188 | CP | pH nits | 8 | | | pass | 0 | Pass |
| pH FOX Field pH Peroxide test | S18 Au188 | CP | pH nits | 5. | 5. | | pass | 0 | Pass |
| Reaction Ratings | S18 Au188 | CP | comment | .0 | .0 | | pass | 0 | Pass |
| Duplicate | | | | | | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | Result 1 | Result 2 | RPD | | | |
| Acenaphthene | S18 Au2 22 | NCP | mg kg | 0.5 | 0.5 | | 1 | 0 | Pass |
| Acenaphthylene | S18 Au2 22 | NCP | mg kg | 0.5 | 0.5 | | 1 | 0 | Pass |
| Anthracene | S18 Au2 22 | NCP | mg kg | 0.5 | 0.5 | | 1 | 0 | Pass |
| Ben a anthracene | S18 Au2 22 | NCP | mg kg | 0.5 | 0.5 | | 1 | 0 | Pass |
| Ben o a pyrene | S18 Au2 22 | NCP | mg kg | 0.5 | 0.5 | | 1 | 0 | Pass |
| Ben o b fluoranthene | S18 Au2 22 | NCP | mg kg | 0.5 | 0.5 | | 1 | 0 | Pass |
| Ben o g,h,i perylene | S18 Au2 22 | NCP | mg kg | 0.5 | 0.5 | | 1 | 0 | Pass |
| Ben o k fluoranthene | S18 Au2 22 | NCP | mg kg | 0.5 | 0.5 | | 1 | 0 | Pass |
| Chrysene | S18 Au2 22 | NCP | mg kg | 0.5 | 0.5 | | 1 | 0 | Pass |
| Diben a,h anthracene | S18 Au2 22 | NCP | mg kg | 0.5 | 0.5 | | 1 | 0 | Pass |
| Fluoranthene | S18 Au2 22 | NCP | mg kg | 0.5 | 0.5 | | 1 | 0 | Pass |
| Fluorene | S18 Au2 22 | NCP | mg kg | 0.5 | 0.5 | | 1 | 0 | Pass |
| Indeno 1,2, cd pyrene | S18 Au2 22 | NCP | mg kg | 0.5 | 0.5 | | 1 | 0 | Pass |
| Naphthalene | S18 Au2 22 | NCP | mg kg | 0.5 | 0.5 | | 1 | 0 | Pass |
| Phenanthrene | S18 Au2 22 | NCP | mg kg | 0.5 | 0.5 | | 1 | 0 | Pass |
| Pyrene | S18 Au2 22 | NCP | mg kg | 0.5 | 0.5 | | 1 | 0 | Pass |
| Duplicate | | | | | | | | | |
| Acid Sulfate Soils Field pH Test | | | | Result 1 | Result 2 | RPD | | | |
| pH F Field pH test | S18 Au1885 | CP | pH nits | .2 | | | pass | 0 | Pass |
| pH FOX Field pH Peroxide test | S18 Au1885 | CP | pH nits | .1 | .2 | | pass | 0 | Pass |
| Reaction Ratings | S18 Au1885 | CP | comment | 2.0 | 2.0 | | pass | 0 | Pass |
| Duplicate | | | | | | | | | |
| Total Recoverable Hydrocarbons 1 NEPM Fractions | | | | Result 1 | Result 2 | RPD | | | |
| T RH C10 C1 | M18 Au22555 | NCP | mg kg | 20 | 20 | | 1 | 0 | Pass |
| T RH C15 C28 | M18 Au22555 | NCP | mg kg | 110 | 10 | 20 | 0 | 0 | Pass |
| T RH C2 C | M18 Au22555 | NCP | mg kg | | 110 | 11 | 0 | 0 | Pass |



| Duplicate | | | | | | | | | | | | | |
|--|---------------------|-----------------|-----|---------|----------|----------|-----|-----|------|------|---|------|------|
| Total Recoverable Hydrocarbons 2013 NEPM Fractions | | | | | Result 1 | Result 2 | RPD | | | | | | |
| T RH | C10 | C1 | M18 | Au22555 | NCP | mg | kg | 50 | 50 | 1 | 0 | Pass | |
| T RH | C1 | C | M18 | Au22555 | NCP | mg | kg | 210 | 250 | 1 | 0 | Pass | |
| T RH | C | C 0 | M18 | Au22555 | NCP | mg | kg | 100 | 100 | 1 | 0 | Pass | |
| Duplicate | | | | | | | | | | | | | |
| Phenols (Halogenated) | | | | | Result 1 | Result 2 | RPD | | | | | | |
| 2 | Chlorophenol | | M18 | Au2225 | NCP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass | |
| 2 | Dichlorophenol | | M18 | Au2225 | NCP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass | |
| 2 | .5 T richlorophenol | | M18 | Au2225 | NCP | mg | kg | 1 | 1 | 1 | 0 | Pass | |
| 2 | . T richlorophenol | | M18 | Au2225 | NCP | mg | kg | 1 | 1 | 1 | 0 | Pass | |
| 2 | Dichlorophenol | | M18 | Au2225 | NCP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass | |
| | Chloro methylphenol | | M18 | Au2225 | NCP | mg | kg | 1 | 1 | 1 | 0 | Pass | |
| | Pentachlorophenol | | M18 | Au2225 | NCP | mg | kg | 1 | 1 | 1 | 0 | Pass | |
| | T etrachlorophenols | T total | M18 | Au2225 | NCP | mg | kg | 1 | 1 | 1 | 0 | Pass | |
| Duplicate | | | | | | | | | | | | | |
| Phenols (non Halogenated) | | | | | Result 1 | Result 2 | RPD | | | | | | |
| 2 | Cyclohexyl | . dinitrophenol | M18 | Au2225 | NCP | mg | kg | 20 | 20 | 1 | 0 | Pass | |
| 2 | Methyl | . dinitrophenol | M18 | Au2225 | NCP | mg | kg | 5 | 5 | 1 | 0 | Pass | |
| 2 | Methylphenol | o Cresol | M18 | Au2225 | NCP | mg | kg | 0.2 | 0.2 | 1 | 0 | Pass | |
| 2 | Nitrophenol | | M18 | Au2225 | NCP | mg | kg | 1 | 1 | 1 | 0 | Pass | |
| 2 | Dimethylphenol | | M18 | Au2225 | NCP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass | |
| 2 | Dinitrophenol | | M18 | Au2225 | NCP | mg | kg | 5 | 5 | 1 | 0 | Pass | |
| | Methylphenol | m p Cresol | M18 | Au2225 | NCP | mg | kg | 0. | 0. | 1 | 0 | Pass | |
| | Nitrophenol | | M18 | Au2225 | NCP | mg | kg | 5 | 5 | 1 | 0 | Pass | |
| | Dinoseb | | M18 | Au2225 | NCP | mg | kg | 20 | 20 | 1 | 0 | Pass | |
| | Phenol | | M18 | Au2225 | NCP | mg | kg | 0.5 | 0.5 | 1 | 0 | Pass | |
| Duplicate | | | | | | | | | | | | | |
| Organochlorine Pesticides | | | | | Result 1 | Result 2 | RPD | | | | | | |
| | Chlordanes | T total | S18 | Au188 | 5 | CP | mg | kg | 0.1 | 0.1 | 1 | 0 | Pass |
| | . DDD | | S18 | Au188 | 5 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| | . DDE | | S18 | Au188 | 5 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| | . DDT | | S18 | Au188 | 5 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| | a BHC | | S18 | Au188 | 5 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| | Aldrin | | S18 | Au188 | 5 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| | b BHC | | S18 | Au188 | 5 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| | d BHC | | S18 | Au188 | 5 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| | Dieldrin | | S18 | Au188 | 5 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| | Endosulfan I | | S18 | Au188 | 5 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| | Endosulfan II | | S18 | Au188 | 5 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| | Endosulfan sulphate | | S18 | Au188 | 5 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| | Endrin | | S18 | Au188 | 5 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| | Endrin aldehyde | | S18 | Au188 | 5 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| | Endrin ketone | | S18 | Au188 | 5 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| | g BHC | Lindane | S18 | Au188 | 5 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| | Heptachlor | | S18 | Au188 | 5 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| | Heptachlor epoxide | | S18 | Au188 | 5 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| | Hexachlorobene | | S18 | Au188 | 5 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| | Methoxychlor | | S18 | Au188 | 5 | CP | mg | kg | 0.05 | 0.05 | 1 | 0 | Pass |
| | T oxaphene | | S18 | Au188 | 5 | CP | mg | kg | 1 | 1 | 1 | 0 | Pass |
| Duplicate | | | | | | | | | | | | | |
| Polychlorinated Biphenyls | | | | | Result 1 | Result 2 | RPD | | | | | | |
| | Aroclor | 101 | S18 | Au188 | 5 | CP | mg | kg | 0.1 | 0.1 | 1 | 0 | Pass |
| | Aroclor | 1221 | S18 | Au188 | 5 | CP | mg | kg | 0.1 | 0.1 | 1 | 0 | Pass |
| | Aroclor | 12 2 | S18 | Au188 | 5 | CP | mg | kg | 0.1 | 0.1 | 1 | 0 | Pass |
| | Aroclor | 12 2 | S18 | Au188 | 5 | CP | mg | kg | 0.1 | 0.1 | 1 | 0 | Pass |



| Duplicate | | | | | | | | | | |
|--|-----|---------|----|-----|----------|----------|----------|------|---|------|
| Polychlorinated Biphenyls | | | | | | Result 1 | Result 2 | RPD | | |
| Aroclor 128 | S18 | Au188 | 5 | CP | mg/kg | 0.1 | 0.1 | 1 | 0 | Pass |
| Aroclor 125 | S18 | Au188 | 5 | CP | mg/kg | 0.1 | 0.1 | 1 | 0 | Pass |
| Aroclor 120 | S18 | Au188 | 5 | CP | mg/kg | 0.1 | 0.1 | 1 | 0 | Pass |
| Total PCB | S18 | Au188 | 5 | CP | mg/kg | 0.1 | 0.1 | 1 | 0 | Pass |
| Duplicate | | | | | | | | | | |
| Clay | | | | | | Result 1 | Result 2 | RPD | | |
| Clay | S18 | Au1 | 1 | NCP | | 1 | 1 | 1 | 0 | Pass |
| Duplicate | | | | | | | | | | |
| Conductivity 1:5 aqueous extract at 25°C as rec.) | | | | | | Result 1 | Result 2 | RPD | | |
| Conductivity 1:5 aqueous extract at 25°C as rec.) | M18 | Au22 | 05 | NCP | uS/cm | 10 | 00 | 2 | 0 | Pass |
| Total Organic Carbon | M18 | Au1 | | NCP | | . | . | . | 0 | Pass |
| Duplicate | | | | | | | | | | |
| Heavy Metals | | | | | | Result 1 | Result 2 | RPD | | |
| Iron | M18 | Au2 | 1 | NCP | mg/kg | 000 | 000 | 1 | 0 | Pass |
| Duplicate | | | | | | | | | | |
| Moisture | | | | | | Result 1 | Result 2 | RPD | | |
| Moisture | S18 | Au188 | | CP | | 18 | 18 | 2.0 | 0 | Pass |
| Duplicate | | | | | | | | | | |
| Acid Sulfate Soils Field pH Test | | | | | | Result 1 | Result 2 | RPD | | |
| pH Field pH test | S18 | Au188 | | CP | pH units | 8 | . | pass | 0 | Pass |
| pH FOX Field pH Peroxide test | S18 | Au188 | | CP | pH units | 2.8 | 2. | pass | 0 | Pass |
| Reaction Ratings | S18 | Au188 | | CP | comment | .0 | .0 | pass | 0 | Pass |
| Duplicate | | | | | | | | | | |
| Heavy Metals | | | | | | Result 1 | Result 2 | RPD | | |
| Arsenic | S18 | Au18881 | | CP | mg/kg | 2 | 2 | 1 | 0 | Pass |
| Cadmium | S18 | Au18881 | | CP | mg/kg | 0. | 0. | 1 | 0 | Pass |
| Chromium | S18 | Au18881 | | CP | mg/kg | 120 | 120 | 2.0 | 0 | Pass |
| Copper | S18 | Au18881 | | CP | mg/kg | 5 | 5 | 1.0 | 0 | Pass |
| Lead | S18 | Au18881 | | CP | mg/kg | 2.0 | 2.0 | 1 | 0 | Pass |
| Mercury | S18 | Au18881 | | CP | mg/kg | 0.1 | 0.1 | 1 | 0 | Pass |
| Nickel | S18 | Au18881 | | CP | mg/kg | 1.0 | 1.0 | 1.0 | 0 | Pass |
| inc | S18 | Au18881 | | CP | mg/kg | 1.00 | 1.00 | 1 | 0 | Pass |
| Duplicate | | | | | | | | | | |
| Total Recoverable Hydrocarbons 1 NEPM Fractions | | | | | | Result 1 | Result 2 | RPD | | |
| Total Recoverable Hydrocarbons 1 | S18 | Au1888 | | CP | mg/kg | 20 | 20 | 1 | 0 | Pass |
| Duplicate | | | | | | | | | | |
| BTEX | | | | | | Result 1 | Result 2 | RPD | | |
| Benzene | S18 | Au1888 | | CP | mg/kg | 0.1 | 0.1 | 1 | 0 | Pass |
| Toluene | S18 | Au1888 | | CP | mg/kg | 0.1 | 0.1 | 1 | 0 | Pass |
| Ethylbenzene | S18 | Au1888 | | CP | mg/kg | 0.1 | 0.1 | 1 | 0 | Pass |
| m,p-Xylenes | S18 | Au1888 | | CP | mg/kg | 0.2 | 0.2 | 1 | 0 | Pass |
| o-Xylene | S18 | Au1888 | | CP | mg/kg | 0.1 | 0.1 | 1 | 0 | Pass |
| Xylenes Total | S18 | Au1888 | | CP | mg/kg | 0. | 0. | 1 | 0 | Pass |
| Duplicate | | | | | | | | | | |
| Total Recoverable Hydrocarbons 2013 NEPM Fractions | | | | | | Result 1 | Result 2 | RPD | | |
| Total Recoverable Hydrocarbons 2013 | S18 | Au1888 | | CP | mg/kg | 0.5 | 0.5 | 1 | 0 | Pass |
| Naphthalene | S18 | Au1888 | | CP | mg/kg | 0.5 | 0.5 | 1 | 0 | Pass |
| Total Recoverable Hydrocarbons 2013 | S18 | Au1888 | | CP | mg/kg | 20 | 20 | 1 | 0 | Pass |
| Duplicate | | | | | | | | | | |
| Total Recoverable Hydrocarbons 1 NEPM Fractions | | | | | | Result 1 | Result 2 | RPD | | |
| Total Recoverable Hydrocarbons 1 | S18 | Au1888 | | CP | mg/kg | 20 | 20 | 1 | 0 | Pass |



| Duplicate | | | | | | | | | | | |
|--|-----|--------|----|-------|----------|----------|-----|---|------|--|--|
| B TEX | | | | | Result 1 | Result 2 | RPD | | | | |
| Ben ene | S18 | Au1888 | CP | mg kg | 0.1 | 0.1 | 1 | 0 | Pass | | |
| Toluene | S18 | Au1888 | CP | mg kg | 0.1 | 0.1 | 1 | 0 | Pass | | |
| Ethylben ene | S18 | Au1888 | CP | mg kg | 0.1 | 0.1 | 1 | 0 | Pass | | |
| m p X ylenes | S18 | Au1888 | CP | mg kg | 0.2 | 0.2 | 1 | 0 | Pass | | |
| o X ylene | S18 | Au1888 | CP | mg kg | 0.1 | 0.1 | 1 | 0 | Pass | | |
| X ylenes Total | S18 | Au1888 | CP | mg kg | 0. | 0. | 1 | 0 | Pass | | |
| Duplicate | | | | | | | | | | | |
| Total Recoverable Hydrocarbons 2013 NEPM Fractions | | | | | Result 1 | Result 2 | RPD | | | | |
| Naphthalene | S18 | Au1888 | CP | mg kg | 0.5 | 0.5 | 1 | 0 | Pass | | |
| T RHC C10 | S18 | Au1888 | CP | mg kg | 20 | 20 | 1 | 0 | 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 Holding Time | 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 C1 " 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. |
| N0 | F1 is determined by arithmetically subtracting the " Total BT EX " value from the " C C10 " value. The " Total BT EX " value is obtained by summing the concentrations of BT EX analytes. The " C C10 " value is obtained by quantitating against a standard of mixed aromatic aliphatic analytes. |
| N0 | 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 |
| S05 | Field Screen uses the following rating to classify the rate the samples reacted to the peroxide: 1.0 No reaction to slight. 2.0 Moderate reaction. .0 Strong reaction with persistent froth. .0 Extreme reaction. |

Authorised By

| | |
|------------------|-------------------------------|
| Nibha Vaidya | Analytical Services Manager |
| Alex Petridis | Senior Analyst Metal V IC |
| Harry Bacalis | Senior Analyst Volatile V IC |
| Jonathan Angell | Senior Analyst Inorganic Q LD |
| Joseph Edouard | Senior Analyst Organic V IC |
| Michael Brancati | Senior Analyst Inorganic V IC |
| Nibha Vaidya | Senior Analyst Asbestos NSW |



Glenn Jackson

National Operations Manager

~~Final report - This Report replaces any previously issued Report.~~

Indicates Not Requested

Indicates NAT A accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or [please see here](#).

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Certificate of Analysis



NATA Accredited
Accreditation Number 1201
Site Number 1 217

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.

Trace Environmental P/L
Shop 2, 7 3 7 New Canterbury Road
Dulwich Hill
NSW 2203

Attention: **Ken Henderson**
Report **12 28 AID**
Project Name **MASCO T**
Project ID **1.1**
Received Date **Aug 15 2018**
Date Reported **Aug 2 2018**

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 LT M 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, AS 9 requires that these are reported as MF 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 0 to 0g then a sub sampling routine based on ISO 082:2000 E is employed.
NOTE: Depending on the nature and size of the soil sample, the sub 2 mm residue material may need to be subsampled for trace analysis, in accordance with AS 9 200.

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 200.
NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos containing building 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 method for inhomogeneous samples is around 0.1 g/kg 0.01 w/w. If no asbestos is found by PLM and DS including Trace Analysis where required this is considered to be at the nominal reporting limit of 0.01 w/w. The examination of large sample sizes 500 mL is recommended may improve the likelihood of identifying ACM in the 2mm fraction. The NEPM screening level of 0.001 w/w asbestos in soil for FA friable asbestos and AF asbestos fines then applies where they are able to be quantified by gravimetric procedures. This quantitative screening is not generally applicable to FF free fibres and results of Trace Analysis are referred.
NOTE: NATA News March 2014, p.7, states in relation to AS4964: "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". Accordingly, NATA Accreditation does not cover the performance of this service (indicated with an asterisk). This report is consistent with the analytical procedures and reporting recommendations in the National Environment Protection (Assessment of Site Contamination) Measure, 2011 (as amended) and the National Environment Protection (Assessment, Remediation and Management of Asbestos Contaminated Sites in Eastern Australia, 2009, including supporting document Recommended Procedures for Laboratory Analysis of Asbestos in Soil, June 2011.



Project Name **MASCO T**
 Project ID **1.1**
 Date Sampled **Aug 08 2018 to Aug 1 2018**
 Report **12 28 AID**

| Client Sample ID | Eurofins Sample No. | Date Sampled | Sample Description | Result |
|------------------|---------------------|--------------|--|--|
| SB1 0. | 18 Au18850 | Aug 1 2018 | Approximate Sample 1 g Sample consisted of: Brown fine grained sandy soil | No asbestos detected at the reporting limit of 0.001 w w. Organic fibre detected. No respirable fibres detected. |
| SB21 0. | 18 Au188 | Aug 08 2018 | Approximate Sample 1 g Sample consisted of: Brown fine grained sandy soil and rocks | No asbestos detected at the reporting limit of 0.001 w w. Organic fibre detected. No respirable fibres detected. |
| Q A1 | 18 Au188 | Aug 1 2018 | Approximate Sample 28g 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 respirable fibres detected. |
| SB 0.2 | 18 Au18880 | Aug 1 2018 | Approximate Sample 251g Sample consisted of: Brown coarse grained soil and organic debris | No asbestos detected at the reporting limit of 0.001 w w. Organic fibre detected. No respirable fibres detected. |
| SB 0.25 | 18 Au18881 | Aug 1 2018 | Approximate Sample 1 g Sample consisted of: Brown coarse grained sandy soil and rocks | FA: Chrysotile asbestos detected in weathered fibre cement fragments. Approximate raw weight of FA 0.0 5g Estimated asbestos content in FA 0.0 2g Total estimated asbestos concentration in FA 0.00 w w Organic fibre detected. No respirable fibres detected. |
| SB 0.25 | 18 Au1888 | Aug 1 2018 | Approximate Sample 5 g 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 respirable fibres detected. |
| SB2 0. | 18 Au1888 | Aug 1 2018 | Approximate Sample 88g 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 respirable fibres detected. |
| SB2 0. | 18 Au18885 | Aug 1 2018 | Approximate Sample 5 g 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 respirable fibres detected. |
| SB25 0.25 | 18 Au1888 | Aug 1 2018 | Approximate Sample 2 g 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 respirable fibres detected. |

First Reported: Aug 2 2018
 Date Reported: Aug 2 2018

Eurofins mgf nit F Building F 1 Mars Road Lane Cove West NSW Australia 20
 AEN : 50 006 065 521 T telephone: 12 00 8 00

Page 2 of 1
 Report Number: 12 28 AID



| Client Sample ID | Eurofins Sample No. | Data Sampled | Sample Description | Result |
|------------------|---------------------|--------------|---|--|
| Q A2 | 18 Au1888 | Aug 1 | Approximate Sample 9g Sample consisted of: Brown coarse grained sandy soil and rock | No asbestos detected at the reporting limit of 0.001 w/w. Organic fibre detected. No respirable fibres detected. |
| SB22 0.5 | 18 Au20518 | Aug 1 | Approximate Sample 8g Sample consisted of: Brown coarse grained sandy soil and rock | No asbestos detected at the reporting limit of 0.001 w/w. Organic fibre detected. No respirable fibres detected. |
| SB88 0. | 18 Au2051 | Aug 1 | Approximate Sample 08g Sample consisted of: Brown coarse grained sandy soil and rock | AF: Chrysotile asbestos detected in the form of loose fibre bundles. Approximate raw weight of AF 0.005 g Estimated asbestos content in AF 0.005 g Total estimated asbestos concentration in AF 0.0008 w/w No asbestos detected at the reporting limit of 0.001 w/w. Organic fibre detected. No respirable fibres detected. |

First Reported: Aug 2 2018
Date Reported: Aug 2 2018

Eurofins Building F 1 Mars Road Lane Cove West NSW Australia 20
ASBN : 50 005 065 5211 telephone: 12 008 00

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Report Number: 12 28 A1D



Sample History

Where samples are submitted analysed over several days the last date of extraction and analysis is reported. A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this some of the method reference information on reports has changed. However no substantive change has been made to our laboratory methods and as such there is no change in the validity of current or previous results regarding both quality and NAT A accreditation .

If the date and time of sampling are not provided the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

| Description | Testing Site | Extracted | Holding Time |
|------------------------|--------------|------------|--------------|
| Asbestos LT M ASB 8020 | Sydney | Aug 1 2018 | Indefinite |



Melbourne
 5000 Lams Cove West NSW 20
 Phone: 12 00 00 00
 Site: 125 1 2 1 NAT A 12 1 Site 4821

Sydney
 5000 Lams Cove West NSW 20
 Phone: 12 00 00 00
 Site: 125 1 2 1 NAT A 12 1 Site 4821

Brisbane
 5000 Lams Cove West NSW 20
 Phone: 12 00 00 00
 Site: 125 1 2 1 NAT A 12 1 Site 4821

Perth
 5000 Lams Cove West NSW 20
 Phone: 12 00 00 00
 Site: 125 1 2 1 NAT A 12 1 Site 4821

Company Name: **T race Environmental P L**
 Address: **Shop 2 New Canterbury Road Dutwich Hill NSW 220**
 Project Name: **MASCO T**
 Project ID: **1,1**

Order No.: **12 28**
 Report : **02 8 0 0555**
 Phone: **02 8 0 0555**
 Fax:

Received: **Aug 15 2018 5: 1 PM**
 Due: **Aug 2 2018**
 Priority: **5 Day**
 Contact Name: **Ken Henderson**

Eurofins mgt Analytical Services Manager : Nibha V aldy

| Sample Detail | Asbestos | WA guidelines | CANCELLED | HOLD | HOLD | Polycyclic Aromatic Hydrocarbons | Metals M8 | Eurofins mgt Suite B15 | Moisture Set | Acid Sulfate Soils Field pH T est | NEPM Screen for Soil Classification | Eurofins mgt Suite B | Eurofins mgt Suite B A |
|---|----------|---------------|-----------|------|------|----------------------------------|-----------|------------------------|--------------|-----------------------------------|-------------------------------------|----------------------|------------------------|
| Melbourne Laboratory NATA Site 12 4 & 14271 | | | | | | | | | | | | | |
| Sydney Laboratory NATA Site 1 217 | | | | | | | | | | | | | |
| Brisbane Laboratory NATA Site 207 4 | | | | | | | | | | | | | |
| Perth Laboratory NATA Site 23736 | | | | | | | | | | | | | |
| 10 SB1 .0 Aug 10 2018 Soil | | | | | | | | | | | | | |
| 11 SB1 8.0 Aug 10 2018 Soil | | | | | | | | | | | | | |
| 12 SB1 10.0 Aug 10 2018 Soil | | | | | | | | | | | | | |
| 1 SB20 5.0 Aug 08 2018 Soil | | | | | | | | | | | | | |
| 1 SB20 8.0 Aug 08 2018 Soil | | | | | | | | | | | | | |
| 15 SB20 10.0 Aug 08 2018 Soil | | | | | | | | | | | | | |
| 1 SB20 12.0 Aug 08 2018 Soil | | | | | | | | | | | | | |
| 1 SB21 0.15 Aug 1 2018 Soil | | | | | | | | | | | | | |
| 18 SB21 0.1 Aug 08 2018 Soil | | | | | | | | | | | | | |
| 1 SB22 0.1 Aug 08 2018 Soil | | | | | | | | | | | | | |
| 20 SB22 1. Aug 08 2018 Soil | | | | | | | | | | | | | |
| 21 SB22 .0 Aug 08 2018 Soil | | | | | | | | | | | | | |



Melbourne
 5000 Lams Cove West NSW 20
 Phone: 12 008 00 NAT A 12 1 Site 20
 Site 125 1 2 1 NAT A 12 1 Site 4821

Sydney
 5000 Lams Cove West NSW 20
 Phone: 12 008 00 NAT A 12 1 Site 20
 Site 125 1 2 1 NAT A 12 1 Site 4821

Brisbane
 5000 Lams Cove West NSW 20
 Phone: 12 008 00 NAT A 12 1 Site 20
 Site 125 1 2 1 NAT A 12 1 Site 4821

Perth
 5000 Lams Cove West NSW 20
 Phone: 12 008 00 NAT A 12 1 Site 20
 Site 125 1 2 1 NAT A 12 1 Site 4821

ASB : 50 005 085 521
 e-mail : ENR0521@eurofins.com
 web : www.eurofins.com.au

Company Name: Trace Environmental P L
Address: Shop 2, New Canterbury Road, Dutch Hill, NSW 220
Project Name: MASCO T
Project ID: 1,1

Order No.: 12 28
Report : 02 8 0 0555
Phone:
Fax:

Received: Aug 15 2018 5: 1 PM
Due: Aug 2 2018
Priority: 5 Day
Contact Name: Ken Henderson

Eurofins mgt Analytical Services Manager : Nibha V aldy

| Sample Detail | Asbestos WA guidelines | CANCELLED | HOLD | HOLD | Polycyclic Aromatic Hydrocarbons | Metals M8 | Eurofins mgt Suite B15 | Moisture Set | Acid Sulfate Soils Field pH Test | NEPM Screen for Soil Classification | Eurofins mgt Suite B | Eurofins mgt Suite B A |
|---|------------------------|-----------|------|------|----------------------------------|-----------|------------------------|--------------|----------------------------------|-------------------------------------|----------------------|------------------------|
| Melbourne Laboratory NATA Site 12 4 & 14271 | | | | | | | | | | | | |
| Sydney Laboratory NATA Site 1 217 | | | | | | | | | | | | |
| Brisbane Laboratory NATA Site 207 4 | | | | | | | | | | | | |
| Perth Laboratory NATA Site 23736 | | | | | | | | | | | | |
| 22 SB22 5.0 Aug 08 2018 Soil | S18 Au188 3 | | | | | | | | | | | |
| 2 SB22 .0 Aug 08 2018 Soil | S18 Au188 3 | | | | | | | | | | | |
| 2 SB22 .0 Aug 08 2018 Soil | S18 Au188 3 | | | | | | | | | | | |
| 25 SB2 2.0 Aug 08 2018 Soil | S18 Au188 1 | | | | | | | | | | | |
| 2 SB2 .0 Aug 08 2018 Soil | S18 Au188 2 | | | | | | | | | | | |
| 2 SB2 .0 Aug 10 2018 Soil | S18 Au188 2 | | | | | | | | | | | |
| 28 SB2 8.0 Aug 10 2018 Soil | S18 Au188 5 | | | | | | | | | | | |
| 2 SB2 10.0 Aug 10 2018 Soil | S18 Au188 5 | | | | | | | | | | | |
| 0 QA1 Aug 1 2018 Soil | S18 Au188 X | | | | | | | | | | | |
| 1 QS Aug 1 2018 Soil | S18 Au188 X | | | | | | | | | | | |
| 2 RB2 Aug 1 2018 Water | S18 Au188 8 | | | | | | | | | | | |
| 2 RB Aug 1 2018 Water | S18 Au188 8 | | | | | | | | | | | |



Melbourne
 220 Collins St
 Phone: 03 9595 6511
 Email: info@eurofins.com.au
 Web: www.eurofins.com.au

Sydney
 1 Mars Road
 Phone: 6000 0000
 Site: 12 1 Site 20

Brisbane
 27 Binna Buena Place
 Phone: 07 4771 1122
 Site: 12 1 Site 20

Perth
 1 Leach Highway
 Phone: 08 9447 1821
 Site: 12 1 Site 20

Company Name: **T race Environmental P L**
 Address: **Shop 2 New Canterbury Road**
Dutwich Hill NSW 220

Project Name: **MASCO T**
 Project ID: **1,1**

Order No.: **12 28**
 Report : **Aug 15 2018 5: 1 PM**
 Phone: **02 8 0 0555**
 Fax:

Received: **Aug 2 2018**
 Due: **Aug 2 2018**
 Priority: **5 Day**
 Contact Name: **Ken Henderson**

Eurofins mgt Analytical Services Manager : Nibha V aldy

| Sample Detail | Asbestos WA guidelines | CANCELLED | HOLD | HOLD | Polycyclic Aromatic Hydrocarbons | Metals M8 | Eurofins mgt Suite B15 | Moisture Set | Acid Sulfate Soils Field pH T est | NEPM Screen for Soil Classification | Eurofins mgt Suite B | Eurofins mgt Suite B A |
|---|------------------------|-----------|------|------|----------------------------------|-----------|------------------------|--------------|-----------------------------------|-------------------------------------|----------------------|------------------------|
| Melbourne Laboratory NATA Site 12 4 & 14271 | X | X | | | | | | | | | | |
| Sydney Laboratory NATA Site 1 217 | | | | | | | | | | | | |
| Brisbane Laboratory NATA Site 207 4 | | | | | | | | | | | | |
| Perth Laboratory NATA Site 23736 | | | | | | | | | | | | |
| 5 SB 0.2 Aug 1 2018 Soil | S18 Au18880 X | | | | | | | | | | | |
| 5 SB 0.25 Aug 1 2018 Soil | S18 Au18881 X | | | | | | | | | | | |
| SB 0.15 Aug 1 2018 Soil | S18 Au18882 X | | | | | | | | | | | |
| 8 SB 0.25 Aug 1 2018 Soil | S18 Au1888 X | | | | | | | | | | | |
| SB2 0. Aug 1 2018 Soil | S18 Au1888 X | | | | | | | | | | | |
| 0 SB25 0.25 Aug 1 2018 Soil | S18 Au18885 X | | | | | | | | | | | |
| 1 QA2 Aug 1 2018 Soil | S18 Au1888 X | | | | | | | | | | | |
| 2 RB Aug 1 2018 Water | S18 Au1888 X | | | | | | | | | | | |
| SB1 0.5 Aug 0 2018 Soil | S18 Au1888 X | | | | | | | | | | | |
| SB 0. Aug 0 2018 Soil | S18 Au188 X | | | | | | | | | | | |
| 5 SB .0 Aug 0 2018 Soil | S18 Au188 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.
 - . Samples were analysed on an as received basis.
 - . This report replaces any interim results previously issued.

Holding Times

Please refer to Sample Preservation and Container Guide for holding times Q S 001 .
 For samples received on the last day of holding time notification of testing requirements should have been received at least 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 | Where a moisture has been determined on a solid sample the result is expressed on a dry basis |
| LOR | Limit of Reporting |
| COC | Chain of Custody |
| SRA | Sample Receipt Advice |
| ISO | International Standards Organisation |
| AS | Australian Standards |
| WA DCH | Western Australia Department of Health |
| NOHSC | National Occupational Health and Safety Commission |
| ACM | Bonded asbestos containing material means any material containing more than 1 asbestos and comprises asbestos containing material which is in sound condition although possibly broken or fragmented and where the asbestos is bound in a matrix such as cement or resin. Common examples of ACM include but are not limited to: pipe and boiler insulation sprayed on fireproofing troweled on acoustical plaster floor tile and mastio floor linoleum transite shingles roofing materials wall and ceiling plaster ceiling tiles and gasket materials. This term is restricted to material that cannot pass a mm x mm sieve. This sieve size is selected because it approximates the thickness of common asbestos cement sheeting and for fragments to be smaller than this would imply a high degree of damage and hence potential for fibre release. |
| FA | FA comprises friable asbestos material and includes severely weathered cement sheet insulation products and woven asbestos material. This type of friable asbestos is defined here as asbestos material that is in a degraded condition such that it can be broken or crumbled by hand pressure. This material is typically unbonded or was previously bonded and is now significantly degraded crumbling . |
| PACM | Presumed Asbestos Containing Material means thermal system insulation and surfacing material found in buildings vessels and vessel sections constructed no later than 1 80 that are assumed to contain greater than one percent asbestos but have not been sampled or analysed to verify or negate the presence of asbestos. |
| AF | Asbestos fines AF are defined as free fibres or fibre bundles smaller than mm. It is the free fibres which present the greatest risk to human health although very small fibres 5 microns in length are not considered to be such a risk. AF also includes small fragments of bonded ACM that pass through a mm x mm sieve. Note that for bonded ACM fragments to pass through a mm x mm sieve implies a substantial degree of damage which increases the potential for fibre release. |
| AC | Asbestos cement means a mixture of cement and asbestos fibres typically 0:10 ratios . |



Comments

Samples Au18850 Au18880 and Au1888 received were less than the nominal 500mL as recommended in Section 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 Holding Time | Yes |
| Some samples have been subcontracted | No |

Qualifier Codes/Comments

| Code | Description |
|------|----------------|
| N A | Not applicable |

Asbestos Counter/Identifier:

Sayed Abu Senior Analyst Asbestos NSW

Authorised by:

Laxman Dias Senior Analyst Asbestos NSW



Glenn Jackson
National Operations Manager

Final Report – this report replaces any previously issued Report

Indicates Not Requested

Indicates NAT A accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or [please here](#).

Eurofins mgt shall not be liable for best cost damages or expenses incurred by the client or any other person or company resulting from the use of any information or interpretation given in this report. In no case shall Eurofins mgt be liable for consequential damages including but not limited to lost profits damages for failure to meet deadlines and test production arising from this report. This document shall not be reproduced except in full and relates only to the issues tested, unless indicated otherwise. The tests were performed on the samples as received.



Certificate of Analysis

Trace Environmental P/L
 Shop 2, 7 3 7 New Canterbury Road
 Dulwich Hill
 NSW 2203



NATA Accredited
 Accreditation Number 1261
 Site Number 1 217

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: Ken Henderson
 Report 61242 W
 Project name MASCO T
 Project ID 1.1
 Received Date Aug 15 2018

| Client Sample ID | RB 2 | RB 3 | RB 4 | |
|---|-------------|-------------|-------------|-------|
| Sample Matrix | Water | Water | Water | |
| Eurofins mgt Sample No. | S1 Au1 7 | S1 Au1 7 | S1 Au1 7 | Au1 |
| Date Sampled | Aug 13, 201 | Aug 14, 201 | Aug 14, 201 | |
| Test Reference | LO R | nit | | |
| Total Recoverable Hydrocarbons 1 NEPM Fractions | | | | |
| T RH C C | 0.02 | mg L | | 0.02 |
| T RH C10 C1 | 0.05 | mg L | | 0.05 |
| T RH C15 C28 | 0.1 | mg L | | 0.1 |
| T RH C2 C | 0.1 | mg L | | 0.1 |
| T RH C10 T otal | 0.1 | mg L | | 0.1 |
| B TEX | | | | |
| Ben ene | 0.001 | mg L | | 0.001 |
| T oluene | 0.001 | mg L | | 0.001 |
| Ethylben ene | 0.001 | mg L | | 0.001 |
| m p X ylenes | 0.002 | mg L | | 0.002 |
| o X ylene | 0.001 | mg L | | 0.001 |
| X ylenes T otal | 0.00 | mg L | | 0.00 |
| Bromofluoroben ene surr. | 1 | | | 111 |
| Total Recoverable Hydrocarbons 2013 NEPM Fractions | | | | |
| Naphthalen ⁰⁰² | 0.01 | mg L | | 0.01 |
| T RH C C10 | 0.02 | mg L | | 0.02 |
| T RH C C10 less BT EX ⁰⁰ F1 | 0.02 | mg L | | 0.02 |
| T RH C10 C1 | 0.05 | mg L | | 0.05 |
| T RH C10 C1 less Naphthalen ⁰⁰¹ F2 | 0.05 | mg L | | 0.05 |
| T RH C1 C | 0.1 | mg L | | 0.1 |
| T RH C C 0 | 0.1 | mg L | | 0.1 |
| T RH C10 C 0 total | 0.1 | mg L | | 0.1 |
| Polycyclic Aromatic Hydrocarbons | | | | |
| Acenaphthene | 0.001 | mg L | | 0.001 |
| Acenaphthylene | 0.001 | mg L | | 0.001 |
| Anthracene | 0.001 | mg L | | 0.001 |
| Ben a anthracene | 0.001 | mg L | | 0.001 |
| Ben o a pyrene | 0.001 | mg L | | 0.001 |
| Ben o b fluoranthene | 0.001 | mg L | | 0.001 |
| Ben o g,h,i perylene | 0.001 | mg L | | 0.001 |
| Ben o k fluoranthene | 0.001 | mg L | | 0.001 |
| Chrysene | 0.001 | mg L | | 0.001 |
| Diben a,h anthracene | 0.001 | mg L | | 0.001 |
| Fluoranthene | 0.001 | mg L | | 0.001 |
| Fluorene | 0.001 | mg L | | 0.001 |



| | | | | | | |
|---|--------|------|-------------|-------------|-------------|-------|
| Client Sample ID | | | RB 2 | RB 3 | RB 4 | |
| Sample Matrix | | | Water | Water | Water | |
| Eurofins mgt Sample No. | | | S1 Au1 7 | S1 Au1 7 | S1 Au1 7 | Au1 |
| Date Sampled | | | Aug 13, 201 | Aug 14, 201 | Aug 14, 201 | |
| Test Reference | LOR | nit | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | | | |
| Indeno 1,2,3-cd pyrene | 0.001 | mg L | | | | 0.001 |
| Naphthalene | 0.001 | mg L | | | | 0.001 |
| Phenanthrene | 0.001 | mg L | | | | 0.001 |
| Pyrene | 0.001 | mg L | | | | 0.001 |
| Total PAH | 0.001 | mg L | | | | 0.001 |
| 2,3-Difluorobiphenyl surr. | 1 | | | | | 80 |
| 1,2,3-Trifluorobiphenyl surr. | 1 | | | | | 1 |
| Organochlorine Pesticides | | | | | | |
| Chlordane Total | 0.001 | mg L | 0.001 | 0.001 | | |
| . DDD | 0.0001 | mg L | 0.0001 | 0.0001 | | |
| . DDE | 0.0001 | mg L | 0.0001 | 0.0001 | | |
| . DDT | 0.0001 | mg L | 0.0001 | 0.0001 | | |
| a-BHC | 0.0001 | mg L | 0.0001 | 0.0001 | | |
| Aldrin | 0.0001 | mg L | 0.0001 | 0.0001 | | |
| b-BHC | 0.0001 | mg L | 0.0001 | 0.0001 | | |
| d-BHC | 0.0001 | mg L | 0.0001 | 0.0001 | | |
| Dieldrin | 0.0001 | mg L | 0.0001 | 0.0001 | | |
| Endosulfan I | 0.0001 | mg L | 0.0001 | 0.0001 | | |
| Endosulfan II | 0.0001 | mg L | 0.0001 | 0.0001 | | |
| Endosulfan sulphate | 0.0001 | mg L | 0.0001 | 0.0001 | | |
| Endrin | 0.0001 | mg L | 0.0001 | 0.0001 | | |
| Endrin aldehyde | 0.0001 | mg L | 0.0001 | 0.0001 | | |
| Endrin ketone | 0.0001 | mg L | 0.0001 | 0.0001 | | |
| g-BHC Lindane | 0.0001 | mg L | 0.0001 | 0.0001 | | |
| Heptachlor | 0.0001 | mg L | 0.0001 | 0.0001 | | |
| Heptachlor epoxide | 0.0001 | mg L | 0.0001 | 0.0001 | | |
| Hexachlorobenzene | 0.0001 | mg L | 0.0001 | 0.0001 | | |
| Methoxychlor | 0.0001 | mg L | 0.0001 | 0.0001 | | |
| Toxaphene | 0.01 | mg L | 0.01 | 0.01 | | |
| Aldrin and Dieldrin Total | 0.0001 | mg L | 0.0001 | 0.0001 | | |
| DDT DDE DDD Total | 0.0001 | mg L | 0.0001 | 0.0001 | | |
| Vic EPA IWRG 21 OCP Total | 0.001 | mg L | 0.001 | 0.001 | | |
| Vic EPA IWRG 21 Other OCP Total | 0.001 | mg L | 0.001 | 0.001 | | |
| Dibutylchloride surr. | 1 | | 81 | | | |
| Tetrachloro m-xylene surr. | 1 | | 1 | 102 | | |
| Organophosphorus Pesticides | | | | | | |
| Azinphos methyl | 0.002 | mg L | 0.002 | 0.002 | | |
| Bolstar | 0.002 | mg L | 0.002 | 0.002 | | |
| Chlorfenvinphos | 0.002 | mg L | 0.002 | 0.002 | | |
| Chlorpyrifos | 0.02 | mg L | 0.02 | 0.02 | | |
| Chlorpyrifos methyl | 0.002 | mg L | 0.002 | 0.002 | | |
| Coumaphos | 0.02 | mg L | 0.02 | 0.02 | | |
| Demeton S | 0.02 | mg L | 0.02 | 0.02 | | |
| Demeton O | 0.002 | mg L | 0.002 | 0.002 | | |
| Diazinon | 0.002 | mg L | 0.002 | 0.002 | | |
| Dichlorvos | 0.002 | mg L | 0.002 | 0.002 | | |
| Dimethoate | 0.002 | mg L | 0.002 | 0.002 | | |
| Disulfoton | 0.002 | mg L | 0.002 | 0.002 | | |
| EPN | 0.002 | mg L | 0.002 | 0.002 | | |



| Client Sample ID | | | RB 2 | RB 3 | RB 4 | |
|------------------------------------|-------|------|-------------|-------------|-------------|-----|
| Sample Matrix | | | Water | Water | Water | |
| Eurofins mgt Sample No. | | | S1 Au1 7 | S1 Au1 7 | S1 Au1 7 | Au1 |
| Date Sampled | | | Aug 13, 201 | Aug 14, 201 | Aug 14, 201 | |
| Test Reference | LO R | nit | | | | |
| Organophosphorus Pesticides | | | | | | |
| Ethion | 0.002 | mg L | 0.002 | 0.002 | | |
| Ethoprop | 0.002 | mg L | 0.002 | 0.002 | | |
| Ethyl parathion | 0.002 | mg L | 0.002 | 0.002 | | |
| Fenitrothion | 0.002 | mg L | 0.002 | 0.002 | | |
| Fensulfothion | 0.002 | mg L | 0.002 | 0.002 | | |
| Fenthion | 0.002 | mg L | 0.002 | 0.002 | | |
| Malathion | 0.002 | mg L | 0.002 | 0.002 | | |
| Merphos | 0.002 | mg L | 0.002 | 0.002 | | |
| Methyl parathion | 0.002 | mg L | 0.002 | 0.002 | | |
| Mevinphos | 0.002 | mg L | 0.002 | 0.002 | | |
| Monocrotophos | 0.002 | mg L | 0.002 | 0.002 | | |
| Naled | 0.002 | mg L | 0.002 | 0.002 | | |
| O methoate | 0.002 | mg L | 0.002 | 0.002 | | |
| Phorate | 0.002 | mg L | 0.002 | 0.002 | | |
| Pirimiphos methyl | 0.02 | mg L | 0.02 | 0.02 | | |
| Pyra ophos | 0.002 | mg L | 0.002 | 0.002 | | |
| Ronnel | 0.002 | mg L | 0.002 | 0.002 | | |
| Terbufos | 0.002 | mg L | 0.002 | 0.002 | | |
| Tetrachlorvinphos | 0.002 | mg L | 0.002 | 0.002 | | |
| Tokuthion | 0.002 | mg L | 0.002 | 0.002 | | |
| Trichloronate | 0.002 | mg L | 0.002 | 0.002 | | |
| Triphenylphosphate surr. | 1 | | 8 | 8 | | |
| Polychlorinated Biphenyls | | | | | | |
| Aroclor 101 | 0.001 | mg L | 0.001 | 0.001 | | |
| Aroclor 1221 | 0.001 | mg L | 0.001 | 0.001 | | |
| Aroclor 12 2 | 0.001 | mg L | 0.001 | 0.001 | | |
| Aroclor 12 2 | 0.001 | mg L | 0.001 | 0.001 | | |
| Aroclor 12 8 | 0.001 | mg L | 0.001 | 0.001 | | |
| Aroclor 125 | 0.001 | mg L | 0.001 | 0.001 | | |
| Aroclor 12 0 | 0.001 | mg L | 0.001 | 0.001 | | |
| Total PCB | 0.001 | mg L | 0.001 | 0.001 | | |
| Dibutylchloroate surr. | 1 | | 81 | | | |
| Tetrachloro m xylene surr. | 1 | | 1 | 102 | | |
| Phenols (Halogenated) | | | | | | |
| 2 Chlorophenol | 0.00 | mg L | | | 0.00 | |
| 2, 4 Dichlorophenol | 0.00 | mg L | | | 0.00 | |
| 2, 5 Trichlorophenol | 0.01 | mg L | | | 0.01 | |
| 2, 6 Trichlorophenol | 0.01 | mg L | | | 0.01 | |
| 2, 4 Dichlorophenol | 0.00 | mg L | | | 0.00 | |
| Chloro methylphenol | 0.01 | mg L | | | 0.01 | |
| Pentachlorophenol | 0.01 | mg L | | | 0.01 | |
| Tetrachlorophenols Total | 0.0 | mg L | | | 0.0 | |
| Total Halogenated Phenol | 0.01 | mg L | | | 0.01 | |
| Phenols (non Halogenated) | | | | | | |
| 2 Cyclohexyl dinitrophenol | 0.1 | mg L | | | 0.1 | |
| 2 Methyl dinitrophenol | 0.0 | mg L | | | 0.0 | |
| 2 Methylphenol o Cresol | 0.00 | mg L | | | 0.00 | |
| 2 Nitrophenol | 0.01 | mg L | | | 0.01 | |
| 2, 4 Dimethylphenol | 0.00 | mg L | | | 0.00 | |



| Client Sample ID | | | RB 2 | RB 3 | RB 4 | |
|----------------------------------|--------|------|-------------|-------------|-------------|--------|
| Sample Matrix | | | Water | Water | Water | |
| Eurofins mgt Sample No. | | | S1 Au1 7 | S1 Au1 7 | S1 Au1 7 | Au1 |
| Date Sampled | | | Aug 13, 201 | Aug 14, 201 | Aug 14, 201 | |
| Test Reference | LO R | nit | | | | |
| Phenols (non Halogenated) | | | | | | |
| 2,4-Dinitrophenol | 0.0 | mg L | | | | 0.0 |
| Methylphenol m p Cresol | 0.00 | mg L | | | | 0.00 |
| Nitrophenol | 0.0 | mg L | | | | 0.0 |
| Dinoseb | 0.1 | mg L | | | | 0.1 |
| Phenol | 0.00 | mg L | | | | 0.00 |
| Total Non Halogenated Phenol | 0.1 | mg L | | | | 0.1 |
| Phenol d surr. | 1 | | | | | 0 |
| Heavy Metals | | | | | | |
| Arsenic | 0.001 | mg L | | | | 0.001 |
| Cadmium | 0.0002 | mg L | | | | 0.0002 |
| Chromium | 0.001 | mg L | | | | 0.001 |
| Copper | 0.001 | mg L | | | | 0.001 |
| Lead | 0.001 | mg L | | | | 0.001 |
| Mercury | 0.0001 | mg L | | | | 0.0001 |
| Nickel | 0.001 | mg L | | | | 0.001 |
| inc | 0.005 | mg L | | | | 0.005 |



Sample History

Where samples are submitted analysed over several days the last date of extraction and analysis is reported.
 A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this some of the method reference information on reports has changed. However no substantive change has been made to our laboratory methods and as such there is no change in the validity of current or previous results regarding both quality and NAT A accreditation.
 If the date and time of sampling are not provided the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

| Description | Testing Site | Extracted | Holding Time |
|--|--------------|-------------|--------------|
| Eurofins mgt Suite B A | | | |
| Total Recoverable Hydrocarbons 1 NEPM Fractions Method: LT M ORG 2010 T RH C C | Melbourne | Aug 21 2018 | Day |
| BT EX Method: T RH C C 0 LT M ORG 2010 | Melbourne | Aug 18 2018 | 1 Day |
| Total Recoverable Hydrocarbons 201 NEPM Fractions Method: T RH C C 0 LT M ORG 2010 | Melbourne | Aug 18 2018 | Day |
| Total Recoverable Hydrocarbons 201 NEPM Fractions Method: T RH C C 0 LT M ORG 2010 | Melbourne | Aug 21 2018 | Day |
| Polycyclic Aromatic Hydrocarbons Method: LT M ORG 21 0 PAH and Phenols in Soil and Water | Melbourne | Aug 21 2018 | Day |
| Phenols Halogenated Method: LT M ORG 21 0 PAH and Phenols in Soil and Water | Melbourne | Aug 21 2018 | Days |
| Phenols non Halogenated Method: LT M ORG 21 0 PAH and Phenols in Soil and Water | Melbourne | Aug 21 2018 | Day |
| Metals M8 Method: LT M MET 0 0 Metals in Waters Soils Sediments by ICP MS | Melbourne | Aug 18 2018 | 28 Days |
| Eurofins mgt Suite B15 | | | |
| Organochlorine Pesticides Method: LT M ORG 2220 O CP PCB in Soil and Water | Melbourne | Aug 21 2018 | Day |
| Organophosphorus Pesticides Method: LT M ORG 2200 O rganophosphorus Pesticides by GC MS | Melbourne | Aug 21 2018 | Day |
| Polychlorinated Biphenyls Method: LT M ORG 2220 O CP PCB in Soil and Water | Melbourne | Aug 21 2018 | Days |



MAHARAJAH
 2/5 Kingstons Tower Close
 Ocala, VIC 3085
 NAT A: 12 1 2 1
 Site: 126 1 2 1
 ABL: 50 005 085 524
 email: EnviroSales@eurofins.com
 web: www.eurofins.com.au

SPRINGWOOD
 1/21 Smallwood Place
 Murrumbidgee NSW 2500
 NAT A: 12 1 536 20
 Site: 121 1 20

LEACH HIGHWAY
 2/1 Leach Highway
 Kooladale WA 6105
 NAT A: 12 1 251 00
 Site: 121 1 251 00

Company Name: Trace Environmental P L
Address: Shop 2, Dutwich Hill, New Canterbury Road, NSW 220
Project Name: MASCO T
Project ID: 1,1

Order No.: 12 28
Report : 02 B 0 0555
Phone:
Fax:

Received: Aug 15 2018 5: 1 PM
Due: Aug 2 2018
Priority: 5 Day
Contact Name: Ken Henderson

Manager: mgt Analytical Services Manager : Nibha V aldiya

| No | Sample ID | Sample Date | Sampling Time | Matrix | LAB ID |
|----|-----------|-------------|---------------|--------|---------------|
| 1 | SB 2.0 | Aug 0 2018 | | Soil | S18 - Au188 |
| 2 | SB .0 | Aug 0 2018 | | Soil | S18 - Au188 |
| | SB 5.0 | Aug 0 2018 | | Soil | S18 - Au188 |
| | SB1 0. | Aug 1 2018 | | Soil | S18 - Au18850 |
| 5 | SB1 .0 | Aug 10 2018 | | Soil | S18 - Au18851 |
| | SB1 .0 | Aug 10 2018 | | Soil | S18 - Au18852 |
| | SB1 8.0 | Aug 10 2018 | | Soil | S18 - Au1885 |
| 8 | SB1 10.0 | Aug 10 2018 | | Soil | S18 - Au1885 |
| | SB1 .8 | Aug 10 2018 | | Soil | S18 - Au18855 |

| Asbestos | WA guidelines | | | | |
|-------------------------------------|---------------|---|---|---|---|
| | | X | X | | |
| CANCELLED | | | X | | |
| HOLD | | | | X | |
| HOLD | | | | | X |
| Polycyclic Aromatic Hydrocarbons | | X | X | | |
| Metals M8 | | X | X | | |
| Eurofins mgt Suite B15 | | X | X | | |
| Moisture Set | | | X | X | |
| Acid Sulfate Soils Field pH Test | | | | X | X |
| NEPM Screen for Soil Classification | | | X | X | X |
| Eurofins mgt Suite B | | | | X | X |
| Eurofins mgt Suite B A | | | | X | X |



ABSL - 60 095 086 924
 email : EnviroSales_eurofins.com
 web : www.eurofins.com.au
MALDEN
 2 5 Kingstons Town Close
 Oatleigh VIC 3045 5000
 Phone : 12 00 8 00 00
 NAT A 12 1 Site 1821
SPRINGWOOD
 1 21 Smallwood Place
 Murrumbidgee NSW 2500
 Phone : 12 00 8 00 00
 NAT A 12 1 Site 20
PERTH
 1 Leach Highway
 Kewdale WA 6105
 Phone : 12 00 8 00 00
 NAT A 12 1 Site 2

Company Name: Trace Environmental P L
Address: Shop 2, Dutwich Hill, New Canterbury Road, NSW 220
Project Name: MASCO T
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Report : 02 8 0 0555
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Contact Name: Ken Henderson
Project Manager: mgt Analytical Services Manager : Nibha Vaidya

| Sample Detail | Asbestos | WA guidelines | CANCELLED | HOLD | HOLD | Polycyclic Aromatic Hydrocarbons | Metals M8 | Eurofins mgt Suite B15 | Moisture Set | Acid Sulfate Soils Field pH Test | NEPM Screen for Soil Classification | Eurofins mgt Suite B | Eurofins mgt Suite B A |
|---|----------|---------------|-----------|------|------|----------------------------------|-----------|------------------------|--------------|----------------------------------|-------------------------------------|----------------------|------------------------|
| Melbourne Laboratory NATA Site 12 4 & 14271 | | | | | | | | | | | | | |
| Sydney Laboratory NATA Site 1 217 | | | | | | | | | | | | | |
| Brisbane Laboratory NATA Site 207 4 | | | | | | | | | | | | | |
| Perth Laboratory NATA Site 23736 | | | | | | | | | | | | | |
| 10 SB1 .0 Aug 10 2018 | Soil | S18 Au1885 | | | | | | | | | | | |
| 11 SB1 8.0 Aug 10 2018 | Soil | S18 Au1885 | | | | | | | | | | | |
| 12 SB1 10.0 Aug 10 2018 | Soil | S18 Au1885 | | | | | | | | | | | |
| 1 SB20 5.0 Aug 08 2018 | Soil | S18 Au1885 | | | | | | | | | | | |
| 1 SB20 8.0 Aug 08 2018 | Soil | S18 Au188 4 | | | | | | | | | | | |
| 15 SB20 10.0 Aug 08 2018 | Soil | S18 Au188 1 | | | | | | | | | | | |
| 1 SB20 12.0 Aug 08 2018 | Soil | S18 Au188 2 | | | | | | | | | | | |
| 1 SB21 0.15 Aug 1 2018 | Soil | S18 Au188 | | | | | | | | | | | |
| 18 SB21 0. Aug 08 2018 | Soil | S18 Au188 | | | | | | | | | | | |
| 1 SB22 0.1 Aug 08 2018 | Soil | S18 Au188 3 | | | | | | | | | | | |
| 20 SB22 1. Aug 08 2018 | Soil | S18 Au188 3 | | | | | | | | | | | |
| 21 SB22 .0 Aug 08 2018 | Soil | S18 Au188 | | | | | | | | | | | |



Melbourne
 25 King Street, Level 5
 Melbourne VIC 3000
 Australia
 Phone: +61 3 9593 8888
 Fax: +61 3 9593 8889
 Email: sales@eurofins.com.au
 Website: www.eurofins.com.au

Sydney
 11 Macquarie Street
 Sydney NSW 2000
 Australia
 Phone: +61 2 9250 8888
 Fax: +61 2 9250 8889
 Email: sales@eurofins.com.au
 Website: www.eurofins.com.au

Perth
 121 Smallwood Place
 Murdoch WA 6150
 Australia
 Phone: +61 8 9447 8888
 Fax: +61 8 9447 8889
 Email: sales@eurofins.com.au
 Website: www.eurofins.com.au

Company Name: Trace Environmental P L
Address: Shop 2, Dutwich Hill, New Canterbury Road, NSW 220
Project Name: MASCO T
Project ID: 1,1

Order No.: 12 28
Report : 02 B
Phone: 0 0555
Fax:

Received: Aug 15 2018 5: 1 PM
Due: Aug 2 2018
Priority: 5 Day
Contact Name: Ken Henderson

Service Manager: mgt Analytical Services Manager : Nibha V aldiya

| Sample Detail | Asbestos | CANCELLED | HOLD | HOLD | Polycyclic Aromatic Hydrocarbons | Metals M8 | Eurofins mgt Suite B15 | Moisture Set | Acid Sulfate Soils Field pH Test | NEPM Screen for Soil Classification | Eurofins mgt Suite B | Eurofins mgt Suite B A |
|---|----------|-----------|------|------|----------------------------------|-----------|------------------------|--------------|----------------------------------|-------------------------------------|----------------------|------------------------|
| Melbourne Laboratory NATA Site 12 4 & 14271 | X | X | | | | | | | | | | |
| Sydney Laboratory NATA Site 1 217 | | | | | | | | | | | | |
| Brisbane Laboratory NATA Site 207 4 | | | | | | | | | | | | |
| Perth Laboratory NATA Site 23736 | | | | | | | | | | | | |
| 22 SB22 5.0 Aug 08 2018 Soil | | | | | | | | | | | | |
| 2 SB22 .0 Aug 08 2018 Soil | | | | | | | | | | | | |
| 2 SB22 .0 Aug 08 2018 Soil | | | | | | | | | | | | |
| 25 SB2 2.0 Aug 08 2018 Soil | | | | | | | | | | | | |
| 2 SB2 .0 Aug 08 2018 Soil | | | | | | | | | | | | |
| 2 SB2 .0 Aug 10 2018 Soil | | | | | | | | | | | | |
| 28 SB2 8.0 Aug 10 2018 Soil | | | | | | | | | | | | |
| 2 SB2 10.0 Aug 10 2018 Soil | | | | | | | | | | | | |
| 0 QA1 Aug 1 2018 Soil | | | | | | | | | | | | |
| 1 QS Aug 1 2018 Soil | | | | | | | | | | | | |
| 2 RB2 Aug 1 2018 Water | | | | | | | | | | | | |
| RB Aug 1 2018 Water | | | | | | | | | | | | |



ABL-60 095 085 934
 email: EnviroSales_eurofins.com
 web: www.eurofins.com.au

Melbourne
 25 King Street Level 5
 Melbourne VIC 3000
 Phone: 12 00 8 00 00
 NAT A: 12 1 Site 20
 Site 2

Sydney
 1 More Road
 Sydney NSW 2000
 Phone: 12 00 8 00 00
 NAT A: 12 1 Site 20
 Site 2

Perth
 121 Smallwood Place
 Murdoch WA 6150
 Phone: 12 00 8 00 00
 NAT A: 12 1 Site 20
 Site 2

Company Name: Trace Environmental P L
Address: Shop 2, New Canterbury Road, Dutch Hill, NSW 220
Project Name: MASCO T
Project ID: 1,1

Order No.: 12 28
Report : 02 8 0 0555
Phone:
Fax:

Received: Aug 15 2018 5: 1 PM
Due: Aug 2 2018
Priority: 5 Day
Contact Name: Ken Henderson

Project Manager: mgt Analytical Services Manager : Nibha V aldiya

| Sample ID | Sample Description | Matrix | Method | Unit | Result | Limit | Pass/Fail |
|----------------------|------------------------|--------|-------------|------|--------|-------|-----------|
| Melbourne Laboratory | NATA Site 12 4 & 14271 | Soil | S18 Au18880 | X | | | |
| Sydney Laboratory | NATA Site 1 217 | Soil | S18 Au18861 | X | | | |
| Brisbane Laboratory | NATA Site 207 4 | Soil | S18 Au18882 | X | | | |
| Perth Laboratory | NATA Site 23736 | Soil | S18 Au18888 | X | | | |
| 5 SB 0.2 | Aug 1 2018 | Soil | S18 Au18880 | X | | | |
| 5 SB 0.25 | Aug 1 2018 | Soil | S18 Au18861 | X | | | |
| SB 0.15 | Aug 1 2018 | Soil | S18 Au18882 | X | | | |
| SB 0.25 | Aug 1 2018 | Soil | S18 Au18888 | X | | | |
| SB2 0. | Aug 1 2018 | Soil | S18 Au18888 | X | | | |
| SB2 0. | Aug 1 2018 | Soil | S18 Au18885 | X | | | |
| 0 SB25 0.25 | Aug 1 2018 | Soil | S18 Au18888 | X | | | |
| 1 Q A2 | Aug 1 2018 | Soil | S18 Au18888 | X | | | |
| 2 RB | Aug 1 2018 | Water | S18 Au18888 | X | | | |
| SB1 0.5 | Aug 0 2018 | Soil | S18 Au18888 | X | | | |
| SB 0. | Aug 0 2018 | Soil | S18 Au1888 | X | | | |
| 5 SB .0 | Aug 0 2018 | Soil | S18 Au188 1 | X | | | |



ABRIL 50 095 085 594
 email : EnviroSales_eurofins.com
 web : www.eurofins.com.au
MARLBOROUGH
 2 5 Kingstean Town Close
 Oatleigh VIC 35
 NAT A 12 1 2 1
 Site 125 1 2 1
SPRINGWOOD
 1 Mare Road
 Springwood NSW 20
 Phone : 12 00 8
 NAT A 12 1 Site 1821
ESSENDON
 1 21 Smallwood Place
 Murfreesburg VIC 302
 NAT A 12 1 Site 20
PERTH
 1 Leach Highway
 Kewdale WA 105
 NAT A 12 1
 Site 2

Company Name: Trace Environmental P L
Address: Shop 2 New Canterbury Road
 Dutwich Hill
 NSW 220
Project Name: MASCO T
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Fax:
Received: Aug 15 2018 5: 1 PM
Due: Aug 2 2018
Priority: 5 Day
Contact Name: Ken Henderson
 Eurofins mgt Analytical Services Manager : Nibha Vaidya

| Sample Detail | | Asbestos WA guidelines | | CANCELLED | HOLD | HOLD | Polycyclic Aromatic Hydrocarbons | Metals M8 | Eurofins mgt Suite B15 | Moisture Set | Acid Sulfate Soils Field pH Test | NEPM Screen for Soil Classification | Eurofins mgt Suite B | Eurofins mgt Suite B A |
|----------------------|------------------------|------------------------|-------------|-----------|------|------|----------------------------------|-----------|------------------------|--------------|----------------------------------|-------------------------------------|----------------------|------------------------|
| Melbourne Laboratory | NATA Site 12 4 & 14271 | | | | | | | | | | | | | |
| Sydney Laboratory | NATA Site 1 217 | | | | | | | | | | | | | |
| Brisbane Laboratory | NATA Site 207 4 | | | | | | | | | | | | | |
| Perth Laboratory | NATA Site 23736 | | | | | | | | | | | | | |
| SB10 | 0.5 Aug 10 2018 | Soil | S18 Au188 2 | | | | | | | | | | | |
| SB11 | 0.5 Aug 0 2018 | Soil | S18 Au188 | | | | | | | | | | | |
| 8 | SB11 .8 Aug 0 2018 | Soil | S18 Au188 | | | | | | | | | | | |
| 50 | SB1 0.5 Aug 10 2018 | Soil | S18 Au188 5 | | | | | | | | | | | |
| 51 | SB1 1.2 Aug 10 2018 | Soil | S18 Au188 | | | | | | | | | | | |
| 52 | SB1 2.0 Aug 10 2018 | Soil | S18 Au188 | | | | | | | | | | | |
| 5 | SB1 .0 Aug 10 2018 | Soil | S18 Au188 4 | | | | | | | | | | | |
| 5 | SB1 5.0 Aug 10 2018 | Soil | S18 Au188 | | | | | | | | | | | |
| 55 | SB1 .0 Aug 10 2018 | Soil | S18 Au188 0 | | | | | | | | | | | |
| 5 | SB1 .0 Aug 10 2018 | Soil | S18 Au188 0 | | | | | | | | | | | |
| 5 | SB1 0.5 Aug 10 2018 | Soil | S18 Au188 0 | | | | | | | | | | | |
| 5 | SB1 5.0 Aug 10 2018 | Soil | S18 Au188 0 | | | | | | | | | | | |



ABU - 50,005,085,594
 email : EnviroSales_eurofins.com
 web : www.eurofins.com.au
MALDEN
 2 5 Kingstee Town Close
 Oatleigh VIC 3045 5000
 Phone : 12 00 8 00 00
 NAT A 12 1 Site 1821
SPRINGWOOD
 1 Mt F Building F
 1 More Road NSW 20
 Phone : 12 00 8 00 00
 NAT A 12 1 Site 1821
MURRUMBidgegon
 1 21 Smallwood Place
 Murrumbidgegon NSW 2500
 Phone : 12 00 8 00 00
 NAT A 12 1 Site 20
Perth
 2 1 Leach Highway
 Kewdale WA 105
 Phone : 12 00 8 00 00
 NAT A 12 1 Site 2

Company Name: Trace Environmental P L
Address: Shop 2 New Canterbury Road
 Dutwich Hill NSW 220
Project Name: MASCO T
Project ID: 1,1
Order No.: 12 28 0 0555
Report : 12 28 0 0555
Phone: 02 8 0 0555
Fax:
Received: Aug 15 2018 5: 1 PM
Due: Aug 2 2018
Priority: 5 Day
Contact Name: Ken Henderson
Project Manager: mgt Analytical Services Manager : Nibha V aldiya

| Sample Detail | | Asbestos WA guidelines | | CANCELLED | HOLD | HOLD | Polycyclic Aromatic Hydrocarbons | Metals M8 | Eurofins mgt Suite B15 | Moisture Set | Acid Sulfate Soils Field pH T est | NEPM Screen for Soil Classification | Eurofins mgt Suite B | Eurofins mgt Suite B A |
|----------------------|------------------------|------------------------|-------------|-----------|------|------|----------------------------------|-----------|------------------------|--------------|-----------------------------------|-------------------------------------|----------------------|------------------------|
| Melbourne Laboratory | NATA Site 12 4 & 14271 | | | | | | | | | | | | | |
| Sydney Laboratory | NATA Site 1 217 | | | | | | | | | | | | | |
| Brisbane Laboratory | NATA Site 207 4 | | | | | | | | | | | | | |
| Perth Laboratory | NATA Site 23736 | | | | | | | | | | | | | |
| 58 SB1 | .0 Aug 10 2018 | Soil | S18 Au18 0 | | | | | | | | | | | |
| 5 SB1 | .0 Aug 10 2018 | Soil | S18 Au18 05 | | | | | | | | | | | |
| 0 SB20 | 0 Aug 08 2018 | Soil | S18 Au18 0 | | | | | | | | | | | |
| 1 SB20 | 1.0 Aug 08 2018 | Soil | S18 Au18 0 | | | | | | | | | | | |
| 2 SB20 | 2.2 Aug 08 2018 | Soil | S18 Au18 04 | | | | | | | | | | | |
| SB20 | 2 Aug 08 2018 | Soil | S18 Au18 0 | | | | | | | | | | | |
| SB20 | .0 Aug 08 2018 | Soil | S18 Au18 10 | | | | | | | | | | | |
| 5 SB20 | .0 Aug 08 2018 | Soil | S18 Au18 11 | | | | | | | | | | | |
| SB20 | .0 Aug 08 2018 | Soil | S18 Au18 12 | | | | | | | | | | | |
| SB20 | 11.0 Aug 08 2018 | Soil | S18 Au18 1 | | | | | | | | | | | |
| 8 SB21 | 0.5 Aug 1 2018 | Soil | S18 Au18 1 | | | | | | | | | | | |
| SB21 | 0.8 Aug 1 2018 | Soil | S18 Au18 15 | | | | | | | | | | | |



ABRIL 50 005 085 594
 email : EnviroSales_eurofins.com
 web : www.eurofins.com.au
MARLBOROUGH
 2 5 Kingstean Town Close
 Oatridge VIC 35
 NAT A 12 1 2 1
 Site 125 1 2 1
SPRINGWOOD
 1 Merc Road Building F
 Springwood NSW 20
 Phone : 12 00 8
 NAT A 12 1 Site 1821
ESSENDON
 1 21 Smallwood Place
 Murfreesburg VIC 302
 NAT A 12 1 Site 20
PERTH
 2 1 Leach Highway
 Kewdale WA 105
 NAT A 12 1
 Site 2

Company Name: Trace Environmental P L
Address: Shop 2 New Canterbury Road
 Dutwich Hill NSW 220
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Project Manager: Nibha Vaidya

| Sample Detail | | Asbestos | CANCELLED | HOLD | HOLD | Polycyclic Aromatic Hydrocarbons | Metals M8 | Eurofins mgt Suite B15 | Moisture Set | Acid Sulfate Soils Field pH T est | NEPM Screen for Soil Classification | Eurofins mgt Suite B | Eurofins mgt Suite B A |
|----------------------|------------------------|----------|-----------|------|------|----------------------------------|-----------|------------------------|--------------|-----------------------------------|-------------------------------------|----------------------|------------------------|
| Melbourne Laboratory | NATA Site 12 4 & 14271 | X | | | | | | | | | | | |
| Sydney Laboratory | NATA Site 1 217 | | X | | | | | | | | | | |
| Brisbane Laboratory | NATA Site 207 4 | | | | | | | | | | | | |
| Perth Laboratory | NATA Site 23736 | | | | | | | | | | | | |
| 0 | SB22 0. Aug 1 2018 | | | | | | | | | | | | |
| 1 | SB22 1.0 Aug 1 2018 | | | | | | | | | | | | |
| 2 | SB22 2.0 Aug 1 2018 | | | | | | | | | | | | |
| | SB22 2. Aug 1 2018 | | | | | | | | | | | | |
| | SB22 .0 Aug 1 2018 | | | | | | | | | | | | |
| 5 | SB2 0.2 Aug 1 2018 | | | | | | | | | | | | |
| | SB2 1.0 Aug 1 2018 | | | | | | | | | | | | |
| | SB2 .0 Aug 1 2018 | | | | | | | | | | | | |
| 8 | SB2 5.0 Aug 1 2018 | | | | | | | | | | | | |
| | SB2 .0 Aug 10 2018 | | | | | | | | | | | | |
| 80 | SB2 .0 Aug 10 2018 | | | | | | | | | | | | |
| 81 | SB2 0.2 Aug 08 2018 | | | | | | | | | | | | |



Melbourne
 25 King Street Level 10
 Melbourne VIC 3000
 Australia
 Phone: +61 3 9592 8000
 Fax: +61 3 9592 8001
 Email: info@eurofins.com.au
 Website: www.eurofins.com.au

Sydney
 11 Macquarie Street
 Sydney NSW 2000
 Australia
 Phone: +61 2 9250 8000
 Fax: +61 2 9250 8001
 Email: info@eurofins.com.au
 Website: www.eurofins.com.au

Perth
 121 Smallwood Place
 Murdoch WA 6150
 Australia
 Phone: +61 8 9447 1200
 Fax: +61 8 9447 1201
 Email: info@eurofins.com.au
 Website: www.eurofins.com.au

Company Name: Trace Environmental P L
Address: Shop 2, Dutwich Hill, New Canterbury Road, NSW 220
Project Name: MASCO T
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Service Manager: mgt Analytical Services Manager : Nibha V aldiya

| Sample Detail | Asbestos | WA guidelines | CANCELLED | HOLD | HOLD | Polycyclic Aromatic Hydrocarbons | Metals M8 | Eurofins mgt Suite B15 | Moisture Set | Acid Sulfate Soils Field pH Test | NEPM Screen for Soil Classification | Eurofins mgt Suite B | Eurofins mgt Suite B A |
|---|----------|---------------|-----------|------|------|----------------------------------|-----------|------------------------|--------------|----------------------------------|-------------------------------------|----------------------|------------------------|
| Melbourne Laboratory NATA Site 12 4 & 14271 | | | | | | | | | | | | | |
| Sydney Laboratory NATA Site 1 217 | | | | | | | | | | | | | |
| Brisbane Laboratory NATA Site 207 4 | | | | | | | | | | | | | |
| Perth Laboratory NATA Site 23736 | | | | | | | | | | | | | |
| 82 SB2 1.0 Aug 08 2018 Soil | | S18 Au18 2# | | | | | | | | | | | |
| 8 SB2 .1 Aug 08 2018 Soil | | S18 Au18 2 | | | | | | | | | | | |
| 8 SB2 5.0 Aug 08 2018 Soil | | S18 Au18 0 | | | | | | | | | | | |
| 85 SB2 .0 Aug 08 2018 Soil | | S18 Au18 1 | | | | | | | | | | | |
| 8 SB2 0.2 Aug 1 2018 Soil | | S18 Au18 2 | | | | | | | | | | | |
| 8 SB22 0.5 Aug 1 2018 Soil | | S18 Au20518 X | | | | | | | | | | | |
| 88 SB8 0. Aug 1 2018 Soil | | S18 Au2051 X | | | | | | | | | | | |
| 8 SB1 1.2 Aug 10 2018 Soil | | S18 Au2052 | | | | | | | | | | | |
| 0 SB20 .0 Aug 08 2018 Soil | | S18 Au2052 | | | | | | | | | | | |
| 1 SB20 .3 Aug 08 2018 Soil | | S18 Au2052 | | | | | | | | | | | |
| Test Counts | | | 12 | 2 | | | | | | | | 22 | 1 |



Internal Quality Control Review and Glossary

General

- Laboratory QC results for Method Blanks Duplicates Matrix Spikes and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
- All soil results are reported on a dry basis unless otherwise stated.
 - All biota food results are reported on a wet weight basis on the edible portion unless otherwise stated.
 - Actual LO Rs are matrix dependant. Quoted LO Rs may be raised where sample extracts are diluted due to interferences.
- Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
 - SV OC analysis on waters are performed on homogenised unfiltered samples unless noted otherwise.
 - Samples were analysed on an as received basis.
- This report replaces any interim results previously issued.

Holding Times

Please refer to Sample Preservation and Container Guide for holding times Q S 001 .
 For samples received on the last day of holding time notification of testing requirements should have been received at least 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 control.
 For VOCs containing vinyl chloride styrene and 2 chloroethyl vinyl ether the holding time is days however for all other VOCs such as BT EX or C 10 T RH then the holding time is 1 days.
 NOTPH 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. |
| LCR | Limit of Reporting. |
| SPIK E | 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 deionised water. |
| 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 | Quality Systems Manual ver 5.1 US Department of Defense |
| 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 0 however the following acceptance guidelines are equally applicable:

- Results 10 times the LO R: No Limit
- Results between 10 20 times the LO R: RPD must lie between 0 50
- Results 20 times the LO R: RPD must lie between 0 0

Surrogate Recoveries: Recoveries must lie between 50 150 Phenols PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in Q SM 5.1 where no positive PFAS results have been reported have been reviewed and no data was affected.

WADWER n 10 : PFBA PFPeA PFHxA PFHpA PFOA PFBS PFHxS PFO S :2 FT SA 8:2 FT SA

QC Data General Comments

- Where a result is reported as a less than higher than the nominated LO R 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.
- Duplicate data shown within this report that states the word "BAT CH" 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.
 - Organochlorine Pesticide analysis where reporting LCS data Toxaphene Chlordane are not added to the LCS.
 - Organochlorine Pesticide analysis where reporting Spike data Toxaphene is not added to the Spike.
- Total Recoverable Hydrocarbons where reporting Spike LCS data a single spike of commercial Hydrocarbon products in the range of C12 C 0 is added and it s Total Recovery is reported in the C10 C1 cell of the Report.
 - pH and Free Chlorine analysed in the laboratory Analysis on this test must begin within 0 minutes of sampling. Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
 - Recovery Data Spikes Surrogates where chromatographic interference does not allow the determination of Recovery the term "INT " appears against that analyte.
- Polychlorinated Biphenyls are spiked only using Aroclor 12 0 in Matrix Spikes and LCS.
 - For Matrix Spikes and LCS results a dash " " in the report means that the specific analyte was not added to the QC sample.
- 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 B blank | | | | | |
| Total Recoverable Hydrocarbons 1 NEPM Fractions | | | | | |
| T RH C C | mg L | 0.02 | 0.02 | Pass | |
| T RH C10 C1 | mg L | 0.05 | 0.05 | Pass | |
| T RH C15 C28 | mg L | 0.1 | 0.1 | Pass | |
| T RH C2 C | mg L | 0.1 | 0.1 | Pass | |
| Method B blank | | | | | |
| B TEX | | | | | |
| Ben ene | mg L | 0.001 | 0.001 | Pass | |
| T oluene | mg L | 0.001 | 0.001 | Pass | |
| Ethylben ene | mg L | 0.001 | 0.001 | Pass | |
| m p X ylenes | mg L | 0.002 | 0.002 | Pass | |
| o X ylene | mg L | 0.001 | 0.001 | Pass | |
| X ylenes T otal | mg L | 0.00 | 0.00 | Pass | |
| Method B blank | | | | | |
| Total Recoverable Hydrocarbons 2013 NEPM Fractions | | | | | |
| Naphthalene | mg L | 0.01 | 0.01 | Pass | |
| T RH C C10 | mg L | 0.02 | 0.02 | Pass | |
| T RH C10 C1 | mg L | 0.05 | 0.05 | Pass | |
| T RH C1 C | mg L | 0.1 | 0.1 | Pass | |
| T RH C C 0 | mg L | 0.1 | 0.1 | Pass | |
| Method B blank | | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | | |
| Acenaphthene | mg L | 0.001 | 0.001 | Pass | |
| Acenaphthylene | mg L | 0.001 | 0.001 | Pass | |
| Anthracene | mg L | 0.001 | 0.001 | Pass | |
| Ben a anthracene | mg L | 0.001 | 0.001 | Pass | |
| Ben o a pyrene | mg L | 0.001 | 0.001 | Pass | |
| Ben o b fluoranthene | mg L | 0.001 | 0.001 | Pass | |
| Ben o g,h,i perylene | mg L | 0.001 | 0.001 | Pass | |
| Ben o k fluoranthene | mg L | 0.001 | 0.001 | Pass | |
| Chrysene | mg L | 0.001 | 0.001 | Pass | |
| Diben a,h anthracene | mg L | 0.001 | 0.001 | Pass | |
| Fluoranthene | mg L | 0.001 | 0.001 | Pass | |
| Fluorene | mg L | 0.001 | 0.001 | Pass | |
| Indeno 1,2, cd pyrene | mg L | 0.001 | 0.001 | Pass | |
| Naphthalene | mg L | 0.001 | 0.001 | Pass | |
| Phenanthrene | mg L | 0.001 | 0.001 | Pass | |
| Pyrene | mg L | 0.001 | 0.001 | Pass | |
| Method B blank | | | | | |
| Organochlorine Pesticides | | | | | |
| Chlordanes T otal | mg L | 0.001 | 0.001 | Pass | |
| . DDD | mg L | 0.0001 | 0.0001 | Pass | |
| . DDE | mg L | 0.0001 | 0.0001 | Pass | |
| . DDT | mg L | 0.0001 | 0.0001 | Pass | |
| a BHC | mg L | 0.0001 | 0.0001 | Pass | |
| Aldrin | mg L | 0.0001 | 0.0001 | Pass | |
| b BHC | mg L | 0.0001 | 0.0001 | Pass | |
| d BHC | mg L | 0.0001 | 0.0001 | Pass | |
| Dieldrin | mg L | 0.0001 | 0.0001 | Pass | |
| Endosulfan I | mg L | 0.0001 | 0.0001 | Pass | |
| Endosulfan II | mg L | 0.0001 | 0.0001 | Pass | |



| Test | Units | Result 1 | Acceptance Limits | Pass Limits | Qualifying Code |
|-----------------------------|-------|----------|-------------------|-------------|-----------------|
| Endosulfan sulphate | mg L | 0.0001 | 0.0001 | Pass | |
| Endrin | mg L | 0.0001 | 0.0001 | Pass | |
| Endrin aldehyde | mg L | 0.0001 | 0.0001 | Pass | |
| Endrin ketone | mg L | 0.0001 | 0.0001 | Pass | |
| g BHC Lindane | mg L | 0.0001 | 0.0001 | Pass | |
| Heptachlor | mg L | 0.0001 | 0.0001 | Pass | |
| Heptachlor epoxide | mg L | 0.0001 | 0.0001 | Pass | |
| Hexachlorobenzene | mg L | 0.0001 | 0.0001 | Pass | |
| Methoxychlor | mg L | 0.0001 | 0.0001 | Pass | |
| Toxaphene | mg L | 0.01 | 0.01 | Pass | |
| Method B blank | | | | | |
| Organophosphorus Pesticides | | | | | |
| Azinphos methyl | mg L | 0.002 | 0.002 | Pass | |
| Bolstar | mg L | 0.002 | 0.002 | Pass | |
| Chlorfenvinphos | mg L | 0.002 | 0.002 | Pass | |
| Chlorpyrifos | mg L | 0.02 | 0.02 | Pass | |
| Chlorpyrifos methyl | mg L | 0.002 | 0.002 | Pass | |
| Coumaphos | mg L | 0.02 | 0.02 | Pass | |
| Demeton S | mg L | 0.02 | 0.02 | Pass | |
| Demeton O | mg L | 0.002 | 0.002 | Pass | |
| Diazinon | mg L | 0.002 | 0.002 | Pass | |
| Dichlorvos | mg L | 0.002 | 0.002 | Pass | |
| Dimethoate | mg L | 0.002 | 0.002 | Pass | |
| Disulfoton | mg L | 0.002 | 0.002 | Pass | |
| EPN | mg L | 0.002 | 0.002 | Pass | |
| Ethion | mg L | 0.002 | 0.002 | Pass | |
| Ethionprop | mg L | 0.002 | 0.002 | Pass | |
| Ethion parathion | mg L | 0.002 | 0.002 | Pass | |
| Fenitrothion | mg L | 0.002 | 0.002 | Pass | |
| Fensulfothion | mg L | 0.002 | 0.002 | Pass | |
| Fenthion | mg L | 0.002 | 0.002 | Pass | |
| Malathion | mg L | 0.002 | 0.002 | Pass | |
| Merphos | mg L | 0.002 | 0.002 | Pass | |
| Methyl parathion | mg L | 0.002 | 0.002 | Pass | |
| Mevinphos | mg L | 0.002 | 0.002 | Pass | |
| Monocrotophos | mg L | 0.002 | 0.002 | Pass | |
| Naled | mg L | 0.002 | 0.002 | Pass | |
| O methoate | mg L | 0.002 | 0.002 | Pass | |
| Phorate | mg L | 0.002 | 0.002 | Pass | |
| Pirimiphos methyl | mg L | 0.02 | 0.02 | Pass | |
| Pyraophos | mg L | 0.002 | 0.002 | Pass | |
| Ronnel | mg L | 0.002 | 0.002 | Pass | |
| Terbufos | mg L | 0.002 | 0.002 | Pass | |
| Tetrachlorvinphos | mg L | 0.002 | 0.002 | Pass | |
| Toxothion | mg L | 0.002 | 0.002 | Pass | |
| Trichloronate | mg L | 0.002 | 0.002 | Pass | |
| Method B blank | | | | | |
| Polychlorinated Biphenyls | | | | | |
| Aroclor 101 | mg L | 0.001 | 0.001 | Pass | |
| Aroclor 1221 | mg L | 0.001 | 0.001 | Pass | |
| Aroclor 12 2 | mg L | 0.001 | 0.001 | Pass | |
| Aroclor 12 2 | mg L | 0.001 | 0.001 | Pass | |
| Aroclor 12 8 | mg L | 0.001 | 0.001 | Pass | |
| Aroclor 125 | mg L | 0.001 | 0.001 | Pass | |



| Test | Units | Result 1 | Acceptance Limits | Pass Limits | Qualifying Code |
|--|-------|----------|-------------------|-------------|-----------------|
| Aroclor 12 0 | mg L | 0.001 | 0.001 | Pass | |
| Total PCB | mg L | 0.001 | 0.001 | Pass | |
| Method B blank | | | | | |
| Phenols (Halogenated) | | | | | |
| 2 Chlorophenol | mg L | 0.00 | 0.00 | Pass | |
| 2, 4 Dichlorophenol | mg L | 0.00 | 0.00 | Pass | |
| 2, 5 Dichlorophenol | mg L | 0.01 | 0.01 | Pass | |
| 2, 6 Dichlorophenol | mg L | 0.01 | 0.01 | Pass | |
| 2, 4 Dichlorophenol | mg L | 0.00 | 0.00 | Pass | |
| Chloro methylphenol | mg L | 0.01 | 0.01 | Pass | |
| Pentachlorophenol | mg L | 0.01 | 0.01 | Pass | |
| Tetrachlorophenols Total | mg L | 0.0 | 0.0 | Pass | |
| Method B blank | | | | | |
| Phenols (non Halogenated) | | | | | |
| 2 Cyclohexyl, 4 dinitrophenol | mg L | 0.1 | 0.1 | Pass | |
| 2 Methyl, 4 dinitrophenol | mg L | 0.0 | 0.0 | Pass | |
| 2 Methylphenol o Cresol | mg L | 0.00 | 0.00 | Pass | |
| 2 Nitrophenol | mg L | 0.01 | 0.01 | Pass | |
| 2, 4 Dimethylphenol | mg L | 0.00 | 0.00 | Pass | |
| 2, 6 Dinitrophenol | mg L | 0.0 | 0.0 | Pass | |
| Methylphenol m p Cresol | mg L | 0.00 | 0.00 | Pass | |
| Nitrophenol | mg L | 0.0 | 0.0 | Pass | |
| Dinoseb | mg L | 0.1 | 0.1 | Pass | |
| Phenol | mg L | 0.00 | 0.00 | Pass | |
| Method B blank | | | | | |
| Heavy Metals | | | | | |
| Arsenic | mg L | 0.001 | 0.001 | Pass | |
| Cadmium | mg L | 0.0002 | 0.0002 | Pass | |
| Chromium | mg L | 0.001 | 0.001 | Pass | |
| Copper | mg L | 0.001 | 0.001 | Pass | |
| Lead | mg L | 0.001 | 0.001 | Pass | |
| Mercury | mg L | 0.0001 | 0.0001 | Pass | |
| Nickel | mg L | 0.001 | 0.001 | Pass | |
| Inc | mg L | 0.005 | 0.005 | Pass | |
| LCS Recovery | | | | | |
| Total Recoverable Hydrocarbons 1 NEPM Fractions | | | | | |
| T RHC C | | 110 | 0 1 0 | Pass | |
| T RH C10 C1 | | 112 | 0 1 0 | Pass | |
| LCS Recovery | | | | | |
| B TEX | | | | | |
| Ben ene | | 10 | 0 1 0 | Pass | |
| Toluene | | 10 | 0 1 0 | Pass | |
| Ethylben ene | | 10 | 0 1 0 | Pass | |
| m p X ylenes | | 110 | 0 1 0 | Pass | |
| X ylenes Total | | 10 | 0 1 0 | Pass | |
| LCS Recovery | | | | | |
| Total Recoverable Hydrocarbons 2013 NEPM Fractions | | | | | |
| Naphthalene | | 120 | 0 1 0 | Pass | |
| T RHC C10 | | 112 | 0 1 0 | Pass | |
| T RH C10 C1 | | 11 | 0 1 0 | Pass | |
| LCS Recovery | | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | | |
| Acenaphthene | | 101 | 0 1 0 | Pass | |
| Acenaphthylene | | 8 | 0 1 0 | Pass | |



| Test | Units | Result 1 | Acceptance Limits | Pass Limits | Qualifying Code |
|-----------------------------|-------|----------|-------------------|-------------|-----------------|
| Anthracene | | 10 | 0 1 0 | | Pass |
| Ben a anthracene | | 100 | 0 1 0 | | Pass |
| Ben o a pyrene | | 110 | 0 1 0 | | Pass |
| Ben o b fluoranthene | | 118 | 0 1 0 | | Pass |
| Ben o g,h,i perylene | | 11 | 0 1 0 | | Pass |
| Ben o k fluoranthene | | 112 | 0 1 0 | | Pass |
| Chrysene | | 118 | 0 1 0 | | Pass |
| Diben a,h anthracene | | 0 | 0 1 0 | | Pass |
| Fluoranthene | | 122 | 0 1 0 | | Pass |
| Fluorene | | 105 | 0 1 0 | | Pass |
| Indeno 1,2, cd pyrene | | 8 | 0 1 0 | | Pass |
| Naphthalene | | | 0 1 0 | | Pass |
| Phenanthrene | | 10 | 0 1 0 | | Pass |
| Pyrene | | 12 | 0 1 0 | | Pass |
| LCS Recovery | | | | | |
| Organochlorine Pesticides | | | | | |
| Chlordanes T otal | | 101 | 0 1 0 | | Pass |
| . DDD | | | 0 1 0 | | Pass |
| . DDE | | 10 | 0 1 0 | | Pass |
| . DDT | | | 0 1 0 | | Pass |
| a BHC | | 108 | 0 1 0 | | Pass |
| Aldrin | | 10 | 0 1 0 | | Pass |
| b BHC | | 102 | 0 1 0 | | Pass |
| d BHC | | 8 | 0 1 0 | | Pass |
| Dieldrin | | 110 | 0 1 0 | | Pass |
| Endosulfan I | | 8 | 0 1 0 | | Pass |
| Endosulfan II | | 8 | 0 1 0 | | Pass |
| Endosulfan sulphate | | 8 | 0 1 0 | | Pass |
| Endrin | | | 0 1 0 | | Pass |
| Endrin aldehyde | | 1 | 0 1 0 | | Pass |
| Endrin ketone | | 5 | 0 1 0 | | Pass |
| g BHC Lindane | | 110 | 0 1 0 | | Pass |
| Heptachlor | | 85 | 0 1 0 | | Pass |
| Heptachlor epoxide | | 100 | 0 1 0 | | Pass |
| Hexachloroben ene | | | 0 1 0 | | Pass |
| Methoxychlor | | 8 | 0 1 0 | | Pass |
| LCS Recovery | | | | | |
| Organophosphorus Pesticides | | | | | |
| Dia inon | | 111 | 0 1 0 | | Pass |
| Dimethoate | | 2 | 0 1 0 | | Pass |
| Ethion | | 10 | 0 1 0 | | Pass |
| Fenitrothion | | | 0 1 0 | | Pass |
| Methyl parathion | | | 0 1 0 | | Pass |
| Mevinphos | | 8 | 0 1 0 | | Pass |
| LCS Recovery | | | | | |
| Phenols (Halogenated) | | | | | |
| 2 Chlorophenol | | 8 | 0 1 0 | | Pass |
| 2, Dichlorophenol | | | 0 1 0 | | Pass |
| 2, .5 T richlorophenol | | | 0 1 0 | | Pass |
| 2, . T richlorophenol | | 8 | 0 1 0 | | Pass |
| 2, Dichlorophenol | | 0 | 0 1 0 | | Pass |
| Chloro methylphenol | | | 0 1 0 | | Pass |
| Pentachlorophenol | | | 0 1 0 | | Pass |
| T etrachlorophenols T otal | | 0 | 0 1 0 | | Pass |



| Test | Units | Result 1 | Acceptance Limits | Pass Limits | Qualifying Code | | |
|--------------------------------|---------------|----------------|-------------------|-------------|-------------------|-------------|-----------------|
| LCS Recovery | | | | | | | |
| Phenols (non Halogenated) | | | | | | | |
| 2 Cyclohexyl . dinitrophenol | | | 0 1 0 | Pass | | | |
| 2 Methyl . dinitrophenol | | 8 | 0 1 0 | Pass | | | |
| 2 Methylphenol o Cresol | | | 0 1 0 | Pass | | | |
| 2 Nitrophenol | | | 0 1 0 | Pass | | | |
| 2. Dimethylphenol | | | 0 1 0 | Pass | | | |
| 2. Dinitrophenol | | 1 | 0 1 0 | Pass | | | |
| Methylphenol m p Cresol | | | 0 1 0 | Pass | | | |
| Dinoseb | | 8 | 0 1 0 | Pass | | | |
| Phenol | | 2 | 0 1 0 | Pass | | | |
| LCS Recovery | | | | | | | |
| Heavy Metals | | | | | | | |
| Arsenic | | 11 | 80 120 | Pass | | | |
| Cadmium | | 110 | 80 120 | Pass | | | |
| Chromium | | 112 | 80 120 | Pass | | | |
| Copper | | 11 | 80 120 | Pass | | | |
| Lead | | 115 | 80 120 | Pass | | | |
| Mercury | | 11 | 5 125 | Pass | | | |
| Nickel | | 11 | 80 120 | Pass | | | |
| inc | | 11 | 80 120 | Pass | | | |
| Test | Lab Sample ID | QA Source | Units | Result 1 | Acceptance Limits | Pass Limits | Qualifying Code |
| Spike Recovery | | | | | | | |
| Organochlorine Pesticides | | | | | | | |
| | | | | Result 1 | | | |
| Chlordanes Total | M18 Au225 | NCP | | 8 | 0 1 0 | Pass | |
| . DDD | M18 Au225 | NCP | | 82 | 0 1 0 | Pass | |
| . DDE | M18 Au225 | NCP | | | 0 1 0 | Pass | |
| . DDT | M18 Au225 | NCP | | 8 | 0 1 0 | Pass | |
| a BHC | M18 Au225 | NCP | | 2 | 0 1 0 | Pass | |
| Aldrin | M18 Au225 | NCP | | 85 | 0 1 0 | Pass | |
| b BHC | M18 Au225 | NCP | | 2 | 0 1 0 | Pass | |
| d BHC | M18 Au225 | NCP | | 2 | 0 1 0 | Pass | |
| Dieldrin | M18 Au225 | NCP | | 10 | 0 1 0 | Pass | |
| Endosulfan I | M18 Au225 | NCP | | 88 | 0 1 0 | Pass | |
| Endosulfan II | M18 Au225 | NCP | | 8 | 0 1 0 | Pass | |
| Endosulfan sulphate | M18 Au225 | NCP | | 5 | 0 1 0 | Pass | |
| Endrin | M18 Au225 | NCP | | 88 | 0 1 0 | Pass | |
| Endrin aldehyde | M18 Au225 | NCP | | 88 | 0 1 0 | Pass | |
| Endrin ketone | M18 Au225 | NCP | | | 0 1 0 | Pass | |
| g BHC Lindane | M18 Au225 | NCP | | 8 | 0 1 0 | Pass | |
| Heptachlor | M18 Au225 | NCP | | | 0 1 0 | Pass | |
| Heptachlor epoxide | M18 Au225 | NCP | | 1 | 0 1 0 | Pass | |
| Hexachlorobenzene | M18 Au225 | NCP | | 1 | 0 1 0 | Pass | |
| Methoxychlor | M18 Au225 | NCP | | 12 | 0 1 0 | Pass | |
| Spike Recovery | | | | | | | |
| Organophosphorus Pesticides | | | | | | | |
| | | | | Result 1 | | | |
| Diazinon | M18 Au11 | 1 NCP | | 10 | 0 1 0 | Pass | |
| Dimethoate | M18 Au11 | 1 NCP | | 82 | 0 1 0 | Pass | |
| Ethion | M18 Au11 | 1 NCP | | 110 | 0 1 0 | Pass | |
| Fenitrothion | M18 Au11 | 1 NCP | | 0 | 0 1 0 | Pass | |
| Methyl parathion | M18 Au11 | 1 NCP | | 8 | 0 1 0 | Pass | |
| Mevinphos | M18 Au11 | 1 NCP | | 81 | 0 1 0 | Pass | |
| Spike Recovery | | | | | | | |
| Total Recoverable Hydrocarbons | 1 | NEPM Fractions | | Result 1 | | | |



| Test | Lab Sample ID | QA Source | Units | Result 1 | Acceptance Limits | Pass Limits | Qualifying Code |
|----------------------------------|---------------------|-----------|-------|----------|-------------------|-------------|-----------------|
| T RH C10 C1 | M18 Au21208 | NCP | | 110 | 0 1 0 | | Pass |
| Spike Recovery | | | | | | | |
| Total Recoverable Hydrocarbons | 2013 NEPM Fractions | | | Result 1 | | | |
| T RH C10 C1 | M18 Au21208 | NCP | | 10 | 0 1 0 | | Pass |
| Spike Recovery | | | | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | Result 1 | | | |
| Acenaphthene | M18 Au2050 | NCP | | 11 | 0 1 0 | | Pass |
| Acenaphthylene | M18 Au2050 | NCP | | 11 | 0 1 0 | | Pass |
| Anthracene | M18 Au2050 | NCP | | 12 | 0 1 0 | | Pass |
| Ben a anthracene | M18 Au2050 | NCP | | | 0 1 0 | | Pass |
| Ben o a pyrene | M18 Au2050 | NCP | | 101 | 0 1 0 | | Pass |
| Ben o b fluoranthene | M18 Au2050 | NCP | | 101 | 0 1 0 | | Pass |
| Ben o g,h,i perylene | M18 Au2050 | NCP | | 10 | 0 1 0 | | Pass |
| Ben o k fluoranthene | M18 Au2050 | NCP | | 12 | 0 1 0 | | Pass |
| Chrysene | M18 Au2050 | NCP | | 111 | 0 1 0 | | Pass |
| Diben a,h anthracene | M18 Au2050 | NCP | | 8 | 0 1 0 | | Pass |
| Fluoranthene | M18 Au2050 | NCP | | 11 | 0 1 0 | | Pass |
| Fluorene | M18 Au2050 | NCP | | 121 | 0 1 0 | | Pass |
| Indeno 1,2, cd pyrene | M18 Au2050 | NCP | | 8 | 0 1 0 | | Pass |
| Naphthalene | M18 Au2050 | NCP | | 10 | 0 1 0 | | Pass |
| Phenanthrene | M18 Au2050 | NCP | | 12 | 0 1 0 | | Pass |
| Pyrene | M18 Au2050 | NCP | | 11 | 0 1 0 | | Pass |
| Spike Recovery | | | | | | | |
| Phenols (Halogenated) | | | | Result 1 | | | |
| 2 Chlorophenol | M18 Au2050 | NCP | | 2 | 0 1 0 | | Pass |
| 2, Dichlorophenol | M18 Au2050 | NCP | | 8 | 0 1 0 | | Pass |
| 2, .5 T richlorophenol | M18 Au2050 | NCP | | | 0 1 0 | | Pass |
| 2, . T richlorophenol | M18 Au2050 | NCP | | | 0 1 0 | | Pass |
| 2, Dichlorophenol | M18 Au2050 | NCP | | 85 | 0 1 0 | | Pass |
| Chloro methylphenol | M18 Au2050 | NCP | | 85 | 0 1 0 | | Pass |
| Pentachlorophenol | M18 Au2050 | NCP | | | 0 1 0 | | Pass |
| T etrachlorophenols T otal | M18 Au2050 | NCP | | 5 | 0 1 0 | | Pass |
| Spike Recovery | | | | | | | |
| Phenols (non Halogenated) | | | | Result 1 | | | |
| 2 Cyclohexyl . dinitrophenol | M18 Au2050 | NCP | | 8 | 0 1 0 | | Pass |
| 2 Methylphenol o Cresol | M18 Au2050 | NCP | | 8 | 0 1 0 | | Pass |
| 2 Nitrophenol | M18 Au2050 | NCP | | 5 | 0 1 0 | | Pass |
| 2, Dimethylphenol | M18 Au2050 | NCP | | 85 | 0 1 0 | | Pass |
| Methylphenol m p Cresol | M18 Au2050 | NCP | | 81 | 0 1 0 | | Pass |
| Dinoseb | M18 Au2050 | NCP | | 8 | 0 1 0 | | Pass |
| Phenol | M18 Au2050 | NCP | | | 0 1 0 | | Pass |
| Spike Recovery | | | | | | | |
| Heavy Metals | | | | Result 1 | | | |
| Arsenic | M18 Au18211 | NCP | | 110 | 5 125 | | Pass |
| Cadmium | M18 Au18211 | NCP | | | 5 125 | | Pass |
| Chromium | M18 Au18211 | NCP | | 100 | 5 125 | | Pass |
| Copper | M18 Au18211 | NCP | | | 5 125 | | Pass |
| Lead | M18 Au18211 | NCP | | 8 | 5 125 | | Pass |
| Mercury | M18 Au18211 | NCP | | | 0 1 0 | | Pass |
| Nickel | M18 Au18211 | NCP | | 100 | 5 125 | | Pass |
| inc | M18 Au18211 | NCP | | 10 | 5 125 | | Pass |



| Test | Lab Sample ID | QA Source | Units | Result 1 | Result 2 | RPD | Acceptance Limits | Pass Limits | Qualifying Code |
|-----------------------------|---------------|-----------|-------|----------|----------|-----|-------------------|-------------|-----------------|
| Duplicate | | | | | | | | | |
| Organochlorine Pesticides | | | | Result 1 | Result 2 | RPD | | | |
| Chlordanes Total | S18 Au1 8 | NCP | mg L | 0.001 | 0.001 | 1 | 0 | Pass | |
| DDD | S18 Au1 8 | NCP | mg L | 0.0001 | 0.0001 | 1 | 0 | Pass | |
| DDE | S18 Au1 8 | NCP | mg L | 0.0001 | 0.0001 | 1 | 0 | Pass | |
| DDT | S18 Au1 8 | NCP | mg L | 0.0001 | 0.0001 | 1 | 0 | Pass | |
| a BHC | S18 Au1 8 | NCP | mg L | 0.0001 | 0.0001 | 1 | 0 | Pass | |
| Aldrin | S18 Au1 8 | NCP | mg L | 0.0001 | 0.0001 | 1 | 0 | Pass | |
| b BHC | S18 Au1 8 | NCP | mg L | 0.0001 | 0.0001 | 1 | 0 | Pass | |
| d BHC | S18 Au1 8 | NCP | mg L | 0.0001 | 0.0001 | 1 | 0 | Pass | |
| Dieldrin | S18 Au1 8 | NCP | mg L | 0.0001 | 0.0001 | 1 | 0 | Pass | |
| Endosulfan I | S18 Au1 8 | NCP | mg L | 0.0001 | 0.0001 | 1 | 0 | Pass | |
| Endosulfan II | S18 Au1 8 | NCP | mg L | 0.0001 | 0.0001 | 1 | 0 | Pass | |
| Endosulfan sulphate | S18 Au1 8 | NCP | mg L | 0.0001 | 0.0001 | 1 | 0 | Pass | |
| Endrin | S18 Au1 8 | NCP | mg L | 0.0001 | 0.0001 | 1 | 0 | Pass | |
| Endrin aldehyde | S18 Au1 8 | NCP | mg L | 0.0001 | 0.0001 | 1 | 0 | Pass | |
| Endrin ketone | S18 Au1 8 | NCP | mg L | 0.0001 | 0.0001 | 1 | 0 | Pass | |
| g BHC Lindane | S18 Au1 8 | NCP | mg L | 0.0001 | 0.0001 | 1 | 0 | Pass | |
| Heptachlor | S18 Au1 8 | NCP | mg L | 0.0001 | 0.0001 | 1 | 0 | Pass | |
| Heptachlor epoxide | S18 Au1 8 | NCP | mg L | 0.0001 | 0.0001 | 1 | 0 | Pass | |
| Hexachlorobenzene | S18 Au1 8 | NCP | mg L | 0.0001 | 0.0001 | 1 | 0 | Pass | |
| Methoxychlor | S18 Au1 8 | NCP | mg L | 0.0001 | 0.0001 | 1 | 0 | Pass | |
| Duplicate | | | | | | | | | |
| Organophosphorus Pesticides | | | | Result 1 | Result 2 | RPD | | | |
| A inphos methyl | S18 Au1 8 | NCP | mg L | 0.002 | 0.002 | 1 | 0 | Pass | |
| Bolstar | S18 Au1 8 | NCP | mg L | 0.002 | 0.002 | 1 | 0 | Pass | |
| Chlorfenvinphos | S18 Au1 8 | NCP | mg L | 0.002 | 0.002 | 1 | 0 | Pass | |
| Chlorpyrifos | S18 Au1 8 | NCP | mg L | 0.02 | 0.02 | 1 | 0 | Pass | |
| Chlorpyrifos methyl | S18 Au1 8 | NCP | mg L | 0.002 | 0.002 | 1 | 0 | Pass | |
| Coumaphos | S18 Au1 8 | NCP | mg L | 0.02 | 0.02 | 1 | 0 | Pass | |
| Demeton S | S18 Au1 8 | NCP | mg L | 0.02 | 0.02 | 1 | 0 | Pass | |
| Demeton O | S18 Au1 8 | NCP | mg L | 0.002 | 0.002 | 1 | 0 | Pass | |
| Diazinon | S18 Au1 8 | NCP | mg L | 0.002 | 0.002 | 1 | 0 | Pass | |
| Dichlorvos | S18 Au1 8 | NCP | mg L | 0.002 | 0.002 | 1 | 0 | Pass | |
| Dimethoate | S18 Au1 8 | NCP | mg L | 0.002 | 0.002 | 1 | 0 | Pass | |
| Disulfoton | S18 Au1 8 | NCP | mg L | 0.002 | 0.002 | 1 | 0 | Pass | |
| EPN | S18 Au1 8 | NCP | mg L | 0.002 | 0.002 | 1 | 0 | Pass | |
| Ethion | S18 Au1 8 | NCP | mg L | 0.002 | 0.002 | 1 | 0 | Pass | |
| Ethoprop | S18 Au1 8 | NCP | mg L | 0.002 | 0.002 | 1 | 0 | Pass | |
| Ethyl parathion | S18 Au1 8 | NCP | mg L | 0.002 | 0.002 | 1 | 0 | Pass | |
| Fenitrothion | S18 Au1 8 | NCP | mg L | 0.002 | 0.002 | 1 | 0 | Pass | |
| Fensulfothion | S18 Au1 8 | NCP | mg L | 0.002 | 0.002 | 1 | 0 | Pass | |
| Fenthion | S18 Au1 8 | NCP | mg L | 0.002 | 0.002 | 1 | 0 | Pass | |
| Malathion | S18 Au1 8 | NCP | mg L | 0.002 | 0.002 | 1 | 0 | Pass | |
| Merphos | S18 Au1 8 | NCP | mg L | 0.002 | 0.002 | 1 | 0 | Pass | |
| Methyl parathion | S18 Au1 8 | NCP | mg L | 0.002 | 0.002 | 1 | 0 | Pass | |
| Mevinphos | S18 Au1 8 | NCP | mg L | 0.002 | 0.002 | 1 | 0 | Pass | |
| Monocrotophos | S18 Au1 8 | NCP | mg L | 0.002 | 0.002 | 1 | 0 | Pass | |
| Naled | S18 Au1 8 | NCP | mg L | 0.002 | 0.002 | 1 | 0 | Pass | |
| O methoate | S18 Au1 8 | NCP | mg L | 0.002 | 0.002 | 1 | 0 | Pass | |
| Phorate | S18 Au1 8 | NCP | mg L | 0.002 | 0.002 | 1 | 0 | Pass | |
| Pirimiphos methyl | S18 Au1 8 | NCP | mg L | 0.02 | 0.02 | 1 | 0 | Pass | |
| Pyraophos | S18 Au1 8 | NCP | mg L | 0.002 | 0.002 | 1 | 0 | Pass | |
| Ronnel | S18 Au1 8 | NCP | mg L | 0.002 | 0.002 | 1 | 0 | Pass | |



| Duplicate | | | | | | | | | | |
|--|-----|---------|-----|----------|----------|----------|-----|---|------|--|
| Organophosphorus Pesticides | | | | | Result 1 | Result 2 | RPD | | | |
| T erbufos | S18 | Au1 | 8 | NCP mg L | 0.002 | 0.002 | 1 | 0 | Pass | |
| T etrachlorvinphos | S18 | Au1 | 8 | NCP mg L | 0.002 | 0.002 | 1 | 0 | Pass | |
| T okuthion | S18 | Au1 | 8 | NCP mg L | 0.002 | 0.002 | 1 | 0 | Pass | |
| T richloronate | S18 | Au1 | 8 | NCP mg L | 0.002 | 0.002 | 1 | 0 | Pass | |
| Duplicate | | | | | | | | | | |
| Total Recoverable Hydrocarbons 1 NEPM Fractions | | | | | Result 1 | Result 2 | RPD | | | |
| T RH C C | S18 | Au18888 | CP | mg L | 0.02 | 0.02 | 1 | 0 | Pass | |
| T RH C10 C1 | M18 | Au2120 | NCP | mg L | 0.05 | 0.05 | 1 | 0 | Pass | |
| T RH C15 C28 | M18 | Au2120 | NCP | mg L | 0.1 | 0.1 | 1 | 0 | Pass | |
| T RH C2 C | M18 | Au2120 | NCP | mg L | 0.1 | 0.1 | 1 | 0 | Pass | |
| Duplicate | | | | | | | | | | |
| B TEX | | | | | Result 1 | Result 2 | RPD | | | |
| Ben ene | S18 | Au18888 | CP | mg L | 0.001 | 0.001 | 1 | 0 | Pass | |
| T oluene | S18 | Au18888 | CP | mg L | 0.001 | 0.001 | 1 | 0 | Pass | |
| Ethylben ene | S18 | Au18888 | CP | mg L | 0.001 | 0.001 | 1 | 0 | Pass | |
| m p X ylenes | S18 | Au18888 | CP | mg L | 0.002 | 0.002 | 1 | 0 | Pass | |
| o X ylene | S18 | Au18888 | CP | mg L | 0.001 | 0.001 | 1 | 0 | Pass | |
| X ylenes T otal | S18 | Au18888 | CP | mg L | 0.00 | 0.00 | 1 | 0 | Pass | |
| Duplicate | | | | | | | | | | |
| Total Recoverable Hydrocarbons 2013 NEPM Fractions | | | | | Result 1 | Result 2 | RPD | | | |
| Naphthalene | S18 | Au18888 | CP | mg L | 0.01 | 0.01 | 1 | 0 | Pass | |
| T RH C C10 | S18 | Au18888 | CP | mg L | 0.02 | 0.02 | 1 | 0 | Pass | |
| T RH C10 C1 | M18 | Au2120 | NCP | mg L | 0.05 | 0.05 | 1 | 0 | Pass | |
| T RH C1 C | M18 | Au2120 | NCP | mg L | 0.1 | 0.1 | 1 | 0 | Pass | |
| T RH C C 0 | M18 | Au2120 | NCP | mg L | 0.1 | 0.1 | 1 | 0 | Pass | |
| Duplicate | | | | | | | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | | Result 1 | Result 2 | RPD | | | |
| Acenaphthene | M18 | Au20508 | NCP | mg L | 0.001 | 0.001 | 1 | 0 | Pass | |
| Acenaphthylene | M18 | Au20508 | NCP | mg L | 0.001 | 0.001 | 1 | 0 | Pass | |
| Anthracene | M18 | Au20508 | NCP | mg L | 0.001 | 0.001 | 1 | 0 | Pass | |
| Ben a anthracene | M18 | Au20508 | NCP | mg L | 0.001 | 0.001 | 1 | 0 | Pass | |
| Ben o a pyrene | M18 | Au20508 | NCP | mg L | 0.001 | 0.001 | 1 | 0 | Pass | |
| Ben o b fluoranthene | M18 | Au20508 | NCP | mg L | 0.001 | 0.001 | 1 | 0 | Pass | |
| Ben o g,h,i perylene | M18 | Au20508 | NCP | mg L | 0.001 | 0.001 | 1 | 0 | Pass | |
| Ben o k fluoranthene | M18 | Au20508 | NCP | mg L | 0.001 | 0.001 | 1 | 0 | Pass | |
| Chrysene | M18 | Au20508 | NCP | mg L | 0.001 | 0.001 | 1 | 0 | Pass | |
| Diben a,h anthracene | M18 | Au20508 | NCP | mg L | 0.001 | 0.001 | 1 | 0 | Pass | |
| Fluoranthene | M18 | Au20508 | NCP | mg L | 0.001 | 0.001 | 1 | 0 | Pass | |
| Fluorene | M18 | Au20508 | NCP | mg L | 0.001 | 0.001 | 1 | 0 | Pass | |
| Indeno 1,2, cd pyrene | M18 | Au20508 | NCP | mg L | 0.001 | 0.001 | 1 | 0 | Pass | |
| Naphthalene | M18 | Au20508 | NCP | mg L | 0.001 | 0.001 | 1 | 0 | Pass | |
| Phenanthrene | M18 | Au20508 | NCP | mg L | 0.001 | 0.001 | 1 | 0 | Pass | |
| Pyrene | M18 | Au20508 | NCP | mg L | 0.001 | 0.001 | 1 | 0 | Pass | |
| Duplicate | | | | | | | | | | |
| Phenols (Halogenated) | | | | | Result 1 | Result 2 | RPD | | | |
| 2 Chlorophenol | M18 | Au20508 | NCP | mg L | 0.00 | 0.00 | 1 | 0 | Pass | |
| 2, Dichlorophenol | M18 | Au20508 | NCP | mg L | 0.00 | 0.00 | 1 | 0 | Pass | |
| 2, .5 T richlorophenol | M18 | Au20508 | NCP | mg L | 0.01 | 0.01 | 1 | 0 | Pass | |
| 2, . T richlorophenol | M18 | Au20508 | NCP | mg L | 0.01 | 0.01 | 1 | 0 | Pass | |
| 2, Dichlorophenol | M18 | Au20508 | NCP | mg L | 0.00 | 0.00 | 1 | 0 | Pass | |
| Chloro methylphenol | M18 | Au20508 | NCP | mg L | 0.01 | 0.01 | 1 | 0 | Pass | |
| Pentachlorophenol | M18 | Au20508 | NCP | mg L | 0.01 | 0.01 | 1 | 0 | Pass | |
| T etrachlorophenols T otal | M18 | Au20508 | NCP | mg L | 0.0 | 0.0 | 1 | 0 | Pass | |



| Duplicate | | | | | | | | | | | |
|---------------------------|----------------|---------------|-----|---------|-----|----------|----------|--------|-----|---|------|
| Phenols (non Halogenated) | | | | | | Result 1 | Result 2 | RPD | | | |
| 2 | Cyclohexyl | dinitrophenol | M18 | Au20508 | NCP | mg L | 0.1 | 0.1 | 1 | 0 | Pass |
| 2 | Methyl | dinitrophenol | M18 | Au20508 | NCP | mg L | 0.0 | 0.0 | 1 | 0 | Pass |
| 2 | Methylphenol | o Cresol | M18 | Au20508 | NCP | mg L | 0.00 | 0.00 | 1 | 0 | Pass |
| 2 | Nitrophenol | | M18 | Au20508 | NCP | mg L | 0.01 | 0.01 | 1 | 0 | Pass |
| 2. | Dimethylphenol | | M18 | Au20508 | NCP | mg L | 0.00 | 0.00 | 1 | 0 | Pass |
| 2. | Dinitrophenol | | M18 | Au20508 | NCP | mg L | 0.0 | 0.0 | 1 | 0 | Pass |
| | Methylphenol | m p Cresol | M18 | Au20508 | NCP | mg L | 0.00 | 0.00 | 1 | 0 | Pass |
| | Nitrophenol | | M18 | Au20508 | NCP | mg L | 0.0 | 0.0 | 1 | 0 | Pass |
| | Dinoseb | | M18 | Au20508 | NCP | mg L | 0.1 | 0.1 | 1 | 0 | Pass |
| | Phenol | | M18 | Au20508 | NCP | mg L | 0.00 | 0.00 | 1 | 0 | Pass |
| Duplicate | | | | | | | | | | | |
| Heavy Metals | | | | | | Result 1 | Result 2 | RPD | | | |
| | Arsenic | | M18 | Au18211 | NCP | mg L | 0.001 | 0.001 | 8.0 | 0 | Pass |
| | Cadmium | | M18 | Au18211 | NCP | mg L | 0.0002 | 0.0002 | 1 | 0 | Pass |
| | Chromium | | M18 | Au18211 | NCP | mg L | 0.002 | 0.002 | 2.0 | 0 | Pass |
| | Copper | | M18 | Au18211 | NCP | mg L | 0.00 | 0.00 | 2 | 0 | Pass |
| | Lead | | M18 | Au18211 | NCP | mg L | 0.002 | 0.002 | 0 | 0 | Pass |
| | Mercury | | M18 | Au18211 | NCP | mg L | 0.0001 | 0.0001 | 1 | 0 | Pass |
| | Nickel | | M18 | Au18211 | NCP | mg L | 0.00 | 0.00 | 0 | 0 | Pass |
| | inc | | M18 | Au18211 | NCP | mg L | 0.05 | 0.05 | 2.0 | 0 | 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 Holding Time | 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 C1 " 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 QA/QC acceptance criteria and are entirely technically valid. |
| N0 | F1 is determined by arithmetically subtracting the " Total BT EX " value from the " C C10" value. The " Total BT EX " value is obtained by summing the concentrations of BT EX analytes. The " C C10" value is obtained by quantitating against a standard of mixed aromatic aliphatic analytes. |
| N0 | 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

| | |
|----------------|------------------------------|
| Nibha Vaidya | Analytical Services Manager |
| Alex Petridis | Senior Analyst Metal V IC |
| Joseph Edouard | Senior Analyst Organic V IC |
| Harry Bacalis | Senior Analyst Volatile V IC |



Glenn Jackson

National Operations Manager

~~Final report - this report replaces any previously issued Report.~~

Indicates Not Requested

Indicates NAT A accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or [please see here](#).

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ABU - 50,005,085,594
 email: EnviroSales_eurofins.com
 web: www.eurofins.com.au
Melbourne
 25 Kingsten Town Close
 Oakleigh VIC 3186
 Phone: 12 00 80 00
 NAT A: 12 1 Site 20
 Site 126 1 2 1
Sydney
 11 Macleay Street NSW 20
 Phone: 12 00 80 00
 NAT A: 12 1 Site 20
 Site 1821
Perth
 121 Smallwood Place
 Murdoch WA 6150
 Phone: 12 00 80 00
 NAT A: 12 1 Site 20
 Site 2

Company Name: Trace Environmental P L
Address: Shop 2 New Canterbury Road
 Dutwich Hill NSW 220
Project Name: MASCO T
Project ID: 1,1
Order No.: 12 28
Report : 02 8 0 0555
Received: Aug 15 2018 5: 1 PM
Due: Aug 2 2018
Priority: 5 Day
Contact Name: Jack Ellis
Received: Aug 15 2018 5: 1 PM
Due: Aug 2 2018
Priority: 5 Day
Contact Name: Jack Ellis

Eurofins mgt Analytical Services Manager : Nibha V aldiya

| Sample Detail | | LAB ID | | | |
|---------------|-----------|-------------|---------------|--------|---------------|
| No | Sample ID | Sample Date | Sampling Time | Matrix | LAB ID |
| 1 | SB 2.0 | Aug 0 2018 | 2018 | Soil | S18 - Au188 |
| 2 | SB .0 | Aug 0 2018 | 2018 | Soil | S18 - Au188 |
| | SB 5.0 | Aug 0 2018 | 2018 | Soil | S18 - Au188 |
| | SB1 0. | Aug 1 2018 | 2018 | Soil | S18 - Au18850 |
| 5 | SB1 .0 | Aug 10 2018 | 2018 | Soil | S18 - Au18851 |
| | SB1 .0 | Aug 10 2018 | 2018 | Soil | S18 - Au18852 |
| | SB1 8.0 | Aug 10 2018 | 2018 | Soil | S18 - Au1885 |
| 8 | SB1 10.0 | Aug 10 2018 | 2018 | Soil | S18 - Au1885 |
| | SB1 .8 | Aug 10 2018 | 2018 | Soil | S18 - Au18855 |

| Asbestos | WA guidelines | | | | |
|-------------------------------------|---------------|---|---|---|---|
| | | X | | | |
| CANCELLED | | | X | | |
| HOLD | | | | X | |
| HOLD | | | | | X |
| Polycyclic Aromatic Hydrocarbons | | X | X | | |
| Metals M8 | | X | X | | |
| Eurofins mgt Suite B15 | | | X | | |
| Moisture Set | | | X | | |
| Acid Sulfate Soils Field pH Test | | | | X | |
| NEPM Screen for Soil Classification | | | X | | X |
| Eurofins mgt Suite B | | | X | | X |
| Eurofins mgt Suite B A | | | X | | X |



ABU - 50,005,086,594
 email : EnviroSales_eurofins.com
 web : www.eurofins.com.au
MALDEN
 25 Kingstons Town Close
 Oatridge VIC 3045
 Phone : 03 9450 0000
 NAT A : 12 1 Site 20
 Site : 12 1 Site 1821
SYDNEY
 11 Macleay Street NSW 2000
 Phone : 02 9550 0000
 NAT A : 12 1 Site 20
 Site : 12 1 Site 1821
MURRUMBidgee
 1 21 Smallwood Place
 Murrumbidgee NSW 2520
 Phone : 02 6331 0000
 NAT A : 12 1 Site 20
 Site : 12 1 Site 1821
Perth
 1 Leach Highway
 Kewdale WA 6105
 Phone : 08 9447 1211
 NAT A : 12 1 Site 20
 Site : 12 1 Site 1821

Company Name: Terrace Environmental P L
Address: Shop 2 New Canterbury Road
 Dutwich Hill NSW 2200
Project Name: MASCO T
Project ID: 1,1
Order No.: 12 28
Report : 02 B 0 0555
Phone:
Fax:
Received: Aug 15 2018 5: 1 PM
Due: Aug 2 2018
Priority: 5 Day
Contact Name: Jack Ellis
Service: mgmt Analytical Services Manager : Nibha V aldiya

| Sample Detail | Asbestos | WA guidelines | CANCELLED | HOLD | HOLD | Polycyclic Aromatic Hydrocarbons | Metals M8 | Eurofins mgt Suite B15 | Moisture Set | Acid Sulfate Soils Field pH T est | NEPM Screen for Soil Classification | Eurofins mgt Suite B | Eurofins mgt Suite B A |
|---|----------|---------------|-----------|------|------|----------------------------------|-----------|------------------------|--------------|-----------------------------------|-------------------------------------|----------------------|------------------------|
| Melbourne Laboratory NATA Site 12 4 & 14271 | | | | | | | | | | | | | |
| Sydney Laboratory NATA Site 1 217 | | | | | | | | | | | | | |
| Brisbane Laboratory NATA Site 207 4 | | | | | | | | | | | | | |
| Perth Laboratory NATA Site 23736 | | | | | | | | | | | | | |
| 10 SB1 .0 Aug 10 2018 | Soil | S18 Au1885 | | | | | | | | | | | |
| 11 SB1 8.0 Aug 10 2018 | Soil | S18 Au1885 | | | | | | | | | | | |
| 12 SB1 10.0 Aug 10 2018 | Soil | S18 Au1885 | | | | | | | | | | | |
| 1 SB20 5.0 Aug 08 2018 | Soil | S18 Au1885 | | | | | | | | | | | |
| 1 SB20 8.0 Aug 08 2018 | Soil | S18 Au188 1 | | | | | | | | | | | |
| 15 SB20 10.0 Aug 08 2018 | Soil | S18 Au188 1 | | | | | | | | | | | |
| 1 SB20 12.0 Aug 08 2018 | Soil | S18 Au188 2 | | | | | | | | | | | |
| 1 SB21 0.15 Aug 1 2018 | Soil | S18 Au188 | | | | | | | | | | | |
| 18 SB21 0. Aug 08 2018 | Soil | S18 Au188 | | | | | | | | | | | |
| 1 SB22 0.1 Aug 08 2018 | Soil | S18 Au188 3 | | | | | | | | | | | |
| 20 SB22 1. Aug 08 2018 | Soil | S18 Au188 3 | | | | | | | | | | | |
| 21 SB22 .0 Aug 08 2018 | Soil | S18 Au188 | | | | | | | | | | | |



ABL-60 095 085 924
 email: EnviroSales_eurofins.com
 web: www.eurofins.com.au

Melbourne
 25 King Street
 Melbourne VIC 3000
 Phone: 03 9592 1212
 Site: 1, 2, 1

Sydney**Perth**
 1 More Road
 Sydney NSW 2000
 Phone: 02 9592 1212
 Site: 1, 2, 1

Murumbidgee
 1 21 Smallwood Place
 Murumbidgee NSW 2520
 Phone: 02 6352 1212
 Site: 1, 2, 1

Leach Highway
 1 Leach Highway
 Kooloos WA 6051
 Phone: 08 9421 1212
 Site: 1, 2, 1

Company Name: Trace Environmental P L
Address: Shop 2, Dutwich Hill, New Canterbury Road, NSW 220
Project Name: MASCO T
Project ID: 1,1

Order No.: 12 28
Report : 02 8 0 0555
Phone:
Fax:

Received: Aug 15 2018 5: 1 PM
Due: Aug 2 2018
Priority: 5 Day
Contact Name: Jack Ellis

Eurofins mgt Analytical Services Manager: Nibha V aldiya

| Sample Detail | | Asbestos - WA guidelines | | CANCELLED | | HOLD | | HOLD | | Polycyclic Aromatic Hydrocarbons | | Metals M8 | | Eurofins mgt Suite B15 | | Moisture Set | | Acid Sulfate Soils Field pH T est | | NEPM Screen for Soil Classification | | Eurofins mgt Suite B | | Eurofins mgt Suite B A | | |
|----------------------|------------------------|--------------------------|-------|-----------|---------|------|--|------|--|----------------------------------|--|-----------|--|------------------------|--|--------------|--|-----------------------------------|--|-------------------------------------|--|----------------------|--|------------------------|--|--|
| Melbourne Laboratory | NATA Site 12 4 & 14271 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sydney Laboratory | NATA Site 1 217 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brisbane Laboratory | NATA Site 207 4 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Perth Laboratory | NATA Site 23736 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | SB 0.2 | Aug 1 2018 | Soil | S18 | Au18880 | X | | | | | | | | | | | | | | | | | | | | |
| | SB 0.25 | Aug 1 2018 | Soil | S18 | Au18881 | X | | | | | | | | | | | | | | | | | | | | |
| | SB 0.15 | Aug 1 2018 | Soil | S18 | Au18882 | X | | | | | | | | | | | | | | | | | | | | |
| | SB 0.25 | Aug 1 2018 | Soil | S18 | Au18888 | X | | | | | | | | | | | | | | | | | | | | |
| | SB2 0. | Aug 1 2018 | Soil | S18 | Au18888 | X | | | | | | | | | | | | | | | | | | | | |
| | SB2 0. | Aug 1 2018 | Soil | S18 | Au18885 | X | | | | | | | | | | | | | | | | | | | | |
| | SB25 0.25 | Aug 1 2018 | Soil | S18 | Au18888 | X | | | | | | | | | | | | | | | | | | | | |
| | 1 Q A2 | Aug 1 2018 | Soil | S18 | Au18888 | X | | | | | | | | | | | | | | | | | | | | |
| | 2 RB | Aug 1 2018 | Water | S18 | Au18888 | X | | | | | | | | | | | | | | | | | | | | |
| | SB1 0.5 | Aug 0 2018 | Soil | S18 | Au18888 | | | | | | | | | | | | | | | | | | | | | |
| | SB 0. | Aug 0 2018 | Soil | S18 | Au1888 | | | | | | | | | | | | | | | | | | | | | |
| | 5 SB .0 | Aug 0 2018 | Soil | S18 | Au188 1 | | | | | | | | | | | | | | | | | | | | | |



ABSL 50 095 085 594
 email : EnviroSales_eurofins.com
 web : www.eurofins.com.au

Melbourne
 2 5 Kingsten Town Close
 Oadleigh VIC 3086
 Phone : 03 9470 0000
 NAT A : 12 1 Site 1
 Site 1 2 1

Sydney
 1 Mare Road NSW 2000
 Phone : 02 9550 0000
 NAT A : 12 1 Site 1
 Site 1 2 1

Perth
 1 21 Smallwood Place
 Murdoch WA 6150
 Phone : 08 9447 1211
 NAT A : 12 1 Site 1
 Site 1 2 1

Leach Highway
 Kooladale WA 6051
 Phone : 08 9447 1211
 NAT A : 12 1 Site 1
 Site 1 2 1

Company Name: **T race Environmental P L**
 Address: **Shop 2 New Canterbury Road**
Dutwich Hill
NSW 220

Project Name: **MASCO T**
 Project ID: **1,1**

Order No.:
 Report : **12 28**
 Phone: **02 8 0 0555**
 Fax:

Received: **Aug 15 2018 5: 1 PM**
 Due: **Aug 2 2018**
 Priority: **5 Day**
 Contact Name: **ack Ellis**

Eurofins mgt Analytical Services Manager : Nibha V aldiya

| Sample Detail | | Asbestos | CANCELLED | HOLD | HOLD | Polycyclic Aromatic Hydrocarbons | Metals M8 | Eurofins mgt Suite B15 | Moisture Set | Acid Sulfate Soils Field pH T est | NEPM Screen for Soil Classification | Eurofins mgt Suite B | Eurofins mgt Suite B A |
|----------------------|---------------------------|----------|-----------|------|------|----------------------------------|-----------|------------------------|--------------|-----------------------------------|-------------------------------------|----------------------|------------------------|
| Melbourne Laboratory | NATA Site 12 4 & 14271 | X | X | | | | | | | | | | |
| Sydney Laboratory | NATA Site 1 217 | | | | | | | | | | | | |
| Brisbane Laboratory | NATA Site 207 4 | | | | | | | | | | | | |
| Perth Laboratory | NATA Site 23736 | | | | | | | | | | | | |
| | SB10 0.5 Aug 10 2018 Soil | | | | | | | | | | | | |
| | SB11 0.5 Aug 0 2018 Soil | | | | | | | | | | | | |
| 8 | SB11 .8 Aug 0 2018 Soil | | | | | | | | | | | | |
| | SB1 0.5 Aug 10 2018 Soil | | | | | | | | | | | | |
| 50 | SB1 1.2 Aug 10 2018 Soil | | | | | | | | | | | | |
| 51 | SB1 2.0 Aug 10 2018 Soil | | | | | | | | | | | | |
| 52 | SB1 .0 Aug 10 2018 Soil | | | | | | | | | | | | |
| 5 | SB1 5.0 Aug 10 2018 Soil | | | | | | | | | | | | |
| 5 | SB1 .0 Aug 10 2018 Soil | | | | | | | | | | | | |
| 55 | SB1 .0 Aug 10 2018 Soil | | | | | | | | | | | | |
| 5 | SB1 0.5 Aug 10 2018 Soil | | | | | | | | | | | | |
| 5 | SB1 5.0 Aug 10 2018 Soil | | | | | | | | | | | | |



ABL-60 095 085 594
 email: EnviroSales_eurofins.com
 web: www.eurofins.com.au

Melbourne
 25 King Street
 Melbourne VIC 3000
 Phone: 03 9592 1212
 Site: 1, 2, 1

Sydney**Perth**
 1 More Road
 Sydney NSW 2000
 Phone: 02 9592 1212
 NAT A: 12, 1 Site: 20
 NAT A: 12, 1 Site: 20

Perth
 1 Leach Highway
 Rockdale WA 6068
 Phone: 08 9447 1212
 NAT A: 12, 1 Site: 20

Company Name: Terrace Environmental P L
Address: Shop 2, Dutwich Hill, New Canterbury Road, NSW 2200
Project Name: MASCO T
Project ID: 1,1

Order No.: 12 28
Report : 02 8 0 0555
Phone:
Fax:

Received: Aug 15 2018 5: 1 PM
Due: Aug 2 2018
Priority: 5 Day
Contact Name: Jack Ellis

Eurofins mgt Analytical Services Manager: Nibha Valoya

| Sample Detail | | Asbestos WA guidelines | | CANCELLED | HOLD | HOLD | Polycyclic Aromatic Hydrocarbons | Metals M8 | Eurofins mgt Suite B15 | Moisture Set | Acid Sulfate Soils Field pH Test | NEPM Screen for Soil Classification | Eurofins mgt Suite B | Eurofins mgt Suite B A |
|----------------------|------------------------|------------------------|-------------|-----------|------|------|----------------------------------|-----------|------------------------|--------------|----------------------------------|-------------------------------------|----------------------|------------------------|
| Melbourne Laboratory | NATA Site 12 4 & 14271 | | | | | | | | | | | | | |
| Sydney Laboratory | NATA Site 1 217 | | | | | | | | | | | | | |
| Brisbane Laboratory | NATA Site 207 4 | | | | | | | | | | | | | |
| Perth Laboratory | NATA Site 23736 | | | | | | | | | | | | | |
| 58 SB1 | .0 Aug 10 2018 | Soil | S18 Au18 0 | | | | | | | | | | | |
| 5 SB1 | .0 Aug 10 2018 | Soil | S18 Au18 05 | | | | | | | | | | | |
| 0 SB20 | 0 Aug 08 2018 | Soil | S18 Au18 0 | | | | | | | | | | | |
| 1 SB20 | 1.0 Aug 08 2018 | Soil | S18 Au18 0 | | | | | | | | | | | |
| 2 SB20 | 2.2 Aug 08 2018 | Soil | S18 Au18 04 | | | | | | | | | | | |
| | SB20 2 Aug 08 2018 | Soil | S18 Au18 0 | | | | | | | | | | | |
| | SB20 .0 Aug 08 2018 | Soil | S18 Au18 10 | | | | | | | | | | | |
| | SB20 .0 Aug 08 2018 | Soil | S18 Au18 11 | | | | | | | | | | | |
| | SB20 .0 Aug 08 2018 | Soil | S18 Au18 12 | | | | | | | | | | | |
| | SB20 11.0 Aug 08 2018 | Soil | S18 Au18 1 | | | | | | | | | | | |
| | SB21 0.5 Aug 1 2018 | Soil | S18 Au18 1 | | | | | | | | | | | |
| | SB21 0.8 Aug 1 2018 | Soil | S18 Au18 15 | | | | | | | | | | | |



ABSL-50 095 085 594
 email : EnviroSales_eurofins.com
 web : www.eurofins.com.au
MALDEN
 2 5 Kingstee T own Close
 O adleigh V IC 65 5000
 Phone : 12 00 8 00 00
 NAT A 12 1 Site 20
 Site 1 2 1
SPRINGWOOD
 1 Merc Road
 Springwood NSW 20
 Phone : 12 00 8 00 00
 NAT A 12 1 Site 20
 Site 1 2 1
MURRUMBidgee
 1 21 Smallwood Place
 Murrumbidgee NSW 20
 Phone : 12 00 8 00 00
 NAT A 12 1 Site 20
 Site 1 2 1
Perth
 2 1 Leach Highway
 K ewdale WA 105
 Phone : 12 00 8 00 00
 NAT A 12 1 Site 20
 Site 1 2 1

Company Name: T race Environmental P L
Address: Shop 2 New Canterbury Road
 Dutwich Hill NSW 220
Project Name: MASCO T
Project ID: 1,1
Order No.: 12 28
Report : 02 8 0 0555
Phone:
Fax:
Received: Aug 15 2018 5: 1 PM
Due: Aug 2 2018
Priority: 5 Day
Contact Name: ack Ellis
Service: mgmt Analytical Services Manager : Nibha V aldiya

| Sample Detail | | Asbestos WA guidelines | | CANCELLED | HOLD | HOLD | Polycyclic Aromatic Hydrocarbons | Metals M8 | Eurofins mgt Suite B15 | Moisture Set | Acid Sulfate Soils Field pH T est | NEPM Screen for Soil Classification | Eurofins mgt Suite B | Eurofins mgt Suite B A |
|----------------------|------------------------|------------------------|------------|-----------|------|------|----------------------------------|-----------|------------------------|--------------|-----------------------------------|-------------------------------------|----------------------|------------------------|
| Melbourne Laboratory | NATA Site 12 4 & 14271 | Soil | S18 Au18 1 | | | | | | | | | | | |
| Sydney Laboratory | NATA Site 1 217 | Soil | S18 Au18 1 | | | | | | | | | | | |
| Brisbane Laboratory | NATA Site 207 4 | Soil | S18 Au18 1 | | | | | | | | | | | |
| Perth Laboratory | NATA Site 23736 | Soil | S18 Au18 1 | | | | | | | | | | | |
| 0 | SB22 0. Aug 1 2018 | Soil | S18 Au18 1 | | | | | | | | | | | |
| 1 | SB22 1.0 Aug 1 2018 | Soil | S18 Au18 1 | | | | | | | | | | | |
| 2 | SB22 2.0 Aug 1 2018 | Soil | S18 Au18 1 | | | | | | | | | | | |
| | SB22 2. Aug 1 2018 | Soil | S18 Au18 1 | | | | | | | | | | | |
| | SB22 .0 Aug 1 2018 | Soil | S18 Au18 2 | | | | | | | | | | | |
| 5 | SB2 0.2 Aug 1 2018 | Soil | S18 Au18 2 | | | | | | | | | | | |
| | SB2 1.0 Aug 1 2018 | Soil | S18 Au18 2 | | | | | | | | | | | |
| | SB2 .0 Aug 1 2018 | Soil | S18 Au18 2 | | | | | | | | | | | |
| 8 | SB2 5.0 Aug 1 2018 | Soil | S18 Au18 2 | | | | | | | | | | | |
| | SB2 .0 Aug 10 2018 | Soil | S18 Au18 2 | | | | | | | | | | | |
| 80 | SB2 .0 Aug 10 2018 | Soil | S18 Au18 2 | | | | | | | | | | | |
| 81 | SB2 0.2 Aug 08 2018 | Soil | S18 Au18 2 | | | | | | | | | | | |



ABSL - 50,005,085,594
 email : EnviroSales_eurofins.com
 web : www.eurofins.com.au
Melbourne
 2 5 Kingsten Tower Close
 Oakleigh VIC 3166 5000
 Phone : 12 00 80 00
 NAT A 12 1 Site 1821
Sydney
 11 More Road NSW 20
 Murrumbidgee NSW 251
 Phone : 12 00 80 00
 NAT A 12 1 Site 1821
Perth
 1 21 Smallwood Place
 Murdoch WA 6150
 Phone : 12 00 80 00
 NAT A 12 1 Site 20

Company Name: Trace Environmental P L
Address: Shop 2 New Canterbury Road
 Dutwich Hill NSW 220
Project Name: MASCO T
Project ID: 1,1
Order No.: 12 28
Report : 02 8 0 0555
Received: Aug 15 2018 5: 1 PM
Due: Aug 2 2018
Priority: 5 Day
Contact Name: Jack Ellis
Project Manager: Nibha Valiya

| Sample Detail | | Asbestos | CANCELLED | HOLD | HOLD | Polycyclic Aromatic Hydrocarbons | Metals M8 | Eurofins mgt Suite B15 | Moisture Set | Acid Sulfate Soils Field pH Test | NEPM Screen for Soil Classification | Eurofins mgt Suite B | Eurofins mgt Suite B A |
|----------------------|------------------------|----------|-----------|------|------|----------------------------------|-----------|------------------------|--------------|----------------------------------|-------------------------------------|----------------------|------------------------|
| Melbourne Laboratory | NATA Site 12 4 & 14271 | X | X | | | | | | | | | | |
| Sydney Laboratory | NATA Site 1 217 | | | | | | | | | | | | |
| Brisbane Laboratory | NATA Site 207 4 | | | | | | | | | | | | |
| Perth Laboratory | NATA Site 23736 | | | | | | | | | | | | |
| 82 SB2 | 1.0 Aug 08 2018 Soil | | | | | | | | | | | | |
| 8 SB2 | .1 Aug 08 2018 Soil | | | | | | | | | | | | |
| 8 SB2 | 5.0 Aug 08 2018 Soil | | | | | | | | | | | | |
| 85 SB2 | .0 Aug 08 2018 Soil | | | | | | | | | | | | |
| 8 SB2 | 0.2 Aug 1 2018 Soil | | | | | | | | | | | | |
| 8 SB22 | 0.5 Aug 1 2018 Soil | | | | | | | | | | | | |
| 88 SB8 | .0 Aug 1 2018 Soil | | | | | | | | | | | | |
| 8 SB1 | 1.2 Aug 10 2018 Soil | | | | | | | | | | | | |
| 0 SB20 | .0 Aug 08 2018 Soil | | | | | | | | | | | | |
| 1 SB20 | .3 Aug 08 2018 Soil | | | | | | | | | | | | |
| Test Counts | | 12 | 2 | | | 1 | 1 | | | 1 | 22 | 1 | 5 |



Head Office: 5 Kingston Town Closerit F Building F
Phone: 1 85 5000 Mars Road
NAT A: 12 1 Phone: 12 008
Site: 125 1 2 1 NAT A 12 1 Site 1821

Head Office: 1 21 Smallwood Place
Phone: 1 02
NAT A: 12 1 Site 20

Head Office: 2 1 Leach Highway
Phone: 1 8 251
NAT A: 12 1 Site 2

ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com web : www.eurofins.com.au

Sample Receipt Advice

Company name: **Trace Environmental P L**

Contact name: **Jack Ellis**
 Project name: **MASCO T**
 Project ID: **1.1**
 CO C number: **Not provided**
 Turn around time: **5 Day**
 Date Time received: **Aug 15 2018 5: 1 PM**
 Eurofins mgt reference: **1212222228**

Sample information

- A detailed list of analytes logged into our LIM S is included in the attached summary table.
- Sample Temperature of a random sample selected from the batch as recorded by Eurofins mgt Sample Receipt : 2. degrees Celsius.
- All samples have been received as described on the above CO C.
- CO C 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 .

Q A1A Q A2A Q S A Forwarded to ALS for analysis. Additional ASSpH bags for SB20 .0 SB20 .8 placed on hold. ASSpH bag not received for SB22 2.0 SB1 0. ASSpH analysis cancelled SB1 .0 ASSpH analysis cancelled .

Contact notes

If you have any questions with respect to these samples please contact:

Nibha V aidya on Phone : 1 2 00 8 15 or by e.mail: NibhaV aidya eurofins.com

Results will be delivered electronically via e.mail to Jack Ellis Jack traceenviro.com.



Environmental Laboratory
 Air Analysis
 Water Analysis
 Soil Contamination Analysis

NAT A Accreditation
 Stack Emission Sampling Analysis
 Trade Waste Sampling Analysis
 Groundwater Sampling Analysis

38 Years of Environmental Analysis & Experience



| | | Sydney 173 - 6 Building 16 Mairi Road, Lane Cove Phone: +612 9900 8400 Email: EnviroSampleNSW@eurofins.com.au | Brisbane Unit 1-21 Smallwood Place, Miraflo Phone: +617 3902 4600 Email: EnviroSampleQLD@eurofins.com.au | Melbourne 2 Kingston Town Close, Oakleigh, VIC 3106 Phone: +613 8564 5000 Fax: +613 8564 5090 Email: EnviroSampleVic@eurofins.com.au | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|--|---|--|----------|---------|---------|------------|----------------|-----------------------|----------------|-----------------------|----------------------|--|-------------------------------|-------------|------------------|-----------|--------------|----------|---------------|--------|---------------|---------|-------------------------|--------|-------------------------|----------|---------------------------|--------|--------|--|-----------------------|-----------|--------------------------|----------|--------------|--------|------------|--------|--|--|--|--|--|--|--|--|----------------|-----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----------|---------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----------|--------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|------------|---------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|------------|---------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|---|
| CHAIN OF CUSTODY RECORD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CLIENT DETAILS Company Name: TRACE Environment Office Address: 703-799 New Canterbury Road, Dulwich Hill, NSW | | Contact Name: <u>Jack Ellis</u> Project Manager: <u>Kerla Henderson</u> Email for results: <u>ken@traceenviro.com</u> | Purchase Order: PROJECT Number: <u>1.16</u> PROJECT Name: <u>MASCOT</u> | Page: 1 of 1 COC Number: <u>18080218A01</u> Eurofins I mgt quote ID: <u>1006</u> Data output format: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Special Directions: Please email invoices to accounts@traceenviro.com & Proj Manager | Analytes: Asbestos (w/v/w/v) Sub B7 Sub B7A Sub B7S PAH Sub B7S M8 VOC Full range HF & MH60* 28 PCAS Sub KZ1 | Some common holding times (with correct preservation). For further information contact the lab. <table border="1"> <thead> <tr> <th colspan="2">Waters</th> <th colspan="2">Soils</th> </tr> </thead> <tbody> <tr> <td>BTEX, MAH, VOC</td> <td>14 day</td> <td>BTEX, MAH, VOC</td> <td>14 days</td> </tr> <tr> <td>TRH, PAH, Phenols, P</td> <td>7 days</td> <td>TRH, PAH, Phenols, Pesticides</td> <td>14 days</td> </tr> <tr> <td>Heavy Metals</td> <td>6 mon</td> <td>Heavy Metals</td> <td>6 months</td> </tr> <tr> <td>Mercury, CrVI</td> <td>28 day</td> <td>Mercury, CrVI</td> <td>28 days</td> </tr> <tr> <td>Microbiological testing</td> <td>24 hoi</td> <td>Microbiological testing</td> <td>72 hours</td> </tr> <tr> <td>BOD, Nitrate, Nitrite, To</td> <td>2 days</td> <td>Anions</td> <td>28 days</td> </tr> <tr> <td>Solids - TSS, TDS etc</td> <td>7 days</td> <td>SPOCAS: pH Field and FOX</td> <td>24 hours</td> </tr> <tr> <td>Ferrous iron</td> <td>7 days</td> <td>ASLP, TCLP</td> <td>7 days</td> </tr> </tbody> </table> | | | Waters | | Soils | | BTEX, MAH, VOC | 14 day | BTEX, MAH, VOC | 14 days | TRH, PAH, Phenols, P | 7 days | TRH, PAH, Phenols, Pesticides | 14 days | Heavy Metals | 6 mon | Heavy Metals | 6 months | Mercury, CrVI | 28 day | Mercury, CrVI | 28 days | Microbiological testing | 24 hoi | Microbiological testing | 72 hours | BOD, Nitrate, Nitrite, To | 2 days | Anions | 28 days | Solids - TSS, TDS etc | 7 days | SPOCAS: pH Field and FOX | 24 hours | Ferrous iron | 7 days | ASLP, TCLP | 7 days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Waters | | Soils | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BTEX, MAH, VOC | 14 day | BTEX, MAH, VOC | 14 days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TRH, PAH, Phenols, P | 7 days | TRH, PAH, Phenols, Pesticides | 14 days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heavy Metals | 6 mon | Heavy Metals | 6 months | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mercury, CrVI | 28 day | Mercury, CrVI | 28 days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Microbiological testing | 24 hoi | Microbiological testing | 72 hours | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BOD, Nitrate, Nitrite, To | 2 days | Anions | 28 days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Solids - TSS, TDS etc | 7 days | SPOCAS: pH Field and FOX | 24 hours | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ferrous iron | 7 days | ASLP, TCLP | 7 days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eurofins I mgt DI water batch number: | <table border="1"> <thead> <tr> <th>Sample ID</th> <th>Date</th> <th>Matrix</th> <th>Asbestos</th> <th>Sub B7</th> <th>Sub B7A</th> <th>Sub B7S</th> <th>PAH</th> <th>Sub B7S M8</th> <th>VOC</th> <th>Full range HF & MH60*</th> <th>28 PCAS</th> <th>Sub KZ1</th> <th>HOLD</th> <th>Containers:</th> <th>Sample comments:</th> </tr> </thead> <tbody> <tr> <td>1 SB10/05</td> <td>1/8/18</td> <td>Soil</td> <td></td> <td>1LP, 250P, 125P, 1LA, 100L, 320L, Jar, Bag</td> <td>contact sample</td> </tr> <tr> <td>2 SB20/05</td> <td></td> <td>contact sample</td> </tr> <tr> <td>3 SB10/20</td> <td></td> </tr> <tr> <td>4 SB13/0</td> <td></td> </tr> <tr> <td>5 SB6/0-0</td> <td></td> </tr> <tr> <td>6 SB15/0</td> <td></td> </tr> <tr> <td>7 SB10/03</td> <td>10/1/18</td> <td></td> </tr> <tr> <td>8 SB11/03</td> <td>1/2/18</td> <td></td> </tr> <tr> <td>9 SB11/4-8</td> <td></td> </tr> <tr> <td>10 SB13/03</td> <td>13/3/18</td> <td></td> </tr> <tr> <td>11 SB14/03</td> <td>10/5/18</td> <td></td> </tr> <tr> <td>12 SB11/1-2</td> <td></td> </tr> <tr> <td>13 SB11/2-0</td> <td></td> </tr> <tr> <td>14 SB11/3-0</td> <td></td> </tr> <tr> <td>15 SB14/4-0</td> <td></td> </tr> <tr> <td>16 SB14/5-0</td> <td></td> </tr> </tbody> </table> | Sample ID | Date | Matrix | Asbestos | Sub B7 | Sub B7A | Sub B7S | PAH | Sub B7S M8 | VOC | Full range HF & MH60* | 28 PCAS | Sub KZ1 | HOLD | Containers: | Sample comments: | 1 SB10/05 | 1/8/18 | Soil | | | | | | | | | | | | 1LP, 250P, 125P, 1LA, 100L, 320L, Jar, Bag | contact sample | 2 SB20/05 | | | | | | | | | | | | | | | contact sample | 3 SB10/20 | | | | | | | | | | | | | | | | 4 SB13/0 | | | | | | | | | | | | | | | | 5 SB6/0-0 | | | | | | | | | | | | | | | | 6 SB15/0 | | | | | | | | | | | | | | | | 7 SB10/03 | 10/1/18 | | | | | | | | | | | | | | | 8 SB11/03 | 1/2/18 | | | | | | | | | | | | | | | 9 SB11/4-8 | | | | | | | | | | | | | | | | 10 SB13/03 | 13/3/18 | | | | | | | | | | | | | | | 11 SB14/03 | 10/5/18 | | | | | | | | | | | | | | | 12 SB11/1-2 | | | | | | | | | | | | | | | | 13 SB11/2-0 | | | | | | | | | | | | | | | | 14 SB11/3-0 | | | | | | | | | | | | | | | | 15 SB14/4-0 | | | | | | | | | | | | | | | | 16 SB14/5-0 | | | | | | | | | | | | | | | | Turn around time: 1 DAY, 2 DAY, 3 DAY, 5 DAY, 10 DAY, Other | Method Of Shipment: Courier, Hand Delivered, Postal, Courier Consignment | Temperature on arrival: Report number: <u>11012428</u> |
| Sample ID | Date | Matrix | Asbestos | Sub B7 | Sub B7A | Sub B7S | PAH | Sub B7S M8 | VOC | Full range HF & MH60* | 28 PCAS | Sub KZ1 | HOLD | Containers: | Sample comments: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 SB10/05 | 1/8/18 | Soil | | | | | | | | | | | | 1LP, 250P, 125P, 1LA, 100L, 320L, Jar, Bag | contact sample | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 SB20/05 | | | | | | | | | | | | | | | contact sample | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 4 SB13/0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 6 SB15/0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 SB10/03 | 10/1/18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 SB11/03 | 1/2/18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 SB11/4-8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 SB13/03 | 13/3/18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 SB14/03 | 10/5/18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 SB11/1-2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 SB11/2-0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 SB11/3-0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 SB14/4-0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 SB14/5-0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Requisitioned By: <u>Jack Ellis</u> Date & Time: <u>15/8/18</u> Signature: <u>[Signature]</u> | Received By: <u>[Signature]</u> Date & Time: <u>15/8/18</u> Signature: <u>[Signature]</u> | Laboratory Staff | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* pH box only (SPOCAS ASS method) "field test" - ASS AH (QUATA method - ASS/QUATA PH)
 All ASS bags have been frozen.

|  | | Sydny 1 F3 - 6 Building, 16 Mars Road, Lane Cove NSW 1500 Phone: +61 2 9900 8400 Email: EnviroSampleNSW@eurofins.com.au | Brisbane Unit 1-21 Smallwood Place, Murrumbidgee NSW 2500 Phone: +61 2 9902 4600 Email: EnviroSampleQLD@eurofins.com.au | Melbourne 2 Kingston Tower Class, Oakleigh, VIC 3166 Phone: +61 3 8594 5000 Fax: +61 3 8564 5090 Email: EnviroSampleVic@eurofins.com.au | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|----------|---|---|---|--------|--|-------|--|----------------|---------|----------------|---------|-----------------------|--------|------------------------------|---------|--------------|----------|--------------|----------|---------------|---------|---------------|---------|-------------------------|--------|-------------------------|----------|----------------------------|--------|--------|---------|-----------------------|--------|--------------------------|----------|--------------|--------|------------|--------|
| CHAIN OF CUSTODY RECORD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CLIENT DETAILS Company Name: TRACE Environment Office Address: 793-799 New Canterbury Road, Dulwich Hill, NSW Project Manager: <i>Sack Ellis</i> Email for results: <i>See COC Page 1</i> | | Purchase Order: PROJECT Number: <i>1.16</i> PROJECT Name: <i>Mascot</i> | Page 1 of 1 COC Number: <i>2 of 6</i> Eurofins I mat quote ID: <i>Seab</i> Data output format: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Special Directions: (Please refer to the ID accounts@traceenviro.com & Proj Manager) | | Some common holding times (with correct preservation). For further information contact the lab. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eurofins (mg/L) water batch number: | | <table border="1"> <thead> <tr> <th colspan="2">Waters</th> <th colspan="2">Soils</th> </tr> </thead> <tbody> <tr> <td>BTEX, MAH, VOC</td> <td>14 days</td> <td>BTEX, MAH, VOC</td> <td>14 days</td> </tr> <tr> <td>TRH, PAH, Phenols, Pb</td> <td>7 days</td> <td>TRH, PAH, Phenols, Pesticide</td> <td>14 days</td> </tr> <tr> <td>Heavy Metals</td> <td>6 months</td> <td>Heavy Metals</td> <td>6 months</td> </tr> <tr> <td>Mercury, CrVI</td> <td>28 days</td> <td>Mercury, CrVI</td> <td>28 days</td> </tr> <tr> <td>Microbiological testing</td> <td>24 hoi</td> <td>Microbiological testing</td> <td>72 hours</td> </tr> <tr> <td>BOD, Nitrate, Nitrite, TOC</td> <td>2 days</td> <td>Anions</td> <td>28 days</td> </tr> <tr> <td>Solids - TSS, TDS etc</td> <td>7 days</td> <td>SPOCAS, pH Field and FOX</td> <td>24 hours</td> </tr> <tr> <td>Ferrous iron</td> <td>7 days</td> <td>ASLR, TCLP</td> <td>7 days</td> </tr> </tbody> </table> | | | Waters | | Soils | | BTEX, MAH, VOC | 14 days | BTEX, MAH, VOC | 14 days | TRH, PAH, Phenols, Pb | 7 days | TRH, PAH, Phenols, Pesticide | 14 days | Heavy Metals | 6 months | Heavy Metals | 6 months | Mercury, CrVI | 28 days | Mercury, CrVI | 28 days | Microbiological testing | 24 hoi | Microbiological testing | 72 hours | BOD, Nitrate, Nitrite, TOC | 2 days | Anions | 28 days | Solids - TSS, TDS etc | 7 days | SPOCAS, pH Field and FOX | 24 hours | Ferrous iron | 7 days | ASLR, TCLP | 7 days |
| Waters | | Soils | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BTEX, MAH, VOC | 14 days | BTEX, MAH, VOC | 14 days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TRH, PAH, Phenols, Pb | 7 days | TRH, PAH, Phenols, Pesticide | 14 days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heavy Metals | 6 months | Heavy Metals | 6 months | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mercury, CrVI | 28 days | Mercury, CrVI | 28 days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Microbiological testing | 24 hoi | Microbiological testing | 72 hours | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BOD, Nitrate, Nitrite, TOC | 2 days | Anions | 28 days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Solids - TSS, TDS etc | 7 days | SPOCAS, pH Field and FOX | 24 hours | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ferrous iron | 7 days | ASLR, TCLP | 7 days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Analytes: <i>Allylchol (WA MepH)</i> <i>Suite B7</i> <i>Suite B7a</i> <i>Suite B15</i> <i>PAH</i> <i>Suite M8</i> <i>VOC</i> <i>Field Screen r H₂ & PH₆₀</i> <i>28 Ptas</i> <i>Suite K21</i> | | Containers: TLP, 250P, 125P, 1LA, 10mL, 20mL, Jar, Bag Sample comments: contact sample contact sample | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sample ID, Date, Matrix 1. SB16.0 12/16/18 Seawater 2. SB17.0 3. SB16.0 4. SB17.0 5. SB17.0 6. SB17.0 7. SB17.1 8. SB17.0 9. SB17.0 10. SB17.0 11. SB17.0 12. SB17.0 13. SB17.0 14. SB17.0 15. SB20.0 8/15/18 16. SB20.0 | | Turn around time: 1 DAY, 2 DAY, 3 DAY, 5 DAY, 10 DAY, Other Method of Shipment: Courier, Hand Delivered, Postal, Courier Consignment Temperature on arrival: Report number: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished By: <i>Sack Ellis</i> Date & Time: <i>14/8/18</i> Signature: <i>Sack Ellis</i> | | Received By: <i>[Signature]</i> Date & Time: <i>15/8/18 8:41 PM</i> Signature: <i>[Signature]</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* PH for only (SPOCAS ASS Method) "field test" - As page 1

| | | Sydney 1/3 - 6 Building, 16 Mars Road, Lane Cove Ph: +612 9900 8450 W: EnviroSampleNSW@eurofins.com.au | Brisbane Unit 1-21 Smallwood Place, Murrumbidgee Ph: +617 3902 4600 Email: EnviroSampleQLD@eurofins.com.au | Melbourne 2 Kingston Town Close, Oakleigh, VIC 3166 Phone: +613 8594 5000 Fax: +613 8594 5090 Email: EnviroSampleVic@eurofins.com.au | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| CHAIN OF CUSTODY RECORD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Page 1 of 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Company Name: TRACE Environment Office Address: 793-799 New Canterbury Road, Dulwich Hill, NSW | | Contact Name: <i>Sack Ellis</i> Project Manager: <i>See COC Page 1</i> Email for results: | | Purchase Order: PROJECT Number: <i>1-16</i> PROJECT Name: <i>Masrot</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Special Directions: Please email: accounts@traceenviro.com & Proj. Manager | | Some common holding times (with correct preservation) For further information contact the lab. | | COC Number: <i>3076</i> Eurofins I mat quote ID: <i>50291</i> Data output format: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Waters | | Soils | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BTEX, MAH, VOC | 14 days | BTEX, MAH, VOC | 14 days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TRH, PAH, Phenols, PC | 7 days | TRH, PAH, Phenols, Pesticides | 14 days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heavy Metals | 6 months | Heavy Metals | 6 months | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mercury, CrVI | 28 days | Mercury, CrVI | 28 days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Microbiological testing | 24 hrs | Microbiological testing | 72 hours | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BOD, Nitrate, Nitrite, T | 2 days | Anions | 28 days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Solids - TSS, TDS etc. | 7 days | SPOCAS, pH Field and FOX | 24 hours | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Forreus Iron | 7 days | ASLP, TCSP | 7 days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sample ID, Date, Matrix | | Asbestos (WA Method) Suite B7 Suite B7a Suite B15 PAH Suite M8 VOC In-house pH of pHox* 28 PFAS Suite 121 | | HOLD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Sample ID</th> <th>Date</th> <th>Matrix</th> <th>Asbestos (WA Method)</th> <th>Suite B7</th> <th>Suite B7a</th> <th>Suite B15</th> <th>PAH</th> <th>Suite M8</th> <th>VOC</th> <th>In-house pH of pHox*</th> <th>28 PFAS</th> <th>Suite 121</th> <th>HOLD</th> </tr> </thead> <tbody> <tr><td>1</td><td>5/20/18</td><td>17</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>2</td><td>5/20/18</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>3</td><td>5/20/18</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>4</td><td>5/20/18</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>5</td><td>5/20/18</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>6</td><td>5/20/18</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>7</td><td>5/20/18</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>8</td><td>5/20/18</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>9</td><td>5/20/18</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>10</td><td>5/20/18</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>11</td><td>5/21/18</td><td>18</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>12</td><td>5/21/18</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>13</td><td>5/21/18</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>14</td><td>5/21/18</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>15</td><td>5/22/18</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>16</td><td>5/22/18</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table> | | Sample ID | Date | Matrix | Asbestos (WA Method) | Suite B7 | Suite B7a | Suite B15 | PAH | Suite M8 | VOC | In-house pH of pHox* | 28 PFAS | Suite 121 | HOLD | 1 | 5/20/18 | 17 | | | | | | | | | | | | 2 | 5/20/18 | | | | | | | | | | | | | 3 | 5/20/18 | | | | | | | | | | | | | 4 | 5/20/18 | | | | | | | | | | | | | 5 | 5/20/18 | | | | | | | | | | | | | 6 | 5/20/18 | | | | | | | | | | | | | 7 | 5/20/18 | | | | | | | | | | | | | 8 | 5/20/18 | | | | | | | | | | | | | 9 | 5/20/18 | | | | | | | | | | | | | 10 | 5/20/18 | | | | | | | | | | | | | 11 | 5/21/18 | 18 | | | | | | | | | | | | 12 | 5/21/18 | | | | | | | | | | | | | 13 | 5/21/18 | | | | | | | | | | | | | 14 | 5/21/18 | | | | | | | | | | | | | 15 | 5/22/18 | | | | | | | | | | | | | 16 | 5/22/18 | | | | | | | | | | | | | Containers: 1LP, 250P, 125P, 1LA, 10L, 25L, Jar, Bag | Sample comments: contact sample contact sample |
| Sample ID | Date | Matrix | Asbestos (WA Method) | Suite B7 | Suite B7a | Suite B15 | PAH | Suite M8 | VOC | In-house pH of pHox* | 28 PFAS | Suite 121 | HOLD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 5/20/18 | 17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 3 | 5/20/18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 10 | 5/20/18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | 5/21/18 | 18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | 5/21/18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | 5/21/18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | 5/21/18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | 5/22/18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | 5/22/18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished by: <i>Sack Ellis</i> Date & Time: <i>14/8/18</i> Signature: <i>S Ellis</i> | | Received By: <i>Andrew W...</i> Date & Time: <i>15/08/18 5:11PM</i> Signature: <i>Andrew W...</i> | | Turn around time: 1 DAY, 2 DAY, 3 DAY, 5 DAY, 10 DAY, Other | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Method of Shipment: Courier, Hand Delivered, Postal, Courier Consignment | | Temperature on arrival: Report number | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

OS3000_R1 Issue Date: 22 August 2013 Page 1 of 1

* PHox only (SpOCAS ASS Method) "field test" - As Page 1

|  | | Sydney 1FS - 6 Building, 16 Mare Road, Lane Cove Tel: +612 9900 8400 Email: EnviroSampleNSW@eurofins.com.au | Brisbane Unit 1-21 Smallwood Place, Murrumbidgee Phone: +617 3902 4600 Email: EnviroSampleQLD@eurofins.com.au | Melbourne 2 Kingston Town Close, Oakleigh, VIC 3166 Phone: +613 8564 5000 Fax: +613 8564 5090 Email: EnviroSampleVic@eurofins.com.au | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| CHAIN OF CUSTODY RECORD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CLIENT DETAILS Page 1 of 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Company Name: TRACE Environment | | Contact Name: <i>Jack Ellis</i> | | Purchase Order: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Office Address: 793-799 New Canterbury Road, Dulwich Hill, NSW | | PROJECT Number: | | COC Number: <i>4 of 6</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Email for results: | | PROJECT Name: | | Eurofins lot quote ID: <i>See Pg 1</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Special Directions / Please contact accounts@traceenviro.com & Proj. Manager: | | Some common holding times (with correct preservation). For further information contact the lab. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eurofins (mg/L) water batch number: | | Analytes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1"> <thead> <tr> <th colspan="2">Waters</th> <th colspan="2">Soils</th> </tr> </thead> <tbody> <tr> <td>BTEX, MAH, VOC</td> <td>14 days</td> <td>BTEX, MAH, VOC</td> <td>14 days</td> </tr> <tr> <td>TRH, PAH, Phenols, PCB</td> <td>7 days</td> <td>TRH, PAH, Phenols, Pesticides</td> <td>14 days</td> </tr> <tr> <td>Heavy Metals</td> <td>6 mon</td> <td>Heavy Metals</td> <td>6 months</td> </tr> <tr> <td>Mercury, CrVI</td> <td>28 day</td> <td>Mercury, CrVI</td> <td>28 days</td> </tr> <tr> <td>Microbiological testing</td> <td>24 hrs</td> <td>Microbiological testing</td> <td>72 hours</td> </tr> <tr> <td>BOD, Nitrate, Nitrite, To</td> <td>2 days</td> <td>Anions</td> <td>28 days</td> </tr> <tr> <td>Solids - TSS, TDS etc</td> <td>7 days</td> <td>SPOCAS, pH Field and FOX</td> <td>24 hours</td> </tr> <tr> <td>Ferrous iron</td> <td>7 days</td> <td>ASLP, TCLP</td> <td>7 days</td> </tr> </tbody> </table> | | | Waters | | Soils | | BTEX, MAH, VOC | 14 days | BTEX, MAH, VOC | 14 days | TRH, PAH, Phenols, PCB | 7 days | TRH, PAH, Phenols, Pesticides | 14 days | Heavy Metals | 6 mon | Heavy Metals | 6 months | Mercury, CrVI | 28 day | Mercury, CrVI | 28 days | Microbiological testing | 24 hrs | Microbiological testing | 72 hours | BOD, Nitrate, Nitrite, To | 2 days | Anions | 28 days | Solids - TSS, TDS etc | 7 days | SPOCAS, pH Field and FOX | 24 hours | Ferrous iron | 7 days | ASLP, TCLP | 7 days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Waters | | Soils | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BTEX, MAH, VOC | 14 days | BTEX, MAH, VOC | 14 days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TRH, PAH, Phenols, PCB | 7 days | TRH, PAH, Phenols, Pesticides | 14 days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heavy Metals | 6 mon | Heavy Metals | 6 months | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mercury, CrVI | 28 day | Mercury, CrVI | 28 days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Microbiological testing | 24 hrs | Microbiological testing | 72 hours | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BOD, Nitrate, Nitrite, To | 2 days | Anions | 28 days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Solids - TSS, TDS etc | 7 days | SPOCAS, pH Field and FOX | 24 hours | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ferrous iron | 7 days | ASLP, TCLP | 7 days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Sample ID</th> <th>Date</th> <th>Matrix</th> <th>Asbestos (wt %)</th> <th>Subs B1</th> <th>Subs B2a</th> <th>Subs B2b</th> <th>PAH</th> <th>Subs MS</th> <th>VOC</th> <th>Substancs other than PHOX</th> <th>ZS PFAS</th> <th>Subs B21</th> <th>NOISE</th> <th>Containers:</th> <th>Sample comments:</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5/21/18</td> <td>soil</td> <td></td> <td>TLP, 250P, 125P, 1LA, 10mL, 25mL, Jar, B50</td> <td>contact sample</td> </tr> <tr> <td>2</td> <td>5/22/18</td> <td></td> <td>contact sample</td> </tr> <tr> <td>3</td> <td>5/22/18</td> <td></td> </tr> <tr> <td>4</td> <td>5/22/18</td> <td></td> </tr> <tr> <td>5</td> <td>5/22/18</td> <td></td> </tr> <tr> <td>6</td> <td>5/22/18</td> <td></td> </tr> <tr> <td>7</td> <td>5/22/18</td> <td></td> </tr> <tr> <td>8</td> <td>5/22/18</td> <td></td> </tr> <tr> <td>9</td> <td>5/22/18</td> <td></td> </tr> <tr> <td>10</td> <td>5/22/18</td> <td></td> </tr> <tr> <td>11</td> <td>5/26/18</td> <td></td> </tr> <tr> <td>12</td> <td>5/26/18</td> <td></td> </tr> <tr> <td>13</td> <td>5/26/18</td> <td></td> </tr> <tr> <td>14</td> <td>5/26/18</td> <td></td> </tr> <tr> <td>15</td> <td>5/26/18</td> <td></td> </tr> <tr> <td>16</td> <td>5/26/18</td> <td></td> </tr> </tbody> </table> | | Sample ID | Date | Matrix | Asbestos (wt %) | Subs B1 | Subs B2a | Subs B2b | PAH | Subs MS | VOC | Substancs other than PHOX | ZS PFAS | Subs B21 | NOISE | Containers: | Sample comments: | 1 | 5/21/18 | soil | | | | | | | | | | | | TLP, 250P, 125P, 1LA, 10mL, 25mL, Jar, B50 | contact sample | 2 | 5/22/18 | | | | | | | | | | | | | | contact sample | 3 | 5/22/18 | | | | | | | | | | | | | | | 4 | 5/22/18 | | | | | | | | | | | | | | | 5 | 5/22/18 | | | | | | | | | | | | | | | 6 | 5/22/18 | | | | | | | | | | | | | | | 7 | 5/22/18 | | | | | | | | | | | | | | | 8 | 5/22/18 | | | | | | | | | | | | | | | 9 | 5/22/18 | | | | | | | | | | | | | | | 10 | 5/22/18 | | | | | | | | | | | | | | | 11 | 5/26/18 | | | | | | | | | | | | | | | 12 | 5/26/18 | | | | | | | | | | | | | | | 13 | 5/26/18 | | | | | | | | | | | | | | | 14 | 5/26/18 | | | | | | | | | | | | | | | 15 | 5/26/18 | | | | | | | | | | | | | | | 16 | 5/26/18 | | | | | | | | | | | | | | | Laboratory Staff Turn around time: 1 DAY, 2 DAY, 3 DAY, 5 DAY, 10 DAY, Other | | Method Of Shipment: Courier, Hand Delivered, Postal, Courier Consignment | | Temperature on arrival: |
| Sample ID | Date | Matrix | Asbestos (wt %) | Subs B1 | Subs B2a | Subs B2b | PAH | Subs MS | VOC | Substancs other than PHOX | ZS PFAS | Subs B21 | NOISE | Containers: | Sample comments: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 5/21/18 | soil | | | | | | | | | | | | TLP, 250P, 125P, 1LA, 10mL, 25mL, Jar, B50 | contact sample | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 5/22/18 | | | | | | | | | | | | | | contact sample | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 7 | 5/22/18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 11 | 5/26/18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | 5/26/18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | 5/26/18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | 5/26/18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | 5/26/18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | 5/26/18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished: <i>Jack Ellis</i> | Received By: <i>Jack Ellis</i> | Date & Time: <i>16/8/18</i> | | Date & Time: <i>18/08/18 5:40PM</i> | Signature: <i>Jack Ellis</i> | Signature: <i>Jack Ellis</i> | Report number: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* pH box only (Spocas Ass Method) Field test - AS Page 1

| | | Sydney Unit F3 - 6 Building F, 16 Mars Road, Lane Cove Phone: +612 9900 8400 Email: EnviroSampleNSW@eurofins.com.au | Brisbane Unit 1-21 Smallwood Place, Murrumbidgee Phone: +617 3902 4000 Email: EnviroSampleQLD@eurofins.com.au | Melbourne 2 Kingston Town Close, Gaiadah, VIC 3166 Phone: +613 8564 5000 Fax: +613 8564 5000 Email: EnviroSampleVic@eurofins.com.au | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| CHAIN OF CUSTODY RECORD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Page 1 of 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CLIENT DETAILS Company Name: TRACE Environmental Office Address: 793-799 New Canterbury Road, Dulwich Hill, NSW, 2203 | | Contact Name: <i>Jack Ellis</i> Project Manager: <i>See (cc page 1)</i> Email for results: | | Purchase Order: PROJECT Number: <i>116</i> PROJECT Name: <i>Mascot</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Special Directions & Con: Please email invoices to accounts@traceenviro.com & Proj Manager | | Analytes: | | COC Number: <i>6 of 6</i> Eurofins mgt quote ID: <i>60491</i> Data output format: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eurofins mgt DI water batch number: | | Some common holding times (with correct preservation). For further information contact the lab | | Waters: BTEX, MAH, VOC: 14 days TRH, PAH, Phenols, Pet: 7 days Heavy Metals: 6 months Mercury, CrVI: 28 days Microbiological testing: 24 hrs BOD, Nitrate, Nitrite, Tot: 2 days Solids - TSS, TDS etc: 7 days Ferric iron: 7 days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Soils: BTEX, MAH, VOC: 14 days TRH, PAH, Phenols, Pesticides: 14 days Heavy Metals: 6 months Mercury, CrVI: 28 days Microbiological testing: 72 hours Anions: 28 days SPOCAS, pH Field and FOX, C: 24 hours ASLP, TCLP: 7 days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sample ID Date Matrix | | ASPOCAS (w/ NPOH) Sub 137 Sub 137a Sub B15 PAH Sub M8 VOC Field Screen pH, P, H, Fe, A ZS, PCAS Sub 1, 2, 1 | | HOLD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Sample ID</th> <th>Date</th> <th>Matrix</th> <th>ASPOCAS (w/ NPOH)</th> <th>Sub 137</th> <th>Sub 137a</th> <th>Sub B15</th> <th>PAH</th> <th>Sub M8</th> <th>VOC</th> <th>Field Screen pH, P, H, Fe, A</th> <th>ZS, PCAS</th> <th>Sub 1, 2, 1</th> <th>HOLD</th> <th>Containers:</th> <th>Sample comments:</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5/4/18</td> <td>Soil</td> <td>/</td> <td>1LP</td> <td>contact sample</td> </tr> <tr> <td>2</td> <td>5/8/18</td> <td>Soil</td> <td>/</td> <td>1LP</td> <td>contact sample</td> </tr> <tr> <td>3</td> <td>5/8/18</td> <td></td> <td>/</td> <td></td> <td></td> </tr> <tr> <td>4</td> <td>5/8/18</td> <td></td> <td>/</td> <td></td> <td></td> </tr> <tr> <td>5</td> <td>5/8/18</td> <td></td> <td>/</td> <td></td> <td></td> </tr> <tr> <td>6</td> <td>5/8/18</td> <td></td> <td>/</td> <td></td> <td></td> </tr> <tr> <td>7</td> <td>5/13/18</td> <td></td> <td>/</td> <td></td> <td></td> </tr> <tr> <td>8</td> <td>5/14/18</td> <td></td> <td>/</td> <td></td> <td></td> </tr> <tr> <td>9</td> <td>5/25/18</td> <td></td> <td>/</td> <td></td> <td></td> </tr> <tr> <td>10</td> <td>QA2</td> <td></td> <td>/</td> <td></td> <td></td> </tr> <tr> <td>11</td> <td>QA2</td> <td></td> <td>/</td> <td></td> <td>sent to cell</td> </tr> <tr> <td>12</td> <td>RRU</td> <td>Water</td> <td>/</td> <td></td> <td></td> </tr> <tr> <td>13</td> <td></td> </tr> <tr> <td>14</td> <td></td> </tr> <tr> <td>15</td> <td></td> </tr> <tr> <td>16</td> <td></td> </tr> </tbody> </table> | | Sample ID | Date | Matrix | ASPOCAS (w/ NPOH) | Sub 137 | Sub 137a | Sub B15 | PAH | Sub M8 | VOC | Field Screen pH, P, H, Fe, A | ZS, PCAS | Sub 1, 2, 1 | HOLD | Containers: | Sample comments: | 1 | 5/4/18 | Soil | / | / | / | / | / | / | / | / | / | / | / | 1LP | contact sample | 2 | 5/8/18 | Soil | / | / | / | / | / | / | / | / | / | / | / | 1LP | contact sample | 3 | 5/8/18 | | / | / | / | / | / | / | / | / | / | / | / | | | 4 | 5/8/18 | | / | / | / | / | / | / | / | / | / | / | / | | | 5 | 5/8/18 | | / | / | / | / | / | / | / | / | / | / | / | | | 6 | 5/8/18 | | / | / | / | / | / | / | / | / | / | / | / | | | 7 | 5/13/18 | | / | / | / | / | / | / | / | / | / | / | / | | | 8 | 5/14/18 | | / | / | / | / | / | / | / | / | / | / | / | | | 9 | 5/25/18 | | / | / | / | / | / | / | / | / | / | / | / | | | 10 | QA2 | | / | / | / | / | / | / | / | / | / | / | / | | | 11 | QA2 | | / | / | / | / | / | / | / | / | / | / | / | | sent to cell | 12 | RRU | Water | / | / | / | / | / | / | / | / | / | / | / | | | 13 | | | | | | | | | | | | | | | | 14 | | | | | | | | | | | | | | | | 15 | | | | | | | | | | | | | | | | 16 | | | | | | | | | | | | | | | | Method of Shipment: Courier <input type="checkbox"/> Hand Delivered <input type="checkbox"/> Postal <input type="checkbox"/> Courier Consignment <input type="checkbox"/> |
| Sample ID | Date | Matrix | ASPOCAS (w/ NPOH) | Sub 137 | Sub 137a | Sub B15 | PAH | Sub M8 | VOC | Field Screen pH, P, H, Fe, A | ZS, PCAS | Sub 1, 2, 1 | HOLD | Containers: | Sample comments: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 5/4/18 | Soil | / | / | / | / | / | / | / | / | / | / | / | 1LP | contact sample | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 5/8/18 | Soil | / | / | / | / | / | / | / | / | / | / | / | 1LP | contact sample | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 5/8/18 | | / | / | / | / | / | / | / | / | / | / | / | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 7 | 5/13/18 | | / | / | / | / | / | / | / | / | / | / | / | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 5/14/18 | | / | / | / | / | / | / | / | / | / | / | / | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 5/25/18 | | / | / | / | / | / | / | / | / | / | / | / | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | QA2 | | / | / | / | / | / | / | / | / | / | / | / | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | QA2 | | / | / | / | / | / | / | / | / | / | / | / | | sent to cell | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquisher: <i>Jack Ellis</i> Date & Time: <i>14/8/18</i> Signature: <i>Jack Ellis</i> | Received By: <i>[Signature]</i> Date & Time: <i>15/8/18 5:41 AM</i> Signature: <i>[Signature]</i> | Turn around time: 1 DAY <input type="checkbox"/> 2 DAY <input type="checkbox"/> 3 DAY <input type="checkbox"/> 4 DAY <input type="checkbox"/> 10 DAY <input type="checkbox"/> Other: | Temperature on arrival: Report number: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

CG3009 (R) Issue Date: 22 August 2013 Page 1 of 1

** PH box only (SPOCAS Method) Field Test - As page 1*



Certificate of Analysis

Trace Environmental P/L
 Shop 2, 7 3 7 New Canterbury Road
 Dulwich Hill
 NSW 2203



NATA Accredited
 Accreditation Number 1261
 Site Number 207 4

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: Ken Henderson
 Report 61424 S
 Project name MASCO T
 Project ID 1.1
 Received Date Aug 2 2018

| Client Sample ID | | | SB 6/2.0 | SB 6/ .0 | SB 14/ .0 | SB 17/10.0 | |
|--|------|----------|--------------|--------------|--------------|--------------|--------------|
| Sample Matrix | | | Soil | Soil | Soil | Soil | |
| Eurofins mgt Sample No. | | | B 1 Au33126 | B 1 Au33127 | B 1 Au3312 | B 1 Au3312 | B 1 Au3312 |
| Date Sampled | | | Not Provided |
| Test Reference | LO R | nit | | | | | |
| SPOCAS Suite | | | | | | | |
| pH K CL | 0.1 | pH nits | . | 5.8 | 5. | 5. | |
| pH OX | 0.1 | pH nits | .8 | . | .0 | .2 | |
| Acid trail T itratable Actual Acidity | 2 | mol H t | 2 | 2. | .8 | 2 | |
| Acid trail T itratable Peroxide Acidity | 2 | mol H t | 2 | 10 | 5 | 2 | |
| Acid trail T itratable Sulfidic Acidity | 2 | mol H t | 2 | 2 | 8 | 2 | |
| sulfidic T AA equiv. S pyrite | 0.02 | pyrite S | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| sulfidic T PA equiv. S pyrite | 0.02 | pyrite S | 0.02 | 0.02 | 0.08 | 0.0 | |
| sulfidic T SA equiv. S pyrite | 0.02 | pyrite S | 0.02 | 0.02 | 0.08 | 0.0 | |
| Sulfur K Cl Extractable | 0.02 | S | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Sulfur Peroxide | 0.02 | S | 0.02 | 0.02 | 0.0 | 0.0 | |
| Sulfur Peroxide Oxidisable Sulfur | 0.02 | S | 0.02 | 0.02 | 0.0 | 0.0 | |
| acidity Peroxide Oxidisable Sulfur | 10 | mol H t | 10 | 10 | | 20 | |
| HCl Extractable Sulfur | 0.02 | S | n a | n a | n a | n a | |
| Net Acid soluble sulfur | 0.02 | S | n a | n a | n a | n a | |
| Net Acid soluble sulfur acidity units | 10 | mol H t | n a | n a | n a | n a | |
| Net Acid soluble sulfur equivalent S pyrite | 0.02 | S | n a | n a | n a | n a | |
| Calcium K Cl Extractable | 0.02 | Ca | 0.0 | 0.02 | 0.02 | 0.02 | |
| Calcium Peroxide | 0.02 | Ca | 0.12 | 0.02 | 0.02 | 0.02 | |
| Acid Reacted Calcium | 0.02 | Ca | 0.08 | 0.02 | 0.02 | 0.02 | |
| acidity Acid Reacted Calcium | 10 | mol H t | 0 | 10 | 10 | 11 | |
| sulfidic Acid Reacted Ca equiv. S pyrite | 0.02 | S | 0.0 | 0.02 | 0.02 | 0.02 | |
| Magnesium K Cl Extractable | 0.02 | Mg | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Magnesium Peroxide | 0.02 | Mg | 0.02 | 0.02 | 0.02 | 0.02 | |
| Acid Reacted Magnesium | 0.02 | Mg | 0.02 | 0.02 | 0.02 | 0.02 | |
| acidity Acid Reacted Magnesium | 10 | mol H t | 10 | 10 | 10 | 10 | |
| sulfidic Acid Reacted Mg equiv. S pyrite | 0.02 | S | 0.02 | 0.02 | 0.02 | 0.02 | |
| Acid Neutralising Capacity ANCE | 0.02 | CaCO | 0.25 | n a | n a | n a | |
| Acid Neutralising Capacity Acidity units a ANCE | 10 | mol H t | | n a | n a | n a | |
| Acid Neutralising Capacity equivalent S pyrite s | 0.02 | S | 0.08 | n a | n a | n a | |
| ANC Fineness Factor | | factor | 1.5 | 1.5 | 1.5 | 1.5 | |
| SPOCAS Net Acidity Sulfur nits | 0.02 | S | 0.02 | 0.02 | 0.08 | 0.0 | |
| SPOCAS Net Acidity Acidity nits | 10 | mol H t | 10 | 10 | 51 | 20 | |
| SPOCAS Liming rate | 1 | kg CaCO | t 1 | 1 | .0 | 2.0 | |



| | | | | | | | |
|--|-------|----------|--------------|--------------|--------------|--------------|--------|
| Client Sample ID | | | SB 6/2.0 | SB 6/ .0 | SB 14/ .0 | SB 17/10.0 | |
| Sample Matrix | | | Soil | Soil | Soil | Soil | |
| Eurofins mgt Sample No. | | | B 1 Au33126 | B 1 Au33127 | B 1 Au3312 | B 1 Au3312 | Au3312 |
| Date Sampled | | | Not Provided | Not Provided | Not Provided | Not Provided | |
| Test Reference | LO R | nit | | | | | |
| Chromium Suite | | | | | | | |
| pH K CL | 0.1 | pH nits | . | 5.8 | 5. | 5. | |
| Acid trail T itratable Actual Acidity | 2 | mol H t | 2 | 2. | .8 | 2 | |
| sulfidic T AA equiv. S pyrite | 0.02 | pyrite S | 0.02 | 0.02 | 0.02 | 0.02 | |
| Chromium Reducible Sulfur | 0.005 | S | 0.005 | 0.005 | 0.051 | 0.022 | |
| Chromium Reducible Sulfur acidity units | | mol H t | | | 2 | 1 | |
| Sulfur K Cl Extractable | 0.02 | S | 0.02 | 0.02 | 0.02 | 0.02 | |
| HCl Extractable Sulfur | 0.02 | S | n a | n a | n a | n a | |
| Net Acid soluble sulfur | 0.02 | S | n a | n a | n a | n a | |
| Net Acid soluble sulfur acidity units | 10 | mol H t | n a | n a | n a | n a | |
| Net Acid soluble sulfur equivalent S pyrite | 0.02 | S | n a | n a | n a | n a | |
| Acid Neutralising Capacity ANCbt | 0.01 | CaCO | 0.12 | n a | n a | n a | |
| Acid Neutralising Capacity acidity a ANCbt | 2 | mol H t | 2 | n a | n a | n a | |
| Acid Neutralising Capacity equivalent S pyrite ANCbt ¹⁰ | 0.02 | S | 0.0 | n a | n a | n a | |
| ANC Fineness Factor | | factor | 1.5 | 1.5 | 1.5 | 1.5 | |
| CRS Suite Net Acidity Sulfur nits | 0.02 | S | 0.02 | 0.02 | 0.05 | 0.02 | |
| CRS Suite Net Acidity Acidity nits | 10 | mol H t | 10 | 10 | | 1 | |
| CRS Suite Liming Rate | 1 | kg CaCO | 1 | 1 | 2. | 1.0 | |
| Extraneous Material | | | | | | | |
| 2mm Fraction | 0.005 | g | 1 0 | | | 110 | |
| 2mm Fraction | 0.005 | g | 0.005 | 0.005 | 0.005 | 0.005 | |
| Analysed Material | 0.1 | | 100 | 100 | 100 | 100 | |
| Extraneous Material | 0.1 | | 0.1 | 0.1 | 0.1 | 0.1 | |
| Moisture | 1 | | 1. | 1 | 1 | 15 | |

| | | | | | | | |
|---|------|----------|--------------|--------------|--------------|--------------|---------|
| Client Sample ID | | | SB 20/ .0 | SB 20/12.0 | SB 22/ .0 | SB 26/2.0 | |
| Sample Matrix | | | Soil | Soil | Soil | Soil | |
| Eurofins mgt Sample No. | | | B 1 Au33130 | B 1 Au33131 | B 1 Au33132 | B 1 Au33133 | Au33133 |
| Date Sampled | | | Not Provided | Not Provided | Not Provided | Not Provided | |
| Test Reference | LO R | nit | | | | | |
| SPOCAS Suite | | | | | | | |
| pH K CL | 0.1 | pH nits | 5. | 5.2 | 5. | 8.2 | |
| pH O X | 0.1 | pH nits | 2.8 | .2 | .2 | .2 | |
| Acid trail T itratable Actual Acidity | 2 | mol H t | .0 | 8.2 | . | 2 | |
| Acid trail T itratable Peroxide Acidity | 2 | mol H t | | 82 | 2 | 2 | |
| Acid trail T itratable Sulfidic Acidity | 2 | mol H t | | | 1 | 2 | |
| sulfidic T AA equiv. S pyrite | 0.02 | pyrite S | 0.02 | 0.02 | 0.02 | 0.02 | |
| sulfidic T PA equiv. S pyrite | 0.02 | pyrite S | 0.12 | 0.1 | 0.0 | 0.02 | |
| sulfidic T SA equiv. S pyrite | 0.02 | pyrite S | 0.11 | 0.12 | 0.0 | 0.02 | |
| Sulfur K Cl Extractable | 0.02 | S | 0.02 | 0.02 | 0.02 | 0.02 | |
| Sulfur Peroxide | 0.02 | S | 0.0 | 0.08 | 0.02 | 0.0 | |
| Sulfur Peroxide Oxidisable Sulfur | 0.02 | S | 0.0 | 0.08 | 0.02 | 0.0 | |
| acidity Peroxide Oxidisable Sulfur | 10 | mol H t | 1 | 8 | 10 | 21 | |
| HCl Extractable Sulfur | 0.02 | S | n a | n a | n a | n a | |
| Net Acid soluble sulfur | 0.02 | S | n a | n a | n a | n a | |
| Net Acid soluble sulfur acidity units | 10 | mol H t | n a | n a | n a | n a | |
| Net Acid soluble sulfur equivalent S pyrite | 0.02 | S | n a | n a | n a | n a | |



| | | | | | | |
|--|-------|----------|--------------|--------------|--------------|--------------|
| Client Sample ID | | | SB 20/ .0 | SB 20/12.0 | SB 22/ .0 | SB 26/2.0 |
| Sample Matrix | | | Soil | Soil | Soil | Soil |
| Eurofins mgt Sample No. | | | B 1 Au33130 | B 1 Au33131 | B 1 Au33132 | B 1 Au33133 |
| Date Sampled | | | Not Provided | Not Provided | Not Provided | Not Provided |
| Test Reference | LO R | nit | | | | |
| SPOCAS Suite | | | | | | |
| Calcium K Cl Extractable | 0.02 | Ca | 0.02 | 0.02 | 0.0 | 0.05 |
| Calcium Peroxide | 0.02 | Ca | 0.02 | 0.02 | 0.0 | 0.05 |
| Acid Reacted Calcium | 0.02 | Ca | 0.02 | 0.02 | 0.02 | 0.02 |
| Acid Reacted Calcium | 10 | mol H t | 10 | 10 | 10 | 10 |
| sulfidic Acid Reacted Ca equiv. S pyrite | 0.02 | S | 0.02 | 0.02 | 0.02 | 0.02 |
| Magnesium K Cl Extractable | 0.02 | Mg | 0.02 | 0.02 | 0.02 | 0.02 |
| Magnesium Peroxide | 0.02 | Mg | 0.02 | 0.02 | 0.02 | 0.02 |
| Acid Reacted Magnesium | 0.02 | Mg | 0.02 | 0.02 | 0.02 | 0.02 |
| Acid Reacted Magnesium | 10 | mol H t | 10 | 10 | 10 | 10 |
| sulfidic Acid Reacted Mg equiv. S pyrite | 0.02 | S | 0.02 | 0.02 | 0.02 | 0.02 |
| Acid Neutralising Capacity ANCE | 0.02 | CaCO | n a | n a | n a | n a |
| Acid Neutralising Capacity Acidity units a ANCE | 10 | mol H t | n a | n a | n a | n a |
| Acid Neutralising Capacity equivalent S pyrite s ANCE | 0.02 | S | n a | n a | n a | n a |
| ANC Fineness Factor | | factor | 1.5 | 1.5 | 1.5 | 1.5 |
| SPOCAS Net Acidity Sulfur nits | 0.02 | S | 0.0 | 0.0 | 0.02 | 0.02 |
| SPOCAS Net Acidity Acidity nits | 10 | mol H t | 2 | 5 | 10 | 10 |
| SPOCAS Liming rate | 1 | kg CaCO | t 2.0 | .0 | 1 | 1.0 |
| Chromium Suite | | | | | | |
| pH K CL | 0.1 | pH nits | 5. | 5.2 | 5. | 8.2 |
| Acid titratable Actual Acidity | 2 | mol H t | .0 | 8.2 | . | 2 |
| sulfidic T AA equiv. S pyrite | 0.02 | pyrite S | 0.02 | 0.02 | 0.02 | 0.02 |
| Chromium Reducible Sulfur | 0.005 | S | 0.005 | 0.051 | 0.005 | 0.0 1 |
| Chromium Reducible Sulfur acidity units | | mol H t | | 2 | | 20 |
| Sulfur K Cl Extractable | 0.02 | S | 0.02 | 0.02 | 0.02 | 0.02 |
| HCl Extractable Sulfur | 0.02 | S | n a | n a | n a | n a |
| Net Acid soluble sulfur | 0.02 | S | n a | n a | n a | n a |
| Net Acid soluble sulfur acidity units | 10 | mol H t | n a | n a | n a | n a |
| Net Acid soluble sulfur equivalent S pyrite | 0.02 | S | n a | n a | n a | n a |
| Acid Neutralising Capacity ANCbt | 0.01 | CaCO | n a | n a | n a | 0.51 |
| Acid Neutralising Capacity acidity a ANCbt | 2 | mol H t | n a | n a | n a | 100 |
| Acid Neutralising Capacity equivalent S pyrite s ANCbt | 0.02 | S | n a | n a | n a | 0.1 |
| ANC Fineness Factor | | factor | 1.5 | 1.5 | 1.5 | 1.5 |
| CRS Suite Net Acidity Sulfur nits | 0.02 | S | 0.02 | 0.05 | 0.02 | 0.02 |
| CRS Suite Net Acidity Acidity nits | 10 | mol H t | 10 | 0 | 10 | 10 |
| CRS Suite Liming Rate | 1 | kg CaCO | t 1 | .0 | 1 | 1 |
| Extraneous Material | | | | | | |
| 2mm Fraction | 0.005 | g | | 120 | 1 0 | 120 |
| 2mm Fraction | 0.005 | g | 0.005 | 0.005 | 0.005 | 0.005 |
| Analysed Material | 0.1 | | 100 | 100 | 100 | 100 |
| Extraneous Material | 0.1 | | 0.1 | 0.1 | 0.1 | 0.1 |
| Moisture | 1 | | 1 | 1 | 1 | 1 |



| | | | | | | | |
|--|-------|----------|--------------|--------------|--------------|--------------|--|
| Client Sample ID | | | SB 26/6.0 | SB 26/10.0 | SB 14/6.0 | SB 17/3. | |
| Sample Matrix | | | Soil | Soil | Soil | Soil | |
| Eurofins mgt Sample No. | | | B 1 Au33134 | B 1 Au3313 | B 1 Au33136 | B 1 Au33137 | |
| Date Sampled | | | Not Provided | Not Provided | Not Provided | Not Provided | |
| Test Reference | LOR | nit | | | | | |
| SPOCAS Suite | | | | | | | |
| pH KCL | 0.1 | pH nits | 5. | . | . | . | |
| pH OX | 0.1 | pH nits | 2. | 2.5 | 5. | . | |
| Acid trail T itratable Actual Acidity | 2 | mol H t | . | 2 | 2 | 2 | |
| Acid trail T itratable Peroxide Acidity | 2 | mol H t | 5 | 1 0 | 2 | 2 | |
| Acid trail T itratable Sulfidic Acidity | 2 | mol H t | 51 | 1 0 | 2 | 2 | |
| sulfidic T AA equiv. S pyrite | 0.02 | pyrite S | 0.02 | 0.0 | 0.02 | 0.02 | |
| sulfidic T PA equiv. S pyrite | 0.02 | pyrite S | 0.0 | 0.2 | 0.02 | 0.02 | |
| sulfidic T SA equiv. S pyrite | 0.02 | pyrite S | 0.08 | 0.2 | 0.02 | 0.02 | |
| Sulfur K Cl Extractable | 0.02 | S | 0.02 | 0.02 | 0.02 | 0.02 | |
| Sulfur Peroxide | 0.02 | S | 0.0 | 0.1 | 0.02 | 0.05 | |
| Sulfur Peroxide Oxidisable Sulfur | 0.02 | S | 0.0 | 0.1 | 0.02 | 0.05 | |
| acidity Peroxide Oxidisable Sulfur | 10 | mol H t | 20 | 0 | 10 | | |
| HCl Extractable Sulfur | 0.02 | S | n a | n a | n a | n a | |
| Net Acid soluble sulfur | 0.02 | S | n a | n a | n a | n a | |
| Net Acid soluble sulfur acidity units | 10 | mol H t | n a | n a | n a | n a | |
| Net Acid soluble sulfur equivalent S pyrite | 0.02 | S | n a | n a | n a | n a | |
| Calcium K Cl Extractable | 0.02 | Ca | 0.02 | 0.02 | 0.02 | 0.1 | |
| Calcium Peroxide | 0.02 | Ca | 0.0 | 0.02 | 0.02 | 0.0 | |
| Acid Reacted Calcium | 0.02 | Ca | 0.02 | 0.02 | 0.02 | 0.12 | |
| acidity Acid Reacted Calcium | 10 | mol H t | 10 | 10 | 10 | 1 | |
| sulfidic Acid Reacted Ca equiv. S pyrite | 0.02 | S | 0.02 | 0.02 | 0.02 | 0.10 | |
| Magnesium K Cl Extractable | 0.02 | Mg | 0.02 | 0.02 | 0.02 | 0.02 | |
| Magnesium Peroxide | 0.02 | Mg | 0.02 | 0.02 | 0.02 | 0.02 | |
| Acid Reacted Magnesium | 0.02 | Mg | 0.02 | 0.02 | 0.02 | 0.02 | |
| acidity Acid Reacted Magnesium | 10 | mol H t | 10 | 10 | 10 | 10 | |
| sulfidic Acid Reacted Mg equiv. S pyrite | 0.02 | S | 0.02 | 0.02 | 0.02 | 0.02 | |
| Acid Neutralising Capacity ANCE | 0.02 | CaCO | n a | n a | n a | 0. | |
| Acid Neutralising Capacity Acidity units a ANCE | 10 | mol H t | n a | n a | n a | 8 | |
| Acid Neutralising Capacity equivalent S pyrite s ANCE | 0.02 | S | n a | n a | n a | 0.1 | |
| ANC Fineness Factor | | factor | 1.5 | 1.5 | 1.5 | 1.5 | |
| SPOCAS Net Acidity Sulfur nits | 0.02 | S | 0.0 | 0.1 | 0.02 | 0.02 | |
| SPOCAS Net Acidity Acidity nits | 10 | mol H t | 2 | 120 | 10 | 10 | |
| SPOCAS Liming rate | 1 | kg CaCO | t 2.0 | .0 | 1 | 1 | |
| Chromium Suite | | | | | | | |
| pH KCL | 0.1 | pH nits | 5. | . | . | . | |
| Acid trail T itratable Actual Acidity | 2 | mol H t | . | 2 | | | |
| sulfidic T AA equiv. S pyrite | 0.02 | pyrite S | 0.02 | 0.0 | | | |
| Chromium Reducible Sulfur | 0.005 | S | 0.011 | 0.0 8 | | | |
| Chromium Reducible Sulfur acidity units | | mol H t | | | | | |
| Sulfur K Cl Extractable | 0.02 | S | 0.02 | 0.02 | | | |
| 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 | 0.02 | S | n a | n a | | | |
| Acid Neutralising Capacity ANCBt | 0.01 | CaCO | n a | n a | | | |
| Acid Neutralising Capacity acidity a ANCBt | 2 | mol H t | n a | n a | | | |
| Acid Neutralising Capacity equivalent S pyrite s ANCBt | 0.02 | S | n a | n a | | | |
| ANC Fineness Factor | | factor | 1.5 | 1.5 | | | |



| | | | | | | | |
|------------------------------------|-------|---------|--------------|--------------|--------------|--------------|-----|
| Client Sample ID | | | SB 26/6.0 | SB 26/10.0 | SB 14/6.0 | SB 17/3. | |
| Sample Matrix | | | Soil | Soil | Soil | Soil | |
| Eurofins mgt Sample No. | | | B 1 Au33134 | B 1 Au3313 | B 1 Au33136 | B 1 Au33137 | |
| Date Sampled | | | Not Provided | Not Provided | Not Provided | Not Provided | |
| Test Reference | LO R | nit | | | | | |
| Chromium Suite | | | | | | | |
| CRS Suite Net Acidity Sulfur nits | 0.02 | S | 0.02 | 0.12 | | | |
| CRS Suite Net Acidity Acidity nits | 10 | mol H | t 1 | 5 | | | |
| CRS Suite Liming Rate | 1 | kg CaCO | t 1.0 | 5. | | | |
| Extraneous Material | | | | | | | |
| 2mm Fraction | 0.005 | g | 8 | 110 | | | 110 |
| 2mm Fraction | 0.005 | g | 0.005 | 0.005 | 0.005 | | 1.5 |
| Analysed Material | 0.1 | | 100 | 100 | 100 | | |
| Extraneous Material | 0.1 | | 0.1 | 0.1 | 0.1 | | 1. |
| Moisture | | | | | | | |
| | 1 | | 1 | 1 | 1 | | 15 |

| | | | | | | | |
|---|------|----------|--------------|--------------|--------------|--------------|--|
| Client Sample ID | | | SB 26/ .0 | SB 14/10.0 | SB 17/ .0 | SB 20/ .0 | |
| Sample Matrix | | | Soil | Soil | Soil | Soil | |
| Eurofins mgt Sample No. | | | B 1 Au3313 | B 1 Au3313 | B 1 Au33140 | B 1 Au33141 | |
| Date Sampled | | | Not Provided | Not Provided | Not Provided | Not Provided | |
| Test Reference | LO R | nit | | | | | |
| SPOCAS Suite | | | | | | | |
| pH KCL | 0.1 | pH nits | 5. | | | | |
| pH O X | 0.1 | pH nits | .0 | | | | |
| Acid trail T itratable Actual Acidity | 2 | mol H | t .0 | | | | |
| Acid trail T itratable Peroxide Acidity | 2 | mol H | t 2 | | | | |
| Acid trail T itratable Sulfidic Acidity | 2 | mol H | t 2 | | | | |
| sulfidic T AA equiv. S pyrite | 0.02 | pyrite S | 0.02 | | | | |
| sulfidic T PA equiv. S pyrite | 0.02 | pyrite S | 0.02 | | | | |
| sulfidic T SA equiv. S pyrite | 0.02 | pyrite S | 0.02 | | | | |
| Sulfur K Cl Extractable | 0.02 | S | 0.02 | | | | |
| Sulfur Peroxide | 0.02 | S | 0.08 | | | | |
| Sulfur Peroxide O xidisable Sulfur | 0.02 | S | 0.08 | | | | |
| acidity Peroxide O xidisable Sulfur | 10 | mol H | t 8 | | | | |
| 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 | | | | |
| Net Acid soluble sulfur equivalent S pyrite | 0.02 | S | n a | | | | |
| Calcium K Cl Extractable | 0.02 | Ca | 0.02 | | | | |
| Calcium Peroxide | 0.02 | Ca | 0.02 | | | | |
| Acid Reacted Calcium | 0.02 | Ca | 0.02 | | | | |
| acidity Acid Reacted Calcium | 10 | mol H | t 10 | | | | |
| sulfidic Acid Reacted Ca equiv. S pyrite | 0.02 | S | 0.02 | | | | |
| Magnesium K Cl Extractable | 0.02 | Mg | 0.02 | | | | |
| Magnesium Peroxide | 0.02 | Mg | 0.02 | | | | |
| Acid Reacted Magnesium | 0.02 | Mg | 0.02 | | | | |
| acidity Acid Reacted Magnesium | 10 | mol H | t 10 | | | | |
| sulfidic Acid Reacted Mg equiv. S pyrite | 0.02 | S | 0.02 | | | | |
| Acid Neutralising Capacity ANCE | 0.02 | CaCO | n a | | | | |
| Acid Neutralising Capacity Acidity units a ANCE | 10 | mol H | t n a | | | | |
| Acid Neutralising Capacity equivalent S pyrite s ANCE | 0.02 | S | n a | | | | |
| ANC Fineness Factor | | factor | 1.5 | | | | |



| | | | | | | | |
|--|-------|-----------|--------------|--------------|--------------|--------------|---------|
| Client Sample ID | | | SB 26/ .0 | SB 14/10.0 | SB 17/ .0 | SB 20/ .0 | |
| Sample Matrix | | | Soil | Soil | Soil | Soil | |
| Eurofins mgt Sample No. | | | B 1 Au3313 | B 1 Au3313 | B 1 Au33140 | B 1 Au33140 | Au33141 |
| Date Sampled | | | Not Provided | Not Provided | Not Provided | Not Provided | |
| Test Reference | LO R | nit | | | | | |
| SPOCAS Suite | | | | | | | |
| SPOCAS Net Acidity Sulfur nits | 0.02 | S | 0.0 | | | | |
| SPOCAS Net Acidity Acidity nits | 10 | mol H t | 5 | | | | |
| SPOCAS Liming rate | 1 | kg CaCO t | .0 | | | | |
| Chromium Suite | | | | | | | |
| pH KCL | 0.1 | pH nits | | 5. | 5. | 5. | |
| Acid trail T itratable Actual Acidity | 2 | mol H t | | 2. | 2 | .5 | |
| sulfidic T AA equiv. S pyrite | 0.02 | pyrite S | | 0.02 | 0.02 | 0.02 | |
| Chromium Reducible Sulfur | 0.005 | S | | 0.01 | 0.00 | 0.005 | |
| Chromium Reducible Sulfur acidity units | | mol H t | | | | | |
| Sulfur KCl Extractable | 0.02 | S | | n a | n a | n a | |
| 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 | 0.02 | S | | n a | n a | n a | |
| Acid Neutralising Capacity ANCbt | 0.01 | CaCO | | n a | n a | n a | |
| Acid Neutralising Capacity acidity a ANCbt | 2 | mol H t | | n a | n a | n a | |
| Acid Neutralising Capacity equivalent S pyrite ANCbt ³⁰ | 0.02 | S | | n a | n a | n a | |
| ANC Fineness Factor | | factor | | 1.5 | 1.5 | 1.5 | |
| CRS Suite Net Acidity Sulfur nits | 0.02 | S | | 0.02 | 0.02 | 0.02 | |
| CRS Suite Net Acidity Acidity nits | 10 | mol H t | | 12 | 10 | 10 | |
| CRS Suite Liming Rate | 1 | kg CaCO t | | 1 | 1 | 1 | |
| Extraneous Material | | | | | | | |
| 2mm Fraction | 0.005 | g | 120 | 110 | 120 | 110 | |
| 2mm Fraction | 0.005 | g | 0.005 | 0.005 | 0.005 | 0.005 | |
| Analysed Material | 0.1 | | 100 | 100 | 100 | 100 | |
| Extraneous Material | 0.1 | | 0.1 | 0.1 | 0.1 | 0.1 | |
| Moisture | | | | | | | |
| | 1 | | 18 | 1 | 1 | 1 | |

| | | | |
|---|-------|----------|--------------|
| Client Sample ID | | | SB 22/3.0 |
| Sample Matrix | | | Soil |
| Eurofins mgt Sample No. | | | B 1 Au33142 |
| Date Sampled | | | Not Provided |
| Test Reference | LO R | nit | |
| Chromium Suite | | | |
| pH KCL | 0.1 | pH nits | .1 |
| Acid trail T itratable Actual Acidity | 2 | mol H t | 2 |
| sulfidic T AA equiv. S pyrite | 0.02 | pyrite S | 0.02 |
| Chromium Reducible Sulfur | 0.005 | S | 0.005 |
| Chromium Reducible Sulfur acidity units | | mol H t | |
| Sulfur KCl Extractable | 0.02 | S | n a |
| 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 |
| Net Acid soluble sulfur equivalent S pyrite | 0.02 | S | n a |
| Acid Neutralising Capacity ANCbt | 0.01 | CaCO | n a |



| | | | |
|--|-------|---------|--------------|
| Client Sample ID | | | SB 22/3.0 |
| Sample Matrix | | | Soil |
| Eurofins mgt Sample No. | | | B 1 Au33142 |
| Date Sampled | | | Not Provided |
| Test Reference | LO R | nit | |
| Chromium Suite | | | |
| Acid Neutralising Capacity acidity a ANCbt | 2 | mol H | t n a |
| Acid Neutralising Capacity equivalent S pyrite s | 0.02 | S | n a |
| ANC Fineness Factor | | factor | 1.5 |
| CRS Suite Net Acidity Sulfur nits | 0.02 | S | 0.02 |
| CRS Suite Net Acidity Acidity nits | 10 | mol H | t 10 |
| CRS Suite Liming Rate | 1 | kg CaCO | t 1 |
| Extraneous Material | | | |
| 2mm Fraction | 0.005 | g | 100 |
| 2mm Fraction | 0.005 | g | 0.005 |
| Analysed Material | 0.1 | | 100 |
| Extraneous Material | 0.1 | | 0.1 |
| Moisture | | | |
| | 1 | | 2.5 |



Sample History

Where samples are submitted analysed over several days the last date of extraction and analysis is reported.
 A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this some of the method reference information on reports has changed. However no substantive change has been made to our laboratory methods and as such there is no change in the validity of current or previous results regarding both quality and NAT A accreditation.
 If the date and time of sampling are not provided the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

| Description | Testing Site | Extracted | Holding Time |
|--|--------------|-------------|--------------|
| SPOCAS Suite | | | |
| SPOCAS Suite | Brisbane | Aug 28 2018 | Week |
| Method: LTM GEN 050 | | | |
| Chromium Reducible Sulfur Suite | | | |
| Chromium Suite | Brisbane | Aug 28 2018 | Week |
| Method: LTM GEN 0 0 | | | |
| Extraneous Material | | | |
| Extraneous Material | Brisbane | Aug 28 2018 | Week |
| Method: LTM GEN 050 0 0 | | | |
| Moisture | | | |
| Moisture | Brisbane | Aug 2 2018 | 1 Day |
| Method: LTM GEN 080 Moisture | | | |



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

MAJOR ACCOUNTS
 2 5 Kingstee Tower Close
 Ocala QLD 4055
 NAT A: 12 1 2 1
 Site: 125 1 2 1

SPECIALTY
 1 Mt F Building F
 1 More Road NSW 20
 Phone: 12 00 8
 NAT A: 12 1 Site: 1821

ESTABLISHMENTS
 1 21 Smallwood Place
 Murrumbidgee NSW 2500
 NAT A: 12 1 Site: 20

PLANTS
 2 1 Leach Highway
 Koolah WA 6051
 NAT A: 12 1
 Site: 2

Company Name: Trace Environmental P L
Address: Shop 2 New Canterbury Road
 Dutwich Hill NSW 220
Project Name: MASCO T
Project ID: 1,1

Order No.: 1 2 5
Report : 02 8 0 0555
Phone:
Fax:

Received: Aug 2 2018 11:20 AM
Due: Sep 2018
Priority: 5 Day
Contact Name: Ken Henderson

Eurofins mgt Analytical Services Manager : Nibha V aldia

| No | Sample ID | Sample Date | Sampling Time | Matrix | LAB ID |
|----|-----------|--------------|---------------|--------|---------------|
| 1 | SB 2.0 | Not Provided | | Soil | B18 Au 12 X X |
| 2 | SB 5.0 | Not Provided | | Soil | B18 Au 12 X X |
| | SB1 8.0 | Not Provided | | Soil | B18 Au 12 X X |
| | SB1 10.0 | Not Provided | | Soil | B18 Au 12 X X |
| 5 | SB20 8.0 | Not Provided | | Soil | B18 Au 1 X X |
| | SB20 12.0 | Not Provided | | Soil | B18 Au 1 X X |
| | SB22 5.0 | Not Provided | | Soil | B18 Au 1 X X |
| 8 | SB2 2.0 | Not Provided | | Soil | B18 Au 1 X X |
| | SB2 .0 | Not Provided | | Soil | B18 Au 1 X X |

| Sample Detail | SPO CAS Suite | Chromium Reducible Sulfur Suite | Moisture Set |
|---|---------------|---------------------------------|--------------|
| Melbourne Laboratory NATA Site 12 4 & 14271 | | | |
| Sydney Laboratory NATA Site 1 217 | | | |
| Brisbane Laboratory NATA Site 207 4 | X X X | | |
| Perth Laboratory NATA Site 23736 | | | |
| External Laboratory | | | |



ABN: 50 005 085 521
email: EnviroSales@eurofins.com
web: www.eurofins.com.au
MAJOR ACCOUNTS:
 2 5 Kingstee Tower Close
 Ocala QLD 4055
 NAT A 12 1 2 1
 Site 125 1 2 1
SPRINGWOOD:
 1 Maree Road
 Springwood NSW 2073
 Phone: 12 00 8 00
 NAT A 12 1 Site 1821
SMITHFIELD:
 1 21 Smallwood Place
 Murrumbidgee NSW 2511
 Phone: 12 00 00 00
 NAT A 12 1 Site 20
ROCKWELL:
 1 Leach Highway
 Rockdale NSW 1515
 Phone: 12 00 00 00
 NAT A 12 1 Site 2

Company Name: Trace Environmental P L
Address: Shop 2, New Canterbury Road, Dutwich Hill, NSW 220
Project Name: MASCO T
Project ID: 1,1
Order No.: 1 2 5
Report : 02 8 0 0555
Phone:
Fax:
Received: Aug 2 2018 11:20 AM
Due: Sep 2018
Priority: 5 Day
Contact Name: Ken Henderson
Eurofins mgt Analytical Services Manager: Nibha V aldia

| Sample Detail | | SPO CAS Suite | | Chromium Reducible Sulfur Suite | | Moisture Set | |
|----------------------|------------------------|---------------|------|---------------------------------|----|--------------|---|
| Melbourne Laboratory | NATA Site 12 4 & 14271 | | | | | | |
| Sydney Laboratory | NATA Site 1 217 | | | | | | |
| Brisbane Laboratory | NATA Site 207 4 | X | X | X | X | X | X |
| Perth Laboratory | NATA Site 23736 | | | | | | |
| 10 | SB2 10.0 | Not Provided | Soil | B18 Au 1 | 8k | X | X |
| 11 | SB1 .0 | Not Provided | Soil | B18 Au 1 | X | X | X |
| 12 | SB1 .8 | Not Provided | Soil | B18 Au 1 | X | X | X |
| 1 | SB2 8.0 | Not Provided | Soil | B18 Au 1 | 8k | X | X |
| 1 | SB1 10.0 | Not Provided | Soil | B18 Au 1 | X | X | X |
| 15 | SB1 8.0 | Not Provided | Soil | B18 Au 1 | 0 | X | X |
| 1 | SB20 5.0 | Not Provided | Soil | B18 Au 1 | 1 | X | X |
| 1 | SB22 .0 | Not Provided | Soil | B18 Au 1 | 2 | X | X |
| Test Counts | | | | 1 | 1 | 1 | 1 |



Internal Quality Control Review and Glossary

General

- Laboratory QC results for Method Blanks Duplicates Matrix Spikes and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
- All soil results are reported on a dry basis unless otherwise stated.
 - All biota food results are reported on a wet weight basis on the edible portion unless otherwise stated.
 - Actual LO Rs are matrix dependant. Quoted LO Rs may be raised where sample extracts are diluted due to interferences.
- Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
 - SV OC analysis on waters are performed on homogenised unfiltered samples unless noted otherwise.
 - Samples were analysed on an as received basis.
- This report replaces any interim results previously issued.

Holding Times

Please refer to Sample Preservation and Container Guide for holding times Q S 001 .
 For samples received on the last day of holding time notification of testing requirements should have been received at least 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 days however for all other VOCs such as BT EX or C 10 T RH then the holding time is 1 days.
 NOTPH 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. |
| LCR | Limit of Reporting. |
| SPIK E | 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 deionised water. |
| 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 | Quality Systems Manual ver 5.1 US Department of Defense |
| 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 0 however the following acceptance guidelines are equally applicable:

- Results 10 times the LO R: No Limit
- Results between 10 20 times the LO R: RPD must lie between 0 50
- Results 20 times the LO R: RPD must lie between 0 0

Surrogate Recoveries: Recoveries must lie between 50 150 Phenols PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in Q SM 5.1 where no positive PFAS results have been reported have been reviewed and no data was affected.

WADWER n 10 : PFBA PFPeA PFHxA PFHpA PFOA PFBS PFHxS PFO S :2 FT SA 8:2 FT SA

QC Data General Comments

- Where a result is reported as a less than higher than the nominated LO R 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.
- Duplicate data shown within this report that states the word "BAT CH" 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.
 - Organochlorine Pesticide analysis where reporting LCS data Toxaphene Chlordane are not added to the LCS.
 - Organochlorine Pesticide analysis where reporting Spike data Toxaphene is not added to the Spike.
- Total Recoverable Hydrocarbons where reporting Spike LCS data a single spike of commercial Hydrocarbon products in the range of C12 C 0 is added and it's Total Recovery is reported in the C10 C1 cell of the Report.
 - pH and Free Chlorine analysed in the laboratory Analysis on this test must begin within 0 minutes of sampling. Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
 - Recovery Data Spikes Surrogates where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
- Polychlorinated Biphenyls are spiked only using Aroclor 12 0 in Matrix Spikes and LCS.
 - For Matrix Spikes and LCS results a dash " " in the report means that the specific analyte was not added to the QC sample.
- 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 | Result 2 | RPD | Acceptance Limits | Pass Limits | Q ualifying Code | | | |
|--|---------------|-----------|----------|----------|-------------------|-------------|-------------------|-------------|------------------|------|
| LCS Recovery | | | | | | | | | | |
| Chromium Sulfate | | | | | | | | | | |
| Chromium Reducible Sulfur | | | | | 0 1 0 | 0 | Pass | | | |
| Acid Neutralising Capacity ANCBt | | | | | 0 1 0 | 0 | Pass | | | |
| Test | Lab Sample ID | QA Source | Units | Result 1 | Result 2 | RPD | Acceptance Limits | Pass Limits | Q ualifying Code | |
| Duplicate | | | | | | | | | | |
| Moisture | B18 Au 12 | CP | | 1. | 1. | 1 | 1 | 0 | Pass | |
| Duplicate | | | | | | | | | | |
| SPOCAS Suite | | | | | | | | | | |
| pH KCL | B18 Au 1 2 | CP | pH | 5 | 5. | 1 | 1 | 0 | Pass | |
| pH OX | B18 Au 1 2 | CP | pH | .2 | .1 | 1.0 | 1.0 | 0 | Pass | |
| Acid trail T itratable Actual Acidity | B18 Au 1 2 | CP | mol H t | . | . | | | 0 | Pass | |
| Acid trail T itratable Peroxide Acidity | B18 Au 1 2 | CP | mol H t | 2 | 2 | 1.0 | 1.0 | 0 | Pass | |
| Acid trail T itratable Sulfidic Acidity | B18 Au 1 2 | CP | mol H t | 1 | 1 | 1 | 1 | 0 | Pass | |
| sulfidic T AA equiv. S pyrite | B18 Au 1 2 | CP | pyrite S | 0.02 | 0.02 | 1 | 1 | 0 | Pass | |
| sulfidic T PA equiv. S pyrite | B18 Au 1 2 | CP | pyrite S | 0.0 | 0.0 | 1.0 | 1.0 | 0 | Pass | |
| sulfidic T SA equiv. S pyrite | B18 Au 1 2 | CP | pyrite S | 0.0 | 0.0 | 1 | 1 | 0 | Pass | |
| Sulfur Peroxide | B18 Au 1 2 | CP | S | 0.02 | 0.02 | 1 | 1 | 0 | Pass | |
| Sulfur Peroxide O xidisable Sulfur acidity Peroxide O xidisable Sulfur | B18 Au 1 2 | CP | S | 0.02 | 0.02 | 0.02 | 0.02 | 1 | 0 | Pass |
| Calcium K Cl Extractable | B18 Au 1 2 | CP | Ca | 0.0 | 0.0 | 1.0 | 1.0 | 0 | Pass | |
| Calcium Peroxide | B18 Au 1 2 | CP | Ca | 0.0 | 0.05 | 5.0 | 5.0 | 0 | Pass | |
| Acid Reacted Calcium acidity Acid Reacted Calcium | B18 Au 1 2 | CP | mol H t | 10 | 10 | 1 | 1 | 0 | Pass | |
| sulfidic Acid Reacted Ca equiv. S pyrite | B18 Au 1 2 | CP | S | 0.02 | 0.02 | 1 | 1 | 0 | Pass | |
| Magnesium K Cl Extractable | B18 Au 1 2 | CP | Mg | 0.02 | 0.02 | 1 | 1 | 0 | Pass | |
| Magnesium Peroxide | B18 Au 1 2 | CP | Mg | 0.02 | 0.02 | 1 | 1 | 0 | Pass | |
| Acid Reacted Magnesium acidity Acid Reacted Magnesium | B18 Au 1 2 | CP | mol H t | 10 | 10 | 1 | 1 | 0 | Pass | |
| sulfidic Acid Reacted Mg equiv. S pyrite | B18 Au 1 2 | CP | S | 0.02 | 0.02 | 1 | 1 | 0 | Pass | |
| Acid Neutralising Capacity ANCE | B18 Au 1 2 | CP | CaCO | n a | n a | n a | n a | 0 | Pass | |
| Acid Neutralising Capacity units a ANCE | B18 Au 1 2 | CP | mol H t | n a | n a | n a | n a | 0 | Pass | |
| ANC Fineness Factor | B18 Au 1 2 | CP | factor | 1.5 | 1.5 | 1 | 1 | 0 | Pass | |
| SPOCAS Liming rate | B18 Au 1 2 | CP | g CaCO t | 1 | 1 | 1 | 1 | 0 | Pass | |
| Duplicate | | | | | | | | | | |
| Chromium Suite | | | | | | | | | | |
| Chromium Reducible Sulfur | B18 Au 1 2 | CP | S | 0.005 | 0.005 | 1 | 1 | 0 | Pass | |
| Chromium Reducible Sulfur acidity | B18 Au 1 2 | CP | mol H t | | | 1 | 1 | 0 | Pass | |
| Acid Neutralising Capacity ANCBt | B18 Au 1 2 | CP | CaCO | n a | n a | n a | n a | 0 | Pass | |
| Acid Neutralising Capacity equivalent S pyrite s ANCBt | B18 Au 1 2 | CP | S | n a | n a | n a | n a | 0 | Pass | |
| CRS Suite Net Acidity Sulfur nits | B18 Au 1 2 | CP | S | 0.02 | 0.02 | 1 | 1 | 0 | Pass | |
| CRS Suite Net Acidity Acidity nits | B18 Au 1 2 | CP | mol H t | 10 | 10 | 1 | 1 | 0 | Pass | |
| CRS Suite Liming Rate | B18 Au 1 2 | CP | g CaCO t | 1 | 1 | 1 | 1 | 0 | Pass | |
| Duplicate | | | | | | | | | | |
| Moisture | B18 Au 1 | CP | | 1 | 1 | 2.0 | 2.0 | 0 | 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 Holding Time | Yes |
| Some samples have been subcontracted | No |

Qualifier Codes/Comments

| Code | Description |
|------|---|
| S01 | Liming rate is calculated and reported on a dry weight basis assuming use of fine agricultural lime CaCO ₃ and using a safety factor of 1.5 to allow for non homogeneous mixing and poor reactivity of lime. For conversion of Liming Rate from kg t dry weight to kg m ³ in situ soil multiply reported results x wet bulk density of soil in t m ³ |
| S02 | Retained Acidity is Reported when the pH CI is less than pH .5 |
| S0 | Acid Neutralising Capacity is only required if the pH CI is greater than or equal to pH .5 |
| S0 | Acid Sulfate Soil Samples have a 2 hour holding time unless frozen or dried within that period |

Authorised By

Nibha Vaidya Analytical Services Manager
 Steven Trout Senior Analyst Metal QLD



Glenn Jackson
 National Operations Manager

~~Final report - this report replaces any previously issued Report:~~

Indicates Not Requested

Indicates NAT A 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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ABL - 60 095 086 594
 email : EnviroSales@eurofins.com
 web : www.eurofins.com.au

MAMUCONCO
 2 5 Kingstent Tower Close
 Ocalaigh VIC 3550
 NAT A 12 1 2 1
 Site 1 2 1

SPRINGWOOD
 1 Mire Road
 Springwood NSW 2070
 Phone : 12 00 8 00
 NAT A 12 1 Site 20

ESSENDON
 1 21 Smallwood Place
 Murrumbidgee NSW 2500
 NAT A 12 1 Site 20

PERKINS
 2 1 Leach Highway
 Kewdale WA 6105
 NAT A 12 1 Site 2

Company Name: Terrace Environmental P L
Address: Shop 2 New Canterbury Road
 Dutwich Hill NSW 220
Project Name: MASCO T
Project ID: 1,1

Order No.: 1 2 5
Report : 02 8 0 0555
Phone:
Fax:

Received: Aug 2 2018 11:20 AM
Due: Sep 2018
Priority: 5 Day
Contact Name: Ken Henderson

Eurofins mgt Analytical Services Manager : Nibha V aldiya

| No | Sample ID | Sample Date | Sampling Time | Matrix | LAB ID |
|----|-----------|--------------|---------------|--------|-------------------|
| 1 | SB 2.0 | Not Provided | | Soil | B18 Au 12 X X |
| 2 | SB 5.0 | Not Provided | | Soil | B18 Au 12 X X X X |
| | SB1 8.0 | Not Provided | | Soil | B18 Au 12 X X X X |
| | SB1 10.0 | Not Provided | | Soil | B18 Au 12 X X X X |
| 5 | SB20 8.0 | Not Provided | | Soil | B18 Au 1 X X X X |
| | SB20 12.0 | Not Provided | | Soil | B18 Au 1 X X X X |
| | SB22 5.0 | Not Provided | | Soil | B18 Au 1 X X X X |
| 8 | SB2 2.0 | Not Provided | | Soil | B18 Au 1 X X X X |
| | SB2 .0 | Not Provided | | Soil | B18 Au 1 X X X X |

Moisture Set

Chromium Reducible Sulfur Suite

SPO CAS Suite

Melbourne Laboratory NATA Site 12 4 & 14271

Sydney Laboratory NATA Site 1 217

Brisbane Laboratory NATA Site 207 4

Perth Laboratory NATA Site 23736

External Laboratory

Sample Detail



ABSL - 50 005 086 594
 email : EnviroSales_eurofins.com
 web : www.eurofins.com.au
MAMMUCONCO
 2 5 Kingstent Tower Close
 Oakleigh VIC 3166 5000
 NAT A 12 1 2 1
 Site 1 2 1
SPRINGWOOD
 1 Mt F Building F
 1 Mene Road NSW 20
 Phone : 12 00 8 00
 NAT A 12 1 Site 20
ESSENDON
 1 21 Smallwood Place
 Murrumbidgee NSW 25
 NAT A 12 1 Site 20
PERTH
 2 1 Leach Highway
 Kewdale WA 105
 Phone : 8 12 1
 NAT A 12 1
 Site 2

Company Name: Trace Environmental P L
Address: Shop 2 New Canterbury Road
 Dutwich Hill
 NSW 220
Project Name: MASCO T
Project ID: 1,1
Order No.: 1 2 5
Report : 02 8 0 0555
Phone:
Fax:
Received: Aug 2 2018 11:20 AM
Due: Sep 2018
Priority: 5 Day
Contact Name: Ken Henderson
Eurofins mgt Analytical Services Manager : Nibha V aldiya

| SPO CAS Suite | | Chromium Reducible Sulfur Suite | | Moisture Set | |
|----------------------|------------------------|---------------------------------|------|--------------|--------|
| Melbourne Laboratory | NATA Site 12 4 & 14271 | | | | |
| Sydney Laboratory | NATA Site 1 217 | | | | |
| Brisbane Laboratory | NATA Site 207 4 | | | | |
| Perth Laboratory | NATA Site 237/36 | | | | |
| 10 SB2 | 10.0 | Not Provided | Soil | B18 Au 1 | 8k X X |
| 11 SB1 | .0 | Not Provided | Soil | B18 Au 1 | X X |
| 12 SB1 | .8 | Not Provided | Soil | B18 Au 1 | X X |
| 1 SB2 | 8.0 | Not Provided | Soil | B18 Au 1 | 8k X X |
| 1 SB1 | 10.0 | Not Provided | Soil | B18 Au 1 | X X |
| 15 SB1 | 8.0 | Not Provided | Soil | B18 Au 1 | 0 X X |
| 1 SB20 | 5.0 | Not Provided | Soil | B18 Au 1 | 1 X X |
| 1 SB22 | .0 | Not Provided | Soil | B18 Au 1 | 2 X X |
| Test Counts | | | | | |
| | | | | 1 | 1 |

Sample Detail



Head Office 5 Kingston T own Clovenit F Building F 1 21 Smallwood Place 2 1 Leach Highway
 Oakleigh Vic 1 1 Mars Road Murarie QLD 1 2 Kewdale WA 105
 Phone : 1 85 500lms Cove West NSW 20 Phone : 1 02 0Phone : 1 8 251 00
 NAT A 12 1 Phone : 1 2 00 8 0NAT A 12 1 Site 20 NAT A 12 1 Site 2
 Site 125 1 2 1 NAT A 12 1 Site 1821
 ABN – 50 005 085 521 e.mail : EnviroSalea@eurofins.com web : www.eurofins.com.au

Sample Receipt Advice

Company name: Trace Environmental P L
Contact name: Ken Henderson
Pro ect name: MASCO T
Pro ect ID: 1.1
CO C number: Not provided
Turn around time: 5 Day
Date Time received: Aug 2 2018 11:20 AM
Eurofins mgt reference: 1 2 15 15 5

Sample information

- A detailed list of analytes logged into our LIM S is included in the attached summary table.
- Sample Temperature of a random sample selected from the batch as recorded by Eurofins mgt Sample Receipt : 2. degrees Celsius.
- All samples have been received as described on the above CO C.
- CO C 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.
- 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:

Nibha V aidya on Phone : 1 2 00 8 15 or by e.mail: NibhaV aidya eurofins.com

Results will be delivered electronically via e.mail to Ken Henderson ken traceenviro.com.



Environmental Laboratory NAT A Accreditation
 Air Analysis Stack Emission Sampling Analysis
 Water Analysis Trade Waste Sampling Analysis
 Soil Contamination Analysis Groundwater Sampling Analysis
38 Years of Environmental Analysis & Experience



Enviro Sample Bris

From: Andrew Black
Sent: Monday, 27 August 2018 11:27 AM
To: Enviro Sample Bris
Subject: S-DAY TAT ADDITIONAL; FW: Eurofins | mgt Test Results, Invoice - Report 612428; Site MASCOT (1.16)

Follow Up Flag: Follow up
Flag Status: Flagged

@Team

Additional acid sulphate testing please for this job on standard TAT.

Andrew Black
 Phone: +61 810 220 750
 Email: AndrewBlack@eurofins.com

From: Ken Henderson [mailto:ken@traceenviro.com]
Sent: Monday, 27 August 2018 11:18 AM
To: Andrew Black
Cc: Jack Ellis
Subject: RE: Eurofins | mgt Test Results, Invoice - Report 612428 ; Site MASCOT (1.16)

EXTERNAL EMAIL*

Hi Andrew,

For this work order, can I please have additional assessment for Acid Sulfate as follows:

- SPOCAS & Cr Suite – samples SB6/2.0; SB6/5.0; SB14/8.0; SB17/10.0; SB20/8.0; SB20/12.0; SB22/5.0; SB26/2.0; SB26/6.0; and SB26/10.0
- SPOCAS only – samples SB14/6.0; SB17/3.8; and SB26/8.0
- Cr Suite only – samples SB14/10.0; SB17/8.0; SB20/5.0; and SB22/3.0

Standard TAT is requested.

Thank you, please ring if any questions.

Regards,
Ken

DM
 27/8/18
 11:30 AM



TRACE
ENVIRONMENTAL

Ken Henderson
Principal Environmental Scientist
TRACE Environmental
T 02 8960 0555 or 0432 202 141
U Shop 2, 793-799 New Canterbury Road
Dulwich Hill NSW 2208
W www.traceenviro.com E ken@traceenviro.com

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From: AndrewBlack@eurofins.com <AndrewBlack@eurofins.com>
Sent: Monday, 27 August 2018 9:40 AM
To: Ken Henderson <ken@traceenviro.com>
Cc: Ramya Tunikipati <ramya@traceenviro.com>
Subject: Eurofins | mgt Test Results, Invoice - Report 612428 : Site MASCOT (1.16)

Regards

Andrew Black
Analytical Services Manager

Eurofins | mgt
Unit 7
7 Friesian Close
SANDGATE NSW 2304
AUSTRALIA
Phone: +61 299 008 490
Mobile: +61 410 220 750
Email: AndrewBlack@eurofins.com
Website: environment.eurofins.com.au
[EnviroNote 1078 - Targeting the Unknowns ?](#)
[EnviroNote 1077 - Soil Vapour Sampling – NATA Accreditation](#)

Are you on TOP of PFASs? Find out more by reading Eurofins | mgt's Environote by clicking [here](#)

EnviroNote 1075 – for Eurofins | mgt Christmas Shutdown Dates, click [here](#)

Click [here](#) to report this email as spam.

ScannedByWebsenseForEurofins

*** WARNING - EXTERNAL:** This email originated from outside of Eurofins. Do not click any links or open any



Certificate of Analysis

Trace Environmental P/L
 Shop 2, 7 3 7 New Canterbury Road
 Dulwich Hill
 NSW 2203



NATA Accredited
 Accreditation Number 1261
 Site Number 12-4

Accredited for compliance with ISO/IEC 17025 – Testing
 The results of the tests, calibrations and
 measurements included in this document are traceable
 to Australian national standards.

Attention: K en Henderson

Report 61 646 L
 Pro ect name MASCO T
 Pro ect ID 1.1
 Received Date Sep 0 2018

| | | | | |
|-------------------------------|------|---------|-------------|-------------|
| Client Sample ID | | | SB 21/0.1 | SB 07/0.2 |
| Sample Matrix | | | US Leachate | US Leachate |
| Eurofins mgt Sample No. | | | M1 Se03012 | M1 Se03013 |
| Date Sampled | | | Aug 13, 201 | Aug 13, 201 |
| Test Reference | LO R | nit | | |
| Heavy Metals | | | | |
| Chromium | 0.01 | mg L | | 0.01 |
| Lead | 0.01 | mg L | 0.10 | 0. |
| Nickel | 0.01 | mg L | | 0.1 |
| USA Leaching Procedure | | | | |
| Leachate Fluid ⁰¹ | | comment | 1.0 | 1.0 |
| pH initial | 0.1 | pH nits | . | . |
| pH Leachate fluid | 0.1 | pH nits | 5.1 | 5.1 |
| pH off | 0.1 | pH nits | 5.1 | 5. |
| pH SA HCl addition | 0.1 | pH nits | 2.0 | 2.0 |



Sample History

Where samples are submitted analysed over several days the last date of extraction and analysis is reported.
 A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this some of the method reference information on reports has changed. However no substantive change has been made to our laboratory methods and as such there is no change in the validity of current or previous results regarding both quality and NAT A accreditation.
 If the date and time of sampling are not provided the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

| Description | Testing Site | Extracted | Holding Time |
|---|------------------|-------------------|----------------|
| Heavy Metals | Melbourne | Sep 0 2018 | 180 Day |
| Method: LT M MET 0 0 Metals in Waters Soils Sediments by ICP MS | | | |



ABN: 50 005 085 521
email: EnviroSales@eurofins.com
web: www.eurofins.com.au
MAJOR OFFICES:
 2/5 Kingstee Tower Close
 Oakleigh VIC 3166
 NAT A 12 1 2 1
 Site 1 2 1
SYDNEY:
 1/111 Macquarie Street
 Sydney NSW 2000
 Phone: 12 00 8 00 00
 NAT A 12 1 Site 1821
MELBOURNE:
 1/21 Smallwood Place
 Murrumbidgee VIC 3020
 NAT A 12 1 Site 20
PERTH:
 1/1 Leach Highway
 Kewdale WA 105
 NAT A 12 1
 Site 2

Company Name: Trace Environmental P L
Address: Shop 2, Dutwich Hill, New Canterbury Road, NSW 220
Project Name: MASCO T
Project ID: 1,1
Order No.: 15
Report: 02 B 0 0555
Phone:
Fax:
Received: Sep 2018 : AM
Due: Sep Day
Priority: Ken Henderson
Contact Name:
Project Manager: Eurofins mgt Analytical Services Manager : Nibha V aldiya

| Sample Detail | | Chromium | Lead | Nickel | SA Leaching Procedure |
|----------------------|------------------------|-------------|---------------|------------|-----------------------|
| Melbourne Laboratory | NATA Site 12 4 & 14271 | X | X | X | X |
| Sydney Laboratory | NATA Site 1 217 | | | | |
| Brisbane Laboratory | NATA Site 207 4 | | | | |
| Perth Laboratory | NATA Site 23736 | | | | |
| External Laboratory | | | | | |
| No | Sample ID | Sample Date | Sampling Time | Matrix | LAB ID |
| 1 | SB21 0.15 | Aug 1 2018 | | S Leachate | M18 Se0 012 |
| 2 | SB0 0.25 | Aug 1 2018 | | S Leachate | M18 Se0 01 |
| Test Counts | | | | | |
| | | | | 1 | 2 1 2 |



Internal Quality Control Review and Glossary

General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
- All soil results are reported on a dry basis unless otherwise stated.
 - All biota/food results are reported on a wet weight basis on the edible portion unless otherwise stated.
 - Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
 - SVOC analysis on waters are performed on homogenised unfiltered samples unless noted otherwise.
 - Samples were analysed on an as received basis.
- This report replaces any interim results previously issued.

Holding Times

Please refer to Sample Preservation and Container Guide for holding times Q S 001 .
 For samples received on the last day of holding time notification of testing requirements should have been received at least 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 days however for all other VOCs such as BTX or C10 TRH then the holding time is 1 days.
 NOTPH 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 | 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. |
| LCR | Limit of Reporting. |
| SPIK E | 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 deionised water. |
| 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 | Quality Systems Manual ver 5.1 US Department of Defense |
| 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 0 however the following acceptance guidelines are equally applicable:
 Results 10 times the LO R: No Limit
 Results between 10 20 times the LO R: RPD must lie between 0 50
 Results 20 times the LO R: RPD must lie between 0 0
 Surrogate Recoveries: Recoveries must lie between 50 150 Phenols PFASs
 PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in Q SM 5.1 where no positive PFAS results have been reported have been reviewed and no data was affected.
 WADWER n 10 : PFBA PFPeA PFHxA PFHpA PFOA PFBS PFHxS PFO S :2 FT SA 8:2 FT SA

QC Data General Comments

- Where a result is reported as a less than higher than the nominated LO R 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.
- Duplicate data shown within this report that states the word "BAT CH" 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.
 - Organochlorine Pesticide analysis where reporting LCS data Toxaphene Chlordane are not added to the LCS.
 - Organochlorine Pesticide analysis where reporting Spike data Toxaphene is not added to the Spike.
- Total Recoverable Hydrocarbons where reporting Spike LCS data a single spike of commercial Hydrocarbon products in the range of C12 C 0 is added and it's Total Recovery is reported in the C10 C1 cell of the Report.
 - pH and Free Chlorine analysed in the laboratory Analysis on this test must begin within 0 minutes of sampling. Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
 - Recovery Data Spikes Surrogates where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
- Polychlorinated Biphenyls are spiked only using Aroclor 1240 in Matrix Spikes and LCS.
 - For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
- 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 | Q ualifying Code | | | |
|-----------------------|---------------|-----------|-------------------|-------------|-------------------|-------------|------------------|------|
| Method B blank | | | | | | | | |
| Heavy Metals | | | | | | | | |
| Chromium | mg L | 0.01 | 0.01 | Pass | | | | |
| Lead | mg L | 0.01 | 0.01 | Pass | | | | |
| Nickel | mg L | 0.01 | 0.01 | Pass | | | | |
| Test | Lab Sample ID | QA Source | Units | Result 1 | Acceptance Limits | Pass Limits | Q ualifying Code | |
| Spike Recovery | | | | | | | | |
| Heavy Metals | | | | | | | | |
| Lead | M18 Se0 18 | NCP | mg L | 101 | 5 125 | Pass | | |
| Spike Recovery | | | | | | | | |
| Heavy Metals | | | | | | | | |
| Chromium | M18 Se0 18 | NCP | mg L | 101 | 5 125 | Pass | | |
| Nickel | M18 Se0 18 | NCP | mg L | 101 | 5 125 | Pass | | |
| Test | Lab Sample ID | QA Source | Units | Result 1 | Acceptance Limits | Pass Limits | Q ualifying Code | |
| Duplicate | | | | | | | | |
| Heavy Metals | | | | | | | | |
| Lead | M18 Se0 18 | NCP | mg L | 0.0 | 0.05 | 2.0 | 0 | Pass |
| Duplicate | | | | | | | | |
| Heavy Metals | | | | | | | | |
| Chromium | M18 Se0 18 | NCP | mg L | 0.01 | 0.01 | 1 | 0 | Pass |
| Nickel | M18 Se0 18 | NCP | mg L | 0.01 | 0.01 | 1 | 0 | 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 Holding Time | Yes |
| Some samples have been subcontracted | No |

Qualifier Codes/Comments

| Code | Description |
|------|---|
| C01 | Leachate Fluid Key: 1 pH 5.0 2 pH 2. pH .2 Reagent DI water 5 Client sample other |

Authorised By

Nibha Vaidya Analytical Services Manager
 Alex Petridis Senior Analyst Metal VIC



Glenn Jackson
 National Operations Manager

~~Final report. This Report replaces any previously issued Report.~~

Indicates Not Requested

Indicates NAT A accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or [click here](#).

Eurofins mgt shall not be liable for test cost damages or expenses incurred by the client or any other person or company resulting from the use of any information or interpretation given in this report, in no case shall Eurofins mgt be liable for consequential damages (including lost and limited to lost profits) damages for failure to meet deadlines and test production arising from this report. All documents shall not be reproduced except in full and release only to the items listed. Also indicated otherwise the tests were performed on the samples as received.



ABSL-50 005 085 594
 email: EnviroSales@eurofins.com
 web: www.eurofins.com.au

MAKING
 2/5 Kingstee Tower Close
 Oakleigh VIC 3166
 Phone: 12 00 8 00 00
 NAT A: 12 1 Site 20
 Site: 125 1 2 1

SPRINGWOOD
 1/1 More Road Building F
 Springwood NSW 2070
 Phone: 12 00 8 00 00
 NAT A: 12 1 Site 20
 Site: 1821

MURRUMBidgee
 1/21 Smallwood Place
 Murrumbidgee NSW 2522
 Phone: 12 00 8 00 00
 NAT A: 12 1 Site 20
 Site: 2

Perth
 1/1 Leach Highway
 Kewdale WA 6105
 Phone: 12 00 8 00 00
 NAT A: 12 1 Site 20
 Site: 251 00

Company Name: **T race Environmental P L**
 Address: **Shop 2 New Canterbury Road
 Dutwich Hill NSW 220**
 Project Name: **MASCO T**
 Project ID: **1,1**

Order No.:
 Report : **15**
 Phone: **02 8 0 0555**
 Fax:

Received: **Sep 2018 : AM**
 Due:
 Priority:
 Contact Name: **Ken Henderson**

Eurofins mgt Analytical Services Manager : Nibha V aldiya

| No | Sample ID | Sample Date | Sampling Time | Matrix | LAB ID | Chromium | Lead | Nickel | SA Leaching Procedure |
|-------------|-----------|-------------|---------------|--------|--------|----------|------|--------|-----------------------|
| 1 | SB21 0.15 | Aug 1 2018 | | | | X | X | X | X |
| 2 | SB0 0.25 | Aug 1 2018 | | | | | | | |
| Test Counts | | | | | | 1 | 2 | 1 | 2 |



Head Office 5 Kingston Town Close Building F 1 21 Smallwood Place 2 1 Leach Highway
 Oakleigh Vic 31 1 Mars Road Murarie QLD 41 2 Kewdale WA 105
 Phone: 1 85 5000s Cove West NSW 20 Phone: 1 02 08 Phone: 1 8 251 00
 NAT A 12 1 Phone: 1 2 00 8 00 NAT A 12 1 Site 20 NAT A 12 1 Site 2
 Site 125 1 2 1 NAT A 12 1 Site 1821
 ABN - 50 005 085 521 e.mail : EnviroSalea@eurofins.com web : www.eurofins.com.au

Sample Receipt Advice

Company name: Trace Environmental P L
Contact name: Ken Henderson
Project name: MASCO T
Project ID: 1.1
CO C number: Not provided
Turn around time: Day
Date Time received: Sep 2018 : AM
Eurofins mgt reference: 15 15 15 15

Sample information

- A detailed list of analytes logged into our LIM S is included in the attached summary table.
- All samples have been received as described on the above CO C.
- CO C 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.
- 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:

Nibha V aidya on Phone : 1 2 00 8 15 or by e.mail: NibhaV aidya eurofins.com

Results will be delivered electronically via e.mail to Ken Henderson ken traceenviro.com.



Environmental Laboratory NAT A Accreditation
 Air Analysis Stack Emission Sampling Analysis
 Water Analysis Trade Waste Sampling Analysis
 Soil Contamination Analysis Groundwater Sampling Analysis
38 Years of Environmental Analysis & Experience



Enviro Sample Vic:

From: Nibha Vaidya
Sent: Tuesday, 4 September 2018 9:43 AM
To: Enviro Sample Vic
Subject: 3-DAY TAT - FW: Eurofins | mgt Test Results, Invoice - Report 612428 - Site MASCOT (1.16)
Attachments: 612428-S_report.pdf; image002.jpg

Another additional TCLP please -- 3 day TAT

Kind Regards,

Nibha Vaidya
 Phone: +61 2 9900 8019
 Mobile: +61 499 900 805
 Email: NibhaVaidya@eurofins.com

From: Ken Henderson [mailto:ken@traceenviro.com]
Sent: Tuesday, 4 September 2018 8:10 AM
To: Nibha Vaidya
Cc: Jack Ellis
Subject: FW: Eurofins | mgt Test Results, Invoice - Report 612428 - Site MASCOT (1.16)

EXTERNAL EMAIL

Hi Nibha,

For this report, can I please have TCLP analysis for the following:

- Sample SB21/0.15 - TCLP Lead *As 8.863*
- Sample SB7/0.25 - TCLP Chromium, TCLP Lead and TCLP Nickel *As 4.831 } 6.546*

Would we be able to get 3-day TAT?

Thank you.

Regards,

Ken

G. G. Kirk
4/9
615246



Certificate of Analysis

Trace Environmental P/L
 Shop 2, 7 3 7 New Canterbury Road
 Dulwich Hill
 NSW 2203



NATA Accredited
 Accreditation Number 1261
 Site Number 12 - 4

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: Ken Henderson
 Report 61 672 L
 Project name MASCO T
 Project ID 1.1
 Received Date Sep 0 2018

| Client Sample ID | | | SB 1/0. | SB 6/1.0 | SB 14/1.2 | SB 1 /1.0 |
|---|-------|---------|-------------|-------------|-------------|-------------|
| Sample Matrix | | | US Leachate | US Leachate | US Leachate | US Leachate |
| Eurofins mgt Sample No. | | | M1 Se03174 | M1 Se0317 | M1 Se03176 | M1 Se03177 |
| Date Sampled | | | Aug 10, 201 | Aug 10, 201 | Aug 10, 201 | Aug 10, 201 |
| Test Reference | LOR | nit | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | | | |
| Acenaphthene | 0.001 | mg L | | | 0.001 | |
| Acenaphthylene | 0.001 | mg L | | | 0.001 | |
| Anthracene | 0.001 | mg L | | | 0.001 | |
| Ben a anthracene | 0.001 | mg L | | | 0.001 | |
| Ben o a pyrene | 0.001 | mg L | | | 0.001 | |
| Ben o b fluoranthene | 0.001 | mg L | | | 0.001 | |
| Ben o g,h,i perylene | 0.001 | mg L | | | 0.001 | |
| Ben o k fluoranthene | 0.001 | mg L | | | 0.001 | |
| Chrysene | 0.001 | mg L | | | 0.001 | |
| Diben a,h anthracene | 0.001 | mg L | | | 0.001 | |
| Fluoranthene | 0.001 | mg L | | | 0.001 | |
| Fluorene | 0.001 | mg L | | | 0.001 | |
| Indeno 1,2, cd pyrene | 0.001 | mg L | | | 0.001 | |
| Naphthalene | 0.001 | mg L | | | 0.001 | |
| Phenanthrene | 0.001 | mg L | | | 0.001 | |
| Pyrene | 0.001 | mg L | | | 0.001 | |
| Total PAH | 0.001 | mg L | | | 0.001 | |
| 2 Fluorobiphenyl surr. | 1 | | | | | |
| p Terphenyl d1 surr. | 1 | | | | 10 | |
| Heavy Metals | | | | | | |
| Lead | 0.01 | mg L | 0.2 | 0.0 | 1.1 | 1. |
| Nickel | 0.01 | mg L | | 0. 1 | | |
| USA Leaching Procedure | | | | | | |
| Leachate Fluid ⁰¹ | | comment | 1.0 | 1.0 | 1.0 | 1.0 |
| pH initial | 0.1 | pH nits | .0 | .5 | .1 | 8. |
| pH Leachate fluid | 0.1 | pH nits | 5.1 | 5.1 | 5.1 | 5.1 |
| pH off | 0.1 | pH nits | 5. | 5. | 5. | 5. |
| pH SA HCl addition | 0.1 | pH nits | 2.0 | 1.8 | 1. | 1. |



| | | | | | | |
|------------------------------|------|---------|-------------|-------------|-------------|-----|
| Client Sample ID | | | SB 1 /1. | SB 20/1.0 | SB 26/1. | 2.0 |
| Sample Matrix | | | US Leachate | US Leachate | US Leachate | |
| Eurofins mgt Sample No. | | | M1 Se0317 | M1 Se0317 | M1 Se0317 | 0 |
| Date Sampled | | | Aug 10, 201 | Aug 10, 201 | Aug 10, 201 | |
| Test Reference | LO R | nit | | | | |
| Heavy Metals | | | | | | |
| Lead | 0.01 | mg L | | | | |
| Nickel | 0.01 | mg L | 0.2 | 0. | 0.28 | |
| USA Leaching Procedure | | | | | | |
| Leachate Fluid ⁰¹ | | comment | 1.0 | 1.0 | 1.0 | |
| pH initial | 0.1 | pH nits | 8.0 | . | . | |
| pH Leachate fluid | 0.1 | pH nits | 5.1 | 5.1 | 5.1 | |
| pH off | 0.1 | pH nits | 5. | 5.1 | 5. | |
| pH SA HCl addition | 0.1 | pH nits | 2.0 | 2.0 | 2.0 | |



Sample History

Where samples are submitted analysed over several days the last date of extraction and analysis is reported.
 A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this some of the method reference information on reports has changed. However no substantive change has been made to our laboratory methods and as such there is no change in the validity of current or previous results regarding both quality and NAT A accreditation.
 If the date and time of sampling are not provided the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

| Description | Testing Site | Extracted | Holding Time |
|---|--------------|------------|--------------|
| Polycyclic Aromatic Hydrocarbons Method: LT M O RG 21 0 PAH and Phenols in Soil and Water | Melbourne | Sep 0 2018 | Day |
| Heavy Metals Method: LT M MET 0 0 Metals in Waters Soils Sediments by ICP MS | Melbourne | Sep 0 2018 | 180 Day |



ABN: 50 005 085 521
email: EnviroSales@eurofins.com
web: www.eurofins.com.au
Head Office: 50 Kingstons Tower Close, Cacklight, Victoria, Australia, 3169
Phone: +61 3 8964 5000
Site 1: 125 1 2 1
Site 2: 125 1 2 1
Site 3: 125 1 2 1
Site 4: 125 1 2 1
Site 5: 125 1 2 1
Site 6: 125 1 2 1
Site 7: 125 1 2 1
Site 8: 125 1 2 1
Site 9: 125 1 2 1
Site 10: 125 1 2 1
Site 11: 125 1 2 1
Site 12: 125 1 2 1
Site 13: 125 1 2 1
Site 14: 125 1 2 1
Site 15: 125 1 2 1
Site 16: 125 1 2 1
Site 17: 125 1 2 1
Site 18: 125 1 2 1
Site 19: 125 1 2 1
Site 20: 125 1 2 1
Site 21: 125 1 2 1
Site 22: 125 1 2 1
Site 23: 125 1 2 1
Site 24: 125 1 2 1
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Site 96: 125 1 2 1
Site 97: 125 1 2 1
Site 98: 125 1 2 1
Site 99: 125 1 2 1
Site 100: 125 1 2 1

Company Name: Trace Environmental P L
Address: Shop 2, Dutwich Hill, New Canterbury Road, NSW 220
Project Name: MASCO T
Project ID: 1,1
Order No.: 15 2
Report : 02 8 0 0555
Phone:
Fax:
Received: Sep 2018 :5 AM
Due: Sep 2018 Day
Priority: Ken Henderson
Contact Name:
Project Manager: Eurofins mgt Analytical Services Manager : Nibha V aldiya

| No | Sample ID | Sample Date | Sampling Time | Matrix | LAB ID | Lead | Nickel | Polycyclic Aromatic Hydrocarbons | SA Leaching Procedure |
|-------------|-----------|-------------|---------------|------------|-----------|------|--------|----------------------------------|-----------------------|
| 1 | SB1 0.5 | Aug 10 2018 | | S Leachate | M18 Se0 1 | X | X | X | X |
| 2 | SB 1.0 | Aug 10 2018 | | S Leachate | M18 Se0 1 | X | X | X | X |
| | SB 1 1.2 | Aug 10 2018 | | S Leachate | M18 Se0 1 | X | X | X | X |
| | SB18 1.0 | Aug 10 2018 | | S Leachate | M18 Se0 1 | X | X | X | X |
| 5 | SB1 1.5 | Aug 10 2018 | | S Leachate | M18 Se0 1 | X | X | X | X |
| | SB20 1.0 | Aug 10 2018 | | S Leachate | M18 Se0 1 | X | X | X | X |
| | SB2 1.5 | Aug 10 2018 | | S Leachate | M18 Se0 1 | X | X | X | X |
| Test Counts | | | | | | 5 | | 1 | |



Internal Quality Control Review and Glossary

General

- Laboratory QC results for Method Blanks Duplicates Matrix Spikes and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
- All soil results are reported on a dry basis unless otherwise stated.
 - All biota food results are reported on a wet weight basis on the edible portion unless otherwise stated.
 - Actual LO Rs are matrix dependant. Quoted LO Rs may be raised where sample extracts are diluted due to interferences.
- Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
 - SV OC analysis on waters are performed on homogenised unfiltered samples unless noted otherwise.
 - Samples were analysed on an as received basis.
- This report replaces any interim results previously issued.

Holding Times

Please refer to Sample Preservation and Container Guide for holding times Q S 001 .
 For samples received on the last day of holding time notification of testing requirements should have been received at least 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 control.
 For VOCs containing vinyl chloride styrene and 2 chloroethyl vinyl ether the holding time is days however for all other VOCs such as BT EX or C 10 T RH then the holding time is 1 days.
 NOTPH 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. |
| LCR | Limit of Reporting. |
| SPIK E | 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 deionised water. |
| 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 | Quality Systems Manual ver 5.1 US Department of Defense |
| 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 0 however the following acceptance guidelines are equally applicable:
 Results 10 times the LO R: No Limit
 Results between 10 20 times the LO R: RPD must lie between 0 50
 Results 20 times the LO R: RPD must lie between 0 0
 Surrogate Recoveries: Recoveries must lie between 50 150 Phenols PFASs
 PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in Q SM 5.1 where no positive PFAS results have been reported have been reviewed and no data was affected.
 WADWER n 10 : PFBA PFPeA PFHxA PFHpA PFOA PFBS PFHxS PFO S :2 FT SA 8:2 FT SA

QC Data General Comments

- Where a result is reported as a less than higher than the nominated LO R 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.
- Duplicate data shown within this report that states the word "BAT CH" 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.
 - Organochlorine Pesticide analysis where reporting LCS data Toxaphene Chlordane are not added to the LCS.
 - Organochlorine Pesticide analysis where reporting Spike data Toxaphene is not added to the Spike.
- Total Recoverable Hydrocarbons where reporting Spike LCS data a single spike of commercial Hydrocarbon products in the range of C12 C 0 is added and it s Total Recovery is reported in the C10 C1 cell of the Report.
 - pH and Free Chlorine analysed in the laboratory Analysis on this test must begin within 0 minutes of sampling. Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
 - Recovery Data Spikes Surrogates where chromatographic interference does not allow the determination of Recovery the term " INT " appears against that analyte.
- Polychlorinated Biphenyls are spiked only using Aroclor 12 0 in Matrix Spikes and LCS.
 - For Matrix Spikes and LCS results a dash " " in the report means that the specific analyte was not added to the QC sample.
- Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.



Quality Control Results

| Test | | | | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code | |
|----------------------------------|---------------|-----------|-------|-------------|----------|----------|-------------------|-------------------|-----------------|-----------------|------|
| Method Blank | | | | | | | | | | | |
| Heavy Metals | | | | | | | | | | | |
| Lead | | | | mg L | 0.01 | | | 0.01 | | Pass | |
| Nickel | | | | mg L | 0.01 | | | 0.01 | | Pass | |
| Test | Lab Sample ID | QA Source | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code | | |
| Spike Recovery | | | | | | | | | | | |
| Heavy Metals | | | | | | | | | | | |
| Lead | | | | M18 Se0 18 | NCP | mg L | 101 | 5 125 | | Pass | |
| Spike Recovery | | | | | | | | | | | |
| Heavy Metals | | | | | | | | | | | |
| Nickel | | | | M18 Se0 180 | CP | mg L | | 5 125 | | Pass | |
| Test | Lab Sample ID | QA Source | Units | Result 1 | | | Acceptance Limits | Pass Limits | Qualifying Code | | |
| Duplicate | | | | | | | | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | | | | | | | | |
| | | | | | Result 1 | Result 2 | RPD | | | | |
| Acenaphthene | M18 Au 0 | NCP | mg L | 0.001 | 0.001 | 0.001 | 1 | 0 | 0 | Pass | |
| Acenaphthylene | M18 Au 0 | NCP | mg L | 0.001 | 0.001 | 0.001 | 1 | 0 | 0 | Pass | |
| Anthracene | M18 Au 0 | NCP | mg L | 0.001 | 0.001 | 0.001 | 1 | 0 | 0 | Pass | |
| Ben a anthracene | M18 Au 0 | NCP | mg L | 0.001 | 0.001 | 0.001 | 1 | 0 | 0 | Pass | |
| Ben o a pyrene | M18 Au 0 | NCP | mg L | 0.001 | 0.001 | 0.001 | 1 | 0 | 0 | Pass | |
| Ben o b fluoranthene | M18 Au 0 | NCP | mg L | 0.001 | 0.001 | 0.001 | 1 | 0 | 0 | Pass | |
| Ben o g,h,i perylene | M18 Au 0 | NCP | mg L | 0.001 | 0.001 | 0.001 | 1 | 0 | 0 | Pass | |
| Ben o k fluoranthene | M18 Au 0 | NCP | mg L | 0.001 | 0.001 | 0.001 | 1 | 0 | 0 | Pass | |
| Chrysene | M18 Au 0 | NCP | mg L | 0.001 | 0.001 | 0.001 | 1 | 0 | 0 | Pass | |
| Diben a,h anthracene | M18 Au 0 | NCP | mg L | 0.001 | 0.001 | 0.001 | 1 | 0 | 0 | Pass | |
| Fluoranthene | M18 Au 0 | NCP | mg L | 0.001 | 0.001 | 0.001 | 1 | 0 | 0 | Pass | |
| Fluorene | M18 Au 0 | NCP | mg L | 0.001 | 0.001 | 0.001 | 1 | 0 | 0 | Pass | |
| Indeno 1,2, cd pyrene | M18 Au 0 | NCP | mg L | 0.001 | 0.001 | 0.001 | 1 | 0 | 0 | Pass | |
| Naphthalene | M18 Au 0 | NCP | mg L | 0.001 | 0.001 | 0.001 | 1 | 0 | 0 | Pass | |
| Phenanthrene | M18 Au 0 | NCP | mg L | 0.001 | 0.001 | 0.001 | 5 | 0 | 0 | Fail | |
| Pyrene | M18 Au 0 | NCP | mg L | 0.001 | 0.001 | 0.001 | 1 | 0 | 0 | Pass | |
| Duplicate | | | | | | | | | | | |
| Heavy Metals | | | | | | | | | | | |
| Lead | | | | M18 Se0 180 | CP | mg L | | | 1 | 0 | Pass |
| Nickel | | | | M18 Se0 180 | CP | mg L | 0.25 0.2 | 2.0 | 0 | 0 | Pass |

Q 15



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 Holding Time | Yes |
| Some samples have been subcontracted | No |

Qualifier Codes/Comments

| Code | Description |
|------|---|
| C01 | Leachate Fluid Key: 1 pH 5.0 2 pH 2. pH 2 Reagent DI water 5 Client sample other |
| N0 | 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 |
| Q 15 | The RPD reported passes Eurofins mgt s Q C Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report. |

Authorised By

Nibha Vaidya Analytical Services Manager
Alex Petridis Senior Analyst Metal VIC
Joseph Edouard Senior Analyst Organic VIC



Glenn Jackson

National Operations Manager

~~Final report - this report replaces any previously issued Report:~~

Indicates Not Requested

Indicates NAT A accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or [please click here](#).

Eurofins mgt shall not be liable for loss of profit, 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 so far as Eurofins mgt is not 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 relate only to the items tested, unless indicated otherwise. The facts were performed on the samples as received.



ABN: 60 005 086 594
 email: EnviroSales@eurofins.com
 web: www.eurofins.com.au

MAMINGRA
 2 5 Kingstee Tower Close
 Oadigh VIC 3655 5000
 NAT A 12 1 2 1
 Site 1 2 1

SPRINGWOOD
 1 1 More Road Building F
 Mt F Building F
 Springwood NSW 2070
 Phone: 12 00 8 00
 NAT A 12 1 Site 20
 Site 1 2 1

MURRUMBidgee
 1 21 Smallwood Place
 Murrumbidgee NSW 2520
 Phone: 12 00 8 00
 NAT A 12 1 Site 20
 Site 1 2 1

Perth
 1 Leach Highway
 Kewdale WA 6105
 Phone: 12 00 8 00
 NAT A 12 1
 Site 2

Company Name: Trace Environmental P L
Address: Shop 2 New Canterbury Road
 Dutwich Hill NSW 220
Project Name: MASCO T
Project ID: 1,1

Order No.: 15 2
Report : 02 8 0 0555
Phone:
Fax:

Received: Sep 2018 :5 AM
Due: Sep 2018
Priority: Day
Contact Name: Ken Henderson

Project Manager: Eurofins mgt Analytical Services Manager : Nibha V aldiya

| No | Sample ID | Sample Date | Sampling Time | Matrix | LAB ID | Lead | Nickel | Polycyclic Aromatic Hydrocarbons | SA Leaching Procedure |
|--------------------|-----------|-------------|---------------|------------|-----------|------|--------|----------------------------------|-----------------------|
| 1 | SB1 0.5 | Aug 10 2018 | | S Leachate | M18 Se0 1 | X | X | X | X |
| 2 | SB 1.0 | Aug 10 2018 | | S Leachate | M18 Se0 1 | X | X | X | X |
| | SB 1 1.2 | Aug 10 2018 | | S Leachate | M18 Se0 1 | X | X | X | X |
| | SB18 1.0 | Aug 10 2018 | | S Leachate | M18 Se0 1 | X | X | X | X |
| 5 | SB1 1.5 | Aug 10 2018 | | S Leachate | M18 Se0 1 | X | X | X | X |
| | SB20 1.0 | Aug 10 2018 | | S Leachate | M18 Se0 1 | X | X | X | X |
| | SB2 1.5 | Aug 10 2018 | | S Leachate | M18 Se0 1 | X | X | X | X |
| Test Counts | | | | | | 5 | | | 1 |



Head Office 5 Kingston Town Close Building F 1 21 Smallwood Place 2 1 Leach Highway
 Oakleigh Vic 31 1 Mars Road Murarie QLD 41 2 Kewdale WA 105
 Phone: 1 85 800ns Cove West NSW 20 Phone: 1 02 08 Phone: 1 8 251 00
 NAT A 12 1 Phone: 1 2 00 8 0NAT A 12 1 Site 20 NAT A 12 1 Site 2
 Site 125 1 2 1 NAT A 12 1 Site 1821
 ABN - 50 005 085 521 e.mail : EnviroSalea@eurofins.com web : www.eurofins.com.au

Sample Receipt Advice

Company name: Trace Environmental P L
Contact name: Ken Henderson
Project name: MASCO T
Project ID: 1.1
CO C number: Not provided
Turn around time: Day
Date Time received: Sep 2018 :5 AM
Eurofins mgt reference: 15 15 15 15 2 2

Sample information

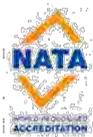
- A detailed list of analytes logged into our LIM S is included in the attached summary table.
- All samples have been received as described on the above CO C.
- CO C has been completed correctly.
- Attempt to chill was evident.
- Appropriately preserved sample containers have been used.
- All samples 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.
- 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:

Nibha V aidya on Phone : 1 2 00 8 15 or by e.mail: NibhaV aidya eurofins.com

Results will be delivered electronically via e.mail to Ken Henderson ken traceenviro.com.



Environmental Laboratory NAT A Accreditation
 Air Analysis Stack Emission Sampling Analysis
 Water Analysis Trade Waste Sampling Analysis
 Soil Contamination Analysis Groundwater Sampling Analysis
38 Years of Environmental Analysis & Experience



Enviro Sample Vic

From: Nibha Vaidya
Sent: Tuesday, 4 September 2018 9:40 AM
To: Enviro Sample Vic
Subject: 3 DAY TAT - FW: Eurofins | mgt Test Results, Invoice - Report 612025 - Site MASCOT (1.16)
Attachments: 612025-S report.pdf, image001.jpg

Additional TCLP please - 3 day TAT

Kind Regards,

Nibha Vaidya
 Phone : +61 2 9900 8415
 Mobile : +61 499 900 805
 Email : NibhaVaidya@eurofins.com

From: Ken Henderson [mailto:ken@traceenviro.com]
Sent: Tuesday, 4 September 2018 7:57 AM
To: Nibha Vaidya
Cc: Jack Ellis
Subject: FW: Eurofins | mgt Test Results, Invoice - Report 612025 - Site MASCOT (1.16)

EXTERNAL EMAIL

Hi Nibha,

03.10.18

For this report, can I please have TCLP analysis for the following:

- Sample SB1/0.5 - TCLP Lead *Au1643 } G496*
- Sample SB6/1.0 - TCLP Lead and TCLP Nickel *Au1645 }*
- Sample SB-14/1.2 - TCLP Lead and TCLP PAHs *Au1647 }*
- Sample SB18/1.0 - TCLP Lead *Au1644 } G497*
- Sample SB19/1.5 - TCLP Nickel *Au1642 }*
- Sample SB20/1.0 - TCLP Nickel *Au1646 }*
- Sample SB26/1.5-2.0 - TCLP Lead and TCLP Nickel *Au1648 }*

Would we be able to get 3-day TAT?

Thank you,

Regards,
Ken

*Jaipal Patel
 4/9/18 7:57 AM
 615672*



CERTIFICATE OF ANALYSIS

| | | | |
|--------------------------------|---|--------------------------------|--|
| Work Order | : EM1813052 | Page | : 1 of 6 |
| Client | : TRACE ENVIRONMENTAL PTY LTD | Laboratory | : Environmental Division Melbourne |
| Contact | : MR KEN HENDERSON | Contact | : Customer Services EM |
| Address | : Shop 2 793-799 New Canterbury Road Dulwich Hill NSW 2203 | Address | : 4 Westall Rd Springvale VIC Australia 3171 |
| Telephone | : --- | Telephone | : +61-3-8549 9600 |
| Project | : 1.16 | Date Samples Received | : 15-Aug-2018 15:00 |
| Order number | : | Date Analysis Commenced | : 16-Aug-2018 |
| C-O-C number | : --- | Issue Date | : 20-Aug-2018 13:18 |
| Sampler | : JE | | |
| Site | : MASCOT | | |
| Quote number | : EN/222/17 | | |
| No. of samples received | : 2 | | |
| No. of samples analysed | : 2 | | |



This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

| <i>Signatories</i> | <i>Position</i> | <i>Accreditation Category</i> |
|--------------------|-------------------------------------|---------------------------------------|
| Nancy Wang | 2IC Organic Chemist | Melbourne Inorganics, Springvale, VIC |
| Nancy Wang | 2IC Organic Chemist | Melbourne Organics, Springvale, VIC |
| Nikki Stepniewski | Senior Inorganic Instrument Chemist | Melbourne Inorganics, Springvale, VIC |

RIGHT SOLUTIONS | RIGHT PARTNER

Page : 2 of 6
Work Order : EM1813052
Client : TRACE ENVIRONMENTAL PTY LTD
Project : 1.16



General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contact for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

LOR = Limit of reporting

^ = This result is computed from individual analyte detections at or above the level of reporting

ø = ALS is not NATA accredited for these tests.

~ = Indicates an estimated value.

- Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a,h)anthracene (1.0), Benzo(g,h,i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero, for 'TEQ 1/2LOR' are treated as half the reported LOR, and for 'TEQ LOR' are treated as being equal to the reported LOR.
Note: TEQ 1/2LOR and TEQ LOR will calculate as 0.6mg/Kg and 1.2mg/Kg respectively for samples with non-detects for all of the eight TEQ PAHs.

Page : 3 of 6
 Work Order : EM1813052
 Client : TRACE ENVIRONMENTAL PTY LTD
 Project : 1.16



Analytical Results

| Sub-Matrix: SOIL (Matrix: SOIL) | | | | Client sample ID | | QS1A | QS2A | --- | --- | --- |
|---|------------|----------|-------|-------------------|---------------|-------------------|------|-----|-----|-----|
| Client sampling date / time | | | | 08-Aug-2018 00:00 | | 10-Aug-2018 00:00 | | --- | --- | --- |
| Compound | CAS Number | LOR | Unit | EM1813052-001 | EM1813052-002 | --- | --- | --- | --- | --- |
| | | | | Result | Result | --- | --- | --- | --- | --- |
| EA055: Moisture Content (Dried @ 105-110°C) | | | | | | | | | | |
| Moisture Content | --- | 1.0 | % | 9.3 | 7.4 | --- | --- | --- | --- | --- |
| EG005T: Total Metals by ICP-AES | | | | | | | | | | |
| Arsenic | 7440-38-2 | 5 | mg/kg | <5 | <5 | --- | --- | --- | --- | --- |
| Cadmium | 7440-43-9 | 1 | mg/kg | <1 | <1 | --- | --- | --- | --- | --- |
| Chromium | 7440-47-3 | 2 | mg/kg | 2 | 2 | --- | --- | --- | --- | --- |
| Copper | 7440-50-8 | 5 | mg/kg | <5 | <5 | --- | --- | --- | --- | --- |
| Lead | 7439-92-1 | 5 | mg/kg | <5 | <5 | --- | --- | --- | --- | --- |
| Nickel | 7440-02-0 | 2 | mg/kg | 4 | <2 | --- | --- | --- | --- | --- |
| Zinc | 7440-66-6 | 5 | mg/kg | 10 | 17 | --- | --- | --- | --- | --- |
| EG035T: Total Recoverable Mercury by FIMS | | | | | | | | | | |
| Mercury | 7439-97-6 | 0.1 | mg/kg | <0.1 | <0.1 | --- | --- | --- | --- | --- |
| EP075(SIM)B: Polynuclear Aromatic Hydrocarbons | | | | | | | | | | |
| Naphthalene | 91-20-3 | 0.5 | mg/kg | <0.5 | <0.5 | --- | --- | --- | --- | --- |
| Acenaphthylene | 208-96-8 | 0.5 | mg/kg | <0.5 | <0.5 | --- | --- | --- | --- | --- |
| Acenaphthene | 83-32-9 | 0.5 | mg/kg | <0.5 | <0.5 | --- | --- | --- | --- | --- |
| Fluorene | 86-73-7 | 0.5 | mg/kg | <0.5 | <0.5 | --- | --- | --- | --- | --- |
| Phenanthrene | 85-01-8 | 0.5 | mg/kg | <0.5 | <0.5 | --- | --- | --- | --- | --- |
| Anthracene | 120-12-7 | 0.5 | mg/kg | <0.5 | <0.5 | --- | --- | --- | --- | --- |
| Fluoranthene | 206-44-0 | 0.5 | mg/kg | <0.5 | <0.5 | --- | --- | --- | --- | --- |
| Pyrene | 129-00-0 | 0.5 | mg/kg | <0.5 | <0.5 | --- | --- | --- | --- | --- |
| Benz(a)anthracene | 56-55-3 | 0.5 | mg/kg | <0.5 | <0.5 | --- | --- | --- | --- | --- |
| Chrysene | 218-01-9 | 0.5 | mg/kg | <0.5 | <0.5 | --- | --- | --- | --- | --- |
| Benzo(b+j)fluoranthene | 205-99-2 | 205-82-3 | 0.5 | mg/kg | <0.5 | <0.5 | --- | --- | --- | --- |
| Benzo(k)fluoranthene | 207-08-9 | 0.5 | mg/kg | <0.5 | <0.5 | --- | --- | --- | --- | --- |
| Benzo(a)pyrene | 50-32-8 | 0.5 | mg/kg | <0.5 | <0.5 | --- | --- | --- | --- | --- |
| Indeno(1,2,3.cd)pyrene | 193-39-5 | 0.5 | mg/kg | <0.5 | <0.5 | --- | --- | --- | --- | --- |
| Dibenz(a,h)anthracene | 53-70-3 | 0.5 | mg/kg | <0.5 | <0.5 | --- | --- | --- | --- | --- |
| Benzo(g,h,i)perylene | 191-24-2 | 0.5 | mg/kg | <0.5 | <0.5 | --- | --- | --- | --- | --- |
| ^A Sum of polycyclic aromatic hydrocarbons | --- | 0.5 | mg/kg | <0.5 | <0.5 | --- | --- | --- | --- | --- |
| ^A Benzo(a)pyrene TEQ (zero) | --- | 0.5 | mg/kg | <0.5 | <0.5 | --- | --- | --- | --- | --- |
| ^A Benzo(a)pyrene TEQ (half LOR) | --- | 0.5 | mg/kg | 0.6 | 0.6 | --- | --- | --- | --- | --- |
| ^A Benzo(a)pyrene TEQ (LOR) | --- | 0.5 | mg/kg | 1.2 | 1.2 | --- | --- | --- | --- | --- |
| EP080/071: Total Petroleum Hydrocarbons | | | | | | | | | | |
| C6 - C9 Fraction | --- | 10 | mg/kg | <10 | <10 | --- | --- | --- | --- | --- |

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 Work Order : EM1813052
 Client : TRACE ENVIRONMENTAL PTY LTD
 Project : 1.16



Analytical Results

| Sub-Matrix: SOIL (Matrix: SOIL) | | | | Client sample ID | QS1A | QS2A | --- | --- | --- |
|--|-------------------|-----|-------|-------------------|-------------------|------|-----|-----|-----|
| Client sampling date / time | | | | 08-Aug-2018 00:00 | 10-Aug-2018 00:00 | --- | --- | --- | |
| Compound | CAS Number | LOR | Unit | EM1813052-001 | EM1813052-002 | --- | --- | --- | |
| | | | | Result | Result | --- | --- | --- | |
| EP080/071: Total Petroleum Hydrocarbons - Continued | | | | | | | | | |
| C10 - C14 Fraction | --- | 50 | mg/kg | <50 | <50 | --- | --- | --- | |
| C15 - C28 Fraction | --- | 100 | mg/kg | <100 | <100 | --- | --- | --- | |
| C29 - C36 Fraction | --- | 100 | mg/kg | <100 | <100 | --- | --- | --- | |
| ^A C10 - C36 Fraction (sum) | --- | 50 | mg/kg | <50 | <50 | --- | --- | --- | |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions | | | | | | | | | |
| C6 - C10 Fraction | C6_C10 | 10 | mg/kg | <10 | <10 | --- | --- | --- | |
| ^A C6 - C10 Fraction minus BTEX (F1) | C6_C10-BTEX | 10 | mg/kg | <10 | <10 | --- | --- | --- | |
| >C10 - C16 Fraction | --- | 50 | mg/kg | <50 | <50 | --- | --- | --- | |
| >C16 - C34 Fraction | --- | 100 | mg/kg | <100 | <100 | --- | --- | --- | |
| >C34 - C40 Fraction | --- | 100 | mg/kg | <100 | <100 | --- | --- | --- | |
| ^A >C10 - C40 Fraction (sum) | --- | 50 | mg/kg | <50 | <50 | --- | --- | --- | |
| ^A >C10 - C16 Fraction minus Naphthalene (F2) | --- | 50 | mg/kg | <50 | <50 | --- | --- | --- | |
| EP080: BTEXN | | | | | | | | | |
| Benzene | 71-43-2 | 0.2 | mg/kg | <0.2 | <0.2 | --- | --- | --- | |
| Toluene | 108-88-3 | 0.5 | mg/kg | <0.5 | <0.5 | --- | --- | --- | |
| Ethylbenzene | 100-41-4 | 0.5 | mg/kg | <0.5 | <0.5 | --- | --- | --- | |
| meta- & para-Xylene | 108-38-3 106-42-3 | 0.5 | mg/kg | <0.5 | <0.5 | --- | --- | --- | |
| ortho-Xylene | 95-47-6 | 0.5 | mg/kg | <0.5 | <0.5 | --- | --- | --- | |
| ^A Sum of BTEX | --- | 0.2 | mg/kg | <0.2 | <0.2 | --- | --- | --- | |
| ^A Total Xylenes | --- | 0.5 | mg/kg | <0.5 | <0.5 | --- | --- | --- | |
| Naphthalene | 91-20-3 | 1 | mg/kg | <1 | <1 | --- | --- | --- | |
| EP075(SIM)S: Phenolic Compound Surrogates | | | | | | | | | |
| Phenol-d6 | 13127-88-3 | 0.5 | % | 93.4 | 95.4 | --- | --- | --- | |
| 2-Chlorophenol-D4 | 93951-73-6 | 0.5 | % | 103 | 105 | --- | --- | --- | |
| 2,4,6-Tribromophenol | 118-79-6 | 0.5 | % | 82.0 | 85.6 | --- | --- | --- | |
| EP075(SIM)T: PAH Surrogates | | | | | | | | | |
| 2-Fluorobiphenyl | 321-60-8 | 0.5 | % | 106 | 106 | --- | --- | --- | |
| Anthracene-d10 | 1719-06-8 | 0.5 | % | 110 | 112 | --- | --- | --- | |
| 4-Terphenyl-d14 | 1718-51-0 | 0.5 | % | 104 | 107 | --- | --- | --- | |
| EP080S: TPH(V)/BTEX Surrogates | | | | | | | | | |
| 1,2-Dichloroethane-D4 | 17060-07-0 | 0.2 | % | 86.4 | 88.4 | --- | --- | --- | |
| Toluene-D8 | 2037-26-5 | 0.2 | % | 85.8 | 83.9 | --- | --- | --- | |

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 Work Order : EM1813052
 Client : TRACE ENVIRONMENTAL PTY LTD
 Project : 1.16



Analytical Results

| Sub-Matrix: SOIL (Matrix: SOIL) | | | | Client sample ID | QS1A | QS2A | --- | --- | --- |
|---|------------|-----|------|-------------------|-------------------|------|-----|-----|-----|
| Client sampling date / time | | | | 08-Aug-2018 00:00 | 10-Aug-2018 00:00 | --- | --- | --- | |
| Compound | CAS Number | LOR | Unit | EM1813052-001 | EM1813052-002 | --- | --- | --- | |
| | | | | Result | Result | --- | --- | --- | |
| EP080S: TPH(V)/BTEX Surrogates - Continued | | | | | | | | | |
| 4-Bromofluorobenzene | 460-00-4 | 0.2 | % | 109 | 106 | --- | --- | --- | |

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Client : TRACE ENVIRONMENTAL PTY LTD
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**Surrogate Control Limits**

| Sub-Matrix: SOIL | | Recovery Limits (%) | |
|--|------------|---------------------|------|
| Compound | CAS Number | Low | High |
| EP075(SIM)S: Phenolic Compound Surrogates | | | |
| Phenol-d6 | 13127-88-3 | 54 | 125 |
| 2-Chlorophenol-D4 | 93951-73-6 | 65 | 123 |
| 2,4,6-Tribromophenol | 118-79-6 | 34 | 122 |
| EP075(SIM)T: PAH Surrogates | | | |
| 2-Fluorobiphenyl | 321-60-8 | 61 | 125 |
| Anthracene-d10 | 1719-06-8 | 62 | 130 |
| 4-Terphenyl-d14 | 1718-51-0 | 67 | 133 |
| EP080S: TPH(V)/BTEX Surrogates | | | |
| 1,2-Dichloroethane-D4 | 17060-07-0 | 51 | 125 |
| Toluene-D8 | 2037-26-5 | 55 | 125 |
| 4-Bromofluorobenzene | 460-00-4 | 56 | 124 |



QUALITY CONTROL REPORT

| | | | |
|--------------------------------|---|--------------------------------|---|
| Work Order | : EM1813052 | Page | : 1 of 6 |
| Client | : TRACE ENVIRONMENTAL PTY LTD | Laboratory | : Environmental Division Melbourne |
| Contact | : MR KEN HENDERSON | Contact | : Customer Services EM |
| Address | : Shop 2 793-799 New Canterbury Road Dulwich Hill NSW 2203 | Address | : 4 Westall Rd Springvale VIC Australia 3171 |
| Telephone | : --- | Telephone | : +61-3-8549 9600 |
| Project | : 1.16 | Date Samples Received | : 15-Aug-2018 |
| Order number | : | Date Analysis Commenced | : 16-Aug-2018 |
| C-O-C number | : --- | Issue Date | : 20-Aug-2018 |
| Sampler | : JE | | |
| Site | : MASCOT | | |
| Quote number | : EN/222/17 | | |
| No. of samples received | : 2 | | |
| No. of samples analysed | : 2 | | |



This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

| <i>Signatories</i> | <i>Position</i> | <i>Accreditation Category</i> |
|--------------------|-------------------------------------|---------------------------------------|
| Nancy Wang | 2IC Organic Chemist | Melbourne Inorganics, Springvale, VIC |
| Nancy Wang | 2IC Organic Chemist | Melbourne Organics, Springvale, VIC |
| Nikki Stepniewski | Senior Inorganic Instrument Chemist | Melbourne Inorganics, Springvale, VIC |

RIGHT SOLUTIONS | RIGHT PARTNER

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 Work Order : EM1813052
 Client : TRACE ENVIRONMENTAL PTY LTD
 Project : 1.16



General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis. Where the LOR of a reported result differs from standard LOR, this may be due to high

Key : Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot
 CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
 LOR = Limit of reporting
 RPD = Relative Percentage Difference
 # = Indicates failed QC

Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit; Result between 10 and 20 times LOR: 0% - 50%; Result > 20 times LOR: 0% - 20%.

Sub-Matrix: SOIL

| | | | | Laboratory Duplicate (DUP) Report | | | | | |
|---|------------------|-------------------------|------------|-----------------------------------|-------|-----------------|------------------|---------|---------------------|
| Laboratory sample ID | Client sample ID | Method: Compound | CAS Number | LOR | Unit | Original Result | Duplicate Result | RPD (%) | Recovery Limits (%) |
| EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 1879218) | | | | | | | | | |
| EM1813015-005 | Anonymous | EA055: Moisture Content | ---- | 0.1 | % | 23.6 | 23.8 | 0.536 | 0% - 20% |
| EM1813059-004 | Anonymous | EA055: Moisture Content | ---- | 0.1 | % | 3.8 | 4.1 | 7.56 | No Limit |
| EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 1879990) | | | | | | | | | |
| EM1812960-090 | Anonymous | EA055: Moisture Content | ---- | 0.1 | % | 16.4 | 18.0 | 8.94 | 0% - 50% |
| EM1813055-025 | Anonymous | EA055: Moisture Content | ---- | 0.1 | % | 21.9 | 21.6 | 1.10 | 0% - 20% |
| EG005T: Total Metals by ICP-AES (QC Lot: 1877609) | | | | | | | | | |
| EM1813052-001 | QS1A | EG005T: Cadmium | 7440-43-9 | 1 | mg/kg | <1 | <1 | 0.00 | No Limit |
| | | EG005T: Chromium | 7440-47-3 | 2 | mg/kg | 2 | 2 | 0.00 | No Limit |
| | | EG005T: Nickel | 7440-02-0 | 2 | mg/kg | 4 | <2 | 59.9 | No Limit |
| | | EG005T: Arsenic | 7440-38-2 | 5 | mg/kg | <5 | <5 | 0.00 | No Limit |
| | | EG005T: Copper | 7440-50-8 | 5 | mg/kg | <5 | <5 | 0.00 | No Limit |
| | | EG005T: Lead | 7439-92-1 | 5 | mg/kg | <5 | <5 | 0.00 | No Limit |
| | | EG005T: Zinc | 7440-66-6 | 5 | mg/kg | 10 | 13 | 23.6 | No Limit |
| EM1813059-004 | Anonymous | EG005T: Cadmium | 7440-43-9 | 1 | mg/kg | <1 | <1 | 0.00 | No Limit |
| | | EG005T: Chromium | 7440-47-3 | 2 | mg/kg | 17 | 16 | 0.00 | No Limit |
| | | EG005T: Nickel | 7440-02-0 | 2 | mg/kg | 12 | 11 | 0.00 | No Limit |
| | | EG005T: Arsenic | 7440-38-2 | 5 | mg/kg | <5 | <5 | 0.00 | No Limit |
| | | EG005T: Copper | 7440-50-8 | 5 | mg/kg | 14 | 13 | 0.00 | No Limit |
| | | EG005T: Lead | 7439-92-1 | 5 | mg/kg | 7 | 6 | 0.00 | No Limit |
| | | EG005T: Zinc | 7440-66-6 | 5 | mg/kg | 22 | 21 | 5.86 | No Limit |
| EG035T: Total Recoverable Mercury by FIMS (QC Lot: 1877608) | | | | | | | | | |
| EM1813052-001 | QS1A | EG035T: Mercury | 7439-97-6 | 0.1 | mg/kg | <0.1 | <0.1 | 0.00 | No Limit |
| EM1813059-004 | Anonymous | EG035T: Mercury | 7439-97-6 | 0.1 | mg/kg | <0.1 | <0.1 | 0.00 | No Limit |
| EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 1881052) | | | | | | | | | |

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 Work Order : EM1813052
 Client : TRACE ENVIRONMENTAL PTY LTD
 Project : 1.16



| Sub-Matrix: SOIL | | | | Laboratory Duplicate (DUP) Report | | | | | |
|--|------------------|------------------------------------|------------|-----------------------------------|-------|-----------------|------------------|---------|---------------------|
| Laboratory sample ID | Client sample ID | Method: Compound | CAS Number | LOR | Unit | Original Result | Duplicate Result | RPD (%) | Recovery Limits (%) |
| EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 1881052) - continued | | | | | | | | | |
| EM1813029-001 | Anonymous | EP075(SIM): Naphthalene | 91-20-3 | 0.5 | mg/kg | <0.5 | <0.5 | 0.00 | No Limit |
| | | EP075(SIM): Acenaphthylene | 208-96-8 | 0.5 | mg/kg | <0.5 | <0.5 | 0.00 | No Limit |
| | | EP075(SIM): Acenaphthene | 83-32-9 | 0.5 | mg/kg | <0.5 | <0.5 | 0.00 | No Limit |
| | | EP075(SIM): Fluorene | 86-73-7 | 0.5 | mg/kg | <0.5 | <0.5 | 0.00 | No Limit |
| | | EP075(SIM): Phenanthrene | 85-01-8 | 0.5 | mg/kg | 1.3 | <0.5 | 86.8 | No Limit |
| | | EP075(SIM): Anthracene | 120-12-7 | 0.5 | mg/kg | <0.5 | <0.5 | 0.00 | No Limit |
| | | EP075(SIM): Fluoranthene | 206-44-0 | 0.5 | mg/kg | 1.3 | <0.5 | 87.0 | No Limit |
| | | EP075(SIM): Pyrene | 129-00-0 | 0.5 | mg/kg | 1.1 | <0.5 | 73.2 | No Limit |
| | | EP075(SIM): Benz(a)anthracene | 56-55-3 | 0.5 | mg/kg | 0.5 | <0.5 | 0.00 | No Limit |
| | | EP075(SIM): Chrysene | 218-01-9 | 0.5 | mg/kg | 0.5 | <0.5 | 0.00 | No Limit |
| | | EP075(SIM): Benzo(b+J)fluoranthene | 205-99-2 | 0.5 | mg/kg | 0.5 | <0.5 | 0.00 | No Limit |
| | | EP075(SIM): Benzo(k)fluoranthene | 207-08-9 | 0.5 | mg/kg | <0.5 | <0.5 | 0.00 | No Limit |
| | | EP075(SIM): Benzo(a)pyrene | 50-32-8 | 0.5 | mg/kg | <0.5 | <0.5 | 0.00 | No Limit |
| | | EP075(SIM): Indeno(1,2,3-cd)pyrene | 193-39-5 | 0.5 | mg/kg | <0.5 | <0.5 | 0.00 | No Limit |
| | | EP075(SIM): Dibenzo(a,h)anthracene | 53-70-3 | 0.5 | mg/kg | <0.5 | <0.5 | 0.00 | No Limit |
| | | EP075(SIM): Benzo(g,h,i)perylene | 191-24-2 | 0.5 | mg/kg | <0.5 | <0.5 | 0.00 | No Limit |
| EP080/071: Total Petroleum Hydrocarbons (QC Lot: 1877045) | | | | | | | | | |
| EM1812960-090 | Anonymous | EP080: C6 - C9 Fraction | --- | 10 | mg/kg | <10 | <10 | 0.00 | No Limit |
| EP080/071: Total Petroleum Hydrocarbons (QC Lot: 1881053) | | | | | | | | | |
| EM1813029-001 | Anonymous | EP071: C15 - C28 Fraction | --- | 100 | mg/kg | <100 | <100 | 0.00 | No Limit |
| | | EP071: C29 - C36 Fraction | --- | 100 | mg/kg | <100 | <100 | 0.00 | No Limit |
| | | EP071: C10 - C14 Fraction | --- | 50 | mg/kg | <50 | <50 | 0.00 | No Limit |
| | | EP071: C10 - C36 Fraction (sum) | --- | 50 | mg/kg | <50 | <50 | 0.00 | No Limit |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 1877045) | | | | | | | | | |
| EM1812960-090 | Anonymous | EP080: C6 - C10 Fraction | C6_C10 | 10 | mg/kg | <10 | <10 | 0.00 | No Limit |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 1881053) | | | | | | | | | |
| EM1813029-001 | Anonymous | EP071: >C16 - C34 Fraction | --- | 100 | mg/kg | <100 | <100 | 0.00 | No Limit |
| | | EP071: >C34 - C40 Fraction | --- | 100 | mg/kg | <100 | <100 | 0.00 | No Limit |
| | | EP071: >C10 - C16 Fraction (sum) | --- | 50 | mg/kg | <50 | <50 | 0.00 | No Limit |
| | | EP071: >C10 - C40 Fraction (sum) | --- | 50 | mg/kg | <50 | <50 | 0.00 | No Limit |
| EP080: BTEXN (QC Lot: 1877045) | | | | | | | | | |
| EM1812960-090 | Anonymous | EP080: Benzene | 71-43-2 | 0.2 | mg/kg | <0.2 | <0.2 | 0.00 | No Limit |
| | | EP080: Toluene | 108-88-3 | 0.5 | mg/kg | <0.5 | <0.5 | 0.00 | No Limit |
| | | EP080: Ethylbenzene | 100-41-4 | 0.5 | mg/kg | <0.5 | <0.5 | 0.00 | No Limit |
| | | EP080: meta- & para-Xylene | 108-38-3 | 0.5 | mg/kg | <0.5 | <0.5 | 0.00 | No Limit |
| | | EP080: ortho-Xylene | 106-42-3 | 0.5 | mg/kg | <0.5 | <0.5 | 0.00 | No Limit |
| | | EP080: Naphthalene | 95-47-6 | 0.5 | mg/kg | <0.5 | <0.5 | 0.00 | No Limit |
| | | | 91-20-3 | 1 | mg/kg | <1 | <1 | 0.00 | No Limit |

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 Work Order : EM1813052
 Client : TRACE ENVIRONMENTAL PTY LTD
 Project : 1.16



Method Blank (MB) and Laboratory Control Spike (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Spike (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

Sub-Matrix: SOIL

| Method/Compound | CAS Number | LOR | Unit | Method Blank (MB) Report | Laboratory Control Spike (LCS) Report | | | |
|--|----------------------|-----|-------|--------------------------|---------------------------------------|--------------------|---------------------|------|
| | | | | Result | Spike Concentration | Spike Recovery (%) | Recovery Limits (%) | |
| | | | | | | LCS | Low | High |
| EG005T: Total Metals by ICP-AES (QCLot: 1877609) | | | | | | | | |
| EG005T: Arsenic | 7440-38-2 | 5 | mg/kg | <5 | 21.7 mg/kg | 91.0 | 79 | 113 |
| EG005T: Cadmium | 7440-43-9 | 1 | mg/kg | <1 | 4.64 mg/kg | 86.1 | 85 | 109 |
| EG005T: Chromium | 7440-47-3 | 2 | mg/kg | <2 | 43.9 mg/kg | 85.0 | 83 | 109 |
| EG005T: Copper | 7440-50-8 | 5 | mg/kg | <5 | 32 mg/kg | 90.8 | 78 | 108 |
| EG005T: Lead | 7439-92-1 | 5 | mg/kg | <5 | 40 mg/kg | 94.0 | 78 | 106 |
| EG005T: Nickel | 7440-02-0 | 2 | mg/kg | <2 | 55 mg/kg | 91.9 | 82 | 111 |
| EG005T: Zinc | 7440-66-6 | 5 | mg/kg | <5 | 60.8 mg/kg | 90.9 | 82 | 111 |
| EG035T: Total Recoverable Mercury by FIMS (QCLot: 1877608) | | | | | | | | |
| EG035T: Mercury | 7439-97-6 | 0.1 | mg/kg | <0.1 | 2.57 mg/kg | 93.0 | 77 | 104 |
| EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 1881952) | | | | | | | | |
| EP075(SIM): Naphthalene | 91-20-3 | 0.5 | mg/kg | <0.5 | 3 mg/kg | 104 | 75 | 131 |
| EP075(SIM): Acenaphthylene | 208-96-8 | 0.5 | mg/kg | <0.5 | 3 mg/kg | 102 | 70 | 132 |
| EP075(SIM): Acenaphthene | 83-32-9 | 0.5 | mg/kg | <0.5 | 3 mg/kg | 102 | 80 | 128 |
| EP075(SIM): Fluorene | 86-73-7 | 0.5 | mg/kg | <0.5 | 3 mg/kg | 102 | 70 | 128 |
| EP075(SIM): Phenanthrene | 85-01-8 | 0.5 | mg/kg | <0.5 | 3 mg/kg | 105 | 80 | 128 |
| EP075(SIM): Anthracene | 120-12-7 | 0.5 | mg/kg | <0.5 | 1.6 mg/kg | 105 | 72 | 126 |
| EP075(SIM): Fluoranthene | 206-44-0 | 0.5 | mg/kg | <0.5 | 3 mg/kg | 103 | 70 | 128 |
| EP075(SIM): Pyrene | 129-00-0 | 0.5 | mg/kg | <0.5 | 3 mg/kg | 107 | 80 | 125 |
| EP075(SIM): Benz(a)anthracene | 56-55-3 | 0.5 | mg/kg | <0.5 | 3 mg/kg | 92.4 | 70 | 130 |
| EP075(SIM): Chrysene | 218-01-9 | 0.5 | mg/kg | <0.5 | 3 mg/kg | 103 | 80 | 126 |
| EP075(SIM): Benzo(b+j)fluoranthene | 205-99-2 205-82-3 | 0.5 | mg/kg | <0.5 | 3 mg/kg | 90.0 | 71 | 124 |
| EP075(SIM): Benzo(k)fluoranthene | 207-08-9 | 0.5 | mg/kg | <0.5 | 3 mg/kg | 102 | 75 | 125 |
| EP075(SIM): Benzo(a)pyrene | 50-32-8 | 0.5 | mg/kg | <0.5 | 3 mg/kg | 89.3 | 70 | 125 |
| EP075(SIM): Indeno(1.2.3.cd)pyrene | 193-39-5 | 0.5 | mg/kg | <0.5 | 3 mg/kg | 72.6 | 71 | 128 |
| EP075(SIM): Dibenz(a,h)anthracene | 53-70-3 | 0.5 | mg/kg | <0.5 | 3 mg/kg | 72.3 | 72 | 126 |
| EP075(SIM): Benzo(g,h,i)perylene | 191-24-2 | 0.5 | mg/kg | <0.5 | 3 mg/kg | 73.7 | 68 | 127 |
| EP080/071: Total Petroleum Hydrocarbons (QCLot: 1877045) | | | | | | | | |
| EP080: C6 - C9 Fraction | --- | 10 | mg/kg | <10 | 36 mg/kg | 99.5 | 70 | 127 |
| EP080/071: Total Petroleum Hydrocarbons (QCLot: 1881053) | | | | | | | | |
| EP071: C10 - C14 Fraction | --- | 50 | mg/kg | <50 | 806 mg/kg | 99.2 | 80 | 120 |
| EP071: C15 - C28 Fraction | --- | 100 | mg/kg | <100 | 3006 mg/kg | 105 | 84 | 115 |
| EP071: C29 - C36 Fraction | --- | 100 | mg/kg | <100 | 1584 mg/kg | 93.8 | 80 | 112 |
| EP071: C10 - C36 Fraction (sum) | --- | 50 | mg/kg | <50 | --- | --- | --- | --- |

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 Work Order : EM1813052
 Client : TRACE ENVIRONMENTAL PTY LTD
 Project : 1.16



| Sub-Matrix: SOIL | | | | Method Blank (MB) Report | Laboratory Control Spike (LCS) Report | | | |
|---|------------|-----|-------|--------------------------|---------------------------------------|---------------------|------------------------|---------------------|
| Method/Compound | CAS Number | LOR | Unit | | Result | Spike Concentration | Spike Recovery (%) LCS | Recovery Limits (%) |
| | | | | | | | Low | High |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 1877045) | | | | | | | | |
| EP080: C6 - C10 Fraction | C6_C10 | 10 | mg/kg | <10 | 45 mg/kg | 96.4 | 68 | 125 |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 1881053) | | | | | | | | |
| EP071: >C10 - C16 Fraction | --- | 50 | mg/kg | <50 | 1160 mg/kg | 98.8 | 83 | 117 |
| EP071: >C16 - C34 Fraction | --- | 100 | mg/kg | <100 | 3978 mg/kg | 99.3 | 82 | 114 |
| EP071: >C34 - C40 Fraction | --- | 100 | mg/kg | <100 | 313 mg/kg | 89.1 | 73 | 115 |
| EP071: >C10 - C40 Fraction (sum) | --- | 50 | mg/kg | <50 | --- | --- | --- | --- |
| EP080: BTEXN (QCLot: 1877045) | | | | | | | | |
| EP080: Benzene | 71-43-2 | 0.2 | mg/kg | <0.2 | 2 mg/kg | 98.0 | 74 | 124 |
| EP080: Toluene | 108-88-3 | 0.5 | mg/kg | <0.5 | 2 mg/kg | 98.3 | 77 | 125 |
| EP080: Ethylbenzene | 100-41-4 | 0.5 | mg/kg | <0.5 | 2 mg/kg | 98.5 | 73 | 125 |
| EP080: meta- & para-Xylene | 108-38-3 | 0.5 | mg/kg | <0.5 | 4 mg/kg | 99.3 | 77 | 128 |
| | 106-42-3 | | | | | | | |
| EP080: ortho-Xylene | 95-47-6 | 0.5 | mg/kg | <0.5 | 2 mg/kg | 101 | 81 | 128 |
| EP080: Naphthalene | 91-20-3 | 1 | mg/kg | <1 | 0.5 mg/kg | 89.8 | 66 | 130 |

Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

| Sub-Matrix: SOIL | | | | Matrix Spike (MS) Report | | | |
|--|------------------|--------------------------|------------|--------------------------|-----------------------|---------------------|------|
| Laboratory sample ID | Client sample ID | Method/Compound | CAS Number | Spike Concentration | Spike Recovery (%) MS | Recovery Limits (%) | |
| | | | | | | Low | High |
| EG005T: Total Metals by ICP-AES (QCLot: 1877609) | | | | | | | |
| EM1813052-002 | QS2A | EG005T: Arsenic | 7440-38-2 | 50 mg/kg | 98.5 | 78 | 124 |
| | | EG005T: Cadmium | 7440-43-9 | 50 mg/kg | 93.6 | 84 | 116 |
| | | EG005T: Chromium | 7440-47-3 | 50 mg/kg | 93.0 | 79 | 121 |
| | | EG005T: Copper | 7440-50-8 | 50 mg/kg | 94.4 | 82 | 124 |
| | | EG005T: Lead | 7439-92-1 | 50 mg/kg | 100 | 76 | 124 |
| | | EG005T: Nickel | 7440-02-0 | 50 mg/kg | 95.4 | 78 | 120 |
| | | EG005T: Zinc | 7440-66-6 | 50 mg/kg | 106 | 74 | 128 |
| EG035T: Total Recoverable Mercury by FIMS (QCLot: 1877608) | | | | | | | |
| EM1813052-002 | QS2A | EG035T: Mercury | 7439-97-6 | 5 mg/kg | 79.2 | 76 | 116 |
| EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 1881052) | | | | | | | |
| EM1813029-002 | Anonymous | EP075(SIM): Acenaphthene | 83-32-9 | 3 mg/kg | 98.2 | 67 | 117 |
| | | EP075(SIM): Pyrene | 129-00-0 | 3 mg/kg | 104 | 52 | 148 |
| EP080/071: Total Petroleum Hydrocarbons (QCLot: 1877045) | | | | | | | |
| EM1812960-091 | Anonymous | EP080: C6 - C9 Fraction | --- | 28 mg/kg | 110 | 42 | 131 |

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 Client : TRACE ENVIRONMENTAL PTY LTD
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| Sub-Matrix: SOIL | | | | Matrix Spike (MS) Report | | | |
|---|------------------|----------------------------|------------|--------------------------|------------------|---------------------|------|
| | | | | Spike | SpikeRecovery(%) | Recovery Limits (%) | |
| Laboratory sample ID | Client sample ID | Method: Compound | GAS Number | Concentration | MS | Low | High |
| EP080/071: Total Petroleum Hydrocarbons (QCLot: 1881053) | | | | | | | |
| EM1813029-003 | Anonymous | EP071: C10 - C14 Fraction | ---- | 806 mg/kg | 82.6 | 53 | 123 |
| | | EP071: C15 - C28 Fraction | ---- | 3006 mg/kg | 92.9 | 70 | 124 |
| | | EP071: C29 - C36 Fraction | ---- | 1584 mg/kg | 83.2 | 64 | 118 |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 1877045) | | | | | | | |
| EM1812960-091 | Anonymous | EP080: C6 - C10 Fraction | C6_C10 | 33 mg/kg | 106 | 39 | 129 |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 1881053) | | | | | | | |
| EM1813029-003 | Anonymous | EP071: >C10 - C16 Fraction | ---- | 1160 mg/kg | 84.8 | 65 | 123 |
| | | EP071: >C16 - C34 Fraction | ---- | 3978 mg/kg | 89.3 | 67 | 121 |
| | | EP071: >C34 - C40 Fraction | ---- | 313 mg/kg | 73.0 | 44 | 126 |
| EP080: BTEXN (QCLot: 1877045) | | | | | | | |
| EM1812960-091 | Anonymous | EP080: Benzene | 71-43-2 | 2 mg/kg | 122 | 50 | 136 |
| | | EP080: Toluene | 108-88-3 | 2 mg/kg | 120 | 56 | 139 |



QA/QC Compliance Assessment to assist with Quality Review

| | | | |
|--------------|--------------------------------------|-------------------------|------------------------------------|
| Work Order | : EM1813052 | Page | : 1 of 5 |
| Client | : TRACE ENVIRONMENTAL PTY LTD | Laboratory | : Environmental Division Melbourne |
| Contact | : MR KEN HENDERSON | Telephone | : +61-3-8549 9600 |
| Project | : 1.16 | Date Samples Received | : 15-Aug-2018 |
| Site | : MASCOT | Issue Date | : 20-Aug-2018 |
| Sampler | : JE | No. of samples received | : 2 |
| Order number | : | No. of samples analysed | : 2 |

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers : Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- **NO** Method Blank value outliers occur.
- **NO** Duplicate outliers occur.
- **NO** Laboratory Control outliers occur.
- **NO** Matrix Spike outliers occur.
- For all regular sample matrices, **NO** surrogate recovery outliers occur.

Outliers : Analysis Holding Time Compliance

- **NO** Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- **NO** Quality Control Sample Frequency Outliers exist.

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Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results. This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein. Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters. Holding times for VOC in soils vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive or Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: **SOIL** Evaluation: * = Holding time breach ; ✓ = Within holding time.

| Method Container / Client Sample ID(s) | Sample Date | Extraction / Preparation | | | Analysis | | |
|---|-------------|--------------------------|--------------------|------------|---------------|------------------|------------|
| | | Date extracted | Due for extraction | Evaluation | Date analysed | Due for analysis | Evaluation |
| EA055: Moisture Content (Dried @ 105-110°C) | | | | | | | |
| Soil Glass Jar - Unpreserved (EA055) QS1A | 08-Aug-2018 | --- | --- | --- | 16-Aug-2018 | 22-Aug-2018 | ✓ |
| Soil Glass Jar - Unpreserved (EA055) QS2A | 10-Aug-2018 | --- | --- | --- | 17-Aug-2018 | 24-Aug-2018 | ✓ |
| EG005T: Total Metals by ICP-AES | | | | | | | |
| Soil Glass Jar - Unpreserved (EG005T) QS1A | 08-Aug-2018 | 16-Aug-2018 | 04-Feb-2019 | ✓ | 16-Aug-2018 | 04-Feb-2019 | ✓ |
| Soil Glass Jar - Unpreserved (EG005T) QS2A | 10-Aug-2018 | 16-Aug-2018 | 06-Feb-2019 | ✓ | 16-Aug-2018 | 06-Feb-2019 | ✓ |
| EG035T: Total Recoverable Mercury by FIMS | | | | | | | |
| Soil Glass Jar - Unpreserved (EG035T) QS1A | 08-Aug-2018 | 16-Aug-2018 | 05-Sep-2018 | ✓ | 17-Aug-2018 | 05-Sep-2018 | ✓ |
| Soil Glass Jar - Unpreserved (EG035T) QS2A | 10-Aug-2018 | 16-Aug-2018 | 07-Sep-2018 | ✓ | 17-Aug-2018 | 07-Sep-2018 | ✓ |
| EP075(SIM)B: Polynuclear Aromatic Hydrocarbons | | | | | | | |
| Soil Glass Jar - Unpreserved (EP075(SIM)) QS1A | 08-Aug-2018 | 17-Aug-2018 | 22-Aug-2018 | ✓ | 17-Aug-2018 | 26-Sep-2018 | ✓ |
| Soil Glass Jar - Unpreserved (EP075(SIM)) QS2A | 10-Aug-2018 | 17-Aug-2018 | 24-Aug-2018 | ✓ | 17-Aug-2018 | 26-Sep-2018 | ✓ |
| EP080/071: Total Petroleum Hydrocarbons | | | | | | | |
| Soil Glass Jar - Unpreserved (EP080) QS1A | 08-Aug-2018 | 16-Aug-2018 | 22-Aug-2018 | ✓ | 16-Aug-2018 | 22-Aug-2018 | ✓ |
| Soil Glass Jar - Unpreserved (EP071) QS1A | 08-Aug-2018 | 17-Aug-2018 | 22-Aug-2018 | ✓ | 17-Aug-2018 | 26-Sep-2018 | ✓ |
| Soil Glass Jar - Unpreserved (EP080) QS2A | 10-Aug-2018 | 16-Aug-2018 | 24-Aug-2018 | ✓ | 16-Aug-2018 | 24-Aug-2018 | ✓ |
| Soil Glass Jar - Unpreserved (EP071) QS2A | 10-Aug-2018 | 17-Aug-2018 | 24-Aug-2018 | ✓ | 17-Aug-2018 | 26-Sep-2018 | ✓ |

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 Client : TRACE ENVIRONMENTAL PTY LTD
 Project : 1.16



Matrix: SOIL

Evaluation: * = Holding time breach ; ✓ = Within holding time.

| Method Container / Client Sample ID(s) | Sample Date | Extraction / Preparation | | | Analysis | | |
|--|-------------|--------------------------|--------------------|------------|---------------|------------------|------------|
| | | Date extracted | Due for extraction | Evaluation | Date analysed | Due for analysis | Evaluation |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions | | | | | | | |
| Soil Glass Jar - Unpreserved (EP080) QS1A | 08-Aug-2018 | 16-Aug-2018 | 22-Aug-2018 | ✓ | 16-Aug-2018 | 22-Aug-2018 | ✓ |
| Soil Glass Jar - Unpreserved (EP071) QS1A | 08-Aug-2018 | 17-Aug-2018 | 22-Aug-2018 | ✓ | 17-Aug-2018 | 26-Sep-2018 | ✓ |
| Soil Glass Jar - Unpreserved (EP080) QS2A | 10-Aug-2018 | 16-Aug-2018 | 24-Aug-2018 | ✓ | 16-Aug-2018 | 24-Aug-2018 | ✓ |
| Soil Glass Jar - Unpreserved (EP071) QS2A | 10-Aug-2018 | 17-Aug-2018 | 24-Aug-2018 | ✓ | 17-Aug-2018 | 26-Sep-2018 | ✓ |
| EP080: BTEXN | | | | | | | |
| Soil Glass Jar - Unpreserved (EP080) QS1A | 08-Aug-2018 | 16-Aug-2018 | 22-Aug-2018 | ✓ | 16-Aug-2018 | 22-Aug-2018 | ✓ |
| Soil Glass Jar - Unpreserved (EP080) QS2A | 10-Aug-2018 | 16-Aug-2018 | 24-Aug-2018 | ✓ | 16-Aug-2018 | 24-Aug-2018 | ✓ |

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Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(were) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

Matrix: **SOIL**

Evaluation: ✖ = Quality Control frequency not within specification ; ✔ = Quality Control frequency within specification.

| Quality Control Sample Type | Method | Count | | Rate (%) | | Evaluation | Quality Control Specification |
|---|------------|-------|---------|----------|----------|------------|--------------------------------|
| | | QC | Regular | Actual | Expected | | |
| Analytical Methods | | | | | | | |
| Laboratory Duplicates (DUP) | | | | | | | |
| Moisture Content | EA055 | 4 | 40 | 10.00 | 10.00 | ✔ | NEPM 2013 B3 & ALS QC Standard |
| PAH/Phenols (SIM) | EP075(SIM) | 1 | 5 | 20.00 | 10.00 | ✔ | NEPM 2013 B3 & ALS QC Standard |
| Total Mercury by FIMS | EG035T | 2 | 16 | 12.50 | 10.00 | ✔ | NEPM 2013 B3 & ALS QC Standard |
| Total Metals by ICP-AES | EG005T | 2 | 16 | 12.50 | 10.00 | ✔ | NEPM 2013 B3 & ALS QC Standard |
| TRH - Semivolatile Fraction | EP071 | 1 | 5 | 20.00 | 10.00 | ✔ | NEPM 2013 B3 & ALS QC Standard |
| TRH Volatiles/BTEX | EP080 | 1 | 5 | 20.00 | 10.00 | ✔ | NEPM 2013 B3 & ALS QC Standard |
| Laboratory Control Samples (LCS) | | | | | | | |
| PAH/Phenols (SIM) | EP075(SIM) | 1 | 5 | 20.00 | 5.00 | ✔ | NEPM 2013 B3 & ALS QC Standard |
| Total Mercury by FIMS | EG035T | 1 | 16 | 6.25 | 5.00 | ✔ | NEPM 2013 B3 & ALS QC Standard |
| Total Metals by ICP-AES | EG005T | 1 | 16 | 6.25 | 5.00 | ✔ | NEPM 2013 B3 & ALS QC Standard |
| TRH - Semivolatile Fraction | EP071 | 1 | 5 | 20.00 | 5.00 | ✔ | NEPM 2013 B3 & ALS QC Standard |
| TRH Volatiles/BTEX | EP080 | 1 | 5 | 20.00 | 5.00 | ✔ | NEPM 2013 B3 & ALS QC Standard |
| Method Blanks (MB) | | | | | | | |
| PAH/Phenols (SIM) | EP075(SIM) | 1 | 5 | 20.00 | 5.00 | ✔ | NEPM 2013 B3 & ALS QC Standard |
| Total Mercury by FIMS | EG035T | 1 | 16 | 6.25 | 5.00 | ✔ | NEPM 2013 B3 & ALS QC Standard |
| Total Metals by ICP-AES | EG005T | 1 | 16 | 6.25 | 5.00 | ✔ | NEPM 2013 B3 & ALS QC Standard |
| TRH - Semivolatile Fraction | EP071 | 1 | 5 | 20.00 | 5.00 | ✔ | NEPM 2013 B3 & ALS QC Standard |
| TRH Volatiles/BTEX | EP080 | 1 | 5 | 20.00 | 5.00 | ✔ | NEPM 2013 B3 & ALS QC Standard |
| Matrix Spikes (MS) | | | | | | | |
| PAH/Phenols (SIM) | EP075(SIM) | 1 | 5 | 20.00 | 5.00 | ✔ | NEPM 2013 B3 & ALS QC Standard |
| Total Mercury by FIMS | EG035T | 1 | 16 | 6.25 | 5.00 | ✔ | NEPM 2013 B3 & ALS QC Standard |
| Total Metals by ICP-AES | EG005T | 1 | 16 | 6.25 | 5.00 | ✔ | NEPM 2013 B3 & ALS QC Standard |
| TRH - Semivolatile Fraction | EP071 | 1 | 5 | 20.00 | 5.00 | ✔ | NEPM 2013 B3 & ALS QC Standard |
| TRH Volatiles/BTEX | EP080 | 1 | 5 | 20.00 | 5.00 | ✔ | NEPM 2013 B3 & ALS QC Standard |

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 Work Order : EM1813052
 Client : TRACE ENVIRONMENTAL PTY LTD
 Project : 1.16



Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

| Analytical Methods | Method | Matrix | Method Descriptions |
|--|------------|--------|--|
| Moisture Content | EA055 | SOIL | In house: A gravimetric procedure based on weight loss over a 12 hour drying period at 105-110 degrees C. This method is compliant with NEPM (2013) Schedule B(3) Section 7.1 and Table 1 (14 day holding time). |
| Total Metals by ICP-AES | EG005T | SOIL | In house: Referenced to APHA 3120; USEPA SW 846 - 6010. Metals are determined following an appropriate acid digestion of the soil. The ICPAES technique ionises samples in a plasma, emitting a characteristic spectrum based on metals present. Intensities at selected wavelengths are compared against those of matrix matched standards. This method is compliant with NEPM (2013) Schedule B(3) |
| Total Mercury by FIMS | EG035T | SOIL | In house: Referenced to AS 3550, APHA 3112 Hg - B (Flow-injection (SnCl ₂) (Cold Vapour generation) AAS) FIM-AAS is an automated flameless atomic absorption technique. Mercury in solids are determined following an appropriate acid digestion. Ionic mercury is reduced online to atomic mercury vapour by SnCl ₂ which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM (2013) Schedule B(3) |
| TRH - Semivolatile Fraction | EP071 | SOIL | In house: Referenced to USEPA SW 846 - 8015A. Sample extracts are analysed by Capillary GC/FID and quantified against alkane standards over the range C10 - C40. Compliant with NEPM amended 2013. |
| PAH/Phenols (SIM) | EP075(SIM) | SOIL | In house: Referenced to USEPA SW 846 - 8270D. Extracts are analysed by Capillary GC/MS in Selective Ion Mode (SIM) and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM (2013) Schedule B(3) (Method 502 and 507) |
| TRH Volatiles/BTEX | EP080 | SOIL | In house: Referenced to USEPA SW 846 - 8260B. Extracts are analysed by Purge and Trap, Capillary GC/MS. Quantification is by comparison against an established 5 point calibration curve. Compliant with NEPM amended 2013. |
| Preparation Methods | Method | Matrix | Method Descriptions |
| Hot Block Digest for metals in soils sediments and sludges | EN69 | SOIL | In house: Referenced to USEPA 200.2. Hot Block Acid Digestion 1.0g of sample is heated with Nitric and Hydrochloric acids, then cooled. Peroxide is added and samples heated and cooled again before being filtered and bulked to volume for analysis. Digest is appropriate for determination of selected metals in sludge, sediments, and soils. This method is compliant with NEPM (2013) Schedule B(3) (Method 202) |
| Methanolic Extraction of Soils for Purge and Trap | ORG16 | SOIL | In house: Referenced to USEPA SW 846 - 5030A. 5g of solid is shaken with surrogate and 10mL methanol prior to analysis by Purge and Trap - GC/MS. |
| Tumbler Extraction of Solids | ORG17 | SOIL | In house: Mechanical agitation (tumbler). 10g of sample, Na ₂ SO ₄ and surrogate are extracted with 30mL 1:1 DCM/Acetone by end over end tumble. The solvent is decanted, dehydrated and concentrated (by KD) to the desired volume for analysis. |


Environmental
SAMPLE RECEIPT NOTIFICATION (SRN)
Work Order : EM1813052

| | |
|--|--|
| Client : TRACE ENVIRONMENTAL PTY LTD | Laboratory : Environmental Division Melbourne |
| Contact : MR KEN HENDERSON | Contact : Customer Services EM |
| Address : Shop 2 793-799 New Canterbury Road Dulwich Hill NSW 2203 | Address : 4 Westall Rd Springvale VIC Australia 3171 |
| E-mail : ken@traceenviro.com | E-mail : MelbourneEnviroSer@alsglobal.com |
| Telephone : --- | Telephone : +61-3-8549 9600 |
| Facsimile : --- | Facsimile : +61-3-8549 9626 |
| Project : 1.16 | Page : 1 of 2 |
| Order number : --- | Quote number : EB2017TRAENV0001 (EN/222/17) |
| C-O-C number : --- | QC Level : NEPM 2013 B3 & ALS QC Standard |
| Site : MASCOT | |
| Sampler : JE | |

Dates

| | |
|--|--|
| Date Samples Received : 15-Aug-2018 15:00 | Issue Date : 16-Aug-2018 |
| Client Requested Due Date : 22-Aug-2018 | Scheduled Reporting Date : 21-Aug-2018 |

Delivery Details

| | |
|-----------------------------------|---|
| Mode of Delivery : Carrier | Security Seal : Not Available |
| No. of coolers/boxes : 1 | Temperature : 13.2°C - Ice Bricks present |
| Receipt Detail : | No. of samples received / analysed : 2 / 2 |

General Comments

- This report contains the following information:
 - Sample Container(s)/Preservation Non-Compliances
 - Summary of Sample(s) and Requested Analysis
 - Proactive Holding Time Report
 - Requested Deliverables
- **Sample(s) received in non-ALS container(s).**
- **Please direct any queries related to sample condition / numbering / breakages to Client Services.**
- **Sample Disposal - Aqueous (3 weeks), Solid (2 months) from receipt of samples.**
- **Analytical work for this work order will be conducted at ALS Springvale.**
- **Please refer to the Proactive Holding Time Report table below which summarises breaches of recommended holding times that have occurred prior to samples/instructions being received at the laboratory. The absence of this summary table indicates that all samples have been received within the recommended holding times for the analysis requested.**

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Issue Date : 16-Aug-2018
 Page : 2 of 2
 Work Order : EM1813052 Amendment 0
 Client : TRACE ENVIRONMENTAL PTY LTD



Sample Container(s)/Preservation Non-Compliances

All comparisons are made against pretreatment/preservation AS, APHA, USEPA standards.

- No sample container / preservation non-compliance exists.

Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package.

If no sampling time is provided, the sampling time will default 00:00 on the date of sampling. If no sampling date is provided, the sampling date will be assumed by the laboratory and displayed in brackets without a time component

Matrix: **SOIL**

| Laboratory sample ID | Client sampling date / time | Client sample ID | SOIL - EA095-103 Moisture Content | SOIL - S-26 B metals/TRH/TEX/PAH |
|----------------------|-----------------------------|------------------|--------------------------------------|-------------------------------------|
| EM1813052-001 | 08-Aug-2018 00:00 | QS1A | ✓ | ✓ |
| EM1813052-002 | 10-Aug-2018 00:00 | QS2A | ✓ | ✓ |

Proactive Holding Time Report

Sample(s) have been received within the recommended holding times for the requested analysis.

Requested Deliverables

ACCOUNTS

- A4 - AU Tax Invoice (INV) Email accounts@traceenviro.com

JACK ELLIS

- *AU Certificate of Analysis - NATA (COA) Email jack@traceenviro.com
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI) Email jack@traceenviro.com
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC) Email jack@traceenviro.com
- A4 - AU Sample Receipt Notification - Environmental HT (SRN) Email jack@traceenviro.com
- Chain of Custody (CoC) (COC) Email jack@traceenviro.com
- EDI Format - XTab (XTAB) Email jack@traceenviro.com

KEN HENDERSON

- *AU Certificate of Analysis - NATA (COA) Email ken@traceenviro.com
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI) Email ken@traceenviro.com
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC) Email ken@traceenviro.com
- A4 - AU Sample Receipt Notification - Environmental HT (SRN) Email ken@traceenviro.com
- A4 - AU Tax Invoice (INV) Email ken@traceenviro.com
- Chain of Custody (CoC) (COC) Email ken@traceenviro.com
- EDI Format - XTab (XTAB) Email ken@traceenviro.com

6

Enviro Sample Vic

From: Alena Bounkeua
Sent: Tuesday, 14 August 2018 6:54 PM
To: Enviro Sample Vic
Cc: Enviro Sample NSW
Subject: FW: Eurofins | mgt - Report 612025 - Site MASCOT (1.16)
Attachments: 612025_COC.pdf; 612025_sample_receipt_coc.pdf; 612025_summary.pdf; image001.jpg

Hi Tony,

You will receive these samples in the morning - Can you please forward 18-Au16469 & 18-Au16471 to ALS as per client request?

I have already removed them off the report.

Thanks!

Warm Regards,

Alena Bounkeua
 Eurofins | mgt
 Phone: (02) 9900 8414
 Email: AlenaBounkeua@eurofins.com

RGR
 MARK Edmonds
 mg 10/8 1:30pm
 Eurofins

Environmental Division
 Melbourne
 Work Order Reference
EM1813052



From: Nibha Vaidya
Sent: Tuesday, 14 August 2018 4:54 PM
To: Alena Bounkeua
Subject: FW: Eurofins | mgt - Report 612025 - Site MASCOT (1.16)

From: Ken Henderson ken@traceenviro.com
Sent: Tuesday, 14 August 2018 4:52:53 PM (UTC+10:00) Canberra, Melbourne, Sydney
To: Nibha Vaidya
Cc: Jack Ellis
Subject: FW: Eurofins | mgt - Report 612025 - Site MASCOT (1.16)

*From Amy
 15/8 15:00*

EXTERNAL EMAIL

Hi Nibha,

Can I please amend a few things for this job:

1. For all samples in which we have requested asbestos, we would like the NEPM/WA quantification method.
2. Please analyse metals (M8) for samples SB1/0.5, SB10/0.5, SB11/1.2 and SB14/1.2.
3. Please analyse NEPM Screen for Soil Classification for sample SB6/2.6.
4. Please analyse metals (M8) and PAHs for samples SB18/0.2, SB19/0.8 and SB20/0.3.
5. Please analyse Suite B7 for sample SB26/0.2.
6. Please analyse the trip blank and trip spike samples for VTPH & BTEXN.

Please also HOLD the PFAS analysis for sample SB27/0.5.

Finally, please FORWARD samples OS1A and OS2A to ALS for analysis of BTEXN/TRH, PAHs, and 8 metals. These were meant to be the triplicate samples and should not be analysed by Eurofins.



CERTIFICATE OF ANALYSIS

| | | | |
|--------------------------------|---|--------------------------------|--|
| Work Order | : ES1824312 | Page | : 1 of 6 |
| Client | : TRACE ENVIRONMENTAL PTY LTD | Laboratory | : Environmental Division Sydney |
| Contact | : MR KEN HENDERSON | Contact | : Customer Services ES |
| Address | : Shop 2 793-799 New Canterbury Road Dulwich Hill NSW 2203 | Address | : 277-289 Woodpark Road Smithfield NSW Australia 2164 |
| Telephone | : --- | Telephone | : +61-2-8784 8555 |
| Project | : 1.16 Mascot | Date Samples Received | : 17-Aug-2018 15:00 |
| Order number | : --- | Date Analysis Commenced | : 20-Aug-2018 |
| C-O-C number | : 180802TRACE | Issue Date | : 23-Aug-2018 16:49 |
| Sampler | : --- | | |
| Site | : --- | | |
| Quote number | : EN/222/17 (Sydney Batches) | | |
| No. of samples received | : 3 | | |
| No. of samples analysed | : 3 | | |

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Descriptive Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

| <i>Signatories</i> | <i>Position</i> | <i>Accreditation Category</i> |
|--------------------|---------------------|--|
| Edwandy Fadjar | Organic Coordinator | Sydney Inorganics, Smithfield, NSW |
| Edwandy Fadjar | Organic Coordinator | Sydney Organics, Smithfield, NSW |
| Gerrad Morgan | Asbestos Identifier | Newcastle - Asbestos, Mayfield West, NSW |
| Ivan Taylor | Analyst | Sydney Inorganics, Smithfield, NSW |

RIGHT SOLUTIONS | RIGHT PARTNER

Page : 2 of 6
 Work Order : ES1824312
 Client : TRACE ENVIRONMENTAL PTY LTD
 Project : 1.16 Mascot



General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contact for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

LOR = Limit of reporting

^ = This result is computed from individual analyte detections at or above the level of reporting

ø = ALS is not NATA accredited for these tests.

~ = Indicates an estimated value.

- EA200N: Asbestos weights and percentages are not covered under the Scope of NATA Accreditation.
Weights of Asbestos are based on extracted bulk asbestos, fibre bundles, and/or ACM and do not include respirable fibres (if present)
The Asbestos (Fines and Fibrous) weight is calculated from the extracted Fibrous Asbestos and Asbestos Fines as an equivalent weight of 100% Asbestos
Percentages for Asbestos content in ACM are based on the 2013 NEPM default values.
All calculations of percentage Asbestos under this method are approximate and should be used as a guide only.
- EA200 'Am' Amosite (brown asbestos)
- EA200 'Cr' Crocidolite (blue asbestos)
- EA200 'Trace' - Asbestos fibres ("Free Fibres") detected by trace analysis per AS4964. The result can be interpreted that the sample contains detectable 'respirable' asbestos fibres
- EA200: Asbestos Identification Samples were analysed by Polarised Light Microscopy including dispersion staining.
- EA200 Legend
- EA200 'Ch' Chrysotile (white asbestos)
- EA200: 'UMF' Unknown Mineral Fibres. "-" indicates fibres detected may or may not be asbestos fibres. Confirmation by alternative techniques is recommended.
- EA200: Negative results for vinyl tiles should be confirmed by an independent analytical technique.
- EA200N: ALS laboratory procedures and methods used for the identification and quantitation of asbestos are consistent with AS4964-2004 and the requirements of the 2013 NEPM for Assessment of Site Contamination
- Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a,h)anthracene (1.0), Benzo(g,h,i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero, for 'TEQ 1/2LOR' are treated as half the reported LOR, and for 'TEQ LOR' are treated as being equal to the reported LOR.
Note: TEQ 1/2LOR and TEQ LOR will calculate as 0.6mg/Kg and 1.2mg/Kg respectively for samples with non-detects for all of the eight TEQ PAHs.
- EA200: For samples larger than 30g, the <2mm fraction may be sub-sampled prior to trace analysis as outlined in ISO23909:2008(E) Sect 6.3.2-2
- EA200: 'Yes' - Asbestos detected by polarised light microscopy including dispersion staining.
- EA200: 'No*' - No asbestos found, at the reporting limit of 0.1g/kg, by polarised light microscopy including dispersion staining. Asbestos material was detected and positively identified at concentrations estimated to be below 0.1g/kg.
- EA200: 'No' - No asbestos found at the reporting limit 0.1g/kg, by polarised light microscopy including dispersion staining.

Page : 3 of 6
 Work Order : ES1824312
 Client : TRACE ENVIRONMENTAL PTY LTD
 Project : 1.16 Mascot



Analytical Results

| Sub-Matrix: SOIL (Matrix: SOIL) | | | | Client sample ID | QA1A | QS3A | QA2A | --- | --- |
|--|------------|--------|---------|-------------------|-------------------|-------------------|------|-----|-----|
| Client sampling date / time | | | | 13-Aug-2018 00:00 | 13-Aug-2018 00:00 | 14-Aug-2018 00:00 | --- | --- | |
| Compound | CAS Number | LOR | Unit | ES1824312-001 | ES1824312-002 | ES1824312-003 | --- | --- | |
| | | | | Result | Result | Result | --- | --- | |
| EA055: Moisture Content (Dried @ 105-110°C) | | | | | | | | | |
| Moisture Content | --- | 1.0 | % | --- | 21.9 | --- | --- | --- | |
| EA200: AS 4964 - 2004 Identification of Asbestos in Soils | | | | | | | | | |
| Asbestos Detected | 1332-21-4 | 0.1 | g/kg | No* | --- | No | --- | --- | |
| Asbestos (Trace) | 1332-21-4 | 5 | Fibres | No | --- | No | --- | --- | |
| Asbestos Type | 1332-21-4 | - | - | Ch + Am | --- | - | --- | --- | |
| Sample weight (dry) | --- | 0.01 | g | 728 | --- | 560 | --- | --- | |
| APPROVED IDENTIFIER: | --- | - | - | G.MORGAN | --- | G.MORGAN | --- | --- | |
| EA200N: Asbestos Quantification (non-NATA) | | | | | | | | | |
| Asbestos (Fines and Fibrous <7mm) | 1332-21-4 | 0.0004 | g | 0.0021 | --- | <0.0004 | --- | --- | |
| Asbestos (Fines and Fibrous FA+AF) | --- | 0.001 | % (w/w) | <0.001 | --- | <0.001 | --- | --- | |
| Asbestos Containing Material | 1332-21-4 | 0.1 | g | <0.1 | --- | <0.1 | --- | --- | |
| Asbestos Containing Material (as 15% Asbestos in ACM >7mm) | 1332-21-4 | 0.01 | % (w/w) | <0.01 | --- | <0.01 | --- | --- | |
| Weight Used for % Calculation | --- | 0.0001 | kg | 0.728 | --- | 0.560 | --- | --- | |
| Fibrous Asbestos >7mm | --- | 0.0004 | g | <0.0004 | --- | <0.0004 | --- | --- | |
| EG005T: Total Metals by ICP-AES | | | | | | | | | |
| Arsenic | 7440-38-2 | 5 | mg/kg | --- | <5 | --- | --- | --- | |
| Cadmium | 7440-43-9 | 1 | mg/kg | --- | <1 | --- | --- | --- | |
| Chromium | 7440-47-3 | 2 | mg/kg | --- | <2 | --- | --- | --- | |
| Copper | 7440-50-8 | 5 | mg/kg | --- | <5 | --- | --- | --- | |
| Lead | 7439-92-1 | 5 | mg/kg | --- | <5 | --- | --- | --- | |
| Nickel | 7440-02-0 | 2 | mg/kg | --- | <2 | --- | --- | --- | |
| Zinc | 7440-66-6 | 5 | mg/kg | --- | 9 | --- | --- | --- | |
| EG035T: Total Recoverable Mercury by FIMS | | | | | | | | | |
| Mercury | 7439-97-6 | 0.1 | mg/kg | --- | <0.1 | --- | --- | --- | |
| EP075(SIM)B: Polynuclear Aromatic Hydrocarbons | | | | | | | | | |
| Naphthalene | 91-20-3 | 0.5 | mg/kg | --- | <0.5 | --- | --- | --- | |
| Acenaphthylene | 208-96-8 | 0.5 | mg/kg | --- | <0.5 | --- | --- | --- | |
| Acenaphthene | 83-32-9 | 0.5 | mg/kg | --- | <0.5 | --- | --- | --- | |
| Fluorene | 86-73-7 | 0.5 | mg/kg | --- | <0.5 | --- | --- | --- | |
| Phenanthrene | 85-01-8 | 0.5 | mg/kg | --- | <0.5 | --- | --- | --- | |
| Anthracene | 120-12-7 | 0.5 | mg/kg | --- | <0.5 | --- | --- | --- | |
| Fluoranthene | 206-44-0 | 0.5 | mg/kg | --- | <0.5 | --- | --- | --- | |

Page : 4 of 6
 Work Order : ES1824312
 Client : TRACE ENVIRONMENTAL PTY LTD
 Project : 1.16 Mascot



Analytical Results

| Sub-Matrix: SOIL (Matrix: SOIL) | | | | Client sample ID | QA1A | QS3A | QA2A | --- | --- |
|--|-------------------|-----|-------|------------------|-------------------|-------------------|-------------------|-----|-----|
| Client sampling date / time | | | | | 13-Aug-2018 00:00 | 13-Aug-2018 00:00 | 14-Aug-2018 00:00 | --- | --- |
| Compound | CAS Number | LOR | Unit | ES1824312-001 | ES1824312-002 | ES1824312-003 | --- | --- | |
| | | | | Result | Result | Result | --- | --- | |
| EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued | | | | | | | | | |
| Pyrene | 129-00-0 | 0.5 | mg/kg | --- | <0.5 | --- | --- | --- | |
| Benz(a)anthracene | 56-55-3 | 0.5 | mg/kg | --- | <0.5 | --- | --- | --- | |
| Chrysene | 218-01-9 | 0.5 | mg/kg | --- | <0.5 | --- | --- | --- | |
| Benzo(b+j)fluoranthene | 205-99-2 205-82-3 | 0.5 | mg/kg | --- | <0.5 | --- | --- | --- | |
| Benzo(k)fluoranthene | 207-08-9 | 0.5 | mg/kg | --- | <0.5 | --- | --- | --- | |
| Benzo(a)pyrene | 50-32-8 | 0.5 | mg/kg | --- | <0.5 | --- | --- | --- | |
| Indeno(1,2,3.cd)pyrene | 193-39-5 | 0.5 | mg/kg | --- | <0.5 | --- | --- | --- | |
| Dibenz(a,h)anthracene | 53-70-3 | 0.5 | mg/kg | --- | <0.5 | --- | --- | --- | |
| Benzo(g,h,i)perylene | 191-24-2 | 0.5 | mg/kg | --- | <0.5 | --- | --- | --- | |
| ^A Sum of polycyclic aromatic hydrocarbons | --- | 0.5 | mg/kg | --- | <0.5 | --- | --- | --- | |
| ^A Benzo(a)pyrene TEQ (zero) | --- | 0.5 | mg/kg | --- | <0.5 | --- | --- | --- | |
| ^A Benzo(a)pyrene TEQ (half LOR) | --- | 0.5 | mg/kg | --- | 0.6 | --- | --- | --- | |
| ^A Benzo(a)pyrene TEQ (LOR) | --- | 0.5 | mg/kg | --- | 1.2 | --- | --- | --- | |
| EP080/071: Total Petroleum Hydrocarbons | | | | | | | | | |
| C6 - C9 Fraction | --- | 10 | mg/kg | --- | <10 | --- | --- | --- | |
| C10 - C14 Fraction | --- | 50 | mg/kg | --- | <50 | --- | --- | --- | |
| C15 - C28 Fraction | --- | 100 | mg/kg | --- | <100 | --- | --- | --- | |
| C29 - C36 Fraction | --- | 100 | mg/kg | --- | <100 | --- | --- | --- | |
| ^A C10 - C36 Fraction (sum) | --- | 50 | mg/kg | --- | <50 | --- | --- | --- | |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions | | | | | | | | | |
| C6 - C10 Fraction | C6_C10 | 10 | mg/kg | --- | <10 | --- | --- | --- | |
| ^A C6 - C10 Fraction minus BTEX (F1) | C6_C10-BTEX | 10 | mg/kg | --- | <10 | --- | --- | --- | |
| >C10 - C16 Fraction | --- | 50 | mg/kg | --- | <50 | --- | --- | --- | |
| >C16 - C34 Fraction | --- | 100 | mg/kg | --- | <100 | --- | --- | --- | |
| >C34 - C40 Fraction | --- | 100 | mg/kg | --- | <100 | --- | --- | --- | |
| ^A >C10 - C40 Fraction (sum) | --- | 50 | mg/kg | --- | <50 | --- | --- | --- | |
| ^A >C10 - C16 Fraction minus Naphthalene (F2) | --- | 50 | mg/kg | --- | <50 | --- | --- | --- | |
| EP080: BTEXN | | | | | | | | | |
| Benzene | 71-43-2 | 0.2 | mg/kg | --- | <0.2 | --- | --- | --- | |
| Toluene | 108-88-3 | 0.5 | mg/kg | --- | <0.5 | --- | --- | --- | |
| Ethylbenzene | 100-41-4 | 0.5 | mg/kg | --- | <0.5 | --- | --- | --- | |
| meta- & para-Xylene | 108-38-3 106-42-3 | 0.5 | mg/kg | --- | <0.5 | --- | --- | --- | |
| ortho-Xylene | 95-47-6 | 0.5 | mg/kg | --- | <0.5 | --- | --- | --- | |

Page : 5 of 6
 Work Order : ES1824312
 Client : TRACE ENVIRONMENTAL PTY LTD
 Project : 1.16 Mascot



Analytical Results

| Sub-Matrix: SOIL (Matrix: SOIL) | | | | Client sample ID | QA1A | QS3A | QA2A | --- | --- |
|--|------------|-----|-------|-------------------|-------------------|-------------------|------|-----|-----|
| Client sampling date / time | | | | 13-Aug-2018 00:00 | 13-Aug-2018 00:00 | 14-Aug-2018 00:00 | --- | --- | |
| Compound | CAS Number | LOR | Unit | ES1824312-001 | ES1824312-002 | ES1824312-003 | --- | --- | |
| | | | | Result | Result | Result | --- | --- | |
| EP080: BTEXN - Continued | | | | | | | | | |
| A Sum of BTEX | --- | 0.2 | mg/kg | --- | <0.2 | --- | --- | --- | |
| A Total Xylenes | --- | 0.5 | mg/kg | --- | <0.5 | --- | --- | --- | |
| Naphthalene | 91-20-3 | 1 | mg/kg | --- | <1 | --- | --- | --- | |
| EP075(SIM)S: Phenolic Compound Surrogates | | | | | | | | | |
| Phenol-d6 | 13127-88-3 | 0.5 | % | --- | 93.6 | --- | --- | --- | |
| 2-Chlorophenol-D4 | 93951-73-6 | 0.5 | % | --- | 84.3 | --- | --- | --- | |
| 2,4,6-Tribromophenol | 118-79-6 | 0.5 | % | --- | 66.0 | --- | --- | --- | |
| EP075(SIM)T: PAH Surrogates | | | | | | | | | |
| 2-Fluorobiphenyl | 321-60-8 | 0.5 | % | --- | 88.2 | --- | --- | --- | |
| Anthracene-d10 | 1719-06-8 | 0.5 | % | --- | 87.2 | --- | --- | --- | |
| 4-Terphenyl-d14 | 1718-51-0 | 0.5 | % | --- | 81.3 | --- | --- | --- | |
| EP080S: TPH(V)/BTEX Surrogates | | | | | | | | | |
| 1,2-Dichloroethane-D4 | 17060-07-0 | 0.2 | % | --- | 89.1 | --- | --- | --- | |
| Toluene-D8 | 2037-26-5 | 0.2 | % | --- | 82.4 | --- | --- | --- | |
| 4-Bromofluorobenzene | 460-00-4 | 0.2 | % | --- | 85.2 | --- | --- | --- | |

Analytical Results

Descriptive Results

| Sub-Matrix: SOIL | | |
|--|--|--|
| Method: Compound | Client sample ID - Client sampling date / time | Analytical Results |
| EA200: AS 4964 - 2004 Identification of Asbestos in Soils | | |
| EA200: Description | QA1A - 13-Aug-2018 00:00 | Mid brown sandy soil with one piece of asbestos cement sheeting approximately 3 x 3 x 2mm. |
| EA200: Description | QA2A - 14-Aug-2018 00:00 | Mid brown sandy soil. |

Page : 6 of 6
 Work Order : ES1824312
 Client : TRACE ENVIRONMENTAL PTY LTD
 Project : 1.16 Mascot



Surrogate Control Limits

| Sub-Matrix: SOIL | | Recovery Limits (%) | |
|--|------------|---------------------|------|
| Compound | CAS Number | Low | High |
| EP075(SIM)S: Phenolic Compound Surrogates | | | |
| Phenol-d6 | 13127-98-3 | 63 | 123 |
| 2-Chlorophenol-D4 | 93951-73-6 | 66 | 122 |
| 2,4,6-Tribromophenol | 118-79-6 | 40 | 138 |
| EP075(SIM)T: PAH Surrogates | | | |
| 2-Fluorobiphenyl | 321-60-8 | 70 | 122 |
| Anthracene-d10 | 1719-06-8 | 66 | 128 |
| 4-Terphenyl-d14 | 1718-51-0 | 65 | 129 |
| EP080S: TPH(V)/BTEX Surrogates | | | |
| 1,2-Dichloroethane-D4 | 17060-07-0 | 73 | 133 |
| Toluene-D8 | 2037-26-5 | 74 | 132 |
| 4-Bromofluorobenzene | 460-00-4 | 72 | 130 |



QUALITY CONTROL REPORT

| | | | |
|--------------------------------|---|--------------------------------|--|
| Work Order | : ES1824312 | Page | : 1 of 7 |
| Client | : TRACE ENVIRONMENTAL PTY LTD | Laboratory | : Environmental Division Sydney |
| Contact | : MR KEN HENDERSON | Contact | : Customer Services ES |
| Address | : Shop 2 793-799 New Canterbury Road Dulwich Hill NSW 2203 | Address | : 277-289 Woodpark Road Smithfield NSW Australia 2164 |
| Telephone | : --- | Telephone | : +61-2-8784 8555 |
| Project | : 1.16 Mascot | Date Samples Received | : 17-Aug-2018 |
| Order number | : --- | Date Analysis Commenced | : 20-Aug-2018 |
| C-O-C number | : 180802TRACE | Issue Date | : 23-Aug-2018 |
| Sampler | : --- | | |
| Site | : --- | | |
| Quote number | : EN/222/17 (Sydney Batches) | | |
| No. of samples received | : 3 | | |
| No. of samples analysed | : 3 | | |



This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

| <i>Signatories</i> | <i>Position</i> | <i>Accreditation Category</i> |
|--------------------|---------------------|--|
| Edwandy Fadjar | Organic Coordinator | Sydney Inorganics, Smithfield, NSW |
| Edwandy Fadjar | Organic Coordinator | Sydney Organics, Smithfield, NSW |
| Gerrad Morgan | Asbestos Identifier | Newcastle - Asbestos, Mayfield West, NSW |
| Ivan Taylor | Analyst | Sydney Inorganics, Smithfield, NSW |

RIGHT SOLUTIONS | RIGHT PARTNER



Page : 2 of 7
 Work Order : ES1824312
 Client : TRACE ENVIRONMENTAL PTY LTD
 Project : 1.16 Mascot

General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis. Where the LOR of a reported result differs from standard LOR, this may be due to high

Key : Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot
 CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
 LOR = Limit of reporting
 RPD = Relative Percentage Difference
 # = Indicates failed QC

Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit; Result between 10 and 20 times LOR: 0% - 50%; Result > 20 times LOR: 0% - 20%.

Sub-Matrix: SOIL

| | | | | Laboratory Duplicate (DUP) Report | | | | | |
|---|------------------|----------------------------|------------|-----------------------------------|-------|-----------------|------------------|---------|---------------------|
| Laboratory sample ID | Client sample ID | Method: Compound | CAS Number | LOR | Unit | Original Result | Duplicate Result | RPD (%) | Recovery Limits (%) |
| EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 1887013) | | | | | | | | | |
| ES1824311-044 | Anonymous | EA055: Moisture Content | --- | 0.1 | % | 9.6 | 10.1 | 4.56 | 0% - 50% |
| ES1824321-001 | Anonymous | EA055: Moisture Content | --- | 0.1 | % | 5.6 | 5.7 | 3.09 | No Limit |
| EG005T: Total Metals by ICP-AES (QC Lot: 1889224) | | | | | | | | | |
| ES1824297-002 | Anonymous | EG005T: Cadmium | 7440-43-9 | 1 | mg/kg | <1 | <1 | 0.00 | No Limit |
| | | EG005T: Chromium | 7440-47-3 | 2 | mg/kg | 18 | 22 | 20.4 | 0% - 50% |
| | | EG005T: Nickel | 7440-02-0 | 2 | mg/kg | 10 | 10 | 0.00 | No Limit |
| | | EG005T: Arsenic | 7440-38-2 | 5 | mg/kg | 10 | 12 | 18.4 | No Limit |
| | | EG005T: Copper | 7440-50-8 | 5 | mg/kg | 35 | 32 | 6.98 | No Limit |
| | | EG005T: Lead | 7439-92-1 | 5 | mg/kg | 38 | 39 | 0.00 | No Limit |
| | | EG005T: Zinc | 7440-66-6 | 5 | mg/kg | 1150 | 1200 | 4.19 | 0% - 20% |
| ES1824321-008 | Anonymous | EG005T: Cadmium | 7440-43-9 | 1 | mg/kg | <1 | <1 | 0.00 | No Limit |
| | | EG005T: Chromium | 7440-47-3 | 2 | mg/kg | 56 | 55 | 1.95 | 0% - 20% |
| | | EG005T: Nickel | 7440-02-0 | 2 | mg/kg | 13 | 14 | 0.00 | No Limit |
| | | EG005T: Arsenic | 7440-38-2 | 5 | mg/kg | 6 | 8 | 17.9 | No Limit |
| | | EG005T: Copper | 7440-50-8 | 5 | mg/kg | 16 | 18 | 7.11 | No Limit |
| | | EG005T: Lead | 7439-92-1 | 5 | mg/kg | 15 | 16 | 0.00 | No Limit |
| | | EG005T: Zinc | 7440-66-6 | 5 | mg/kg | 34 | 34 | 0.00 | No Limit |
| EG035T: Total Recoverable Mercury by FIMS (QC Lot: 1889225) | | | | | | | | | |
| ES1824297-002 | Anonymous | EG035T: Mercury | 7439-97-6 | 0.1 | mg/kg | <0.1 | <0.1 | 0.00 | No Limit |
| ES1824321-008 | Anonymous | EG035T: Mercury | 7439-97-6 | 0.1 | mg/kg | <0.1 | <0.1 | 0.00 | No Limit |
| EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 1889653) | | | | | | | | | |
| ES1824309-001 | Anonymous | EP075(SIM): Naphthalene | 91-20-3 | 0.5 | mg/kg | <0.5 | <0.5 | 0.00 | No Limit |
| | | EP075(SIM): Acenaphthylene | 208-96-8 | 0.5 | mg/kg | <0.5 | <0.5 | 0.00 | No Limit |
| | | EP075(SIM): Acenaphthene | 83-32-9 | 0.5 | mg/kg | <0.5 | <0.5 | 0.00 | No Limit |

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 Work Order : ES1824312
 Client : TRACE ENVIRONMENTAL PTY LTD
 Project : 1.16 Mascot



| Sub-Matrix: SOIL | | | | Laboratory Duplicate (DUP) Report | | | | | |
|--|----------------------|---|----------------------|-----------------------------------|---------|-----------------|------------------|---------|---------------------|
| Laboratory sample ID | Client sample ID | Method/Compound | CAS Number | LOR | Unit | Original Result | Duplicate Result | RPD (%) | Recovery Limits (%) |
| EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 1883653) - continued | | | | | | | | | |
| ES1824309-001 | Anonymous | EP075(SIM): Fluorene | 86-73-7 | 0.5 | mg/kg | <0.5 | <0.5 | 0.00 | No Limit |
| | | EP075(SIM): Phenanthrene | 85-01-8 | 0.5 | mg/kg | <0.5 | <0.5 | 0.00 | No Limit |
| | | EP075(SIM): Anthracene | 120-12-7 | 0.5 | mg/kg | <0.5 | <0.5 | 0.00 | No Limit |
| | | EP075(SIM): Fluoranthene | 206-44-0 | 0.5 | mg/kg | <0.5 | <0.5 | 0.00 | No Limit |
| | | EP075(SIM): Pyrene | 129-00-0 | 0.5 | mg/kg | <0.5 | <0.5 | 0.00 | No Limit |
| | | EP075(SIM): Benz(a)anthracene | 56-55-3 | 0.5 | mg/kg | <0.5 | <0.5 | 0.00 | No Limit |
| | | EP075(SIM): Chrysene | 218-01-9 | 0.5 | mg/kg | <0.5 | <0.5 | 0.00 | No Limit |
| | | EP075(SIM): Benzo(b+j)fluoranthene | 205-99-2 205-82-3 | 0.5 | mg/kg | <0.5 | <0.5 | 0.00 | No Limit |
| | | EP075(SIM): Benzo(k)fluoranthene | 207-08-9 | 0.5 | mg/kg | <0.5 | <0.5 | 0.00 | No Limit |
| | | EP075(SIM): Benzo(a)pyrene | 50-32-8 | 0.5 | mg/kg | <0.5 | <0.5 | 0.00 | No Limit |
| | | EP075(SIM): Indeno(1,2,3-cd)pyrene | 193-39-5 | 0.5 | mg/kg | <0.5 | <0.5 | 0.00 | No Limit |
| | | EP075(SIM): Dibenzo(a,h)anthracene | 53-70-3 | 0.5 | mg/kg | <0.5 | <0.5 | 0.00 | No Limit |
| | | EP075(SIM): Benzo(g,h,i)perylene | 191-24-2 | 0.5 | mg/kg | <0.5 | <0.5 | 0.00 | No Limit |
| | | EP075(SIM): Sum of polycyclic aromatic hydrocarbons | --- | 0.5 | mg/kg | <0.5 | <0.5 | 0.00 | No Limit |
| | | EP075(SIM): Benzo(a)pyrene TEQ (zero) | --- | 0.5 | mg/kg | <0.5 | <0.5 | 0.00 | No Limit |
| | | ES1824309-011 | Anonymous | EP075(SIM): Naphthalene | 91-20-3 | 0.5 | mg/kg | <0.5 | <0.5 |
| EP075(SIM): Acenaphthylene | 208-96-8 | | | 0.5 | mg/kg | <0.5 | <0.5 | 0.00 | No Limit |
| EP075(SIM): Acenaphthene | 83-32-9 | | | 0.5 | mg/kg | <0.5 | <0.5 | 0.00 | No Limit |
| EP075(SIM): Fluorene | 86-73-7 | | | 0.5 | mg/kg | <0.5 | <0.5 | 0.00 | No Limit |
| EP075(SIM): Phenanthrene | 85-01-8 | | | 0.5 | mg/kg | <0.5 | <0.5 | 0.00 | No Limit |
| EP075(SIM): Anthracene | 120-12-7 | | | 0.5 | mg/kg | <0.5 | <0.5 | 0.00 | No Limit |
| EP075(SIM): Fluoranthene | 206-44-0 | | | 0.5 | mg/kg | <0.5 | <0.5 | 0.00 | No Limit |
| EP075(SIM): Pyrene | 129-00-0 | | | 0.5 | mg/kg | <0.5 | <0.5 | 0.00 | No Limit |
| EP075(SIM): Benz(a)anthracene | 56-55-3 | | | 0.5 | mg/kg | <0.5 | <0.5 | 0.00 | No Limit |
| EP075(SIM): Chrysene | 218-01-9 | | | 0.5 | mg/kg | <0.5 | <0.5 | 0.00 | No Limit |
| EP075(SIM): Benzo(b+j)fluoranthene | 205-99-2 205-82-3 | | | 0.5 | mg/kg | <0.5 | <0.5 | 0.00 | No Limit |
| EP075(SIM): Benzo(k)fluoranthene | 207-08-9 | | | 0.5 | mg/kg | <0.5 | <0.5 | 0.00 | No Limit |
| EP075(SIM): Benzo(a)pyrene | 50-32-8 | | | 0.5 | mg/kg | <0.5 | <0.5 | 0.00 | No Limit |
| EP075(SIM): Indeno(1,2,3-cd)pyrene | 193-39-5 | | | 0.5 | mg/kg | <0.5 | <0.5 | 0.00 | No Limit |
| EP075(SIM): Dibenzo(a,h)anthracene | 53-70-3 | | | 0.5 | mg/kg | <0.5 | <0.5 | 0.00 | No Limit |
| EP075(SIM): Benzo(g,h,i)perylene | 191-24-2 | | | 0.5 | mg/kg | <0.5 | <0.5 | 0.00 | No Limit |
| EP075(SIM): Sum of polycyclic aromatic hydrocarbons | --- | 0.5 | mg/kg | <0.5 | <0.5 | 0.00 | No Limit | | |
| EP075(SIM): Benzo(a)pyrene TEQ (zero) | --- | 0.5 | mg/kg | <0.5 | <0.5 | 0.00 | No Limit | | |
| EP080/071: Total Petroleum Hydrocarbons (QC Lot: 1983260) | | | | | | | | | |
| ES1824258-001 | Anonymous | EP080: C6 - C9 Fraction | --- | 10 | mg/kg | <10 | <10 | 0.00 | No Limit |
| ES1824443-001 | Anonymous | EP080: C6 - C9 Fraction | --- | 10 | mg/kg | <10 | <10 | 0.00 | No Limit |

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 Project : 1.16 Mascot



| Sub-Matrix: SOIL | | | Laboratory Duplicate (DUP) Report | | | | | | |
|--|------------------|----------------------------|-----------------------------------|------|-------|-----------------|------------------|---------|---------------------|
| Laboratory sample ID | Client sample ID | Method: Compound | CAS Number | LOR | Unit | Original Result | Duplicate Result | RPD (%) | Recovery Limits (%) |
| EP080/071: Total Petroleum Hydrocarbons (QC Lot: 1883654) | | | | | | | | | |
| ES1824309-001 | Anonymous | EP071: C15 - C28 Fraction | --- | 100 | mg/kg | <100 | <100 | 0.00 | No Limit |
| | | EP071: C29 - C36 Fraction | --- | 100 | mg/kg | <100 | <100 | 0.00 | No Limit |
| | | EP071: C10 - C14 Fraction | --- | 50 | mg/kg | <50 | <50 | 0.00 | No Limit |
| ES1824309-011 | Anonymous | EP071: C15 - C28 Fraction | --- | 100 | mg/kg | <100 | <100 | 0.00 | No Limit |
| | | EP071: C29 - C36 Fraction | --- | 100 | mg/kg | <100 | <100 | 0.00 | No Limit |
| | | EP071: C10 - C14 Fraction | --- | 50 | mg/kg | <50 | <50 | 0.00 | No Limit |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 1883260) | | | | | | | | | |
| ES1824258-001 | Anonymous | EP080: C6 - C10 Fraction | C6_C10 | 10 | mg/kg | <10 | <10 | 0.00 | No Limit |
| ES1824443-001 | Anonymous | EP080: C6 - C10 Fraction | C6_C10 | 10 | mg/kg | <10 | <10 | 0.00 | No Limit |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 1883654) | | | | | | | | | |
| ES1824309-001 | Anonymous | EP071: >C16 - C34 Fraction | --- | 100 | mg/kg | <100 | <100 | 0.00 | No Limit |
| | | EP071: >C34 - C40 Fraction | --- | 100 | mg/kg | <100 | <100 | 0.00 | No Limit |
| | | EP071: >C10 - C16 Fraction | --- | 50 | mg/kg | <50 | <50 | 0.00 | No Limit |
| ES1824309-011 | Anonymous | EP071: >C16 - C34 Fraction | --- | 100 | mg/kg | <100 | <100 | 0.00 | No Limit |
| | | EP071: >C34 - C40 Fraction | --- | 100 | mg/kg | <100 | <100 | 0.00 | No Limit |
| | | EP071: >C10 - C16 Fraction | --- | 50 | mg/kg | <50 | <50 | 0.00 | No Limit |
| EP080: BTEXN (QC Lot: 1883260) | | | | | | | | | |
| ES1824258-001 | Anonymous | EP080: Benzene | 71-43-2 | 0.2 | mg/kg | <0.2 | <0.2 | 0.00 | No Limit |
| | | EP080: Toluene | 108-88-3 | 0.5 | mg/kg | <0.5 | <0.5 | 0.00 | No Limit |
| | | EP080: Ethylbenzene | 100-41-4 | 0.5 | mg/kg | <0.5 | <0.5 | 0.00 | No Limit |
| | | EP080: meta- & para-Xylene | 108-38-3 | 0.5 | mg/kg | <0.5 | <0.5 | 0.00 | No Limit |
| | | | 106-42-3 | | | | | | |
| | | EP080: ortho-Xylene | 95-47-6 | 0.5 | mg/kg | <0.5 | <0.5 | 0.00 | No Limit |
| ES1824443-001 | Anonymous | EP080: Naphthalene | 91-20-3 | 1 | mg/kg | <1 | <1 | 0.00 | No Limit |
| | | EP080: Benzene | 71-43-2 | 0.2 | mg/kg | <0.2 | <0.2 | 0.00 | No Limit |
| | | EP080: Toluene | 108-88-3 | 0.5 | mg/kg | <0.5 | <0.5 | 0.00 | No Limit |
| | | EP080: Ethylbenzene | 100-41-4 | 0.5 | mg/kg | <0.5 | <0.5 | 0.00 | No Limit |
| | | EP080: meta- & para-Xylene | 108-38-3 | 0.5 | mg/kg | <0.5 | <0.5 | 0.00 | No Limit |
| | | | 106-42-3 | | | | | | |
| EP080: ortho-Xylene | 95-47-6 | 0.5 | mg/kg | <0.5 | <0.5 | 0.00 | No Limit | | |
| EP080: Naphthalene | 91-20-3 | 1 | mg/kg | <1 | <1 | 0.00 | No Limit | | |

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 Project : 1.16 Mascot



Method Blank (MB) and Laboratory Control Spike (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Spike (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

Sub-Matrix: SOIL

| Method/Compound | CAS Number | LOR | Unit | Method Blank (MB) Report | Laboratory Control Spike (LCS) Report | | | |
|---|----------------------|-----|-------|-----------------------------|---------------------------------------|---------------------------|---------------------------------|-----|
| | | | | Result | Spike Concentration | Spike Recovery (%) LCS | Recovery Limits (%) Low High | |
| EG005T: Total Metals by ICP-AES (QCLot: 1889224) | | | | | | | | |
| EG005T: Arsenic | 7440-38-2 | 5 | mg/kg | <5 | 21.7 mg/kg | 104 | 86 | 126 |
| EG005T: Cadmium | 7440-43-9 | 1 | mg/kg | <1 | 4.64 mg/kg | 99.0 | 83 | 113 |
| EG005T: Chromium | 7440-47-3 | 2 | mg/kg | <2 | 43.9 mg/kg | 101 | 76 | 128 |
| EG005T: Copper | 7440-50-8 | 5 | mg/kg | <5 | 32 mg/kg | 103 | 86 | 120 |
| EG005T: Lead | 7439-92-1 | 5 | mg/kg | <5 | 40 mg/kg | 98.5 | 80 | 114 |
| EG005T: Nickel | 7440-02-0 | 2 | mg/kg | <2 | 55 mg/kg | 106 | 87 | 123 |
| EG005T: Zinc | 7440-66-6 | 5 | mg/kg | <5 | 60.8 mg/kg | 111 | 80 | 122 |
| EG035T: Total Recoverable Mercury by FIMS (QCLot: 1889225) | | | | | | | | |
| EG035T: Mercury | 7439-97-6 | 0.1 | mg/kg | <0.1 | 2.57 mg/kg | 79.3 | 70 | 105 |
| EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 1883553) | | | | | | | | |
| EP075(SIM): Naphthalene | 91-20-3 | 0.5 | mg/kg | <0.5 | 6 mg/kg | 89.6 | 77 | 125 |
| EP075(SIM): Acenaphthylene | 208-96-8 | 0.5 | mg/kg | <0.5 | 6 mg/kg | 97.8 | 72 | 124 |
| EP075(SIM): Acenaphthene | 83-32-9 | 0.5 | mg/kg | <0.5 | 6 mg/kg | 91.7 | 73 | 127 |
| EP075(SIM): Fluorene | 86-73-7 | 0.5 | mg/kg | <0.5 | 6 mg/kg | 93.6 | 72 | 126 |
| EP075(SIM): Phenanthrene | 85-01-8 | 0.5 | mg/kg | <0.5 | 6 mg/kg | 96.4 | 75 | 127 |
| EP075(SIM): Anthracene | 120-12-7 | 0.5 | mg/kg | <0.5 | 6 mg/kg | 90.0 | 77 | 127 |
| EP075(SIM): Fluoranthene | 206-44-0 | 0.5 | mg/kg | <0.5 | 6 mg/kg | 90.6 | 73 | 127 |
| EP075(SIM): Pyrene | 129-00-0 | 0.5 | mg/kg | <0.5 | 6 mg/kg | 97.0 | 74 | 128 |
| EP075(SIM): Benz(a)anthracene | 56-55-3 | 0.5 | mg/kg | <0.5 | 6 mg/kg | 95.3 | 69 | 123 |
| EP075(SIM): Chrysene | 218-01-9 | 0.5 | mg/kg | <0.5 | 6 mg/kg | 93.4 | 75 | 127 |
| EP075(SIM): Benzo(b+j)fluoranthene | 205-99-2 205-82-3 | 0.5 | mg/kg | <0.5 | 6 mg/kg | 98.3 | 68 | 116 |
| EP075(SIM): Benzo(k)fluoranthene | 207-08-9 | 0.5 | mg/kg | <0.5 | 6 mg/kg | 93.1 | 74 | 126 |
| EP075(SIM): Benzo(a)pyrene | 50-32-8 | 0.5 | mg/kg | <0.5 | 6 mg/kg | 91.4 | 70 | 126 |
| EP075(SIM): Indeno(1.2.3.cd)pyrene | 193-39-5 | 0.5 | mg/kg | <0.5 | 6 mg/kg | 92.0 | 61 | 121 |
| EP075(SIM): Dibenz(a,h)anthracene | 53-70-3 | 0.5 | mg/kg | <0.5 | 6 mg/kg | 92.1 | 62 | 118 |
| EP075(SIM): Benzo(g,h,i)perylene | 191-24-2 | 0.5 | mg/kg | <0.5 | 6 mg/kg | 96.7 | 63 | 121 |
| EP080/071: Total Petroleum Hydrocarbons (QCLot: 1883260) | | | | | | | | |
| EP080: C6 - C9 Fraction | --- | 10 | mg/kg | <10 | 26 mg/kg | 83.7 | 68 | 128 |
| EP080/071: Total Petroleum Hydrocarbons (QCLot: 1883654) | | | | | | | | |
| EP071: C10 - C14 Fraction | --- | 50 | mg/kg | <50 | 300 mg/kg | 97.0 | 75 | 129 |
| EP071: C15 - C28 Fraction | --- | 100 | mg/kg | <100 | 450 mg/kg | 96.4 | 77 | 131 |
| EP071: C29 - C36 Fraction | --- | 100 | mg/kg | <100 | 300 mg/kg | 90.0 | 71 | 129 |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 1883260) | | | | | | | | |

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 Project : 1.16 Mascot



| Sub-Matrix: SOIL | | | | Method Blank (MB) Report | Laboratory Control Spike (LCS) Report | | | |
|--|------------|-----|-------|--------------------------|---------------------------------------|------------------------|---------------------|------|
| Method/Compound | CAS Number | LOR | Unit | Result | Spike Concentration | Spike Recovery (%) LCS | Recovery Limits (%) | |
| | | | | | | | Low | High |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 1883260) - continued | | | | | | | | |
| EP080: C6 - C10 Fraction | C6_C10 | 10 | mg/kg | <10 | 31 mg/kg | 88.3 | 68 | 128 |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 1883654) | | | | | | | | |
| EP071: >C10 - C16 Fraction | --- | 50 | mg/kg | <50 | 375 mg/kg | 94.3 | 77 | 125 |
| EP071: >C16 - C34 Fraction | --- | 100 | mg/kg | <100 | 525 mg/kg | 94.4 | 74 | 138 |
| EP071: >C34 - C40 Fraction | --- | 100 | mg/kg | <100 | 225 mg/kg | 99.6 | 63 | 131 |
| EP080: BTEXN (QCLot: 1883260) | | | | | | | | |
| EP080: Benzene | 71-43-2 | 0.2 | mg/kg | <0.2 | 1 mg/kg | 90.8 | 62 | 116 |
| EP080: Toluene | 108-88-3 | 0.5 | mg/kg | <0.5 | 1 mg/kg | 85.2 | 67 | 121 |
| EP080: Ethylbenzene | 100-41-4 | 0.5 | mg/kg | <0.5 | 1 mg/kg | 84.1 | 65 | 117 |
| EP080: meta- & para-Xylene | 108-38-3 | 0.5 | mg/kg | <0.5 | 2 mg/kg | 84.1 | 66 | 118 |
| | 106-42-3 | | | | | | | |
| EP080: ortho-Xylene | 95-47-6 | 0.5 | mg/kg | <0.5 | 1 mg/kg | 88.2 | 68 | 120 |
| EP080: Naphthalene | 91-20-3 | 1 | mg/kg | <1 | 1 mg/kg | 92.3 | 63 | 119 |

Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

| Sub-Matrix: SOIL | | | | Matrix Spike (MS) Report | | | | |
|---|------------------|--------------------------|------------|--------------------------|-----------------------|---------------------|-----|------|
| Laboratory sample ID | Client sample ID | Method/Compound | CAS Number | Spike Concentration | Spike Recovery (%) MS | Recovery Limits (%) | | |
| | | | | | | | Low | High |
| EG005T: Total Metals by ICP-AES (QCLot: 1889224) | | | | | | | | |
| ES1824297-002 | Anonymous | EG005T: Arsenic | 7440-38-2 | 50 mg/kg | 106 | 70 | 130 | |
| | | EG005T: Cadmium | 7440-43-9 | 50 mg/kg | 106 | 70 | 130 | |
| | | EG005T: Chromium | 7440-47-3 | 50 mg/kg | 108 | 70 | 130 | |
| | | EG005T: Copper | 7440-50-8 | 250 mg/kg | 108 | 70 | 130 | |
| | | EG005T: Lead | 7439-92-1 | 250 mg/kg | 112 | 70 | 130 | |
| | | EG005T: Nickel | 7440-02-0 | 50 mg/kg | 108 | 70 | 130 | |
| | | EG005T: Zinc | 7440-66-6 | 250 mg/kg | # Not Determined | 70 | 130 | |
| EG035T: Total Recoverable Mercury by FIMS (QCLot: 1889225) | | | | | | | | |
| ES1824297-002 | Anonymous | EG035T: Mercury | 7439-97-6 | 5 mg/kg | 90.6 | 70 | 130 | |
| EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 1883553) | | | | | | | | |
| ES1824309-001 | Anonymous | EP075(SIM): Acenaphthene | 83-32-9 | 10 mg/kg | 87.5 | 70 | 130 | |
| | | EP075(SIM): Pyrene | 129-00-0 | 10 mg/kg | 94.8 | 70 | 130 | |
| EP080/071: Total Petroleum Hydrocarbons (QCLot: 1883260) | | | | | | | | |
| ES1824258-001 | Anonymous | EP080: C6 - C9 Fraction | --- | 32.5 mg/kg | 80.1 | 70 | 130 | |

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 Work Order : ES1824312
 Client : TRACE ENVIRONMENTAL PTY LTD
 Project : 1.16 Mascot



| Sub-Matrix: SOIL | | | | Matrix Spike (MS) Report | | | |
|---|------------------|----------------------------|------------|--------------------------|-----------------------|---------------------|------|
| | | | | Spike Concentration | Spike Recovery (%) MS | Recovery Limits (%) | |
| Laboratory sample ID | Client sample ID | Method: Compound | Gas Number | Concentration | MS | Low | High |
| EP080/071: Total Petroleum Hydrocarbons (QCLot: 1883654) | | | | | | | |
| ES1824309-001 | Anonymous | EP071: C10 - C14 Fraction | ---- | 523 mg/kg | 97.6 | 73 | 137 |
| | | EP071: C15 - C28 Fraction | ---- | 2319 mg/kg | 97.9 | 53 | 131 |
| | | EP071: C29 - C36 Fraction | ---- | 1714 mg/kg | 130 | 52 | 132 |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 1883280) | | | | | | | |
| ES1824258-001 | Anonymous | EP080: C6 - C10 Fraction | C6_C10 | 37.5 mg/kg | 80.8 | 70 | 130 |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 1883654) | | | | | | | |
| ES1824309-001 | Anonymous | EP071: >C10 - C16 Fraction | ---- | 860 mg/kg | 102 | 73 | 137 |
| | | EP071: >C16 - C34 Fraction | ---- | 3223 mg/kg | 124 | 53 | 131 |
| | | EP071: >C34 - C40 Fraction | ---- | 1058 mg/kg | 120 | 52 | 132 |
| EP080: BTEXN (QCLot: 1883260) | | | | | | | |
| ES1824258-001 | Anonymous | EP080: Benzene | 71-43-2 | 2.5 mg/kg | 76.1 | 70 | 130 |
| | | EP080: Toluene | 108-88-3 | 2.5 mg/kg | 75.4 | 70 | 130 |
| | | EP080: Ethylbenzene | 100-41-4 | 2.5 mg/kg | 77.1 | 70 | 130 |
| | | EP080: meta- & para-Xylene | 108-38-3 | 2.5 mg/kg | 75.6 | 70 | 130 |
| | | | 106-42-3 | | | | |
| | | EP080: ortho-Xylene | 95-47-6 | 2.5 mg/kg | 79.5 | 70 | 130 |
| | | EP080: Naphthalene | 91-20-3 | 2.5 mg/kg | 81.3 | 70 | 130 |



QA/QC Compliance Assessment to assist with Quality Review

| | | | |
|--------------|-------------------------------|-------------------------|---------------------------------|
| Work Order | : ES1824312 | Page | : 1 of 6 |
| Client | : TRACE ENVIRONMENTAL PTY LTD | Laboratory | : Environmental Division Sydney |
| Contact | : MR KEN HENDERSON | Telephone | : +61-2-8784 8555 |
| Project | : 1.16 Mascot | Date Samples Received | : 17-Aug-2018 |
| Site | : ---- | Issue Date | : 23-Aug-2018 |
| Sampler | : ---- | No. of samples received | : 3 |
| Order number | : ---- | No. of samples analysed | : 3 |

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers : Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- **NO** Method Blank value outliers occur.
- **NO** Duplicate outliers occur.
- **NO** Laboratory Control outliers occur.
- Matrix Spike outliers exist - please see following pages for full details.
- For all regular sample matrices, **NO** surrogate recovery outliers occur.

Outliers : Analysis Holding Time Compliance

- **NO** Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- **NO** Quality Control Sample Frequency Outliers exist.

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 Work Order : ES1824312
 Client : TRACE ENVIRONMENTAL PTY LTD
 Project : 1.16 Mascot



Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **SOIL**

| Compound Group Name | Laboratory Sample ID | Client Sample ID | Analyte | CAS Number | Data | Limits | Comment |
|-------------------------------------|----------------------|------------------|---------|------------|----------------|--------|---|
| Matrix Spike (MS) Recoveries | | | | | | | |
| EG005T: Total Metals by ICP-AES | ES1824297-002 | Anonymous | Zinc | 7440-66-6 | Not Determined | --- | MS recovery not determined, background level greater than or equal to 4x spike level. |

Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for VOC in soils vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive or Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: **SOIL**

Evaluation: * = Holding time breach ; ✓ = Within holding time.

| Method Container / Client Sample ID(s) | Sample Date | Extraction / Preparation | | | Analysis | | |
|--|-------------|--------------------------|--------------------|------------|---------------|------------------|------------|
| | | Date extracted | Due for extraction | Evaluation | Date analysed | Due for analysis | Evaluation |
| EA055: Moisture Content (Dried @ 105-110°C) | | | | | | | |
| Soil Glass Jar - Unpreserved (EA055) QS3A | 13-Aug-2018 | --- | --- | --- | 21-Aug-2018 | 27-Aug-2018 | ✓ |
| EA200: AS 4964 - 2004 Identification of Asbestos in Soils | | | | | | | |
| Snap Lock Bag (EA200) QA1A | 13-Aug-2018 | --- | --- | --- | 21-Aug-2018 | 09-Feb-2019 | ✓ |
| Snap Lock Bag (EA200) QA2A | 14-Aug-2018 | --- | --- | --- | 21-Aug-2018 | 10-Feb-2019 | ✓ |
| EA200N: Asbestos Quantification (non-NATA) | | | | | | | |
| Snap Lock Bag (EA200N) QA1A | 13-Aug-2018 | --- | --- | --- | 21-Aug-2018 | 09-Feb-2019 | ✓ |
| Snap Lock Bag (EA200N) QA2A | 14-Aug-2018 | --- | --- | --- | 21-Aug-2018 | 10-Feb-2019 | ✓ |
| EG005T: Total Metals by ICP-AES | | | | | | | |
| Soil Glass Jar - Unpreserved (EG005T) QS3A | 13-Aug-2018 | 22-Aug-2018 | 09-Feb-2019 | ✓ | 22-Aug-2018 | 09-Feb-2019 | ✓ |
| EG035T: Total Recoverable Mercury by FIMS | | | | | | | |
| Soil Glass Jar - Unpreserved (EG035T) QS3A | 13-Aug-2018 | 22-Aug-2018 | 10-Sep-2018 | ✓ | 22-Aug-2018 | 10-Sep-2018 | ✓ |
| EP075(SIM): Polynuclear Aromatic Hydrocarbons | | | | | | | |
| Soil Glass Jar - Unpreserved (EP075(SIM)) QS3A | 13-Aug-2018 | 21-Aug-2018 | 27-Aug-2018 | ✓ | 22-Aug-2018 | 30-Sep-2018 | ✓ |

Page : 3 of 6
 Work Order : ES1824312
 Client : TRACE ENVIRONMENTAL PTY LTD
 Project : 1.16 Mascot



Matrix: SOIL

Evaluation: * = Holding time breach ; ✓ = Within holding time.

| Method Container / Client Sample ID(s) | Sample Date | Extraction / Preparation | | | Analysis | | |
|--|-------------|--------------------------|--------------------|------------|---------------|------------------|------------|
| | | Date extracted | Due for extraction | Evaluation | Date analysed | Due for analysis | Evaluation |
| EP080/071: Total Petroleum Hydrocarbons | | | | | | | |
| Soil Glass Jar - Unpreserved (EP080) QS3A | 13-Aug-2018 | 20-Aug-2018 | 27-Aug-2018 | ✓ | 22-Aug-2018 | 27-Aug-2018 | ✓ |
| Soil Glass Jar - Unpreserved (EP071) QS3A | 13-Aug-2018 | 21-Aug-2018 | 27-Aug-2018 | ✓ | 22-Aug-2018 | 30-Sep-2018 | ✓ |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions | | | | | | | |
| Soil Glass Jar - Unpreserved (EP080) QS3A | 13-Aug-2018 | 20-Aug-2018 | 27-Aug-2018 | ✓ | 22-Aug-2018 | 27-Aug-2018 | ✓ |
| Soil Glass Jar - Unpreserved (EP071) QS3A | 13-Aug-2018 | 21-Aug-2018 | 27-Aug-2018 | ✓ | 22-Aug-2018 | 30-Sep-2018 | ✓ |
| EP080: BTEXN | | | | | | | |
| Soil Glass Jar - Unpreserved (EP080) QS3A | 13-Aug-2018 | 20-Aug-2018 | 27-Aug-2018 | ✓ | 22-Aug-2018 | 27-Aug-2018 | ✓ |

Page : 4 of 6
 Work Order : ES1824312
 Client : TRACE ENVIRONMENTAL PTY LTD
 Project : 1.16 Mascot



Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(were) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

Matrix: **SOIL**

Evaluation: ✖ = Quality Control frequency not within specification ; ✔ = Quality Control frequency within specification.

| Quality Control Sample Type | Method | Count | | Rate (%) | | Evaluation | Quality Control Specification |
|---|------------|-------|---------|----------|----------|------------|--------------------------------|
| | | QC | Regular | Actual | Expected | | |
| Analytical Methods | | | | | | | |
| Laboratory Duplicates (DUP) | | | | | | | |
| Moisture Content | EA055 | 2 | 20 | 10.00 | 10.00 | ✔ | NEPM 2013 B3 & ALS QC Standard |
| PAH/Phenols (SIM) | EP075(SIM) | 2 | 13 | 15.38 | 10.00 | ✔ | NEPM 2013 B3 & ALS QC Standard |
| Total Mercury by FIMS | EG035T | 2 | 18 | 11.11 | 10.00 | ✔ | NEPM 2013 B3 & ALS QC Standard |
| Total Metals by ICP-AES | EG005T | 2 | 20 | 10.00 | 10.00 | ✔ | NEPM 2013 B3 & ALS QC Standard |
| TRH - Semivolatile Fraction | EP071 | 2 | 19 | 10.53 | 10.00 | ✔ | NEPM 2013 B3 & ALS QC Standard |
| TRH Volatiles/BTEX | EP080 | 2 | 15 | 13.33 | 10.00 | ✔ | NEPM 2013 B3 & ALS QC Standard |
| Laboratory Control Samples (LCS) | | | | | | | |
| PAH/Phenols (SIM) | EP075(SIM) | 1 | 13 | 7.69 | 5.00 | ✔ | NEPM 2013 B3 & ALS QC Standard |
| Total Mercury by FIMS | EG035T | 1 | 18 | 5.56 | 5.00 | ✔ | NEPM 2013 B3 & ALS QC Standard |
| Total Metals by ICP-AES | EG005T | 1 | 20 | 5.00 | 5.00 | ✔ | NEPM 2013 B3 & ALS QC Standard |
| TRH - Semivolatile Fraction | EP071 | 1 | 19 | 5.26 | 5.00 | ✔ | NEPM 2013 B3 & ALS QC Standard |
| TRH Volatiles/BTEX | EP080 | 1 | 15 | 6.67 | 5.00 | ✔ | NEPM 2013 B3 & ALS QC Standard |
| Method Blanks (MB) | | | | | | | |
| PAH/Phenols (SIM) | EP075(SIM) | 1 | 13 | 7.69 | 5.00 | ✔ | NEPM 2013 B3 & ALS QC Standard |
| Total Mercury by FIMS | EG035T | 1 | 18 | 5.56 | 5.00 | ✔ | NEPM 2013 B3 & ALS QC Standard |
| Total Metals by ICP-AES | EG005T | 1 | 20 | 5.00 | 5.00 | ✔ | NEPM 2013 B3 & ALS QC Standard |
| TRH - Semivolatile Fraction | EP071 | 1 | 19 | 5.26 | 5.00 | ✔ | NEPM 2013 B3 & ALS QC Standard |
| TRH Volatiles/BTEX | EP080 | 1 | 15 | 6.67 | 5.00 | ✔ | NEPM 2013 B3 & ALS QC Standard |
| Matrix Spikes (MS) | | | | | | | |
| PAH/Phenols (SIM) | EP075(SIM) | 1 | 13 | 7.69 | 5.00 | ✔ | NEPM 2013 B3 & ALS QC Standard |
| Total Mercury by FIMS | EG035T | 1 | 18 | 5.56 | 5.00 | ✔ | NEPM 2013 B3 & ALS QC Standard |
| Total Metals by ICP-AES | EG005T | 1 | 20 | 5.00 | 5.00 | ✔ | NEPM 2013 B3 & ALS QC Standard |
| TRH - Semivolatile Fraction | EP071 | 1 | 19 | 5.26 | 5.00 | ✔ | NEPM 2013 B3 & ALS QC Standard |
| TRH Volatiles/BTEX | EP080 | 1 | 15 | 6.67 | 5.00 | ✔ | NEPM 2013 B3 & ALS QC Standard |

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 Work Order : ES1824312
 Client : TRACE ENVIRONMENTAL PTY LTD
 Project : 1.16 Mascot



Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

| Analytical Methods | Method | Matrix | Method Descriptions |
|--|------------|--------|--|
| Moisture Content | EA055 | SOIL | In house: A gravimetric procedure based on weight loss over a 12 hour drying period at 105-110 degrees C. This method is compliant with NEPM (2013) Schedule B(3) Section 7.1 and Table 1 (14 day holding time). |
| Asbestos Identification in Soils | EA200 | SOIL | AS 4964 - 2004 Method for the qualitative identification of asbestos in bulk samples Analysis by Polarised Light Microscopy including dispersion staining |
| Asbestos Classification and Quantitation per NEPM 2013 | * EA200N | SOIL | Asbestos Classification and Quantitation per NEPM 2013 with Confirmation of Identification by AS 4964 - 2004 Gravimetric determination of Asbestos Containing Material, Fibrous Asbestos, Asbestos Fines and sample weight and calculation of percentage concentrations per NEPM protocols. Asbestos (Fines and Fibrous FA+AF) is reported as the equivalent weight in the sample received after accounting for sub-sampling (where applicable for the <7mm and/or <2mm fractions). |
| Total Metals by ICP-AES | EG005T | SOIL | In house: Referenced to APHA 3120; USEPA SW 846 - 6010. Metals are determined following an appropriate acid digestion of the soil. The ICPAES technique ionises samples in a plasma, emitting a characteristic spectrum based on metals present. Intensities at selected wavelengths are compared against those of matrix matched standards. This method is compliant with NEPM (2013) Schedule B(3) |
| Total Mercury by FIMS | EG035T | SOIL | In house: Referenced to AS 3550, APHA 3112 Hg - B (Flow-injection (SnCl ₂) (Cold Vapour generation) AAS) FIM-AAS is an automated flameless atomic absorption technique. Mercury in solids are determined following an appropriate acid digestion. Ionic mercury is reduced online to atomic mercury vapour by SnCl ₂ which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM (2013) Schedule B(3) |
| TRH - Semivolatile Fraction | EP071 | SOIL | In house: Referenced to USEPA SW 846 - 8015A Sample extracts are analysed by Capillary GC/FID and quantified against alkane standards over the range C10 - C40. Compliant with NEPM amended 2013. |
| PAH/Phenols (SIM) | EP075(SIM) | SOIL | In house: Referenced to USEPA SW 846 - 8270D. Extracts are analysed by Capillary GC/MS in Selective Ion Mode (SIM) and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM (2013) Schedule B(3) (Method 502 and 507) |
| TRH Volatiles/BTEX | EP080 | SOIL | In house: Referenced to USEPA SW 846 - 8260B. Extracts are analysed by Purge and Trap, Capillary GC/MS. Quantification is by comparison against an established 5 point calibration curve. Compliant with NEPM amended 2013. |
| Preparation Methods | Method | Matrix | Method Descriptions |
| Hot Block Digest for metals in soils sediments and sludges | EN69 | SOIL | In house: Referenced to USEPA 200.2. Hot Block Acid Digestion 1.0g of sample is heated with Nitric and Hydrochloric acids, then cooled. Peroxide is added and samples heated and cooled again before being filtered and bulked to volume for analysis. Digest is appropriate for determination of selected metals in sludge, sediments, and soils. This method is compliant with NEPM (2013) Schedule B(3) (Method 202) |
| Methanolic Extraction of Soils for Purge and Trap | ORG16 | SOIL | In house: Referenced to USEPA SW 846 - 5030A. 5g of solid is shaken with surrogate and 10mL methanol prior to analysis by Purge and Trap - GC/MS. |
| Tumbler Extraction of Solids | ORG17 | SOIL | In house: Mechanical agitation (tumbler). 10g of sample, Na ₂ SO ₄ and surrogate are extracted with 30mL 1:1 DCM/Acetone by end over end tumble. The solvent is decanted, dehydrated and concentrated (by KD) to the desired volume for analysis. |

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Work Order : ES1824312
Client : TRACE ENVIRONMENTAL PTY LTD
Project : 1.16 Mascot




Environmental
SAMPLE RECEIPT NOTIFICATION (SRN)
Work Order : ES1824312

| | |
|--|---|
| Client : TRACE ENVIRONMENTAL PTY LTD | Laboratory : Environmental Division Sydney |
| Contact : MR KEN HENDERSON | Contact : Customer Services ES |
| Address : Shop 2 793-799 New Canterbury Road Dulwich Hill NSW 2203 | Address : 277-289 Woodpark Road Smithfield NSW Australia 2164 |
| E-mail : ken@traceenviro.com | E-mail : ALSEnviro.Sydney@alsglobal.com |
| Telephone : --- | Telephone : +61-2-8784 8555 |
| Facsimile : --- | Facsimile : +61-2-8784 8500 |
| Project : 1.16 Mascot | Page : 1 of 2 |
| Order number : --- | Quote number : --- |
| C-O-C number : 180802TRACE | QC Level : NEPM 2013 B3 & ALS QC Standard |
| Site : --- | |
| Sampler : --- | |

Dates

| | |
|--|--|
| Date Samples Received : 17-Aug-2018 15:00 | Issue Date : 18-Aug-2018 |
| Client Requested Due : 23-Aug-2018 | Scheduled Reporting Date : 23-Aug-2018 |
| Date : --- | |

Delivery Details

| | |
|---|---|
| Mode of Delivery : Client Drop Off | Security Seal : Not Available |
| No. of coolers/boxes : 1 | Temperature : 7.7°C - Ice present |
| Receipt Detail : | No. of samples received / analysed : 3 / 3 |

General Comments

- This report contains the following information:
 - Sample Container(s)/Preservation Non-Compliances
 - Summary of Sample(s) and Requested Analysis
 - Proactive Holding Time Report
 - Requested Deliverables
- **Please refer to the Proactive Holding Time Report table below which summarises breaches of recommended holding times that have occurred prior to samples/instructions being received at the laboratory. The absence of this summary table indicates that all samples have been received within the recommended holding times for the analysis requested.**
- **Sample(s) requiring volatile organic compound analysis received in airtight containers (ZHE).**
- **Asbestos analysis will be conducted by ALS Newcastle.**
- Please direct any queries you have regarding this work order to the above ALS laboratory contact.
- Analytical work for this work order will be conducted at ALS Sydney.
- Sample Disposal - Aqueous (3 weeks), Solid (2 months) from receipt of samples.

RIGHT SOLUTIONS | RIGHT PARTNER

Issue Date : 18-Aug-2018
 Page : 2 of 2
 Work Order : ES1824312 Amendment 0
 Client : TRACE ENVIRONMENTAL PTY LTD



Sample Container(s)/Preservation Non-Compliances

All comparisons are made against pretreatment/preservation AS, APHA, USEPA standards.

| Method | Sample Container Received | Preferred Sample Container for Analysis |
|--|---------------------------|---|
| Asbestos Classification and Quantitation per NEM 2013: EA2008 | | |
| QA1A | - Snap Lock Bag | - Snap Lock Bag: Separate bag received |
| QA2A | - Snap Lock Bag | - Snap Lock Bag: Separate bag received |

Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package.

If no sampling time is provided, the sampling time will default 00:00 on the date of sampling. If no sampling date is provided, the sampling date will be assumed by the laboratory and displayed in brackets without a time component

Matrix: SOIL

| Laboratory sample ID | Client sampling date / time | Client sample ID | SOIL - EA2008-103 Moisture Content | SOIL - EA2008 Asbestos in Soils - (1kg samples ONLY) | SOIL - 8206 Asbestos in Soils - (1kg samples ONLY) |
|----------------------|-----------------------------|------------------|---------------------------------------|---|---|
| ES1824312-001 | 13-Aug-2018 00:00 | QA1A | | ✓ | |
| ES1824312-002 | 13-Aug-2018 00:00 | QS3A | ✓ | | ✓ |
| ES1824312-003 | 14-Aug-2018 00:00 | QA2A | | ✓ | |

Proactive Holding Time Report

Sample(s) have been received within the recommended holding times for the requested analysis.

Requested Deliverables

ACCOUNTS < last name >

- A4 - AU Tax Invoice (INV)

Email accounts@traceenviro.com

KEN HENDERSON

- *AU Certificate of Analysis - NATA (COA)
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)
- A4 - AU Tax Invoice (INV)
- Chain of Custody (CoC) (COC)
- EDI Format - ENMRG (ENMRG)
- EDI Format - ESDAT (ESDAT)

Email ken@traceenviro.com
 Email ken@traceenviro.com

eurolims

CHAIN OF CUSTODY RECORD

Project Name: *WATER ELIS*
Project Manager: *Kate Holden*
Client: *Ken Co HOLDENWINA.COM*

Product Name: *PLASTIC*

Product Number: *116*

Barcode: *ES1824312*

Environmental Division

Method of shipment: *Standard*

Report number: *11619020*

| Sample ID | Date | Label | Analysis | Method of shipment | Temperature |
|-----------|----------|-------|------------------------|--------------------|-------------|
| 1 | 30/05/18 | SOIL | Asbestos (wa/wet) | Standard | 10°C |
| 2 | 30/05/18 | SOIL | Suite B7 | Standard | 10°C |
| 3 | 30/05/18 | SOIL | Suite B7A | Standard | 10°C |
| 4 | 30/05/18 | SOIL | Suite B15 | Standard | 10°C |
| 5 | 30/05/18 | SOIL | PAH | Standard | 10°C |
| 6 | 30/05/18 | SOIL | Room Suite M8 | Standard | 10°C |
| 7 | 30/05/18 | SOIL | VOC | Standard | 10°C |
| 8 | 30/05/18 | SOIL | Fieldwork He & P/Heve* | Standard | 10°C |
| 9 | 30/05/18 | SOIL | 28 PCAS | Standard | 10°C |
| 10 | 30/05/18 | SOIL | Suite R21 | Standard | 10°C |

Notes: *Asbestos (wa/wet) Suite B7 Suite B7A Suite B15 PAH Room Suite M8 VOC Fieldwork He & P/Heve* 28 PCAS Suite R21*

Signature: *WGR/MS*

Method of shipment: *Standard*

Report number: *11619020*

* PHL for only (SPRACKS ASS method) "Field Test" - ASS IN CURTAIN METHOD - REC SER 11619020
 All ASS bags have been frozen.
 KSDATA 710 012119/1500 775

eurolims **CHAIN OF CUSTODY RECORD**

Client Details: Company Name: THACT Environmental Contact Name: Sack Ellis
 Office Address: 700-700 New Lambton Road, Newcastle NSW 2305
 Project Manager: Sack Ellis
 Email for results: See COC Page 1

Project Details: Project Name: Asbestos (WA) M&M
 Project Number: 16
 Purchase Order: WA01
 OHS Number: 3016
 Email for next order: See COC Page 1

Site Information: Site Name: Asbestos (WA) M&M
 Site Address: Suite B7, Suite B7a, Suite B15, PAH, Suite M8, VOC, 78 PFAS, Suite R21

| Sample ID | Date | Matrix | Method | Analysis | Hold | Method of Storage | Temperature on arrival |
|-----------|----------|----------|--------|----------|------|-------------------|------------------------|
| 1 | 18/08/18 | Asbestos | 100 | Asbestos | | | |
| 2 | 18/08/18 | Asbestos | 100 | Asbestos | | | |
| 3 | 18/08/18 | Asbestos | 100 | Asbestos | | | |
| 4 | 18/08/18 | Asbestos | 100 | Asbestos | | | |
| 5 | 18/08/18 | Asbestos | 100 | Asbestos | | | |
| 6 | 18/08/18 | Asbestos | 100 | Asbestos | | | |
| 7 | 18/08/18 | Asbestos | 100 | Asbestos | | | |
| 8 | 18/08/18 | Asbestos | 100 | Asbestos | | | |
| 9 | 18/08/18 | Asbestos | 100 | Asbestos | | | |
| 10 | 18/08/18 | Asbestos | 100 | Asbestos | | | |
| 11 | 18/08/18 | Asbestos | 100 | Asbestos | | | |
| 12 | 18/08/18 | Asbestos | 100 | Asbestos | | | |
| 13 | 18/08/18 | Asbestos | 100 | Asbestos | | | |
| 14 | 18/08/18 | Asbestos | 100 | Asbestos | | | |
| 15 | 18/08/18 | Asbestos | 100 | Asbestos | | | |
| 16 | 18/08/18 | Asbestos | 100 | Asbestos | | | |
| 17 | 18/08/18 | Asbestos | 100 | Asbestos | | | |
| 18 | 18/08/18 | Asbestos | 100 | Asbestos | | | |
| 19 | 18/08/18 | Asbestos | 100 | Asbestos | | | |
| 20 | 18/08/18 | Asbestos | 100 | Asbestos | | | |

Signature: Sack Ellis (Signature) Sack Ellis (Print Name)
 Date: 18/08/18

Method of Storage: Asbestos

Temperature on arrival: Asbestos

Product Number: Asbestos

Handwritten note: PAH only (SpocASASS method) "Cold bear" = As Page 1.

Sydney
120 Pitt Street Sydney NSW 2000
Tel: 61 2 9250 2000
Fax: 61 2 9250 2001
Email: info@eurofins.com.au

Brisbane
111 St Leonards Road, Brisbane
QLD 4007
Tel: 61 7 3250 2000
Fax: 61 7 3250 2001
Email: info@eurofins.com.au

Melbourne
270 Collins Street, Melbourne
VIC 3000
Tel: 61 3 9250 2000
Fax: 61 3 9250 2001
Email: info@eurofins.com.au

CHAIN OF CUSTODY RECORD

CLIENT DETAILS

Company Name: **THREE ENVIRONMENT CONSULTANTS**

Project Name: **SAKELLS**

Office Address: **79-81 New Canterbury Road, Dundas, SA 5111**

Project Manager: **SAKELLS**

Analyst: **SAKELLS**

Product Order: **4028**

Special Director's: **SAKELLS**

| Sample ID | Batch | Sublot | Asbestos (WAFEMP) | PAH | Suite MS | VOC | Condition other PPHOX | ZS OFAS | Suite E21 |
|-----------|---------|---------------------------|-------------------|-----|----------|-----|-----------------------|---------|-----------|
| 1 | SAKELLS | 79-81 New Canterbury Road | | | | | | | |
| 2 | SAKELLS | 79-81 New Canterbury Road | | | | | | | |
| 3 | SAKELLS | 79-81 New Canterbury Road | | | | | | | |
| 4 | SAKELLS | 79-81 New Canterbury Road | | | | | | | |
| 5 | SAKELLS | 79-81 New Canterbury Road | | | | | | | |
| 6 | SAKELLS | 79-81 New Canterbury Road | | | | | | | |
| 7 | SAKELLS | 79-81 New Canterbury Road | | | | | | | |
| 8 | SAKELLS | 79-81 New Canterbury Road | | | | | | | |
| 9 | SAKELLS | 79-81 New Canterbury Road | | | | | | | |
| 10 | SAKELLS | 79-81 New Canterbury Road | | | | | | | |
| 11 | SAKELLS | 79-81 New Canterbury Road | | | | | | | |
| 12 | SAKELLS | 79-81 New Canterbury Road | | | | | | | |
| 13 | SAKELLS | 79-81 New Canterbury Road | | | | | | | |
| 14 | SAKELLS | 79-81 New Canterbury Road | | | | | | | |
| 15 | SAKELLS | 79-81 New Canterbury Road | | | | | | | |
| 16 | SAKELLS | 79-81 New Canterbury Road | | | | | | | |

LABORATORY SIGN

Received By: **SAKELLS**

Date & Time: **14/8/18**

Signature: **SAKELLS**

Analyst: **SAKELLS**

Product Order: **4028**

Special Director's: **SAKELLS**

* PHOX ONLY (Specs MS Method) - Add DATA - AS Page 1



Certificate of Analysis

Trace Environmental P/L
 Shop 2, 7 3 7 New Canterbury Road
 Dulwich Hill
 NSW 2203



NATA Accredited
 Accreditation Number 1261
 Site Number 1 217

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: K en Henderson
 Report 612 7 W
 Pro ect name MASCO T
 Pro ect ID 1.1
 Received Date Aug 15 2018

| Client Sample ID | | | MW1 | MW2 | MW3 | MW4 | |
|---|-------|------|-------------|-------------|-------------|-------------|-------------|
| Sample Matrix | | | Water | Water | Water | Water | |
| Eurofins mgt Sample No. | | | S1 Au1 | S1 Au1 | S1 Au1 | S1 Au20000 | S1 Au20001 |
| Date Sampled | | | Aug 1 , 201 |
| Test Reference | LO R | nit | | | | | |
| Total Recoverable Hydrocarbons 2013 NEPM Fractions | | | | | | | |
| Naphthalene ⁹² | 0.01 | mg L | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| T RH C C10 | 0.02 | mg L | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| T RH C C10 less BT EX ⁹⁰ F1 | 0.02 | mg L | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| T RH C10 C1 | 0.05 | mg L | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| T RH C10 C1 less Naphthalene ⁹⁰¹ F2 | 0.05 | mg L | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| T RH C1 C | 0.1 | mg L | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| T RH C C 0 | 0.1 | mg L | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| T RH C10 C 0 total | 0.1 | mg L | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Total Recoverable Hydrocarbons 1 NEPM Fractions | | | | | | | |
| T RH C C | 0.02 | mg L | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| T RH C10 C1 | 0.05 | mg L | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| T RH C15 C28 | 0.1 | mg L | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| T RH C2 C | 0.1 | mg L | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| T RH C10 T otal | 0.1 | mg L | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| B TEX | | | | | | | |
| Ben ene | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| T oluene | 0.001 | mg L | 0.002 | 0.001 | 0.001 | 0.001 | 0.001 |
| Ethylben ene | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| m p X ylenes | 0.002 | mg L | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 |
| o X ylene | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| X ylenes T otal | 0.00 | mg L | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Bromofluoroben ene surr. | 1 | | 10 | 121 | 11 | 118 | |
| V olatile Organics | | | | | | | |
| 1.1 Dichloroethane | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| 1.1 Dichloroethane | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| 1.1.1 T richloroethane | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| 1.1.1.2 T etrachloroethane | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| 1.1.2 T richloroethane | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| 1.1.2.2 T etrachloroethane | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| 1.2 Dibromoethane | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| 1.2 Dichloroben ene | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| 1.2 Dichloroethane | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| 1.2 Dichloropropane | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| 1.2. T richloropropane | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| 1.2. T rimethylben ene | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |



| Client Sample ID | | | MW1 | MW2 | MW3 | MW4 | |
|---------------------------------|-------|------|-------------|-------------|-------------|-------------|---------|
| Sample Matrix | | | Water | Water | Water | Water | |
| Eurofins mgt Sample No. | | | S1 Au1 | S1 Au1 | S1 | Au20000 S1 | Au20001 |
| Date Sampled | | | Aug 1 , 201 | |
| Test Reference | LOR | nit | | | | | |
| Volatile Organics | | | | | | | |
| 1. Dichlorobenzene | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| 1. Dichloropropane | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| 1. 1,4-Dimethylbenzene | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| 1. Dichlorobenzene | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| 2 Butanone MEK | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| 2 Propanone Acetone | 0.001 | mg L | 0.005 | 0.001 | 0.001 | 0.001 | 0.001 |
| Chlorotoluene | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Methyl 2-pentanone MIBK | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Allyl chloride | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Benzene | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Bromobenzene | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Bromochloromethane | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Bromodichloromethane | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Bromoform | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Bromomethane | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Carbon disulfide | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Carbon tetrachloride | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Chlorobenzene | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Chloroethane | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Chloroform | 0.005 | mg L | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 |
| Chloromethane | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| cis-1,2-Dichloroethene | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| cis-1,4-Dichloropropene | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Dibromochloromethane | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Dibromomethane | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Dichlorodifluoromethane | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Ethylbenzene | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Iodomethane | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Isopropylbenzene Cumene | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| m,p-Xylenes | 0.002 | mg L | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 |
| Methylene Chloride | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| o-Xylene | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Styrene | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Tetrachloroethene | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Toluene | 0.001 | mg L | 0.002 | 0.001 | 0.001 | 0.001 | 0.001 |
| trans-1,2-Dichloroethene | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| trans-1,4-Dichloropropene | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Trichloroethene | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Trichlorofluoromethane | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Vinyl chloride | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Xylenes Total | 0.00 | mg L | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total MAH | 0.00 | mg L | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Vic EPA IWRG 21 CHC Total | 0.005 | mg L | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 |
| Vic EPA IWRG 21 Other CHC Total | 0.005 | mg L | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 |
| Bromofluorobenzene surr. | 1 | | 10 | 121 | 11 | 118 | |
| Toluene d8 surr. | 1 | | | 105 | 102 | 102 | |



| Client Sample ID | | | MW1 | MW2 | MW3 | MW4 | |
|---|--------|------|-------------|-------------|-------------|-------------|-------------|
| Sample Matrix | | | Water | Water | Water | Water | |
| Eurofins mgt Sample No. | | | S1 Au1 | S1 Au1 | S1 Au1 | S1 Au20000 | S1 Au20001 |
| Date Sampled | | | Aug 1 , 201 |
| Test Reference | LO R | nit | | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | | | | |
| Acenaphthene | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Acenaphthylene | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Anthracene | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Ben a anthracene | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Ben o a pyrene | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Ben o b fluoranthene | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Ben o g,h,i perylene | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Ben o k fluoranthene | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Chrysene | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Diben a,h anthracene | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Fluoranthene | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Fluorene | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Indeno 1,2, cd pyrene | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Naphthalene | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Phenanthrene | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Pyrene | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| T otal PAH | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| 2 Fluorobiphenyl surr. | 1 | | 5 | 1 | 55 | 55 | |
| p Terphenyl d1 surr. | 1 | | | | 8 | 0 | |
| Organochlorine Pesticides | | | | | | | |
| Chlordanes T otal | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| . DDD | 0.0001 | mg L | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 |
| . DDE | 0.0001 | mg L | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 |
| . DDT | 0.0001 | mg L | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 |
| a BHC | 0.0001 | mg L | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 |
| Aldrin | 0.0001 | mg L | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 |
| b BHC | 0.0001 | mg L | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 |
| d BHC | 0.0001 | mg L | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 |
| Dieldrin | 0.0001 | mg L | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 |
| Endosulfan I | 0.0001 | mg L | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 |
| Endosulfan II | 0.0001 | mg L | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 |
| Endosulfan sulphate | 0.0001 | mg L | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 |
| Endrin | 0.0001 | mg L | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 |
| Endrin aldehyde | 0.0001 | mg L | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 |
| Endrin ketone | 0.0001 | mg L | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 |
| g BHC Lindane | 0.0001 | mg L | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 |
| Heptachlor | 0.0001 | mg L | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 |
| Heptachlor epoxide | 0.0001 | mg L | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 |
| Hexachlorobene | 0.0001 | mg L | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 |
| Methoxychlor | 0.0001 | mg L | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 |
| Toxaphene | 0.01 | mg L | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Aldrin and Dieldrin T otal | 0.0001 | mg L | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 |
| DDT DDE DDD T otal | 0.0001 | mg L | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 |
| V ic EPA IWRG 21 OCP T otal | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| V ic EPA IWRG 21 O ther OCP T otal | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Dibutylchloroendate surr. | 1 | | 51 | 5 | 5 | 5 | |
| Tetrachloro m xylene surr. | 1 | | 58 | | | | 5 |



| Client Sample ID | | | MW1 | MW2 | MW3 | MW4 | |
|------------------------------------|-------|------|-------------|-------------|-------------|-------------|-------------|
| Sample Matrix | | | Water | Water | Water | Water | |
| Eurofins mgt Sample No. | | | S1 Au1 | S1 Au1 | S1 Au1 | S1 Au20000 | S1 Au20001 |
| Date Sampled | | | Aug 1 , 201 |
| Test Reference | LOR | nit | | | | | |
| Organophosphorus Pesticides | | | | | | | |
| A inphos methyl | 0.002 | mg L | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 |
| Bolstar | 0.002 | mg L | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 |
| Chlorfenvinphos | 0.002 | mg L | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 |
| Chlorpyrifos | 0.02 | mg L | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Chlorpyrifos methyl | 0.002 | mg L | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 |
| Coumaphos | 0.02 | mg L | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Demeton S | 0.02 | mg L | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Demeton O | 0.002 | mg L | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 |
| Dia inon | 0.002 | mg L | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 |
| Dichlorvos | 0.002 | mg L | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 |
| Dimethoate | 0.002 | mg L | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 |
| Disulfoton | 0.002 | mg L | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 |
| EPN | 0.002 | mg L | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 |
| Ethion | 0.002 | mg L | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 |
| Ethoprop | 0.002 | mg L | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 |
| Ethyl parathion | 0.002 | mg L | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 |
| Fenitrothion | 0.002 | mg L | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 |
| Fensulfothion | 0.002 | mg L | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 |
| Fenthion | 0.002 | mg L | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 |
| Malathion | 0.002 | mg L | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 |
| Merphos | 0.002 | mg L | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 |
| Methyl parathion | 0.002 | mg L | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 |
| Mevinphos | 0.002 | mg L | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 |
| Monocrotophos | 0.002 | mg L | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 |
| Naled | 0.002 | mg L | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 |
| O methoate | 0.002 | mg L | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 |
| Phorate | 0.002 | mg L | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 |
| Pirimiphos methyl | 0.02 | mg L | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 |
| Pyra ophos | 0.002 | mg L | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 |
| Ronnel | 0.002 | mg L | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 |
| T erbufos | 0.002 | mg L | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 |
| T etrachlorvinphos | 0.002 | mg L | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 |
| T okuthion | 0.002 | mg L | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 |
| T richloronate | 0.002 | mg L | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 |
| T riphenylphosphate surr. | 1 | | | 81 | | | 8 |
| Polychlorinated B iphenyls | | | | | | | |
| Aroclor 101 | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Aroclor 1221 | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Aroclor 12 2 | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Aroclor 12 2 | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Aroclor 12 8 | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Aroclor 125 | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Aroclor 12 0 | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| T otal PCB | 0.001 | mg L | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Dibutylchloroendate surr. | 1 | | 51 | 5 | 5 | | 5 |
| T etrachloro m xylene surr. | 1 | | 58 | | | | 5 |



| Client Sample ID | | | MW1 | MW2 | MW3 | MW4 | |
|--|------|------|-------------|-------------|-------------|-------------|------------|
| Sample Matrix | | | Water | Water | Water | Water | |
| Eurofins mgt Sample No. | | | S1 Au1 | S1 Au1 | S1 Au1 | S1 Au20000 | S1 Au20001 |
| Date Sampled | | | Aug 1 , 201 | |
| Test Reference | LO R | nit | | | | | |
| Phenols (Halogenated) | | | | | | | |
| 2 Chlorophenol | 0.00 | mg L | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,4 Dichlorophenol | 0.00 | mg L | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,5 Trichlorophenol | 0.01 | mg L | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 2,6 Trichlorophenol | 0.01 | mg L | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 2,4,6 Trichlorophenol | 0.00 | mg L | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Chloro methylphenol | 0.01 | mg L | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Pentachlorophenol | 0.01 | mg L | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Tetrachlorophenols Total | 0.0 | mg L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Halogenated Phenol | 0.01 | mg L | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Phenols (non Halogenated) | | | | | | | |
| 2 Cyclohexyl dinitrophenol | 0.1 | mg L | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 2 Methyl dinitrophenol | 0.0 | mg L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 2 Methylphenol o Cresol | 0.00 | mg L | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2 Nitrophenol | 0.01 | mg L | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 2,4 Dimethylphenol | 0.00 | mg L | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,6 Dinitrophenol | 0.0 | mg L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Methylphenol m p Cresol | 0.00 | mg L | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Nitrophenol | 0.0 | mg L | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Dinoseb | 0.1 | mg L | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Phenol | 0.00 | mg L | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total Non Halogenated Phenol | 0.1 | mg L | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Phenol d surr. | 1 | | 0 | | 0 | 8 | |
| Perfluoroalkyl carboxylic acids (PFCAs) | | | | | | | |
| Perfluorobutanoic acid PFBA | 0.05 | ug L | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 |
| Perfluoropentanoic acid PFPeA | 0.01 | ug L | 0.01 | ND 0.01 | ND 0.02 | 0.01 | 0.01 |
| Perfluorohexanoic acid PFHxA | 0.01 | ug L | 0.01 | ND 0.01 | ND 0.02 | 0.01 | 0.01 |
| Perfluoroheptanoic acid PFHpA | 0.01 | ug L | 0.01 | ND 0.01 | ND 0.01 | 0.01 | 0.01 |
| Perfluorooctanoic acid PFoA | 0.01 | ug L | 0.01 | ND 0.01 | ND 0.01 | 0.01 | 0.01 |
| Perfluorononanoic acid PFNA | 0.01 | ug L | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Perfluorodecanoic acid PFDA | 0.01 | ug L | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Perfluoroundecanoic acid PFnDA | 0.01 | ug L | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Perfluorododecanoic acid PFDoDA | 0.01 | ug L | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Perfluorotridecanoic acid PFTeDA | 0.01 | ug L | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Perfluorotetradecanoic acid PFTeDA | 0.01 | ug L | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 1 C PFBA surr. | 1 | | 1 | 8 | 1 | | |
| 1 C5 PFPeA surr. | 1 | | | 2 | 5 | | 2 |
| 1 C5 PFHxA surr. | 1 | | 8 | 81 | | | 8 |
| 1 C PFHpA surr. | 1 | | 81 | 82 | | | 80 |
| 1 C8 PFOA surr. | 1 | | 8 | 88 | 82 | | 88 |
| 1 C5 PFNA surr. | 1 | | 0 | 0 | 82 | | |
| 1 C PFDA surr. | 1 | | | 108 | | | 10 |
| 1 C2 PFnDA surr. | 1 | | 2 | | 0 | | |
| 1 C2 PFDoDA surr. | 1 | | 2 | | 50 | | 2 |
| 1 C2 PFTeDA surr. | 1 | | 2 | | 5 | | 1 |



| Client Sample ID | | | MW1 Water | MW2 Water | MW3 Water | MW4 Water | |
|---|--------|------|--------------|--------------|--------------|--------------|------------|
| Sample Matrix | | | S1 Au1 | S1 Au1 | S1 | Au20000 | S1 Au20001 |
| Eurofins mgt Sample No. | | | Aug 1 , 201 | |
| Date Sampled | | | | | | | |
| Test Reference | LOR | nit | | | | | |
| Perfluoroalkyl sulfonamido substances | | | | | | | |
| Perfluorooctane sulfonamide FO ⁸ SA | 0.05 | ug L | 0.05 | 0.05 | 0.05 | | 0.05 |
| N methylperfluoro 1 octane sulfonamide N MeFO SA ^{M11} | 0.05 | ug L | 0.05 | 0.05 | 0.05 | | 0.05 |
| N ethylperfluoro 1 octane sulfonamide N EtFO SA ^{M11} | 0.05 | ug L | 0.05 | 0.05 | 0.05 | | 0.05 |
| 2 N methylperfluoro 1 octane sulfonamido ethanol EtFO SE ^{M11} | 0.05 | ug L | 0.05 | 0.05 | 0.05 | | 0.05 |
| 2 N ethylperfluoro 1 octane sulfonamido ethanol EtFO SE ^{M11} | 0.05 | ug L | 0.05 | 0.05 | 0.05 | | 0.05 |
| N ethyl perfluorooctanesulfonamidoacetic acid EtFO SAA ^{M11} | 0.05 | ug L | 0.05 | 0.05 | 0.05 | | 0.05 |
| N methyl perfluorooctanesulfonamidoacetic acid MeFO SAA ^{M11} | 0.05 | ug L | 0.05 | 0.05 | 0.05 | | 0.05 |
| 1 C8 FO SA surr. | 1 | | | 5 | 5 | | |
| D N MeFO SA surr. | 1 | | | | | | |
| D5 N EtFO SA surr. | 1 | | | 5 | 1 | | |
| D N MeFO SE surr. | 1 | | 2 | | 1 | | 1 |
| D N EtFO SE surr. | 1 | | 1 | 5 | | | 5 |
| D5 N EtFO SAA surr. | 1 | | | 5 | | | |
| D N MeFO SAA surr. | 1 | | 2 | | | | 1 |
| Perfluoroalkyl sulfonic acids (PFASs) | | | | | | | |
| Perfluorobutanesulfonic acid PFBS | 0.01 | ug L | 0.01 | 0.01 | 0.01 | | 0.01 |
| Perfluoropentanesulfonic acid PFPBS | 0.01 | ug L | 0.01 | 0.01 | 0.01 | | 0.01 |
| Perfluorohexanesulfonic acid PFHxS | 0.01 | ug L | NO 0.01 | NO 0.02 | NO 0.0 | | NO 0.01 |
| Perfluoroheptanesulfonic acid PFHpS | 0.01 | ug L | 0.01 | 0.01 | 0.01 | | 0.01 |
| Perfluorooctanesulfonic acid PFO ⁸ S | 0.01 | ug L | 0.01 | NO 0.0 | 0.01 | | NO 0.02 |
| Perfluorodecanesulfonic acid PFDS | 0.01 | ug L | 0.01 | 0.01 | 0.01 | | 0.01 |
| 1 C PFBS surr. | 1 | | 10 | 10 | 10 | | 10 |
| 18O 2 PFHxS surr. | 1 | | 10 | 105 | 10 | | 10 |
| 1 C8 PFO S surr. | 1 | | | | | | |
| n:2 Fluorotelomer sulfonic acids (n:2 FTSA ^s) | | | | | | | |
| 1H,1H,2H,2H perfluorohexanesulfonic acid :2 FT SA ^{M11} | 0.01 | ug L | 0.01 | 0.01 | 0.01 | | 0.01 |
| 1H,1H,2H,2H perfluorooctanesulfonic acid :2 FT SA ^{M11} | 0.05 | ug L | 0.05 | 0.05 | 0.05 | | 0.05 |
| 1H,1H,2H,2H perfluorodecanesulfonic acid 8:2 FT SA ^{M11} | 0.01 | ug L | 0.01 | 0.01 | 0.01 | | 0.01 |
| 1H,1H,2H,2H perfluorododecanesulfonic acid 10:2 FT SA ^{M15} | 0.01 | ug L | 0.01 | 0.01 | 0.01 | | 0.01 |
| 1 C2 :2 FT SA surr. | 1 | | 2 | 0 | 0 | | |
| 1 C2 :2 FT SA surr. | 1 | | 5 | 5 | 1 | | 5 |
| 1 C2 8:2 FT SA surr. | 1 | | 5 | | | | 5 |
| PFASs Summations | | | | | | | |
| Sum PFHxS PFO S | 0.01 | ug L | 0.01 | 0.05 | 0.0 | | 0.0 |
| Sum of S EPA PFAS PFO S PFO A | 0.01 | ug L | 0.01 | 0.0 | 0.01 | | 0.02 |
| Sum of enHealth PFAS PFHxS PFO S PFO A | 0.01 | ug L | 0.01 | 0.0 | 0.0 | | 0.0 |
| Sum of WA DWER PFAS n 10 | 0.05 | ug L | 0.05 | 0.08 | 0.0 | | 0.05 |
| Sum of PFASs n 28 | 0.1 | ug L | 0.1 | 0.1 | 0.1 | | 0.1 |
| Heavy Metals | | | | | | | |
| Arsenic filtered | 0.001 | mg L | 0.001 | 0.01 | 0.00 | | 0.001 |
| 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 | 0.1 | 0.10 | 0.0 | | 0.05 |



| | | | | | | | |
|-------------------------|--------|------|-------------|-------------|-------------|-------------|------------|
| Client Sample ID | | | MW1 | MW2 | MW3 | MW4 | |
| Sample Matrix | | | Water | Water | Water | Water | |
| Eurofins mgt Sample No. | | | S1 Au1 | S1 Au1 | S1 | Au20000 | S1 Au20001 |
| Date Sampled | | | Aug 1 , 201 | |
| Test Reference | LOR | nit | | | | | |
| Heavy Metals | | | | | | | |
| Lead filtered | 0.001 | mg L | 0.012 | 0.00 | 0.00 | 0.005 | |
| Mercury filtered | 0.0001 | mg L | 0.0001 | 0.0001 | 0.0001 | 0.0001 | |
| Nickel filtered | 0.001 | mg L | 0.00 | 0.00 | 0.00 | 0.00 | |
| Inc filtered | 0.005 | mg L | 0.18 | 0.21 | 0.1 | 0.05 | |

| | | | | | | |
|---|-------|------|-------------|-------------|-----------------------------|--|
| Client Sample ID | | | QW1 | TRIP B LANK | ¹³²⁰ TRIP SPIK E | |
| Sample Matrix | | | Water | Water | Water | |
| Eurofins mgt Sample No. | | | S1 Au20002 | S1 Au20003 | S1 Au20004 | |
| Date Sampled | | | Aug 1 , 201 | Aug 1 , 201 | Aug 1 , 201 | |
| Test Reference | LOR | nit | | | | |
| Total Recoverable Hydrocarbons 2013 NEPM Fractions | | | | | | |
| Naphthalene ⁸⁵² | 0.01 | mg L | 0.01 | 0.01 | 85 | |
| T RH C C10 | 0.02 | mg L | 0.02 | 0.02 | 5 | |
| T RH C C10 less BT EX ⁹⁰ F1 | 0.02 | mg L | 0.02 | 0.02 | | |
| T RH C10 C1 | 0.05 | mg L | 0.05 | | | |
| T RH C10 C1 less Naphthalene ⁹⁰¹ F2 | 0.05 | mg L | 0.05 | | | |
| T RH C1 C | 0.1 | mg L | 0.1 | | | |
| T RH C C 0 | 0.1 | mg L | 0.1 | | | |
| T RH C10 C 0 total | 0.1 | mg L | 0.1 | | | |
| Total Recoverable Hydrocarbons 1 NEPM Fractions | | | | | | |
| T RH C C | 0.02 | mg L | 0.02 | 0.02 | 1 | |
| T RH C10 C1 | 0.05 | mg L | 0.05 | | | |
| T RH C15 C28 | 0.1 | mg L | 0.1 | | | |
| T RH C2 C | 0.1 | mg L | 0.1 | | | |
| T RH C10 T otal | 0.1 | mg L | 0.1 | | | |
| B TEX | | | | | | |
| Ben ene | 0.001 | mg L | 0.001 | 0.001 | 8 | |
| T oluene | 0.001 | mg L | 0.001 | 0.001 | 85 | |
| Ethylben ene | 0.001 | mg L | 0.001 | 0.001 | 80 | |
| m p X ylenes | 0.002 | mg L | 0.002 | 0.002 | 85 | |
| o X ylene | 0.001 | mg L | 0.001 | 0.001 | 8 | |
| X ylenes T otal | 0.00 | mg L | 0.00 | 0.00 | 8 | |
| Bromofluoroben ene surr. | 1 | | 8 | | | |
| Polycyclic Aromatic Hydrocarbons | | | | | | |
| Acenaphthene | 0.001 | mg L | 0.001 | | | |
| Acenaphthylene | 0.001 | mg L | 0.001 | | | |
| Anthracene | 0.001 | mg L | 0.001 | | | |
| Ben a anthracene | 0.001 | mg L | 0.001 | | | |
| Ben o a pyrene | 0.001 | mg L | 0.001 | | | |
| Ben o b fluoranthene | 0.001 | mg L | 0.001 | | | |
| Ben o g,h,i perylene | 0.001 | mg L | 0.001 | | | |
| Ben o k fluoranthene | 0.001 | mg L | 0.001 | | | |
| Chrysene | 0.001 | mg L | 0.001 | | | |
| Diben a,h anthracene | 0.001 | mg L | 0.001 | | | |
| Fluoranthene | 0.001 | mg L | 0.001 | | | |
| Fluorene | 0.001 | mg L | 0.001 | | | |
| Indeno 1,2, cd pyrene | 0.001 | mg L | 0.001 | | | |
| Naphthalene | 0.001 | mg L | 0.001 | | | |



| Client Sample ID | | | QW1 | TRIP B LANK | R20/ |
|---|--------|------|-------------|-------------|-------------|
| Sample Matrix | | | Water | Water | Water |
| Eurofins mgt Sample No. | | | S1 Au20002 | S1 Au20003 | S1 Au20004 |
| Date Sampled | | | Aug 1 , 201 | Aug 1 , 201 | Aug 1 , 201 |
| Test Reference | LO R | nit | | | |
| Polycyclic Aromatic Hydrocarbons | | | | | |
| Phenanthrene | 0.001 | mg L | 0.001 | | |
| Pyrene | 0.001 | mg L | 0.001 | | |
| Total PAH | 0.001 | mg L | 0.001 | | |
| 2 Fluorobiphenyl surr. | 1 | | 1 | | |
| p Terphenyl d1 surr. | 1 | | 0 | | |
| Phenols (Halogenated) | | | | | |
| 2 Chlorophenol | 0.00 | mg L | 0.00 | | |
| 2,4 Dichlorophenol | 0.00 | mg L | 0.00 | | |
| 2,5 Trichlorophenol | 0.01 | mg L | 0.01 | | |
| 2,6 Trichlorophenol | 0.01 | mg L | 0.01 | | |
| 2,4 Dichlorophenol | 0.00 | mg L | 0.00 | | |
| Chloro methylphenol | 0.01 | mg L | 0.01 | | |
| Pentachlorophenol | 0.01 | mg L | 0.01 | | |
| Tetrachlorophenols Total | 0.0 | mg L | 0.0 | | |
| Total Halogenated Phenol | 0.01 | mg L | 0.01 | | |
| Phenols (non Halogenated) | | | | | |
| 2 Cyclohexyl dinitrophenol | 0.1 | mg L | 0.1 | | |
| 2 Methyl dinitrophenol | 0.0 | mg L | 0.0 | | |
| 2 Methylphenol o Cresol | 0.00 | mg L | 0.00 | | |
| 2 Nitrophenol | 0.01 | mg L | 0.01 | | |
| 2,4 Dimethylphenol | 0.00 | mg L | 0.00 | | |
| 2,6 Dinitrophenol | 0.0 | mg L | 0.0 | | |
| Methylphenol m p Cresol | 0.00 | mg L | 0.00 | | |
| Nitrophenol | 0.0 | mg L | 0.0 | | |
| Dinoseb | 0.1 | mg L | 0.1 | | |
| Phenol | 0.00 | mg L | 0.00 | | |
| Total Non Halogenated Phenol | 0.1 | mg L | 0.1 | | |
| Phenol d surr. | 1 | | | | |
| Heavy Metals | | | | | |
| Arsenic filtered | 0.001 | mg L | 0.01 | | |
| Cadmium filtered | 0.0002 | mg L | 0.0002 | | |
| Chromium filtered | 0.001 | mg L | 0.001 | | |
| Copper filtered | 0.001 | mg L | 0.05 | | |
| Lead filtered | 0.001 | mg L | 0.00 | | |
| Mercury filtered | 0.0001 | mg L | 0.0001 | | |
| Nickel filtered | 0.001 | mg L | 0.005 | | |
| inc filtered | 0.005 | mg L | 0.1 | | |



Sample History

Where samples are submitted analysed over several days the last date of extraction and analysis is reported.
 A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this some of the method reference information on reports has changed. However no substantive change has been made to our laboratory methods and as such there is no change in the validity of current or previous results regarding both quality and NAT A accreditation.
 If the date and time of sampling are not provided the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

| Description | Testing Site | Extracted | Holding Time |
|--|--------------|-------------|--------------|
| Total Recoverable Hydrocarbons 201 NEPM Fractions Method: T R H C C 0 L T M O R G 2010 | Melbourne | Aug 1 2018 | Day |
| Total Recoverable Hydrocarbons Method: T R H C C 0 L T M O R G 2010 | Melbourne | Aug 1 2018 | Day |
| Total Recoverable Hydrocarbons 1 NEPM Fractions Method: L T M O R G 2010 T R H C C | Melbourne | Aug 21 2018 | Day |
| BT EX Method: T R H C C 0 L T M O R G 2010 | Melbourne | Aug 1 2018 | 1 Day |
| Eurofins mgt Suite B A filtered metals | | | |
| Total Recoverable Hydrocarbons 201 NEPM Fractions Method: T R H C C 0 L T M O R G 2010 | Melbourne | Aug 21 2018 | Day |
| Polycyclic Aromatic Hydrocarbons Method: L T M O R G 21 0 PAH and Phenols in Soil and Water | Melbourne | Aug 21 2018 | Day |
| Phenols Halogenated Method: L T M O R G 21 0 PAH and Phenols in Soil and Water | Melbourne | Aug 21 2018 | Days |
| Phenols non Halogenated Method: L T M O R G 21 0 PAH and Phenols in Soil and Water | Melbourne | Aug 21 2018 | Day |
| Metals M8 filtered Method: L T M M E T 0 0 Metals in Waters Soils Sediments by ICP M S | Melbourne | Aug 1 2018 | 28 Day |
| Volatile Organics Method: L T M O R G 2150 V O C s in Soils Liquid and other Aqueous Matrices | Melbourne | Aug 1 2018 | Days |
| Eurofins mgt Suite B15 | | | |
| Organochlorine Pesticides Method: L T M O R G 2220 O C P PCB in Soil and Water | Melbourne | Aug 21 2018 | Day |
| Organophosphorus Pesticides Method: L T M O R G 2200 O rganophosphorus Pesticides by G C M S | Melbourne | Aug 21 2018 | Day |
| Polychlorinated Biphenyls Method: L T M O R G 2220 O C P PCB in Soil and Water | Melbourne | Aug 21 2018 | Days |
| Per and Polyfluoroalkyl Substances PFASs | | | |
| Perfluoroalkyl carboxylic acids PFCAs Method: L T M O R G 2100 Per and Polyfluoroalkyl Substances PFAS | Brisbane | Aug 20 2018 | 1 Day |
| Perfluoroalkyl sulfonamido substances Method: L T M O R G 2100 Per and Polyfluoroalkyl Substances PFAS | Brisbane | Aug 20 2018 | 1 Day |
| Perfluoroalkyl sulfonic acids PFSA Method: L T M O R G 2100 Per and Polyfluoroalkyl Substances PFAS | Brisbane | Aug 20 2018 | 1 Day |
| n:2 Fluorotelomer sulfonic acids n:2 FT SAs Method: L T M O R G 2100 Per and Polyfluoroalkyl Substances PFAS | Brisbane | Aug 20 2018 | 1 Day |



Internal Quality Control Review and Glossary

General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
- All soil results are reported on a dry basis unless otherwise stated.
 - All biota/food results are reported on a wet weight basis on the edible portion unless otherwise stated.
 - Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
 - SVOC analysis on waters are performed on homogenised unfiltered samples unless noted otherwise.
 - Samples were analysed on an as received basis.
- This report replaces any interim results previously issued.

Holding Times

Please refer to Sample Preservation and Container Guide for holding times Q S 001 .
 For samples received on the last day of holding time notification of testing requirements should have been received at least 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 days however for all other VOCs such as BT, EX or C-10 TRH then the holding time is 1 days.
 NOTPH 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. |
| LCR | 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 deionised water. |
| 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 | Quality Systems Manual ver 5.1 US Department of Defense |
| 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 0 however the following acceptance guidelines are equally applicable:
 Results 10 times the LO R: No Limit
 Results between 10 20 times the LO R: RPD must lie between 0 50
 Results 20 times the LO R: RPD must lie between 0 0
 Surrogate Recoveries: Recoveries must lie between 50 150 Phenols PFASs
 PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in Q SM 5.1 where no positive PFAS results have been reported have been reviewed and no data was affected.
 WADWER n 10 : PFBA PFPeA PFHxA PFHpA PFOA PFBS PFHxS PFO S :2 FT SA 8:2 FT SA

QC Data General Comments

- Where a result is reported as a less than higher than the nominated LO R 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.
- Duplicate data shown within this report that states the word "BAT CH" 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.
 - Organochlorine Pesticide analysis where reporting LCS data Toxaphene Chlordane are not added to the LCS.
 - Organochlorine Pesticide analysis where reporting Spike data Toxaphene is not added to the Spike.
- Total Recoverable Hydrocarbons where reporting Spike LCS data a single spike of commercial Hydrocarbon products in the range of C12 C 0 is added and it's Total Recovery is reported in the C10 C1 cell of the Report.
 - pH and Free Chlorine analysed in the laboratory Analysis on this test must begin within 0 minutes of sampling. Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
 - Recovery Data Spikes Surrogates where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
- Polychlorinated Biphenyls are spiked only using Aroclor 12 0 in Matrix Spikes and LCS.
 - For Matrix Spikes and LCS results a dash " " in the report means that the specific analyte was not added to the QC sample.
- 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 B blank | | | | | |
| Total Recoverable Hydrocarbons 2013 NEPM Fractions | | | | | |
| Naphthalene | mg L | 0.01 | 0.01 | Pass | |
| Naphthalene | mg L | 0.01 | 0.01 | Pass | |
| T RH C C10 | mg L | 0.02 | 0.02 | Pass | |
| T RH C10 C1 | mg L | 0.05 | 0.05 | Pass | |
| T RH C1 C | mg L | 0.1 | 0.1 | Pass | |
| T RH C C 0 | mg L | 0.1 | 0.1 | Pass | |
| Method B blank | | | | | |
| Total Recoverable Hydrocarbons 1 NEPM Fractions | | | | | |
| T RH C C | mg L | 0.02 | 0.02 | Pass | |
| T RH C10 C1 | mg L | 0.05 | 0.05 | Pass | |
| T RH C15 C28 | mg L | 0.1 | 0.1 | Pass | |
| T RH C2 C | mg L | 0.1 | 0.1 | Pass | |
| Method B blank | | | | | |
| B TEX | | | | | |
| Ben ene | mg L | 0.001 | 0.001 | Pass | |
| Toluene | mg L | 0.001 | 0.001 | Pass | |
| Ethylben ene | 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 | 0.00 | 0.00 | Pass | |
| Method B 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 Dichlorobene | 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 Trichloropropane | mg L | 0.001 | 0.001 | Pass | |
| 1.2 Trimethylbenene | mg L | 0.001 | 0.001 | Pass | |
| 1. Dichlorobene | mg L | 0.001 | 0.001 | Pass | |
| 1. Dichloropropane | mg L | 0.001 | 0.001 | Pass | |
| 1.5 Trimethylbenene | mg L | 0.001 | 0.001 | Pass | |
| 1. Dichlorobene | 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 | |
| Chlorotoluene | mg L | 0.001 | 0.001 | Pass | |
| Methyl 2-pentanone MIBK | mg L | 0.001 | 0.001 | Pass | |
| Allyl chloride | mg L | 0.001 | 0.001 | Pass | |
| Benene | mg L | 0.001 | 0.001 | Pass | |
| Bromobene | 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 | |



| Test | Units | Result 1 | Acceptance Limits | Pass Limits | Qualifying Code |
|----------------------------------|-------|----------|-------------------|-------------|-----------------|
| Carbon Tetrachloride | mg L | 0.001 | 0.001 | Pass | |
| Chlorobenzene | mg L | 0.001 | 0.001 | Pass | |
| 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 | |
| Ethylbenzene | mg L | 0.001 | 0.001 | Pass | |
| Iodomethane | mg L | 0.001 | 0.001 | Pass | |
| Isopropylbenzene Cumene | mg L | 0.001 | 0.001 | Pass | |
| m,p Xylenes | mg L | 0.002 | 0.002 | Pass | |
| Methylene Chloride | mg L | 0.001 | 0.001 | Pass | |
| o-Xylene | mg L | 0.001 | 0.001 | Pass | |
| Styrene | mg L | 0.001 | 0.001 | Pass | |
| Tetrachloroethene | mg L | 0.001 | 0.001 | Pass | |
| Toluene | 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 | |
| Xylenes Total | mg L | 0.00 | 0.00 | Pass | |
| Method B blank | | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | | |
| Acenaphthene | mg L | 0.001 | 0.001 | Pass | |
| Acenaphthylene | mg L | 0.001 | 0.001 | Pass | |
| Anthracene | mg L | 0.001 | 0.001 | Pass | |
| Benzo[a]anthracene | mg L | 0.001 | 0.001 | Pass | |
| Benzo[a]pyrene | mg L | 0.001 | 0.001 | Pass | |
| Benzo[b]fluoranthene | mg L | 0.001 | 0.001 | Pass | |
| Benzo[g,h,i]perylene | mg L | 0.001 | 0.001 | Pass | |
| Benzo[k]fluoranthene | mg L | 0.001 | 0.001 | Pass | |
| Chrysene | mg L | 0.001 | 0.001 | Pass | |
| Dibenzo[a,h]anthracene | mg L | 0.001 | 0.001 | Pass | |
| Fluoranthene | mg L | 0.001 | 0.001 | Pass | |
| Fluorene | mg L | 0.001 | 0.001 | Pass | |
| Indeno[1,2,3-cd]pyrene | mg L | 0.001 | 0.001 | Pass | |
| Naphthalene | mg L | 0.001 | 0.001 | Pass | |
| Phenanthrene | mg L | 0.001 | 0.001 | Pass | |
| Pyrene | mg L | 0.001 | 0.001 | Pass | |
| Method B blank | | | | | |
| Organochlorine Pesticides | | | | | |
| Chlordane Total | mg L | 0.001 | 0.001 | Pass | |
| . DDD | mg L | 0.0001 | 0.0001 | Pass | |
| . DDE | mg L | 0.0001 | 0.0001 | Pass | |
| . DDT | mg L | 0.0001 | 0.0001 | Pass | |
| a BHC | mg L | 0.0001 | 0.0001 | Pass | |
| Aldrin | mg L | 0.0001 | 0.0001 | Pass | |
| b BHC | mg L | 0.0001 | 0.0001 | Pass | |
| d BHC | mg L | 0.0001 | 0.0001 | Pass | |
| Dieldrin | mg L | 0.0001 | 0.0001 | Pass | |



| Test | Units | Result 1 | Acceptance Limits | Pass Limits | Qualifying Code |
|-----------------------------|-------|----------|-------------------|-------------|-----------------|
| Endosulfan I | mg L | 0.0001 | 0.0001 | Pass | |
| Endosulfan II | mg L | 0.0001 | 0.0001 | Pass | |
| Endosulfan sulphate | mg L | 0.0001 | 0.0001 | Pass | |
| Endrin | mg L | 0.0001 | 0.0001 | Pass | |
| Endrin aldehyde | mg L | 0.0001 | 0.0001 | Pass | |
| Endrin ketone | mg L | 0.0001 | 0.0001 | Pass | |
| g BHC Lindane | mg L | 0.0001 | 0.0001 | Pass | |
| Heptachlor | mg L | 0.0001 | 0.0001 | Pass | |
| Heptachlor epoxide | mg L | 0.0001 | 0.0001 | Pass | |
| Hexachlorobenzene | mg L | 0.0001 | 0.0001 | Pass | |
| Methoxychlor | mg L | 0.0001 | 0.0001 | Pass | |
| Toxaphene | mg L | 0.01 | 0.01 | Pass | |
| Method B blank | | | | | |
| Organophosphorus Pesticides | | | | | |
| Azinphos methyl | mg L | 0.002 | 0.002 | Pass | |
| Bolstar | mg L | 0.002 | 0.002 | Pass | |
| Chlorfenvinphos | mg L | 0.002 | 0.002 | Pass | |
| Chlorpyrifos | mg L | 0.02 | 0.02 | Pass | |
| Chlorpyrifos methyl | mg L | 0.002 | 0.002 | Pass | |
| Coumaphos | mg L | 0.02 | 0.02 | Pass | |
| Demeton S | mg L | 0.02 | 0.02 | Pass | |
| Demeton O | mg L | 0.002 | 0.002 | Pass | |
| Diazinon | mg L | 0.002 | 0.002 | Pass | |
| Dichlorvos | mg L | 0.002 | 0.002 | Pass | |
| Dimethoate | mg L | 0.002 | 0.002 | Pass | |
| Disulfoton | mg L | 0.002 | 0.002 | Pass | |
| EPN | mg L | 0.002 | 0.002 | Pass | |
| Ethion | mg L | 0.002 | 0.002 | Pass | |
| Ethoprop | mg L | 0.002 | 0.002 | Pass | |
| Ethyl parathion | mg L | 0.002 | 0.002 | Pass | |
| Fenitrothion | mg L | 0.002 | 0.002 | Pass | |
| Fensulfothion | mg L | 0.002 | 0.002 | Pass | |
| Fenthion | mg L | 0.002 | 0.002 | Pass | |
| Malathion | mg L | 0.002 | 0.002 | Pass | |
| Merphos | mg L | 0.002 | 0.002 | Pass | |
| Methyl parathion | mg L | 0.002 | 0.002 | Pass | |
| Mevinphos | mg L | 0.002 | 0.002 | Pass | |
| Monocrotophos | mg L | 0.002 | 0.002 | Pass | |
| Naled | mg L | 0.002 | 0.002 | Pass | |
| O methoate | mg L | 0.002 | 0.002 | Pass | |
| Phorate | mg L | 0.002 | 0.002 | Pass | |
| Pirimiphos methyl | mg L | 0.02 | 0.02 | Pass | |
| Pyraophos | mg L | 0.002 | 0.002 | Pass | |
| Ronnel | mg L | 0.002 | 0.002 | Pass | |
| Terbufos | mg L | 0.002 | 0.002 | Pass | |
| Tetrachlorvinphos | mg L | 0.002 | 0.002 | Pass | |
| Toxothion | mg L | 0.002 | 0.002 | Pass | |
| Trichloronate | mg L | 0.002 | 0.002 | Pass | |
| Method B blank | | | | | |
| Polychlorinated Biphenyls | | | | | |
| Aroclor 101 | mg L | 0.001 | 0.001 | Pass | |
| Aroclor 1221 | mg L | 0.001 | 0.001 | Pass | |
| Aroclor 1222 | mg L | 0.001 | 0.001 | Pass | |
| Aroclor 1223 | mg L | 0.001 | 0.001 | Pass | |



| Test | Units | Result 1 | Acceptance Limits | Pass Limits | Qualifying Code |
|--|-------|----------|-------------------|-------------|-----------------|
| Aroclor 1248 | mg L | 0.00 | 0.001 | Pass | |
| Aroclor 1254 | mg L | 0.00 | 0.001 | Pass | |
| Aroclor 1260 | mg L | 0.00 | 0.001 | Pass | |
| Total PCB | mg L | 0.00 | 0.001 | Pass | |
| Method B blank | | | | | |
| Phenols (Halogenated) | | | | | |
| 2 Chlorophenol | mg L | 0.00 | 0.00 | Pass | |
| 2,4 Dichlorophenol | mg L | 0.00 | 0.00 | Pass | |
| 2,4,6 Trichlorophenol | mg L | 0.01 | 0.01 | Pass | |
| 2,4,6-Trichlorophenol | mg L | 0.01 | 0.01 | Pass | |
| 2,4-Dichlorophenol | mg L | 0.00 | 0.00 | Pass | |
| Chloro methylphenol | mg L | 0.01 | 0.01 | Pass | |
| Pentachlorophenol | mg L | 0.01 | 0.01 | Pass | |
| Tetrachlorophenols Total | mg L | 0.0 | 0.0 | Pass | |
| Method B blank | | | | | |
| Phenols (non Halogenated) | | | | | |
| 2 Cyclohexyl dinitrophenol | mg L | 0.1 | 0.1 | Pass | |
| 2 Methyl dinitrophenol | mg L | 0.0 | 0.0 | Pass | |
| 2 Methylphenol o Cresol | mg L | 0.00 | 0.00 | Pass | |
| 2 Nitrophenol | mg L | 0.01 | 0.01 | Pass | |
| 2,4 Dimethylphenol | mg L | 0.00 | 0.00 | Pass | |
| 2,4 Dinitrophenol | mg L | 0.0 | 0.0 | Pass | |
| Methylphenol m p Cresol | mg L | 0.00 | 0.00 | Pass | |
| Nitrophenol | mg L | 0.0 | 0.0 | Pass | |
| Dinoseb | mg L | 0.1 | 0.1 | Pass | |
| Phenol | mg L | 0.00 | 0.00 | Pass | |
| Method B blank | | | | | |
| Perfluoroalkyl carboxylic acids (PFCAs) | | | | | |
| Perfluorobutanoic acid PFBA | ug L | 0.05 | 0.05 | Pass | |
| Perfluoropentanoic acid PFPeA | ug L | 0.01 | 0.01 | Pass | |
| Perfluorohexanoic acid PFHxA | ug L | 0.01 | 0.01 | Pass | |
| Perfluoroheptanoic acid PFHpA | ug L | 0.01 | 0.01 | Pass | |
| Perfluorooctanoic acid PFOA | ug L | 0.01 | 0.01 | Pass | |
| Perfluorononanoic acid PFNA | ug L | 0.01 | 0.01 | Pass | |
| Perfluorodecanoic acid PFDA | ug L | 0.01 | 0.01 | Pass | |
| Perfluoroundecanoic acid PFnDA | ug L | 0.01 | 0.01 | Pass | |
| Perfluorododecanoic acid PFDaDA | ug L | 0.01 | 0.01 | Pass | |
| Perfluorotridecanoic acid PFTriDA | ug L | 0.01 | 0.01 | Pass | |
| Perfluorotetradecanoic acid PFTeDA | ug L | 0.01 | 0.01 | Pass | |
| Method B blank | | | | | |
| Perfluoroalkyl sulfonamido substances | | | | | |
| Perfluorooctane sulfonamide FO SA | ug L | 0.05 | 0.05 | Pass | |
| N methylperfluoro 1 octane sulfonamide N MeFO SA | ug L | 0.05 | 0.05 | Pass | |
| N ethylperfluoro 1 octane sulfonamide N EtFO SA | ug L | 0.05 | 0.05 | Pass | |
| 2 N methylperfluoro 1 octane sulfonamido ethanol N MeFO SE | ug L | 0.05 | 0.05 | Pass | |
| 2 N ethylperfluoro 1 octane sulfonamido ethanol N EtFO SE | ug L | 0.05 | 0.05 | Pass | |
| N ethyl perfluorooctanesulfonamidoacetic acid N EtFO SAA | ug L | 0.05 | 0.05 | Pass | |
| N methyl perfluorooctanesulfonamidoacetic acid N MeFO SAA | ug L | 0.05 | 0.05 | Pass | |
| Method B blank | | | | | |
| Perfluoroalkyl sulfonic acids (PFSAs) | | | | | |
| Perfluorobutanesulfonic acid PFBS | ug L | 0.01 | 0.01 | Pass | |
| Perfluoropentanesulfonic acid PFPeS | ug L | 0.01 | 0.01 | Pass | |
| Perfluorohexanesulfonic acid PFHxS | ug L | 0.01 | 0.01 | Pass | |
| Perfluoroheptanesulfonic acid PFHpS | ug L | 0.01 | 0.01 | Pass | |



| Test | Units | Result 1 | Acceptance Limits | Pass Limits | Qualifying Code |
|---|-------|----------|-------------------|-------------|-----------------|
| Perfluorooctanesulfonic acid PFO S | ug L | 0.01 | 0.01 | Pass | |
| Perfluorodecanesulfonic acid PFDS | ug L | 0.01 | 0.01 | Pass | |
| Method B lank | | | | | |
| n:2 Fluorotelomer sulfonic acids (n:2 FTSAs) | | | | | |
| 1H.1H.2H.2H perfluorohexanesulfonic acid :2 FT SA | ug L | 0.01 | 0.01 | Pass | |
| 1H.1H.2H.2H perfluorooctanesulfonic acid :2 FT SA | ug L | 0.05 | 0.05 | Pass | |
| 1H.1H.2H.2H perfluorodecanesulfonic acid 8:2 FT SA | ug L | 0.01 | 0.01 | Pass | |
| 1H.1H.2H.2H perfluorododecanesulfonic acid 10:2 FT SA | ug L | 0.01 | 0.01 | Pass | |
| Method B lank | | | | | |
| 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 | |
| inc filtered | mg L | 0.005 | 0.005 | Pass | |
| LCS Recovery | | | | | |
| Total Recoverable Hydrocarbons 2013 NEPM Fractions | | | | | |
| Naphthalene | | | 0 1 0 | Pass | |
| Naphthalene | | | 0 1 0 | Pass | |
| T RH C C10 | | 122 | 0 1 0 | Pass | |
| T RH C C10 | | 122 | 0 1 0 | Pass | |
| T RH C10 C1 | | 8 | 0 1 0 | Pass | |
| LCS Recovery | | | | | |
| Total Recoverable Hydrocarbons 1 NEPM Fractions | | | | | |
| T RH C C | | 125 | 0 1 0 | Pass | |
| T RH C10 C1 | | 8 | 0 1 0 | Pass | |
| LCS Recovery | | | | | |
| B TEX | | | | | |
| Benzene | | | 0 1 0 | Pass | |
| Toluene | | | 0 1 0 | Pass | |
| Ethylbenzene | | 11 | 0 1 0 | Pass | |
| m p Xylenes | | 111 | 0 1 0 | Pass | |
| Xylenes Total | | 112 | 0 1 0 | Pass | |
| LCS Recovery | | | | | |
| Volatile Organics | | | | | |
| 1.1 Dichloroethene | | 108 | 0 1 0 | Pass | |
| 1.1.1 Trichloroethane | | | 0 1 0 | Pass | |
| 1.2 Dichlorobenzene | | 0 | 0 1 0 | Pass | |
| 1.2 Dichloroethane | | | 0 1 0 | Pass | |
| Trichloroethene | | 0 | 0 1 0 | Pass | |
| LCS Recovery | | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | | |
| Acenaphthene | | 8 | 0 1 0 | Pass | |
| Acenaphthylene | | 8 | 0 1 0 | Pass | |
| Anthracene | | | 0 1 0 | Pass | |
| Benzo[a]anthracene | | 105 | 0 1 0 | Pass | |
| Benzo[a]pyrene | | 5 | 0 1 0 | Pass | |
| Benzo[b]fluoranthene | | 11 | 0 1 0 | Pass | |
| Benzo[g,h,i]perylene | | 112 | 0 1 0 | Pass | |
| Benzo[k]fluoranthene | | 112 | 0 1 0 | Pass | |
| Chrysene | | 10 | 0 1 0 | Pass | |



| Test | Units | Result 1 | Acceptance Limits | Pass Limits | Qualifying Code |
|------------------------------------|-------|----------|-------------------|-------------|-----------------|
| Diben a.h anthracene | | 11 | 0 1 0 | | Pass |
| Fluoranthene | | 100 | 0 1 0 | | Pass |
| Fluorene | | 8 | 0 1 0 | | Pass |
| Indeno 1,2,3-cd pyrene | | 115 | 0 1 0 | | Pass |
| Naphthalene | | 82 | 0 1 0 | | Pass |
| Phenanthrene | | 1 | 0 1 0 | | Pass |
| Pyrene | | 10 | 0 1 0 | | Pass |
| LCS Recovery | | | | | |
| Organochlorine Pesticides | | | | | |
| Chlordanes Total | | 101 | 0 1 0 | | Pass |
| . DDD | | | 0 1 0 | | Pass |
| . DDE | | 10 | 0 1 0 | | Pass |
| . DDT | | | 0 1 0 | | Pass |
| a BHC | | 108 | 0 1 0 | | Pass |
| Aldrin | | 10 | 0 1 0 | | Pass |
| b BHC | | 102 | 0 1 0 | | Pass |
| d BHC | | 8 | 0 1 0 | | Pass |
| Dieldrin | | 110 | 0 1 0 | | Pass |
| Endosulfan I | | 8 | 0 1 0 | | Pass |
| Endosulfan II | | 8 | 0 1 0 | | Pass |
| Endosulfan sulphate | | 8 | 0 1 0 | | Pass |
| Endrin | | | 0 1 0 | | Pass |
| Endrin aldehyde | | 1 | 0 1 0 | | Pass |
| Endrin ketone | | 5 | 0 1 0 | | Pass |
| g BHC Lindane | | 110 | 0 1 0 | | Pass |
| Heptachlor | | 85 | 0 1 0 | | Pass |
| Heptachlor epoxide | | 100 | 0 1 0 | | Pass |
| Hexachlorobenzene | | | 0 1 0 | | Pass |
| Methoxychlor | | 8 | 0 1 0 | | Pass |
| LCS Recovery | | | | | |
| Organophosphorus Pesticides | | | | | |
| Diazinon | | 111 | 0 1 0 | | Pass |
| Dimethoate | | 2 | 0 1 0 | | Pass |
| Ethion | | 10 | 0 1 0 | | Pass |
| Fenitrothion | | | 0 1 0 | | Pass |
| Methyl parathion | | | 0 1 0 | | Pass |
| Mevinphos | | 8 | 0 1 0 | | Pass |
| LCS Recovery | | | | | |
| Phenols (Halogenated) | | | | | |
| 2 Chlorophenol | | 8 | 0 1 0 | | Pass |
| 2,4 Dichlorophenol | | 8 | 0 1 0 | | Pass |
| 2,4,6 Trichlorophenol | | | 0 1 0 | | Pass |
| 2,6 Dichlorophenol | | 0 | 0 1 0 | | Pass |
| 2,4 Dichlorophenol | | 8 | 0 1 0 | | Pass |
| Chloro methylphenol | | 8 | 0 1 0 | | Pass |
| Pentachlorophenol | | | 0 1 0 | | Pass |
| Tetrachlorophenols Total | | | 0 1 0 | | Pass |
| LCS Recovery | | | | | |
| Phenols (non Halogenated) | | | | | |
| 2 Cyclohexyl . dinitrophenol | | | 0 1 0 | | Pass |
| 2 Methyl . dinitrophenol | | 0 | 0 1 0 | | Pass |
| 2 Methylphenol o Cresol | | | 0 1 0 | | Pass |
| 2 Nitrophenol | | 0 | 0 1 0 | | Pass |
| 2,4 Dimethylphenol | | 101 | 0 1 0 | | Pass |



| Test | Units | Result 1 | Acceptance Limits | Pass Limits | Qualifying Code |
|--|-------|----------|-------------------|-------------|-----------------|
| 2. Dinitrophenol | | 2 | 0 1 0 | Pass | |
| Methylphenol m p Cresol | | 5 | 0 1 0 | Pass | |
| Nitrophenol | | 8 | 0 1 0 | Pass | |
| Dinoseb | | 2 | 0 1 0 | Pass | |
| Phenol | | | 0 1 0 | Pass | |
| LCS Recovery | | | | | |
| Perfluoroalkyl carboxylic acids (PFCAs) | | | | | |
| Perfluorobutanoic acid PFBA | | | 50 150 | Pass | |
| Perfluoropentanoic acid PFPeA | | 10 | 50 150 | Pass | |
| Perfluorohexanoic acid PFHxA | | | 50 150 | Pass | |
| Perfluoroheptanoic acid PFHpA | | 5 | 50 150 | Pass | |
| Perfluorooctanoic acid PFOA | | 5 | 50 150 | Pass | |
| Perfluorononanoic acid PFNA | | | 50 150 | Pass | |
| Perfluorodecanoic acid PFDA | | 1 | 50 150 | Pass | |
| Perfluoroundecanoic acid PF nDA | | 5 | 50 150 | Pass | |
| Perfluorododecanoic acid PFDODA | | 0 | 50 150 | Pass | |
| Perfluorotridecanoic acid PFT rDA | | 1 | 50 150 | Pass | |
| Perfluorotetradecanoic acid PFT eDA | | | 50 150 | Pass | |
| LCS Recovery | | | | | |
| Perfluoroalkyl sulfonamide substances | | | | | |
| Perfluorooctane sulfonamide FO SA | | 101 | 50 150 | Pass | |
| N methylperfluoro 1 octane sulfonamide N MeFO SA | | 88 | 50 150 | Pass | |
| N ethylperfluoro 1 octane sulfonamide N EtFO SA | | | 50 150 | Pass | |
| 2 N methylperfluoro 1 octane sulfonamido ethanol N MeFO SE | | 8 | 50 150 | Pass | |
| 2 N ethylperfluoro 1 octane sulfonamido ethano N EtFO SE | | | 50 150 | Pass | 1 |
| N ethyl perfluorooctanesulfonamidoacetic acid N EtFO SAA | | 8 | 50 150 | Pass | |
| N methyl perfluorooctanesulfonamidoacetic acid N MeFO SAA | | 5 | 50 150 | Pass | |
| LCS Recovery | | | | | |
| Perfluoroalkyl sulfonic acids (PFSAs) | | | | | |
| Perfluorobutanesulfonic acid PFBS | | 8 | 50 150 | Pass | |
| Perfluoropentanesulfonic acid PFPeS | | 85 | 50 150 | Pass | |
| Perfluorohexanesulfonic acid PFHxS | | | 50 150 | Pass | |
| Perfluoroheptanesulfonic acid PFHpS | | 0 | 50 150 | Pass | |
| Perfluorooctanesulfonic acid PFO S | | 5 | 50 150 | Pass | |
| Perfluorodecanesulfonic acid PFDS | | | 50 150 | Pass | |
| LCS Recovery | | | | | |
| n:2 Fluorotelomer sulfonic acids (n:2 FTSA) | | | | | |
| 1H.1H.2H.2H perfluorohexanesulfonic acid :2 FT SA | | 5 | 50 150 | Pass | |
| 1H.1H.2H.2H perfluorooctanesulfonic acid :2 FT SA | | | 50 150 | Pass | |
| 1H.1H.2H.2H perfluorodecanesulfonic acid 8:2 FT SA | | 2 | 50 150 | Pass | |
| 1H.1H.2H.2H perfluorododecanesulfonic acid 10:2 FT SA | | 80 | 50 150 | Pass | |
| LCS Recovery | | | | | |
| Heavy Metals | | | | | |
| Arsenic filtered | | 108 | 80 120 | Pass | |
| Cadmium filtered | | | 80 120 | Pass | |
| Chromium filtered | | 100 | 80 120 | Pass | |
| Copper filtered | | 10 | 80 120 | Pass | |
| Lead filtered | | 102 | 80 120 | Pass | |
| Mercury filtered | | 10 | 0 1 0 | Pass | |
| Nickel filtered | | 10 | 80 120 | Pass | |
| inc filtered | | 105 | 80 120 | Pass | |



| Test | Lab Sample ID | QA Source | Units | Result 1 | Acceptance Limits | Pass Limits | Qualifying Code |
|----------------------------------|---------------|-----------|-------|----------|-------------------|-------------|-----------------|
| Spike Recovery | | | | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | Result 1 | | | |
| Acenaphthene | M18 Au1050 | NCP | | 101 | 0 1 0 | | Pass |
| Acenaphthylene | M18 Au1050 | NCP | | 100 | 0 1 0 | | Pass |
| Anthracene | M18 Au1050 | NCP | | 112 | 0 1 0 | | Pass |
| Ben a anthracene | M18 Au1050 | NCP | | 120 | 0 1 0 | | Pass |
| Ben o a pyrene | M18 Au1050 | NCP | | 11 | 0 1 0 | | Pass |
| Ben o b fluoranthene | M18 Au1050 | NCP | | 11 | 0 1 0 | | Pass |
| Ben o g,h,i perylene | M18 Au1050 | NCP | | 10 | 0 1 0 | | Pass |
| Ben o k fluoranthene | M18 Au1050 | NCP | | 120 | 0 1 0 | | Pass |
| Chrysene | M18 Au1050 | NCP | | 120 | 0 1 0 | | Pass |
| Diben a,h anthracene | M18 Au1050 | NCP | | 10 | 0 1 0 | | Pass |
| Fluoranthene | M18 Au1050 | NCP | | 115 | 0 1 0 | | Pass |
| Fluorene | M18 Au1050 | NCP | | 105 | 0 1 0 | | Pass |
| Indeno 1,2, cd pyrene | M18 Au1050 | NCP | | 110 | 0 1 0 | | Pass |
| Naphthalene | M18 Au1050 | NCP | | 0 | 0 1 0 | | Pass |
| Phenanthrene | M18 Au1050 | NCP | | 10 | 0 1 0 | | Pass |
| Pyrene | M18 Au1050 | NCP | | 118 | 0 1 0 | | Pass |
| Spike Recovery | | | | | | | |
| Organochlorine Pesticides | | | | Result 1 | | | |
| Chlordanes Total | M18 Au1 08 | NCP | | 11 | 0 1 0 | | Pass |
| . DDD | M18 Au1 08 | NCP | | 118 | 0 1 0 | | Pass |
| . DDE | M18 Au1 08 | NCP | | 12 | 0 1 0 | | Pass |
| . DDT | M18 Au1 08 | NCP | | 0 | 0 1 0 | | Pass |
| a BHC | M18 Au1 08 | NCP | | 10 | 0 1 0 | | Pass |
| Aldrin | M18 Au1 08 | NCP | | | 0 1 0 | | Pass |
| b BHC | M18 Au1 08 | NCP | | 8 | 0 1 0 | | Pass |
| d BHC | M18 Au1 08 | NCP | | 5 | 0 1 0 | | Pass |
| Dieldrin | M18 Au1 08 | NCP | | 11 | 0 1 0 | | Pass |
| Endosulfan I | M18 Au1 08 | NCP | | 88 | 0 1 0 | | Pass |
| Endosulfan II | M18 Au1 08 | NCP | | 10 | 0 1 0 | | Pass |
| Endosulfan sulphate | M18 Au1 08 | NCP | | 100 | 0 1 0 | | Pass |
| Endrin | M18 Au1 08 | NCP | | 12 | 0 1 0 | | Pass |
| Endrin aldehyde | M18 Au1 08 | NCP | | 8 | 0 1 0 | | Pass |
| Endrin ketone | M18 Au1 08 | NCP | | 10 | 0 1 0 | | Pass |
| g BHC Lindane | M18 Au1 08 | NCP | | 5 | 0 1 0 | | Pass |
| Heptachlor | M18 Au1 08 | NCP | | 105 | 0 1 0 | | Pass |
| Heptachlor epoxide | M18 Au1 08 | NCP | | 120 | 0 1 0 | | Pass |
| Hexachlorobenzene | M18 Au1 08 | NCP | | 10 | 0 1 0 | | Pass |
| Methoxychlor | M18 Au1 08 | NCP | | | 0 1 0 | | Pass |
| Spike Recovery | | | | | | | |
| Organophosphorus Pesticides | | | | Result 1 | | | |
| Diazinon | M18 Au11 1 | NCP | | 10 | 0 1 0 | | Pass |
| Dimethoate | M18 Au11 1 | NCP | | 82 | 0 1 0 | | Pass |
| Ethion | M18 Au11 1 | NCP | | 110 | 0 1 0 | | Pass |
| Fenitrothion | M18 Au11 1 | NCP | | 0 | 0 1 0 | | Pass |
| Methyl parathion | M18 Au11 1 | NCP | | 8 | 0 1 0 | | Pass |
| Mevinphos | M18 Au11 1 | NCP | | 81 | 0 1 0 | | Pass |
| Spike Recovery | | | | | | | |
| Phenols (Halogenated) | | | | Result 1 | | | |
| 2 Chlorophenol | M18 Au1050 | NCP | | 81 | 0 1 0 | | Pass |
| 2,4 Dichlorophenol | M18 Au1050 | NCP | | 8 | 0 1 0 | | Pass |
| 2,4,6 Trichlorophenol | M18 Au1050 | NCP | | | 0 1 0 | | Pass |
| 2,4,6 Trichlorophenol | M18 Au1050 | NCP | | 8 | 0 1 0 | | Pass |



| Test | Lab Sample ID | QA Source | Units | Result 1 | Acceptance Limits | Pass Limits | Qualifying Code |
|--|---------------|-----------|-------|----------|-------------------|-------------|-----------------|
| 2. Dichlorophenol | M18 Au1050 | NCP | | 0 | 0 1 0 | | Pass |
| Chloro methylphenol | M18 Au1050 | NCP | | 5 | 0 1 0 | | Pass |
| Pentachlorophenol | M18 Au1050 | NCP | | 80 | 0 1 0 | | Pass |
| Tetrachlorophenols Total | M18 Au1050 | NCP | | 80 | 0 1 0 | | Pass |
| Spike Recovery | | | | | | | |
| Phenols (non Halogenated) | | | | Result 1 | | | |
| 2 Cyclohexyl dinitrophenol | M18 Au1050 | NCP | | | 0 1 0 | | Pass |
| 2 Methyl dinitrophenol | M18 Au1050 | NCP | | | 0 1 0 | | Pass |
| 2 Methylphenol o Cresol | M18 Au1050 | NCP | | | 0 1 0 | | Pass |
| 2 Nitrophenol | M18 Au1050 | NCP | | 2 | 0 1 0 | | Pass |
| 2. Dimethylphenol | M18 Au1050 | NCP | | 2 | 0 1 0 | | Pass |
| 2. Dinitrophenol | M18 Au1050 | NCP | | 5 | 0 1 0 | | Pass |
| Methylphenol m p Cresol | M18 Au1050 | NCP | | 82 | 0 1 0 | | Pass |
| Nitrophenol | M18 Au1050 | NCP | | | 0 1 0 | | Pass |
| Dinoseb | M18 Au1050 | NCP | | 8 | 0 1 0 | | Pass |
| Phenol | M18 Au1050 | NCP | | 5 | 0 1 0 | | Pass |
| Spike Recovery | | | | | | | |
| Perfluoroalkyl carboxylic acids (PFCAs) | | | | Result 1 | | | |
| Perfluorobutanoic acid PFBA | B18 Au2 | 5 NCP | | 5 | 50 150 | | Pass |
| Perfluoropentanoic acid PFPeA | B18 Au2 | 5 NCP | | 10 | 50 150 | | Pass |
| Perfluorohexanoic acid PFHxA | B18 Au2 | 5 NCP | | | 50 150 | | Pass |
| Perfluoroheptanoic acid PFHpA | B18 Au2 | 5 NCP | | 5 | 50 150 | | Pass |
| Perfluorooctanoic acid PFOA | B18 Au2 | 5 NCP | | 2 | 50 150 | | Pass |
| Perfluorononanoic acid PFNA | B18 Au2 | 5 NCP | | 8 | 50 150 | | Pass |
| Perfluorodecanoic acid PFDA | B18 Au2 | 5 NCP | | 88 | 50 150 | | Pass |
| Perfluoroundecanoic acid PFnDA | B18 Au2 | 5 NCP | | | 50 150 | | Pass |
| Perfluorododecanoic acid PFDoDA | B18 Au2 | 5 NCP | | | 50 150 | | Pass |
| Perfluorotridecanoic acid PFTriDA | B18 Au2 | 5 NCP | | 85 | 50 150 | | Pass |
| Perfluorotetradecanoic acid PFTeDA | B18 Au2 | 5 NCP | | | 50 150 | | Pass |
| Spike Recovery | | | | | | | |
| Perfluoroalkyl sulfonamide substances | | | | Result 1 | | | |
| Perfluorooctane sulfonamide FO SA | B18 Au2 | 5 NCP | | 101 | 50 150 | | Pass |
| N methylperfluoro 1 octane sulfonamide N MeFO SA | B18 Au2 | 5 NCP | | 120 | 50 150 | | Pass |
| N ethylperfluoro 1 octane sulfonamide N EtFO SA | B18 Au2 | 5 NCP | | 1 0 | 50 150 | | Pass |
| 2 N methylperfluoro 1 octane sulfonamido ethanol N MeFO SE | B18 Au2 | 5 NCP | | 11 | 50 150 | | Pass |
| 2 N ethylperfluoro 1 octane sulfonamido ethanol N EtFO SE | B18 Au2 | 5 NCP | | 118 | 50 150 | | Pass |
| N ethyl perfluorooctanesulfonamidoacetic acid N EtFO SAA | B18 Au2 | 5 NCP | | 8 | 50 150 | | Pass |
| N methyl perfluorooctanesulfonamidoacetic acid N MeFO SAA | B18 Au2 | 5 NCP | | 8 | 50 150 | | Pass |
| Spike Recovery | | | | | | | |
| Perfluoroalkyl sulfonic acids (PFSA's) | | | | Result 1 | | | |
| Perfluorobutanesulfonic acid PFBS | B18 Au2 | 5 NCP | | 80 | 50 150 | | Pass |
| Perfluoropentanesulfonic acid PFPeS | B18 Au2 | 5 NCP | | 8 | 50 150 | | Pass |
| Perfluorohexanesulfonic acid PFHxS | B18 Au2 | 5 NCP | | 88 | 50 150 | | Pass |



| Test | Lab Sample ID | QA Source | Units | Result 1 | Acceptance Limits | Pass Limits | Qualifying Code |
|---|---------------|-----------|-------|----------|-------------------|-------------|-----------------|
| Perfluoroheptanesulfonic acid PFHpS | B18 Au2 | 5 NCP | | 8 | 50 150 | Pass | |
| Perfluorooctanesulfonic acid PFO S | B18 Au2 | 5 NCP | | 1 | 50 150 | Pass | |
| Perfluorodecanesulfonic acid PFDS | B18 Au2 | 5 NCP | | 8 | 50 150 | Pass | |
| Spike Recovery | | | | | | | |
| n:2 Fluorotelomer sulfonic acids (n:2 FTSA) | | | | Result 1 | | | |
| 1H,1H,2H,2H perfluorohexanesulfonic acid FT SA | 2 B18 Au2 | 5 NCP | | 1 | 50 150 | Pass | |
| 1H,1H,2H,2H perfluorooctanesulfonic acid FT SA | 2 B18 Au2 | 5 NCP | | | 50 150 | Pass | |
| 1H,1H,2H,2H perfluorodecanesulfonic acid FT SA | 82 B18 Au2 | 5 NCP | | 82 | 50 150 | Pass | |
| 1H,1H,2H,2H perfluorododecanesulfonic acid 10:2 FT SA | B18 Au2 | 5 NCP | | 2 | 50 150 | Pass | |
| Spike Recovery | | | | | | | |
| Heavy Metals | | | | Result 1 | | | |
| Arsenic filtered | M18 Au1820 | NCP | | 10 | 0 1 0 | Pass | |
| Cadmium filtered | M18 Au1820 | NCP | | 8 | 0 1 0 | Pass | |
| Chromium filtered | M18 Au1820 | NCP | | 2 | 0 1 0 | Pass | |
| Copper filtered | M18 Au1820 | NCP | | 88 | 0 1 0 | Pass | |
| Lead filtered | M18 Au1820 | NCP | | 0 | 0 1 0 | Pass | |
| Mercury filtered | M18 Au1820 | NCP | | 102 | 0 1 0 | Pass | |
| Nickel filtered | M18 Au1820 | NCP | | 0 | 0 1 0 | Pass | |
| inc filtered | M18 Au1820 | NCP | | 1 | 0 1 0 | Pass | |
| Spike Recovery | | | | | | | |
| Total Recoverable Hydrocarbons 2013 NEPM Fractions | | | | Result 1 | | | |
| Naphthalene | M18 Au22 00 | NCP | | 5 | 0 1 0 | Pass | |
| T R H C C10 | M18 Au22 00 | NCP | | 12 | 0 1 0 | Pass | |
| Spike Recovery | | | | | | | |
| Total Recoverable Hydrocarbons 1 NEPM Fractions | | | | Result 1 | | | |
| T R H C C | M18 Au22 00 | NCP | | 12 | 0 1 0 | Pass | |
| Spike Recovery | | | | | | | |
| B TEX | | | | Result 1 | | | |
| Ben ene | M18 Au22 00 | NCP | | 111 | 0 1 0 | Pass | |
| T oluene | M18 Au22 00 | NCP | | 112 | 0 1 0 | Pass | |
| Ethylben ene | M18 Au22 00 | NCP | | 111 | 0 1 0 | Pass | |
| m p X ylenes | M18 Au22 00 | NCP | | 10 | 0 1 0 | Pass | |
| o X ylene | M18 Au22 00 | NCP | | 10 | 0 1 0 | Pass | |
| X ylenes T otal | M18 Au22 00 | NCP | | 10 | 0 1 0 | 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 | |
| T R H C10 C1 | M18 Au2002 | NCP | mg L | 1. | 2.2 | 2 | 0 Pass |
| T R H C1 C | M18 Au2002 | NCP | mg L | 0. | 0. | 5.0 | 0 Pass |
| T R H C C 0 | M18 Au2002 | NCP | mg L | 0.1 | 0.1 | 1 | 0 Pass |
| Duplicate | | | | | | | |
| Total Recoverable Hydrocarbons 1 NEPM Fractions | | | | Result 1 | Result 2 | RPD | |
| T R H C10 C1 | M18 Au2002 | NCP | mg L | 2. | 2. | 22 | 0 Pass |
| T R H C15 C28 | M18 Au2002 | NCP | mg L | 0. | 0. | 5.0 | 0 Pass |
| T R H C2 C | M18 Au2002 | NCP | mg L | 0.1 | 0.1 | 1 | 0 Pass |



| Duplicate | | | | Result 1 | Result 2 | RPD | | | | |
|----------------------------------|-----|-----|---|----------|----------|--------|--------|---|---|------|
| Polycyclic Aromatic Hydrocarbons | | | | | | | | | | |
| Acenaphthene | S18 | Au1 | 8 | NCP mg | L | 0.001 | 0.001 | 1 | 0 | Pass |
| Acenaphthylene | S18 | Au1 | 8 | NCP mg | L | 0.001 | 0.001 | 1 | 0 | Pass |
| Anthracene | S18 | Au1 | 8 | NCP mg | L | 0.001 | 0.001 | 1 | 0 | Pass |
| Ben a anthracene | S18 | Au1 | 8 | NCP mg | L | 0.001 | 0.001 | 1 | 0 | Pass |
| Ben o a pyrene | S18 | Au1 | 8 | NCP mg | L | 0.001 | 0.001 | 1 | 0 | Pass |
| Ben o b fluoranthene | S18 | Au1 | 8 | NCP mg | L | 0.001 | 0.001 | 1 | 0 | Pass |
| Ben o g,h,i perylene | S18 | Au1 | 8 | NCP mg | L | 0.001 | 0.001 | 1 | 0 | Pass |
| Ben o k fluoranthene | S18 | Au1 | 8 | NCP mg | L | 0.001 | 0.001 | 1 | 0 | Pass |
| Chrysene | S18 | Au1 | 8 | NCP mg | L | 0.001 | 0.001 | 1 | 0 | Pass |
| Diben a,h anthracene | S18 | Au1 | 8 | NCP mg | L | 0.001 | 0.001 | 1 | 0 | Pass |
| Fluoranthene | S18 | Au1 | 8 | NCP mg | L | 0.001 | 0.001 | 1 | 0 | Pass |
| Fluorene | S18 | Au1 | 8 | NCP mg | L | 0.001 | 0.001 | 1 | 0 | Pass |
| Indeno 1,2, cd pyrene | S18 | Au1 | 8 | NCP mg | L | 0.001 | 0.001 | 1 | 0 | Pass |
| Naphthalene | S18 | Au1 | 8 | NCP mg | L | 0.001 | 0.001 | 1 | 0 | Pass |
| Phenanthrene | S18 | Au1 | 8 | NCP mg | L | 0.001 | 0.001 | 1 | 0 | Pass |
| Pyrene | S18 | Au1 | 8 | NCP mg | L | 0.001 | 0.001 | 1 | 0 | Pass |
| Duplicate | | | | | | | | | | |
| Organochlorine Pesticides | | | | | | | | | | |
| Chlordanes Total | S18 | Au1 | 8 | NCP mg | L | 0.001 | 0.001 | 1 | 0 | Pass |
| . DDD | S18 | Au1 | 8 | NCP mg | L | 0.0001 | 0.0001 | 1 | 0 | Pass |
| . DDE | S18 | Au1 | 8 | NCP mg | L | 0.0001 | 0.0001 | 1 | 0 | Pass |
| . DDT | S18 | Au1 | 8 | NCP mg | L | 0.0001 | 0.0001 | 1 | 0 | Pass |
| a BHC | S18 | Au1 | 8 | NCP mg | L | 0.0001 | 0.0001 | 1 | 0 | Pass |
| Aldrin | S18 | Au1 | 8 | NCP mg | L | 0.0001 | 0.0001 | 1 | 0 | Pass |
| b BHC | S18 | Au1 | 8 | NCP mg | L | 0.0001 | 0.0001 | 1 | 0 | Pass |
| d BHC | S18 | Au1 | 8 | NCP mg | L | 0.0001 | 0.0001 | 1 | 0 | Pass |
| Dieldrin | S18 | Au1 | 8 | NCP mg | L | 0.0001 | 0.0001 | 1 | 0 | Pass |
| Endosulfan I | S18 | Au1 | 8 | NCP mg | L | 0.0001 | 0.0001 | 1 | 0 | Pass |
| Endosulfan II | S18 | Au1 | 8 | NCP mg | L | 0.0001 | 0.0001 | 1 | 0 | Pass |
| Endosulfan sulphate | S18 | Au1 | 8 | NCP mg | L | 0.0001 | 0.0001 | 1 | 0 | Pass |
| Endrin | S18 | Au1 | 8 | NCP mg | L | 0.0001 | 0.0001 | 1 | 0 | Pass |
| Endrin aldehyde | S18 | Au1 | 8 | NCP mg | L | 0.0001 | 0.0001 | 1 | 0 | Pass |
| Endrin ketone | S18 | Au1 | 8 | NCP mg | L | 0.0001 | 0.0001 | 1 | 0 | Pass |
| g BHC Lindane | S18 | Au1 | 8 | NCP mg | L | 0.0001 | 0.0001 | 1 | 0 | Pass |
| Heptachlor | S18 | Au1 | 8 | NCP mg | L | 0.0001 | 0.0001 | 1 | 0 | Pass |
| Heptachlor epoxide | S18 | Au1 | 8 | NCP mg | L | 0.0001 | 0.0001 | 1 | 0 | Pass |
| Hexachlorobene | S18 | Au1 | 8 | NCP mg | L | 0.0001 | 0.0001 | 1 | 0 | Pass |
| Methoxychlor | S18 | Au1 | 8 | NCP mg | L | 0.0001 | 0.0001 | 1 | 0 | Pass |
| Duplicate | | | | | | | | | | |
| Organophosphorus Pesticides | | | | | | | | | | |
| A inphos methyl | S18 | Au1 | 8 | NCP mg | L | 0.002 | 0.002 | 1 | 0 | Pass |
| Bolstar | S18 | Au1 | 8 | NCP mg | L | 0.002 | 0.002 | 1 | 0 | Pass |
| Chlorfenvinphos | S18 | Au1 | 8 | NCP mg | L | 0.002 | 0.002 | 1 | 0 | Pass |
| Chlorpyrifos | S18 | Au1 | 8 | NCP mg | L | 0.02 | 0.02 | 1 | 0 | Pass |
| Chlorpyrifos methyl | S18 | Au1 | 8 | NCP mg | L | 0.002 | 0.002 | 1 | 0 | Pass |
| Coumaphos | S18 | Au1 | 8 | NCP mg | L | 0.02 | 0.02 | 1 | 0 | Pass |
| Demeton S | S18 | Au1 | 8 | NCP mg | L | 0.02 | 0.02 | 1 | 0 | Pass |
| Demeton O | S18 | Au1 | 8 | NCP mg | L | 0.002 | 0.002 | 1 | 0 | Pass |
| Dia inon | S18 | Au1 | 8 | NCP mg | L | 0.002 | 0.002 | 1 | 0 | Pass |
| Dichlorvos | S18 | Au1 | 8 | NCP mg | L | 0.002 | 0.002 | 1 | 0 | Pass |
| Dimethoate | S18 | Au1 | 8 | NCP mg | L | 0.002 | 0.002 | 1 | 0 | Pass |
| Disulfoton | S18 | Au1 | 8 | NCP mg | L | 0.002 | 0.002 | 1 | 0 | Pass |
| EPN | S18 | Au1 | 8 | NCP mg | L | 0.002 | 0.002 | 1 | 0 | Pass |
| Ethion | S18 | Au1 | 8 | NCP mg | L | 0.002 | 0.002 | 1 | 0 | Pass |



| Duplicate | | | | | | | | | | |
|---|-----|------|----|----------|----------|----------|-----|---|------|--|
| Organophosphorus Pesticides | | | | | Result 1 | Result 2 | RPD | | | |
| Ethoprop | S18 | Au1 | 8 | NCP mg L | 0.002 | 0.002 | 1 | 0 | Pass | |
| Ethyl parathion | S18 | Au1 | 8 | NCP mg L | 0.002 | 0.002 | 1 | 0 | Pass | |
| Fenitrothion | S18 | Au1 | 8 | NCP mg L | 0.002 | 0.002 | 1 | 0 | Pass | |
| Fensulfothion | S18 | Au1 | 8 | NCP mg L | 0.002 | 0.002 | 1 | 0 | Pass | |
| Fenthion | S18 | Au1 | 8 | NCP mg L | 0.002 | 0.002 | 1 | 0 | Pass | |
| Malathion | S18 | Au1 | 8 | NCP mg L | 0.002 | 0.002 | 1 | 0 | Pass | |
| Merphos | S18 | Au1 | 8 | NCP mg L | 0.002 | 0.002 | 1 | 0 | Pass | |
| Methyl parathion | S18 | Au1 | 8 | NCP mg L | 0.002 | 0.002 | 1 | 0 | Pass | |
| Mevinphos | S18 | Au1 | 8 | NCP mg L | 0.002 | 0.002 | 1 | 0 | Pass | |
| Monocrotophos | S18 | Au1 | 8 | NCP mg L | 0.002 | 0.002 | 1 | 0 | Pass | |
| Naled | S18 | Au1 | 8 | NCP mg L | 0.002 | 0.002 | 1 | 0 | Pass | |
| O methoate | S18 | Au1 | 8 | NCP mg L | 0.002 | 0.002 | 1 | 0 | Pass | |
| Phorate | S18 | Au1 | 8 | NCP mg L | 0.002 | 0.002 | 1 | 0 | Pass | |
| Pirimiphos methyl | S18 | Au1 | 8 | NCP mg L | 0.02 | 0.02 | 1 | 0 | Pass | |
| Pyra ophos | S18 | Au1 | 8 | NCP mg L | 0.002 | 0.002 | 1 | 0 | Pass | |
| Ronnel | S18 | Au1 | 8 | NCP mg L | 0.002 | 0.002 | 1 | 0 | Pass | |
| T erbufos | S18 | Au1 | 8 | NCP mg L | 0.002 | 0.002 | 1 | 0 | Pass | |
| T etrachlorvinphos | S18 | Au1 | 8 | NCP mg L | 0.002 | 0.002 | 1 | 0 | Pass | |
| T okuthion | S18 | Au1 | 8 | NCP mg L | 0.002 | 0.002 | 1 | 0 | Pass | |
| T richloronate | S18 | Au1 | 8 | NCP mg L | 0.002 | 0.002 | 1 | 0 | Pass | |
| Duplicate | | | | | | | | | | |
| Phenols (Halogenated) | | | | | Result 1 | Result 2 | RPD | | | |
| 2 Chlorophenol | S18 | Au1 | 8 | NCP mg L | 0.00 | 0.00 | 1 | 0 | Pass | |
| 2,4 Dichlorophenol | S18 | Au1 | 8 | NCP mg L | 0.00 | 0.00 | 1 | 0 | Pass | |
| 2,4,6 Trichlorophenol | S18 | Au1 | 8 | NCP mg L | 0.01 | 0.01 | 1 | 0 | Pass | |
| 2,4,6-Trichlorophenol | S18 | Au1 | 8 | NCP mg L | 0.01 | 0.01 | 1 | 0 | Pass | |
| 2,4-Dichlorophenol | S18 | Au1 | 8 | NCP mg L | 0.00 | 0.00 | 1 | 0 | Pass | |
| Chloro methylphenol | S18 | Au1 | 8 | NCP mg L | 0.01 | 0.01 | 1 | 0 | Pass | |
| Pentachlorophenol | S18 | Au1 | 8 | NCP mg L | 0.01 | 0.01 | 1 | 0 | Pass | |
| T etrachlorophenols Total | S18 | Au1 | 8 | NCP mg L | 0.0 | 0.0 | 1 | 0 | Pass | |
| Duplicate | | | | | | | | | | |
| Phenols (non Halogenated) | | | | | Result 1 | Result 2 | RPD | | | |
| 2 Cyclohexyl , dinitrophenol | S18 | Au1 | 8 | NCP mg L | 0.1 | 0.1 | 1 | 0 | Pass | |
| 2 Methyl , dinitrophenol | S18 | Au1 | 8 | NCP mg L | 0.0 | 0.0 | 1 | 0 | Pass | |
| 2 Methylphenol o Cresol | S18 | Au1 | 8 | NCP mg L | 0.00 | 0.00 | 1 | 0 | Pass | |
| 2 Nitrophenol | S18 | Au1 | 8 | NCP mg L | 0.01 | 0.01 | 1 | 0 | Pass | |
| 2,4 Dimethylphenol | S18 | Au1 | 8 | NCP mg L | 0.00 | 0.00 | 1 | 0 | Pass | |
| 2,4 Dinitrophenol | S18 | Au1 | 8 | NCP mg L | 0.0 | 0.0 | 1 | 0 | Pass | |
| Methylphenol m p Cresol | S18 | Au1 | 8 | NCP mg L | 0.00 | 0.00 | 1 | 0 | Pass | |
| Nitrophenol | S18 | Au1 | 8 | NCP mg L | 0.0 | 0.0 | 1 | 0 | Pass | |
| Dinoseb | S18 | Au1 | 8 | NCP mg L | 0.1 | 0.1 | 1 | 0 | Pass | |
| Phenol | S18 | Au1 | 8 | NCP mg L | 0.00 | 0.00 | 1 | 0 | Pass | |
| Duplicate | | | | | | | | | | |
| Perfluoroalkyl carboxylic acids (PFCAs) | | | | | Result 1 | Result 2 | RPD | | | |
| Perfluorobutanoic acid PFBA | M18 | Au20 | 11 | NCP ug L | 0.05 | 0.05 | 1 | 0 | Pass | |
| Perfluoropentanoic acid PFPeA | M18 | Au20 | 11 | NCP ug L | 0.01 | 0.01 | 1 | 0 | Pass | |
| Perfluorohexanoic acid PFHxA | M18 | Au20 | 11 | NCP ug L | 0.01 | 0.01 | 1 | 0 | Pass | |
| Perfluoroheptanoic acid PFHpA | M18 | Au20 | 11 | NCP ug L | 0.01 | 0.01 | 1 | 0 | Pass | |
| Perfluorooctanoic acid PFOA | M18 | Au20 | 11 | NCP ug L | 0.01 | 0.01 | 1 | 0 | Pass | |
| Perfluorononanoic acid PFNA | M18 | Au20 | 11 | NCP ug L | 0.01 | 0.01 | 1 | 0 | Pass | |
| Perfluorodecanoic acid PFDA | M18 | Au20 | 11 | NCP ug L | 0.01 | 0.01 | 1 | 0 | Pass | |
| Perfluoroundecanoic acid PF nDA | M18 | Au20 | 11 | NCP ug L | 0.01 | 0.01 | 1 | 0 | Pass | |
| Perfluorododecanoic acid PFDoDA | M18 | Au20 | 11 | NCP ug L | 0.01 | 0.01 | 1 | 0 | Pass | |



| Duplicate | | | | | | | | | | | | |
|--|-----|--------|------|-----|-----|----|----------|----------|------|---|------|------|
| Perfluoroalkyl carboxylic acids (PFCAs) | | | | | | | Result 1 | Result 2 | RPD | | | |
| Perfluorotridecanoic acid PFT rDA | M18 | Au20 | 11 | NCP | ug | L | 0.01 | 0.01 | 1 | 0 | Pass | |
| Perfluorotetradecanoic acid PFT eDA | M18 | Au20 | 11 | NCP | ug | L | 0.01 | 0.01 | 1 | 0 | Pass | |
| Duplicate | | | | | | | | | | | | |
| Perfluoroalkyl sulfonamido substances | | | | | | | Result 1 | Result 2 | RPD | | | |
| Perfluorooctane sulfonamide FO SA | M18 | Au20 | 11 | NCP | ug | L | 0.05 | 0.05 | 1 | 0 | Pass | |
| N methylperfluoro 1 octane sulfonamide N MeFO SA | M18 | Au20 | 11 | NCP | ug | L | 0.05 | 0.05 | 1 | 0 | Pass | |
| N ethylperfluoro 1 octane sulfonamide N EtFO SA | M18 | Au20 | 11 | NCP | ug | L | 0.05 | 0.05 | 1 | 0 | Pass | |
| 2 N methylperfluoro 1 octane sulfonamido ethanol N MeFO SE | M18 | Au20 | 11 | NCP | ug | L | 0.05 | 0.05 | 1 | 0 | Pass | |
| 2 N ethylperfluoro 1 octane sulfonamido ethanol N EtFO SE | M18 | Au20 | 11 | NCP | ug | L | 0.05 | 0.05 | 1 | 0 | Pass | |
| N ethylperfluorooctanesulfonamidoacetic acid N EtFO SAA | M18 | Au20 | 11 | NCP | ug | L | 0.05 | 0.05 | 1 | 0 | Pass | |
| N methylperfluorooctanesulfonamidoacetic acid N MeFO SAA | M18 | Au20 | 11 | NCP | ug | L | 0.05 | 0.05 | 1 | 0 | Pass | |
| Duplicate | | | | | | | | | | | | |
| Perfluoroalkyl sulfonic acids (PFSA) | | | | | | | Result 1 | Result 2 | RPD | | | |
| Perfluorobutanesulfonic acid PFBS | M18 | Au20 | 11 | NCP | ug | L | 0.01 | 0.01 | 1 | 0 | Pass | |
| Perfluoropentanesulfonic acid PFPeS | M18 | Au20 | 11 | NCP | ug | L | 0.01 | 0.01 | 1 | 0 | Pass | |
| Perfluorohexanesulfonic acid PFHxS | M18 | Au20 | 11 | NCP | ug | L | 0.01 | 0.01 | 1 | 0 | Pass | |
| Perfluoroheptanesulfonic acid PFHpS | M18 | Au20 | 11 | NCP | ug | L | 0.01 | 0.01 | 1 | 0 | Pass | |
| Perfluorooctanesulfonic acid PFO S | M18 | Au20 | 11 | NCP | ug | L | 0.01 | 0.01 | 1 | 0 | Pass | |
| Perfluorodecanesulfonic acid PFDS | M18 | Au20 | 11 | NCP | ug | L | 0.01 | 0.01 | 1 | 0 | Pass | |
| Duplicate | | | | | | | | | | | | |
| n:2 Fluorotelomer sulfonic acids (n:2 FTSA) | | | | | | | Result 1 | Result 2 | RPD | | | |
| 1H,1H,2H,2H perfluorohexanesulfonic acid FT SA | -2 | M18 | Au20 | 11 | NCP | ug | L | 0.01 | 0.01 | 1 | 0 | Pass |
| 1H,1H,2H,2H perfluorooctanesulfonic acid FT SA | 2 | M18 | Au20 | 11 | NCP | ug | L | 0.05 | 0.05 | 1 | 0 | Pass |
| 1H,1H,2H,2H perfluorodecanesulfonic acid FT SA | 8,2 | M18 | Au20 | 11 | NCP | ug | L | 0.01 | 0.01 | 1 | 0 | Pass |
| 1H,1H,2H,2H perfluorododecanesulfonic acid 10:2 FT SA | | M18 | Au20 | 11 | NCP | ug | L | 0.01 | 0.01 | 1 | 0 | Pass |
| Duplicate | | | | | | | | | | | | |
| Heavy Metals | | | | | | | Result 1 | Result 2 | RPD | | | |
| Arsenic filtered | M18 | Au1820 | | NCP | mg | L | 0.001 | 0.001 | 1 | 0 | Pass | |
| Cadmium filtered | M18 | Au1820 | | NCP | mg | L | 0.0002 | 0.0002 | 1 | 0 | Pass | |
| Chromium filtered | M18 | Au1820 | | NCP | mg | L | 0.001 | 0.001 | 1 | 0 | Pass | |
| Copper filtered | M18 | Au1820 | | NCP | mg | L | 0.002 | 0.002 | 2.0 | 0 | Pass | |
| Lead filtered | M18 | Au1820 | | NCP | mg | L | 0.001 | 0.001 | 1 | 0 | Pass | |
| Mercury filtered | M18 | Au1820 | | NCP | mg | L | 0.0001 | 0.0001 | 1 | 0 | Pass | |
| Nickel filtered | M18 | Au1820 | | NCP | mg | L | 0.0 | 0.0 | 1.0 | 0 | Pass | |
| inc filtered | M18 | Au1820 | | NCP | mg | L | 0.005 | 0.005 | 1 | 0 | Pass | |
| Duplicate | | | | | | | | | | | | |
| Total Recoverable Hydrocarbons 2013 NEPM Fractions | | | | | | | Result 1 | Result 2 | RPD | | | |
| Naphthalene | M18 | Au1 | 1 | NCP | mg | L | 0.01 | 0.01 | 1 | 0 | Pass | |
| T RH C C10 | M18 | Au1 | 1 | NCP | mg | L | 0.02 | 0.02 | 1 | 0 | Pass | |



| Duplicate | | | | | | | | | | | | |
|--------------------------------|--------|-----|-----|----------------|-----|----------|----------|-------|-------|---|---|------|
| Total Recoverable Hydrocarbons | | | | NEPM Fractions | | Result 1 | Result 2 | RPD | | | | |
| T R H C | C | M18 | Au1 | 1 | NCP | mg | L | 0.02 | 0.02 | 1 | 0 | Pass |
| Duplicate | | | | | | | | | | | | |
| B TEX | | | | | | Result 1 | Result 2 | RPD | | | | |
| Ben ene | | M18 | Au1 | 1 | NCP | mg | L | 0.001 | 0.001 | 1 | 0 | Pass |
| T oluene | | M18 | Au1 | 1 | NCP | mg | L | 0.001 | 0.001 | 1 | 0 | Pass |
| Ethylben ene | | M18 | Au1 | 1 | NCP | mg | L | 0.001 | 0.001 | 1 | 0 | Pass |
| m p X ylenes | | M18 | Au1 | 1 | NCP | mg | L | 0.002 | 0.002 | 1 | 0 | Pass |
| o X ylene | | M18 | Au1 | 1 | NCP | mg | L | 0.001 | 0.001 | 1 | 0 | Pass |
| X ylenes | T otal | M18 | Au1 | 1 | NCP | mg | L | 0.00 | 0.00 | 1 | 0 | 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 Holding Time | 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 C1 " 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 QA/QC acceptance criteria and are entirely technically valid. |
| N0 | F1 is determined by arithmetically subtracting the " Total BT EX " value from the " C C10 " value. The " Total BT EX " value is obtained by summing the concentrations of BT EX analytes. The " C C10 " value is obtained by quantitating against a standard of mixed aromatic aliphatic analytes. |
| N0 | 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 |
| N0 | Quantification of linear and branched isomers has been conducted as a single total response using the relative response factor for the corresponding linear branched standard. |
| N11 | Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available Isotope Dilution Q quantitation The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds. |
| N15 | Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made Internal Standard Q quantitation |
| R20 | This sample is a Trip Spike and therefore all results are reported as a percentage |

Authorised By

| | |
|-----------------|------------------------------|
| Nibha Vaidya | Analytical Services Manager |
| Alex Petridis | Senior Analyst Metal V IC |
| Harry Bacalis | Senior Analyst Volatile V IC |
| Jonathan Angell | Senior Analyst Organic Q LD |
| Joseph Edouard | Senior Analyst Organic V IC |



Glenn Jackson

National Operations Manager

Final report: this Report replaces any previously issued Report:

Indicates Not Requested

Indicates NAT A accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or [please click here](#).

Eurofins mgt which not be held for best cost savings or expense incurred by the client. No other person or company resulting from the use of any information or intelligence given in this report. In no case shall Eurofins mgt be liable for consequential damages including but not limited to lost profits damages for failure to meet deadlines and loss production arising from this report. All documents shall not be reproduced except in full and relate only to the items stated. Also indicated otherwise the tests were performed on the samples as received.



ABH-50 005 085 524
 email : EnviroSales_eurofins.com
 web : www.eurofins.com.au
MARLBOROUGH
 2 5 Kingstee Tower Close
 Oadleigh VIC 3555
 NAT A 12 1 2 1
 Site 125 1 2 1
SPRINGWOOD
 1 Mire Road Building F
 Mire NSW 2012
 Phone : 12 00 8 00
 NAT A 12 1 Site 20
WARRAGONG
 1 21 Smallwood Place
 Murrumbidgee NSW 2500
 Phone : 12 00 8 00
 NAT A 12 1 Site 20
WARRAGONG
 1 21 Smallwood Place
 Murrumbidgee NSW 2500
 Phone : 12 00 8 00
 NAT A 12 1 Site 20
WARRAGONG
 1 21 Smallwood Place
 Murrumbidgee NSW 2500
 Phone : 12 00 8 00
 NAT A 12 1 Site 20

Company Name: Trace Environmental P L
Address: Shop 2 New Canterbury Road
 Dutwich Hill NSW 220
Project Name: MASCO T
Project ID: 1,1
Order No.: 1255
Report : 02 B 0 0555
Phone:
Fax:
Received: Aug 15 2018 5: 1 PM
Due: Aug 22 2018
Priority: 5 Day
Contact Name: Ken Henderson
Eurofins mgt Analytical Services Manager : Nibha V aldiya

| No | Sample ID | Sample Date | Sampling Time | Matrix | LAB ID | Eurofins mgt Suite B15 | Volatile Organics | Eurofins mgt Suite B A filtered metals | BT EX N and Volatile TRH | Per and Polyfluoroalkyl Substances PFAS |
|-------------|-------------|-------------|---------------|--------|-------------|------------------------|-------------------|--|--------------------------|---|
| 1 | MW1 | Aug 15 2018 | | Water | S18 Au1 | X | X | X | X | X |
| 2 | MW2 | Aug 15 2018 | | Water | S18 Au1 | X | X | X | X | X |
| | MW | Aug 15 2018 | | Water | S18 Au20000 | X | X | X | X | X |
| | MW | Aug 15 2018 | | Water | S18 Au20001 | X | X | X | X | X |
| 5 | QW1 | Aug 15 2018 | | Water | S18 Au20002 | | | | | |
| | T RIP BLANK | Aug 15 2018 | | Water | S18 Au2000 | | | | X | |
| | T RIP SPIKE | Aug 15 2018 | | Water | S18 Au2000 | | | | X | |
| Test Counts | | | | | | | | 5 | 2 | |



Head Office 5 Kingston Town Closerit F Building F 1 21 Smallwood Place 2 1 Leach Highway
 Oakleigh Vic 1 1 Mars Road Murarie QLD 1 2 Kewdale WA 105
 Phone: 1 85 5000ns Cove West NSW 20 Phone: 1 02 00Phone: 1 8 251 00
 NAT A 12 1 Phone: 1 2 00 8 00NAT A 12 1 Site 20 NAT A 12 1 Site 2
 Site 125 1 2 1 NAT A 12 1 Site 1821

ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com web : www.eurofins.com.au

Sample Receipt Advice

Company name: Trace Environmental P L
Contact name: Ken Henderson
Project name: MASCO T
Project ID: 1.1
CO C number: Not provided
Turn around time: 5 Day
Date Time received: Aug 15 2018 5: 1 PM
Eurofins mgt reference: 12625555

Sample information

- A detailed list of analytes logged into our LIM S is included in the attached summary table.
- Sample Temperature of a random sample selected from the batch as recorded by Eurofins mgt Sample Receipt : 2. degrees Celsius.
- All samples have been received as described on the above CO C.
- CO C 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 ero headspace.
- Split sample sent to requested external lab.
- Some samples have been subcontracted.

Q W1A Custody Seals intact if used .

Q W1A sent to als.

Contact notes

If you have any questions with respect to these samples please contact:

Nibha V aidya on Phone : 1 2 00 8 15 or by e.mail: NibhaV aidya eurofins.com

Results will be delivered electronically via e.mail to Ken Henderson ken traceenviro.com.



Environmental Laboratory NAT A Accreditation
 Air Analysis Stack Emission Sampling Analysis
 Water Analysis Trade Waste Sampling Analysis
 Soil Contamination Analysis Groundwater Sampling Analysis

38 Years of Environmental Analysis & Experience





CERTIFICATE OF ANALYSIS

| | | | |
|--------------------------------|---|--------------------------------|---|
| Work Order | : ES1824306 | Page | : 1 of 6 |
| Client | : TRACE ENVIRONMENTAL PTY LTD | Laboratory | : Environmental Division Sydney |
| Contact | : MR JACK ELLIS | Contact | : Customer Services ES |
| Address | : Shop 2 793-799 New Canterbury Road Dulwich Hill NSW 2203 | Address | : 277-289 Woodpark Road Smithfield NSW Australia 2164 |
| Telephone | : ---- | Telephone | : +61-2-8784 8555 |
| Project | : ---- | Date Samples Received | : 17-Aug-2018 15:00 |
| Order number | : | Date Analysis Commenced | : 20-Aug-2018 |
| C-O-C number | : ---- | Issue Date | : 23-Aug-2018 18:08 |
| Sampler | : ---- | | |
| Site | : ---- | | |
| Quote number | : EN/222/17 (Sydney Batches) | | |
| No. of samples received | : 1 | | |
| No. of samples analysed | : 1 | | |



This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

| <i>Signatories</i> | <i>Position</i> | <i>Accreditation Category</i> |
|--------------------|-----------------------|------------------------------------|
| Celine Conceicao | Senior Spectroscopist | Sydney Inorganics, Smithfield, NSW |
| Edwandy Fadjar | Organic Coordinator | Sydney Organics, Smithfield, NSW |

RIGHT SOLUTIONS | RIGHT PARTNER

Page : 2 of 6
Work Order : ES1824306
Client : TRACE ENVIRONMENTAL PTY LTD
Project : ---



General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contact for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

LOR = Limit of reporting

^ = This result is computed from individual analyte detections at or above the level of reporting

ø = ALS is not NATA accredited for these tests.

~ = Indicates an estimated value.

- Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a,h)anthracene (1.0), Benzo(g,h,i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero.

Page : 3 of 6
 Work Order : ES1824306
 Client : TRACE ENVIRONMENTAL PTY LTD
 Project : —



Analytical Results

| Sub-Matrix: WATER (Matrix: WATER) | | | | Client sample ID | QW1A | --- | --- | --- | --- |
|---|-------------------|--------|------|-------------------|------|-----|-----|-----|-----|
| Client sampling date / time | | | | 13-Aug-2018 00:00 | --- | --- | --- | --- | |
| Compound | CAS Number | LOR | Unit | ES1824306-001 | --- | --- | --- | --- | |
| | | | | Result | --- | --- | --- | --- | |
| EG020F: Dissolved Metals by ICP-MS | | | | | | | | | |
| Arsenic | 7440-38-2 | 0.001 | mg/L | 0.012 | --- | --- | --- | --- | |
| Cadmium | 7440-43-9 | 0.0001 | mg/L | <0.0001 | --- | --- | --- | --- | |
| Chromium | 7440-47-3 | 0.001 | mg/L | <0.001 | --- | --- | --- | --- | |
| Copper | 7440-50-8 | 0.001 | mg/L | 0.017 | --- | --- | --- | --- | |
| Lead | 7439-92-1 | 0.001 | mg/L | 0.001 | --- | --- | --- | --- | |
| Nickel | 7440-02-0 | 0.001 | mg/L | 0.003 | --- | --- | --- | --- | |
| Zinc | 7440-66-6 | 0.005 | mg/L | 0.114 | --- | --- | --- | --- | |
| EG035F: Dissolved Mercury by FIMS | | | | | | | | | |
| Mercury | 7439-97-6 | 0.0001 | mg/L | <0.0001 | --- | --- | --- | --- | |
| EP075(SIM)A: Phenolic Compounds | | | | | | | | | |
| Phenol | 108-95-2 | 1.0 | µg/L | <1.0 | --- | --- | --- | --- | |
| 2-Chlorophenol | 95-57-8 | 1.0 | µg/L | <1.0 | --- | --- | --- | --- | |
| 2-Methylphenol | 95-48-7 | 1.0 | µg/L | <1.0 | --- | --- | --- | --- | |
| 3- & 4-Methylphenol | 1319-77-3 | 2.0 | µg/L | <2.0 | --- | --- | --- | --- | |
| 2-Nitrophenol | 88-75-5 | 1.0 | µg/L | <1.0 | --- | --- | --- | --- | |
| 2,4-Dimethylphenol | 105-67-9 | 1.0 | µg/L | <1.0 | --- | --- | --- | --- | |
| 2,4-Dichlorophenol | 120-83-2 | 1.0 | µg/L | <1.0 | --- | --- | --- | --- | |
| 2,6-Dichlorophenol | 87-65-0 | 1.0 | µg/L | <1.0 | --- | --- | --- | --- | |
| 4-Chloro-3-methylphenol | 59-50-7 | 1.0 | µg/L | <1.0 | --- | --- | --- | --- | |
| 2,4,6-Trichlorophenol | 88-06-2 | 1.0 | µg/L | <1.0 | --- | --- | --- | --- | |
| 2,4,5-Trichlorophenol | 95-95-4 | 1.0 | µg/L | <1.0 | --- | --- | --- | --- | |
| Pentachlorophenol | 87-86-5 | 2.0 | µg/L | <2.0 | --- | --- | --- | --- | |
| EP075(SIM)B: Polynuclear Aromatic Hydrocarbons | | | | | | | | | |
| Naphthalene | 91-20-3 | 1.0 | µg/L | <1.0 | --- | --- | --- | --- | |
| Acenaphthylene | 208-96-8 | 1.0 | µg/L | <1.0 | --- | --- | --- | --- | |
| Acenaphthene | 83-32-9 | 1.0 | µg/L | <1.0 | --- | --- | --- | --- | |
| Fluorene | 86-73-7 | 1.0 | µg/L | <1.0 | --- | --- | --- | --- | |
| Phenanthrene | 85-01-8 | 1.0 | µg/L | <1.0 | --- | --- | --- | --- | |
| Anthracene | 120-12-7 | 1.0 | µg/L | <1.0 | --- | --- | --- | --- | |
| Fluoranthene | 206-44-0 | 1.0 | µg/L | <1.0 | --- | --- | --- | --- | |
| Pyrene | 129-00-0 | 1.0 | µg/L | <1.0 | --- | --- | --- | --- | |
| Benzo(a)anthracene | 56-55-3 | 1.0 | µg/L | <1.0 | --- | --- | --- | --- | |
| Chrysene | 218-01-9 | 1.0 | µg/L | <1.0 | --- | --- | --- | --- | |
| Benzo(b+j)fluoranthene | 205-99-2 205-82-3 | 1.0 | µg/L | <1.0 | --- | --- | --- | --- | |

Page : 4 of 6
 Work Order : ES1824306
 Client : TRACE ENVIRONMENTAL PTY LTD
 Project : ---



Analytical Results

| Sub-Matrix: WATER (Matrix: WATER) | | | | Client sample ID | QW1A | --- | --- | --- | --- |
|--|-------------------|-----|------|-------------------|------|-----|-----|-----|-----|
| Client sampling date / time | | | | 13-Aug-2018 00:00 | --- | --- | --- | --- | |
| Compound | CAS Number | LOR | Unit | ES1824306-001 | --- | --- | --- | --- | |
| | | | | Result | --- | --- | --- | --- | |
| EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued | | | | | | | | | |
| Benzo(k)fluoranthene | 207-08-9 | 1.0 | µg/L | <1.0 | --- | --- | --- | --- | |
| Benzo(a)pyrene | 50-32-8 | 0.5 | µg/L | <0.5 | --- | --- | --- | --- | |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | 1.0 | µg/L | <1.0 | --- | --- | --- | --- | |
| Dibenz(a,h)anthracene | 53-70-3 | 1.0 | µg/L | <1.0 | --- | --- | --- | --- | |
| Benzo(g,h,i)perylene | 191-24-2 | 1.0 | µg/L | <1.0 | --- | --- | --- | --- | |
| ^A Sum of polycyclic aromatic hydrocarbons | ---- | 0.5 | µg/L | <0.5 | --- | --- | --- | --- | |
| ^A Benzo(a)pyrene TEQ (zero) | ---- | 0.5 | µg/L | <0.5 | --- | --- | --- | --- | |
| EP080/071: Total Petroleum Hydrocarbons | | | | | | | | | |
| C6 - C9 Fraction | ---- | 20 | µg/L | <20 | --- | --- | --- | --- | |
| C10 - C14 Fraction | ---- | 50 | µg/L | <50 | --- | --- | --- | --- | |
| C15 - C28 Fraction | ---- | 100 | µg/L | <100 | --- | --- | --- | --- | |
| C29 - C36 Fraction | ---- | 50 | µg/L | <50 | --- | --- | --- | --- | |
| ^A C10 - C36 Fraction (sum) | ---- | 50 | µg/L | <50 | --- | --- | --- | --- | |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions | | | | | | | | | |
| C6 - C10 Fraction | C6_C10 | 20 | µg/L | <20 | --- | --- | --- | --- | |
| ^A C6 - C10 Fraction minus BTEX (F1) | C6_C10-BTEX | 20 | µg/L | <20 | --- | --- | --- | --- | |
| >C10 - C16 Fraction | ---- | 100 | µg/L | <100 | --- | --- | --- | --- | |
| >C16 - C34 Fraction | ---- | 100 | µg/L | <100 | --- | --- | --- | --- | |
| >C34 - C40 Fraction | ---- | 100 | µg/L | <100 | --- | --- | --- | --- | |
| ^A >C10 - C40 Fraction (sum) | ---- | 100 | µg/L | <100 | --- | --- | --- | --- | |
| ^A >C10 - C16 Fraction minus Naphthalene (F2) | ---- | 100 | µg/L | <100 | --- | --- | --- | --- | |
| EP080: BTEXN | | | | | | | | | |
| Benzene | 71-43-2 | 1 | µg/L | <1 | --- | --- | --- | --- | |
| Toluene | 108-88-3 | 2 | µg/L | <2 | --- | --- | --- | --- | |
| Ethylbenzene | 100-41-4 | 2 | µg/L | <2 | --- | --- | --- | --- | |
| meta- & para-Xylene | 108-38-3 106-42-3 | 2 | µg/L | <2 | --- | --- | --- | --- | |
| ortho-Xylene | 95-47-6 | 2 | µg/L | <2 | --- | --- | --- | --- | |
| ^A Total Xylenes | ---- | 2 | µg/L | <2 | --- | --- | --- | --- | |
| ^A Sum of BTEX | ---- | 1 | µg/L | <1 | --- | --- | --- | --- | |
| Naphthalene | 91-20-3 | 5 | µg/L | <5 | --- | --- | --- | --- | |
| EP075(SIM)S: Phenolic Compound Surrogates | | | | | | | | | |
| Phenol-d6 | 13127-88-3 | 1.0 | % | 26.7 | --- | --- | --- | --- | |

Page : 5 of 6
 Work Order : ES1824306
 Client : TRACE ENVIRONMENTAL PTY LTD
 Project : —



Analytical Results

| Sub-Matrix: WATER (Matrix: WATER) | | Client sample ID | | QW1A | --- | --- | --- | --- |
|--|------------|-----------------------------|------|-------------------|-------|-------|-------|-------|
| | | Client sampling date / time | | 13-Aug-2018 00:00 | --- | --- | --- | --- |
| Compound | CAS Number | LOR | Unit | ES1824306-001 | ----- | ----- | ----- | ----- |
| | | | | Result | --- | --- | --- | --- |
| EP075(SIM)S: Phenolic Compound Surrogates - Continued | | | | | | | | |
| 2-Chlorophenol-D4 | 93951-73-6 | 1.0 | % | 63.7 | --- | --- | --- | --- |
| 2,4,6-Tribromophenol | 118-79-6 | 1.0 | % | 63.9 | --- | --- | --- | --- |
| EP075(SIM)T: PAH Surrogates | | | | | | | | |
| 2-Fluorobiphenyl | 321-60-8 | 1.0 | % | 76.0 | --- | --- | --- | --- |
| Anthracene-d10 | 1719-06-8 | 1.0 | % | 88.8 | --- | --- | --- | --- |
| 4-Terphenyl-d14 | 1718-51-0 | 1.0 | % | 98.8 | --- | --- | --- | --- |
| EP080S: TPH(V)/BTEX Surrogates | | | | | | | | |
| 1,2-Dichloroethane-D4 | 17060-07-0 | 2 | % | 112 | --- | --- | --- | --- |
| Toluene-D8 | 2037-26-5 | 2 | % | 102 | --- | --- | --- | --- |
| 4-Bromofluorobenzene | 460-00-4 | 2 | % | 99.1 | --- | --- | --- | --- |

Page : 6 of 6
Work Order : ES1824306
Client : TRACE ENVIRONMENTAL PTY LTD
Project : —



Surrogate Control Limits

| Sub-Matrix: WATER | | Recovery Limits (%) | |
|--|------------|---------------------|------|
| Compound | CAS Number | Low | High |
| EP075(SIM)S: Phenolic Compound Surrogates | | | |
| Phenol-d6 | 13127-88-3 | 10 | 44 |
| 2-Chlorophenol-D4 | 93951-73-6 | 14 | 94 |
| 2,4,6-Tribromophenol | 118-79-6 | 17 | 125 |
| EP075(SIM)T: PAH Surrogates | | | |
| 2-Fluorobiphenyl | 321-60-8 | 20 | 104 |
| Anthracene-d10 | 1719-06-8 | 27 | 113 |
| 4-Terphenyl-d14 | 1718-51-0 | 32 | 112 |
| EP080S: TPH(V)/BTEX Surrogates | | | |
| 1,2-Dichloroethane-D4 | 17060-07-0 | 71 | 137 |
| Toluene-D8 | 2037-26-5 | 79 | 131 |
| 4-Bromofluorobenzene | 460-00-4 | 70 | 128 |



QUALITY CONTROL REPORT

| | | | |
|--------------------------------|---|--------------------------------|--|
| Work Order | : ES1824306 | Page | : 1 of 6 |
| Client | : TRACE ENVIRONMENTAL PTY LTD | Laboratory | : Environmental Division Sydney |
| Contact | : MR JACK ELLIS | Contact | : Customer Services ES |
| Address | : Shop 2 793-799 New Canterbury Road Dulwich Hill NSW 2203 | Address | : 277-289 Woodpark Road Smithfield NSW Australia 2164 |
| Telephone | : --- | Telephone | : +61-2-8784 8555 |
| Project | : --- | Date Samples Received | : 17-Aug-2018 |
| Order number | : --- | Date Analysis Commenced | : 20-Aug-2018 |
| C-O-C number | : --- | Issue Date | : 23-Aug-2018 |
| Sampler | : --- | | |
| Site | : --- | | |
| Quote number | : EN/222/17 (Sydney Batches) | | |
| No. of samples received | : 1 | | |
| No. of samples analysed | : 1 | | |

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

| <i>Signatories</i> | <i>Position</i> | <i>Accreditation Category</i> |
|--------------------|-----------------------|------------------------------------|
| Celine Conceicao | Senior Spectroscopist | Sydney Inorganics, Smithfield, NSW |
| Edwandy Fadjar | Organic Coordinator | Sydney Organics, Smithfield, NSW |

RIGHT SOLUTIONS | RIGHT PARTNER

Page : 2 of 6
 Work Order : ES1824306
 Client : TRACE ENVIRONMENTAL PTY LTD
 Project : ---



General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis. Where the LOR of a reported result differs from standard LOR, this may be due to high

Key : Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot
 CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
 LOR = Limit of reporting
 RPD = Relative Percentage Difference
 # = Indicates failed QC

Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit; Result between 10 and 20 times LOR: 0% - 50%; Result > 20 times LOR: 0% - 20%.

| Sub-Matrix: WATER | | | | Laboratory Duplicate (DUP) Report | | | | | |
|--|------------------|--------------------------|------------|-----------------------------------|------|-----------------|------------------|---------|---------------------|
| Laboratory sample ID | Client sample ID | Method; Compound | CAS Number | LOR | Unit | Original Result | Duplicate Result | RPD (%) | Recovery Limits (%) |
| EG020F: Dissolved Metals by ICP-MS (QC Lot: 1886713) | | | | | | | | | |
| ES1824262-001 | Anonymous | EG020A-F: Cadmium | 7440-43-9 | 0.0001 | mg/L | <0.0010 | <0.0010 | 0.00 | No Limit |
| | | EG020A-F: Arsenic | 7440-38-2 | 0.001 | mg/L | <0.010 | <0.010 | 0.00 | No Limit |
| | | EG020A-F: Chromium | 7440-47-3 | 0.001 | mg/L | <0.010 | <0.010 | 0.00 | No Limit |
| | | EG020A-F: Copper | 7440-50-8 | 0.001 | mg/L | <0.010 | <0.010 | 0.00 | No Limit |
| | | EG020A-F: Lead | 7439-92-1 | 0.001 | mg/L | <0.010 | <0.010 | 0.00 | No Limit |
| | | EG020A-F: Nickel | 7440-02-0 | 0.001 | mg/L | <0.010 | <0.010 | 0.00 | No Limit |
| | | EG020A-F: Zinc | 7440-66-6 | 0.005 | mg/L | <0.050 | <0.050 | 0.00 | No Limit |
| ES1824156-002 | Anonymous | EG020A-F: Cadmium | 7440-43-9 | 0.0001 | mg/L | <0.0001 | <0.0001 | 0.00 | No Limit |
| | | EG020A-F: Arsenic | 7440-38-2 | 0.001 | mg/L | <0.001 | <0.001 | 0.00 | No Limit |
| | | EG020A-F: Chromium | 7440-47-3 | 0.001 | mg/L | <0.001 | <0.001 | 0.00 | No Limit |
| | | EG020A-F: Copper | 7440-50-8 | 0.001 | mg/L | 0.001 | 0.001 | 0.00 | No Limit |
| | | EG020A-F: Lead | 7439-92-1 | 0.001 | mg/L | 0.002 | 0.002 | 0.00 | No Limit |
| | | EG020A-F: Nickel | 7440-02-0 | 0.001 | mg/L | <0.001 | <0.001 | 0.00 | No Limit |
| | | EG020A-F: Zinc | 7440-66-6 | 0.005 | mg/L | <0.005 | <0.005 | 0.00 | No Limit |
| EG035F: Dissolved Mercury by FIMS (QC Lot: 1886714) | | | | | | | | | |
| ES1824262-001 | Anonymous | EG035F: Mercury | 7439-97-6 | 0.0001 | mg/L | <0.0001 | <0.0001 | 0.00 | No Limit |
| ES1824156-002 | Anonymous | EG035F: Mercury | 7439-97-6 | 0.0001 | mg/L | <0.0001 | <0.0001 | 0.00 | No Limit |
| EP080/071: Total Petroleum Hydrocarbons (QC Lot: 1885653) | | | | | | | | | |
| ES1824156-001 | Anonymous | EP080: C6 - C9 Fraction | --- | 20 | µg/L | <20 | <20 | 0.00 | No Limit |
| ES1824156-002 | Anonymous | EP080: C6 - C9 Fraction | --- | 20 | µg/L | <20 | <20 | 0.00 | No Limit |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 1885653) | | | | | | | | | |
| ES1824156-001 | Anonymous | EP080: C6 - C10 Fraction | C6_C10 | 20 | µg/L | <20 | <20 | 0.00 | No Limit |
| ES1824156-002 | Anonymous | EP080: C6 - C10 Fraction | C6_C10 | 20 | µg/L | <20 | <20 | 0.00 | No Limit |
| EP080: BTEXN (QC Lot: 1885653) | | | | | | | | | |

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| Sub-Matrix: WATER | | | | Laboratory Duplicate (DUP) Report | | | | | |
|--|------------------|----------------------------|----------------------|-----------------------------------|------|-----------------|------------------|---------|---------------------|
| Laboratory sample ID | Client sample ID | Method: Compound | CAS Number | LOR | Unit | Original Result | Duplicate Result | RPD (%) | Recovery Limits (%) |
| EP080: BTEXN (QC Lot: 1885653) - continued | | | | | | | | | |
| ES1824156-001 | Anonymous | EP080: Benzene | 71-43-2 | 1 | µg/L | <1 | <1 | 0.00 | No Limit |
| | | EP080: Toluene | 108-88-3 | 2 | µg/L | <2 | <2 | 0.00 | No Limit |
| | | EP080: Ethylbenzene | 100-41-4 | 2 | µg/L | <2 | <2 | 0.00 | No Limit |
| | | EP080: meta- & para-Xylene | 108-38-3 106-42-3 | 2 | µg/L | <2 | <2 | 0.00 | No Limit |
| | | EP080: ortho-Xylene | 95-47-6 | 2 | µg/L | <2 | <2 | 0.00 | No Limit |
| | | EP080: Naphthalene | 91-20-3 | 5 | µg/L | <5 | <5 | 0.00 | No Limit |
| ES1824156-002 | Anonymous | EP080: Benzene | 71-43-2 | 1 | µg/L | <1 | <1 | 0.00 | No Limit |
| | | EP080: Toluene | 108-88-3 | 2 | µg/L | <2 | <2 | 0.00 | No Limit |
| | | EP080: Ethylbenzene | 100-41-4 | 2 | µg/L | <2 | <2 | 0.00 | No Limit |
| | | EP080: meta- & para-Xylene | 108-38-3 106-42-3 | 2 | µg/L | <2 | <2 | 0.00 | No Limit |
| | | EP080: ortho-Xylene | 95-47-6 | 2 | µg/L | <2 | <2 | 0.00 | No Limit |
| | | EP080: Naphthalene | 91-20-3 | 5 | µg/L | <5 | <5 | 0.00 | No Limit |

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Method Blank (MB) and Laboratory Control Spike (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Spike (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

Sub-Matrix: WATER

| Method/Compound | CAS Number | LOR | Unit | Method Blank (MB) | Laboratory Control Spike (LCS) Report | | | | |
|--|------------|--------|------|-------------------|---------------------------------------|--------------------|-----|---------------------|------|
| | | | | Report | Spike Concentration | Spike Recovery (%) | | Recovery Limits (%) | |
| | | | | | | Result | LCS | Low | High |
| EG020F: Dissolved Metals by ICP-MS (QCLot: 1886713) | | | | | | | | | |
| EG020A-F: Arsenic | 7440-38-2 | 0.001 | mg/L | <0.001 | 0.1 mg/L | 87.0 | 85 | 114 | |
| EG020A-F: Cadmium | 7440-43-9 | 0.0001 | mg/L | <0.0001 | 0.1 mg/L | 88.1 | 84 | 110 | |
| EG020A-F: Chromium | 7440-47-3 | 0.001 | mg/L | <0.001 | 0.1 mg/L | 86.2 | 85 | 111 | |
| EG020A-F: Copper | 7440-50-8 | 0.001 | mg/L | <0.001 | 0.1 mg/L | 87.4 | 81 | 111 | |
| EG020A-F: Lead | 7439-92-1 | 0.001 | mg/L | <0.001 | 0.1 mg/L | 85.1 | 83 | 111 | |
| EG020A-F: Nickel | 7440-02-0 | 0.001 | mg/L | <0.001 | 0.1 mg/L | 85.5 | 82 | 112 | |
| EG020A-F: Zinc | 7440-66-6 | 0.005 | mg/L | <0.005 | 0.1 mg/L | 87.1 | 81 | 117 | |
| EG035F: Dissolved Mercury by FIMS (QCLot: 1886714) | | | | | | | | | |
| EG035F: Mercury | 7439-97-6 | 0.0001 | mg/L | <0.0001 | 0.01 mg/L | 92.9 | 83 | 105 | |
| EP075(SIM)A: Phenolic Compounds (QCLot: 1882905) | | | | | | | | | |
| EP075(SIM): Phenol | 108-95-2 | 1 | µg/L | <1.0 | 5 µg/L | 44.5 | 25 | 62 | |
| EP075(SIM): 2-Chlorophenol | 95-57-8 | 1 | µg/L | <1.0 | 5 µg/L | 70.2 | 52 | 90 | |
| EP075(SIM): 2-Methylphenol | 95-48-7 | 1 | µg/L | <1.0 | 5 µg/L | 74.5 | 51 | 91 | |
| EP075(SIM): 3- & 4-Methylphenol | 1319-77-3 | 2 | µg/L | <2.0 | 10 µg/L | 65.8 | 44 | 88 | |
| EP075(SIM): 2-Nitrophenol | 88-75-5 | 1 | µg/L | <1.0 | 5 µg/L | 74.0 | 48 | 100 | |
| EP075(SIM): 2,4-Dimethylphenol | 105-67-9 | 1 | µg/L | <1.0 | 5 µg/L | 70.5 | 49 | 99 | |
| EP075(SIM): 2,4-Dichlorophenol | 120-83-2 | 1 | µg/L | <1.0 | 5 µg/L | 77.0 | 53 | 105 | |
| EP075(SIM): 2,6-Dichlorophenol | 87-65-0 | 1 | µg/L | <1.0 | 5 µg/L | 84.0 | 57 | 105 | |
| EP075(SIM): 4-Chloro-3-methylphenol | 59-50-7 | 1 | µg/L | <1.0 | 5 µg/L | 71.2 | 53 | 99 | |
| EP075(SIM): 2,4,6-Trichlorophenol | 88-06-2 | 1 | µg/L | <1.0 | 5 µg/L | 86.3 | 50 | 106 | |
| EP075(SIM): 2,4,5-Trichlorophenol | 95-95-4 | 1 | µg/L | <1.0 | 5 µg/L | 71.9 | 51 | 105 | |
| EP075(SIM): Pentachlorophenol | 87-86-5 | 2 | µg/L | <2.0 | 10 µg/L | 30.3 | 10 | 95 | |
| EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 1882905) | | | | | | | | | |
| EP075(SIM): Naphthalene | 91-20-3 | 1 | µg/L | <1.0 | 5 µg/L | 75.5 | 50 | 94 | |
| EP075(SIM): Acenaphthylene | 208-96-8 | 1 | µg/L | <1.0 | 5 µg/L | 96.5 | 64 | 114 | |
| EP075(SIM): Acenaphthene | 83-32-9 | 1 | µg/L | <1.0 | 5 µg/L | 89.4 | 62 | 113 | |
| EP075(SIM): Fluorene | 86-73-7 | 1 | µg/L | <1.0 | 5 µg/L | 90.7 | 64 | 115 | |
| EP075(SIM): Phenanthrene | 85-01-8 | 1 | µg/L | <1.0 | 5 µg/L | 98.3 | 63 | 116 | |
| EP075(SIM): Anthracene | 120-12-7 | 1 | µg/L | <1.0 | 5 µg/L | 97.5 | 64 | 116 | |
| EP075(SIM): Fluoranthene | 206-44-0 | 1 | µg/L | <1.0 | 5 µg/L | 97.4 | 64 | 118 | |
| EP075(SIM): Pyrene | 129-00-0 | 1 | µg/L | <1.0 | 5 µg/L | 97.4 | 63 | 118 | |
| EP075(SIM): Benz(a)anthracene | 56-55-3 | 1 | µg/L | <1.0 | 5 µg/L | 91.8 | 64 | 117 | |
| EP075(SIM): Chrysene | 218-01-9 | 1 | µg/L | <1.0 | 5 µg/L | 88.6 | 63 | 116 | |

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| Sub-Matrix: WATER | | | | Method Blank (MB) Report | Laboratory Control Spike (LCS) Report | | | |
|---|----------------------|-----|------|--------------------------|---------------------------------------|------------------------|---------------------|-----|
| Method/Compound | CAS Number | LOR | Unit | | Spike Concentration | Spike Recovery (%) LCS | Recovery Limits (%) | |
| | | | | Result | | Low | High | |
| EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 1882905) - continued | | | | | | | | |
| EP075(SIM): Benzo(b+)fluoranthene | 205-99-2 205-82-3 | 1 | µg/L | <1.0 | 5 µg/L | 91.4 | 62 | 119 |
| EP075(SIM): Benzo(k)fluoranthene | 207-08-9 | 1 | µg/L | <1.0 | 5 µg/L | 95.6 | 63 | 115 |
| EP075(SIM): Benzo(a)pyrene | 50-32-8 | 0.5 | µg/L | <0.5 | 5 µg/L | 95.7 | 63 | 117 |
| EP075(SIM): Indeno(1.2.3.cd)pyrene | 193-39-5 | 1 | µg/L | <1.0 | 5 µg/L | 97.5 | 60 | 118 |
| EP075(SIM): Dibenz(a,h)anthracene | 53-70-3 | 1 | µg/L | <1.0 | 5 µg/L | 93.9 | 61 | 117 |
| EP075(SIM): Benzo(g,h,i)perylene | 191-24-2 | 1 | µg/L | <1.0 | 5 µg/L | 90.8 | 59 | 118 |
| EP080/071: Total Petroleum Hydrocarbons (QCLot: 1882906) | | | | | | | | |
| EP071: C10 - C14 Fraction | --- | 50 | µg/L | <50 | 2000 µg/L | 92.6 | 76 | 116 |
| EP071: C15 - C28 Fraction | --- | 100 | µg/L | <100 | 3000 µg/L | 92.8 | 83 | 109 |
| EP071: C29 - C36 Fraction | --- | 50 | µg/L | <50 | 2000 µg/L | 83.7 | 75 | 113 |
| EP080/071: Total Petroleum Hydrocarbons (QCLot: 1885653) | | | | | | | | |
| EP080: C6 - C9 Fraction | --- | 20 | µg/L | <20 | 260 µg/L | 103 | 75 | 127 |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 1882906) | | | | | | | | |
| EP071: >C10 - C16 Fraction | --- | 100 | µg/L | <100 | 2500 µg/L | 88.8 | 76 | 114 |
| EP071: >C16 - C34 Fraction | --- | 100 | µg/L | <100 | 3500 µg/L | 86.2 | 81 | 111 |
| EP071: >C34 - C40 Fraction | --- | 100 | µg/L | <100 | 1500 µg/L | 79.4 | 77 | 119 |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 1885653) | | | | | | | | |
| EP080: C6 - C10 Fraction | C6_C10 | 20 | µg/L | <20 | 310 µg/L | 104 | 75 | 127 |
| EP080: BTEXN (QCLot: 1885653) | | | | | | | | |
| EP080: Benzene | 71-43-2 | 1 | µg/L | <1 | 10 µg/L | 114 | 70 | 122 |
| EP080: Toluene | 108-88-3 | 2 | µg/L | <2 | 10 µg/L | 106 | 69 | 123 |
| EP080: Ethylbenzene | 100-41-4 | 2 | µg/L | <2 | 10 µg/L | 107 | 70 | 120 |
| EP080: meta- & para-Xylene | 108-38-3 106-42-3 | 2 | µg/L | <2 | 10 µg/L | 106 | 69 | 121 |
| EP080: ortho-Xylene | 95-47-6 | 2 | µg/L | <2 | 10 µg/L | 109 | 72 | 122 |
| EP080: Naphthalene | 91-20-3 | 5 | µg/L | <5 | 10 µg/L | 102 | 70 | 120 |

Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

| Sub-Matrix: WATER | | | | Matrix Spike (MS) Report | | | |
|--|------------------|-------------------|------------|--------------------------|----------------------|---------------------|------|
| Laboratory sample ID | Client sample ID | Method/Compound | CAS Number | Spike Concentration | Spike Recovery(%) MS | Recovery Limits (%) | |
| | | | | | | Low | High |
| EG020F: Dissolved Metals by ICP-MS (QCLot: 1886713) | | | | | | | |
| ES1824156-001 | Anonymous | EG020A-F: Arsenic | 7440-38-2 | 1 mg/L | 86.8 | 70 | 130 |
| | | EG020A-F: Cadmium | 7440-43-9 | 0.25 mg/L | 87.7 | 70 | 130 |

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| Sub-Matrix: WATER | | | | Matrix Spike (MS) Report | | | |
|---|------------------|----------------------------|------------|--------------------------|---------------------|---------------------|------|
| | | | | Spike Concentration | SpikeRecovery(%) MS | Recovery Limits (%) | |
| Laboratory sample ID | Client sample ID | Method: Compound | CAS Number | Concentration | MS | Low | High |
| EG020F: Dissolved Metals by ICP-MS (QCLot: 1886713) - continued | | | | | | | |
| ES1824156-001 | Anonymous | EG020A-F: Chromium | 7440-47-3 | 1 mg/L | 86.1 | 70 | 130 |
| | | EG020A-F: Copper | 7440-50-8 | 1 mg/L | 85.0 | 70 | 130 |
| | | EG020A-F: Lead | 7439-92-1 | 1 mg/L | 85.2 | 70 | 130 |
| | | EG020A-F: Nickel | 7440-02-0 | 1 mg/L | 85.7 | 70 | 130 |
| | | EG020A-F: Zinc | 7440-66-6 | 1 mg/L | 83.2 | 70 | 130 |
| EG035F: Dissolved Mercury by FIMS (QCLot: 1886714) | | | | | | | |
| ES1824156-001 | Anonymous | EG035F: Mercury | 7439-97-6 | 0.01 mg/L | 94.2 | 70 | 130 |
| EP080/071: Total Petroleum Hydrocarbons (QCLot: 1885653) | | | | | | | |
| ES1824156-001 | Anonymous | EP080: C6 - C9 Fraction | --- | 325 µg/L | 103 | 70 | 130 |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 1885653) | | | | | | | |
| ES1824156-001 | Anonymous | EP080: C6 - C10 Fraction | C6_C10 | 375 µg/L | 103 | 70 | 130 |
| EP080: BTEXN (QCLot: 1885653) | | | | | | | |
| ES1824156-001 | Anonymous | EP080: Benzene | 71-43-2 | 25 µg/L | 106 | 70 | 130 |
| | | EP080: Toluene | 108-88-3 | 25 µg/L | 102 | 70 | 130 |
| | | EP080: Ethylbenzene | 100-41-4 | 25 µg/L | 102 | 70 | 130 |
| | | EP080: meta- & para-Xylene | 108-38-3 | 25 µg/L | 101 | 70 | 130 |
| | | | 106-42-3 | | | | |
| | | EP080: ortho-Xylene | 95-47-6 | 25 µg/L | 103 | 70 | 130 |
| | | EP080: Naphthalene | 91-20-3 | 25 µg/L | 99.9 | 70 | 130 |



QA/QC Compliance Assessment to assist with Quality Review

| | | | |
|--------------|--------------------------------------|-------------------------|---------------------------------|
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| Client | : TRACE ENVIRONMENTAL PTY LTD | Laboratory | : Environmental Division Sydney |
| Contact | : MR JACK ELLIS | Telephone | : +61-2-8784 8555 |
| Project | : ---- | Date Samples Received | : 17-Aug-2018 |
| Site | : ---- | Issue Date | : 23-Aug-2018 |
| Sampler | : ---- | No. of samples received | : 1 |
| Order number | : | No. of samples analysed | : 1 |

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers : Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- **NO Method Blank value outliers occur.**
- **NO Duplicate outliers occur.**
- **NO Laboratory Control outliers occur.**
- **NO Matrix Spike outliers occur.**
- **For all regular sample matrices, NO surrogate recovery outliers occur.**

Outliers : Analysis Holding Time Compliance

- **NO Analysis Holding Time Outliers exist.**

Outliers : Frequency of Quality Control Samples

- **Quality Control Sample Frequency Outliers exist - please see following pages for full details.**

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 Client : TRACE ENVIRONMENTAL PTY LTD
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Outliers : Frequency of Quality Control Samples

Matrix: WATER

| Quality Control Sample Type Method | Count | | Rate (%) | | Quality Control Specification |
|---------------------------------------|-------|---------|----------|----------|--------------------------------|
| | QC | Regular | Actual | Expected | |
| Laboratory Duplicates (DUP) | | | | | |
| PAH/Phenols (GC/MS - SIM) | 0 | 13 | 0.00 | 10.00 | NEPM 2013 B3 & ALS QC Standard |
| TRH - Semivolatile Fraction | 0 | 20 | 0.00 | 10.00 | NEPM 2013 B3 & ALS QC Standard |
| Matrix Spikes (MS) | | | | | |
| PAH/Phenols (GC/MS - SIM) | 0 | 13 | 0.00 | 5.00 | NEPM 2013 B3 & ALS QC Standard |
| TRH - Semivolatile Fraction | 0 | 20 | 0.00 | 5.00 | NEPM 2013 B3 & ALS QC Standard |

Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results. This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein. Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 29 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters. Holding times for VOC in soils vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive or Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: WATER

Evaluation: * = Holding time breach ; ✓ = Within holding time.

| Method Container / Client Sample ID(s) | Sample Date | Extraction / Preparation | | | Analysis | | |
|--|-------------|--------------------------|--------------------|------------|---------------|------------------|------------|
| | | Date extracted | Due for extraction | Evaluation | Date analysed | Due for analysis | Evaluation |
| EG020F: Dissolved Metals by ICP-MS | | | | | | | |
| Clear Plastic Bottle - Nitric Acid; Filtered (EG020A-F) QW1A | 13-Aug-2018 | --- | --- | --- | 21-Aug-2018 | 09-Feb-2019 | ✓ |
| EG035F: Dissolved Mercury by FIMS | | | | | | | |
| Clear Plastic Bottle - Nitric Acid; Filtered (EG035F) QW1A | 13-Aug-2018 | --- | --- | --- | 21-Aug-2018 | 10-Sep-2018 | ✓ |
| EP075(SIM)A: Phenolic Compounds | | | | | | | |
| Amber Glass Bottle - Unpreserved (EP075(SIM)) QW1A | 13-Aug-2018 | 20-Aug-2018 | 20-Aug-2018 | ✓ | 22-Aug-2018 | 29-Sep-2018 | ✓ |
| EP075(SIM)B: Polynuclear Aromatic Hydrocarbons | | | | | | | |
| Amber Glass Bottle - Unpreserved (EP075(SIM)) QW1A | 13-Aug-2018 | 20-Aug-2018 | 20-Aug-2018 | ✓ | 22-Aug-2018 | 29-Sep-2018 | ✓ |
| EP080/071: Total Petroleum Hydrocarbons | | | | | | | |
| Amber Glass Bottle - Unpreserved (EP071) QW1A | 13-Aug-2018 | 20-Aug-2018 | 20-Aug-2018 | ✓ | 22-Aug-2018 | 29-Sep-2018 | ✓ |
| Clear glass VOC vial - HCl (EP080) QW1A | 13-Aug-2018 | 22-Aug-2018 | 27-Aug-2018 | ✓ | 22-Aug-2018 | 27-Aug-2018 | ✓ |
| EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions | | | | | | | |
| Amber Glass Bottle - Unpreserved (EP071) QW1A | 13-Aug-2018 | 20-Aug-2018 | 20-Aug-2018 | ✓ | 22-Aug-2018 | 29-Sep-2018 | ✓ |
| Clear glass VOC vial - HCl (EP080) QW1A | 13-Aug-2018 | 22-Aug-2018 | 27-Aug-2018 | ✓ | 22-Aug-2018 | 27-Aug-2018 | ✓ |

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Matrix: **WATER** Evaluation: * = Holding time breach ; ✓ = Within holding time.

| Method | Sample Date | Extraction / Preparation | | | Analysis | | |
|------------------------------------|-------------|--------------------------|--------------------|------------|---------------|------------------|------------|
| | | Date extracted | Due for extraction | Evaluation | Date analysed | Due for analysis | Evaluation |
| EP080: BTEXN | | | | | | | |
| Clear glass VOC vial - HCl (EP080) | | | | | | | |
| QW1A | 13-Aug-2018 | 22-Aug-2018 | 27-Aug-2018 | ✓ | 22-Aug-2018 | 27-Aug-2018 | ✓ |

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Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(were) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

Matrix: **WATER**

Evaluation: ✖ = Quality Control frequency not within specification ; ✔ = Quality Control frequency within specification.

| Quality Control Sample Type | Method | Count | | Rate (%) | | Evaluation | Quality Control Specification |
|---|------------|-------|---------|----------|----------|------------|--------------------------------|
| | | QC | Regular | Actual | Expected | | |
| Laboratory Duplicates (DUP) | | | | | | | |
| Dissolved Mercury by FIMS | EG035F | 2 | 20 | 10.00 | 10.00 | ✔ | NEPM 2013 B3 & ALS QC Standard |
| Dissolved Metals by ICP-MS - Suite A | EG020A-F | 2 | 20 | 10.00 | 10.00 | ✔ | NEPM 2013 B3 & ALS QC Standard |
| PAH/Phenols (GC/MS - SIM) | EP075(SIM) | 0 | 13 | 0.00 | 10.00 | ✖ | NEPM 2013 B3 & ALS QC Standard |
| TRH - Semivolatile Fraction | EP071 | 0 | 20 | 0.00 | 10.00 | ✖ | NEPM 2013 B3 & ALS QC Standard |
| TRH Volatiles/BTEX | EP080 | 2 | 20 | 10.00 | 10.00 | ✔ | NEPM 2013 B3 & ALS QC Standard |
| Laboratory Control Samples (LCS) | | | | | | | |
| Dissolved Mercury by FIMS | EG035F | 1 | 20 | 5.00 | 5.00 | ✔ | NEPM 2013 B3 & ALS QC Standard |
| Dissolved Metals by ICP-MS - Suite A | EG020A-F | 1 | 20 | 5.00 | 5.00 | ✔ | NEPM 2013 B3 & ALS QC Standard |
| PAH/Phenols (GC/MS - SIM) | EP075(SIM) | 1 | 13 | 7.69 | 5.00 | ✔ | NEPM 2013 B3 & ALS QC Standard |
| TRH - Semivolatile Fraction | EP071 | 1 | 20 | 5.00 | 5.00 | ✔ | NEPM 2013 B3 & ALS QC Standard |
| TRH Volatiles/BTEX | EP080 | 1 | 20 | 5.00 | 5.00 | ✔ | NEPM 2013 B3 & ALS QC Standard |
| Method Blanks (MB) | | | | | | | |
| Dissolved Mercury by FIMS | EG035F | 1 | 20 | 5.00 | 5.00 | ✔ | NEPM 2013 B3 & ALS QC Standard |
| Dissolved Metals by ICP-MS - Suite A | EG020A-F | 1 | 20 | 5.00 | 5.00 | ✔ | NEPM 2013 B3 & ALS QC Standard |
| PAH/Phenols (GC/MS - SIM) | EP075(SIM) | 1 | 13 | 7.69 | 5.00 | ✔ | NEPM 2013 B3 & ALS QC Standard |
| TRH - Semivolatile Fraction | EP071 | 1 | 20 | 5.00 | 5.00 | ✔ | NEPM 2013 B3 & ALS QC Standard |
| TRH Volatiles/BTEX | EP080 | 1 | 20 | 5.00 | 5.00 | ✔ | NEPM 2013 B3 & ALS QC Standard |
| Matrix Spikes (MS) | | | | | | | |
| Dissolved Mercury by FIMS | EG035F | 1 | 20 | 5.00 | 5.00 | ✔ | NEPM 2013 B3 & ALS QC Standard |
| Dissolved Metals by ICP-MS - Suite A | EG020A-F | 1 | 20 | 5.00 | 5.00 | ✔ | NEPM 2013 B3 & ALS QC Standard |
| PAH/Phenols (GC/MS - SIM) | EP075(SIM) | 0 | 13 | 0.00 | 5.00 | ✖ | NEPM 2013 B3 & ALS QC Standard |
| TRH - Semivolatile Fraction | EP071 | 0 | 20 | 0.00 | 5.00 | ✖ | NEPM 2013 B3 & ALS QC Standard |
| TRH Volatiles/BTEX | EP080 | 1 | 20 | 5.00 | 5.00 | ✔ | NEPM 2013 B3 & ALS QC Standard |

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 Project : —



Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

| Analytical Methods | Method | Matrix | Method Descriptions |
|---|------------|--------|---|
| Dissolved Metals by ICP-MS - Suite A | EG020A-F | WATER | In house: Referenced to APHA 3125; USEPA SW846 - 6020, ALS QWI-EN/EG020. Samples are 0.45µm filtered prior to analysis. The ICPMS technique utilizes a highly efficient argon plasma to ionize selected elements. Ions are then passed into a high vacuum mass spectrometer, which separates the analytes based on their distinct mass to charge ratios prior to their measurement by a discrete dynode ion detector. |
| Dissolved Mercury by FIMS | EG035F | WATER | In house: Referenced to AS 3550, APHA 3112 Hg - B (Flow-injection (SnCl ₂)(Cold Vapour generation) AAS) Samples are 0.45µm filtered prior to analysis. FIM-AAS is an automated flameless atomic absorption technique. A bromate/bromide reagent is used to oxidise any organic mercury compounds in the filtered sample. The ionic mercury is reduced online to atomic mercury vapour by SnCl ₂ which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM (2013) Schedule B(3) |
| TRH - Semivolatile Fraction | EP071 | WATER | In house: Referenced to USEPA SW 846 - 8015A The sample extract is analysed by Capillary GC/FID and quantification is by comparison against an established 5 point calibration curve of n-Alkane standards. This method is compliant with the QC requirements of NEPM (2013) Schedule B(3) |
| PAH/Phenols (GC/MS - SIM) | EP075(SIM) | WATER | In house: Referenced to USEPA SW 846 - 8270D Sample extracts are analysed by Capillary GC/MS in SIM Mode and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM (2013) Schedule B(3) |
| TRH Volatiles/BTEX | EP080 | WATER | In house: Referenced to USEPA SW 846 - 8260B Water samples are directly purged prior to analysis by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. Alternatively, a sample is equilibrated in a headspace vial and a portion of the headspace determined by GCMS analysis. This method is compliant with the QC requirements of NEPM (2013) Schedule B(3) |
| Preparation Methods | Method | Matrix | Method Descriptions |
| Separatory Funnel Extraction of Liquids | ORG14 | WATER | In house: Referenced to USEPA SW 846 - 3510B 100 mL to 1L of sample is transferred to a separatory funnel and serially extracted three times using 60mL DCM for each extract. The resultant extracts are combined, dehydrated and concentrated for analysis. This method is compliant with NEPM (2013) Schedule B(3) . ALS default excludes sediment which may be resident in the container. |
| Volatiles Water Preparation | ORG16-W | WATER | A 5 mL aliquot or 5 mL of a diluted sample is added to a 40 mL VOC vial for sparging. |


Environmental
SAMPLE RECEIPT NOTIFICATION (SRN)
Work Order : ES1824306

| | | | |
|-----------------------|---|-----------------------|--|
| Client : | TRACE ENVIRONMENTAL PTY LTD | Laboratory : | Environmental Division Sydney |
| Contact : | MR JACK ELLIS | Contact : | Customer Services ES |
| Address : | Shop 2 793-799 New Canterbury Road Dulwich Hill NSW 2203 | Address : | 277-289 Woodpark Road Smithfield NSW Australia 2164 |
| E-mail : | jack@traceenviro.com | E-mail : | ALSEnviro.Sydney@alsglobal.com |
| Telephone : | --- | Telephone : | +61-2-8784 8555 |
| Facsimile : | --- | Facsimile : | +61-2-8784 8500 |
| Project : | --- | Page : | 1 of 2 |
| Order number : | --- | Quote number : | ES2018TRAENV0003 (EN/222/17 (Sydney Batches)) |
| C-O-C number : | --- | QC Level : | NEPM 2013 B3 & ALS QC Standard |
| Site : | --- | | |
| Sampler : | --- | | |

Dates

| | | | |
|------------------------------------|--------------------------|-----------------------------------|--------------------|
| Date Samples Received : | 17-Aug-2018 15:00 | Issue Date : | 18-Aug-2018 |
| Client Requested Due Date : | 24-Aug-2018 | Scheduled Reporting Date : | 24-Aug-2018 |

Delivery Details

| | | | |
|-------------------------------|----------------|---|----------------------------|
| Mode of Delivery : | Carrier | Security Seal : | Not Available |
| No. of coolers/boxes : | 1 | Temperature : | 6.5°C - Ice present |
| Receipt Detail : | --- | No. of samples received / analysed : | 1 / 1 |

General Comments

- This report contains the following information:
 - Sample Container(s)/Preservation Non-Compliances
 - Summary of Sample(s) and Requested Analysis
 - Proactive Holding Time Report
 - Requested Deliverables
- **Please refer to the Proactive Holding Time Report table below which summarises breaches of recommended holding times that have occurred prior to samples/instructions being received at the laboratory. The absence of this summary table indicates that all samples have been received within the recommended holding times for the analysis requested.**
- Please direct any queries you have regarding this work order to the above ALS laboratory contact.
- Analytical work for this work order will be conducted at ALS Sydney.
- Sample Disposal - Aqueous (3 weeks), Solid (2 months) from receipt of samples.

 RIGHT SOLUTIONS | RIGHT PARTNER

Issue Date : 18-Aug-2018
 Page : 2 of 2
 Work Order : ES1824306 Amendment 0
 Client : TRACE ENVIRONMENTAL PTY LTD



Sample Container(s)/Preservation Non-Compliances

All comparisons are made against pretreatment/preservation AS, APHA, USEPA standards.

- No sample container / preservation non-compliance exists.

Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package.

If no sampling time is provided, the sampling time will default 00:00 on the date of sampling. If no sampling date is provided, the sampling date will be assumed by the laboratory and displayed in brackets without a time component

Matrix: **WATER**

| Laboratory sample ID | Client sampling date / time | Client sample ID | WATER - WZ7 TRHBTXNUPHPhenols8 Metals |
|----------------------|-----------------------------|------------------|--|
| ES1824306-001 | 13-Aug-2018 00:00 | QW1A | ✓ |

Proactive Holding Time Report

Sample(s) have been received within the recommended holding times for the requested analysis.

Requested Deliverables

- | | | |
|--|-------|--------------------------|
| ACCOUNTS | | |
| - A4 - AU Tax Invoice (INV) | Email | accounts@traceenviro.com |
| ANDREW KITA | | |
| - A4 - AU Tax Invoice (INV) | Email | andrew@traceenviro.com |
| JACK ELLIS | | |
| - *AU Certificate of Analysis - NATA (COA) | Email | jack@traceenviro.com |
| - *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI) | Email | jack@traceenviro.com |
| - *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC) | Email | jack@traceenviro.com |
| - A4 - AU Sample Receipt Notification - Environmental HT (SRN) | Email | jack@traceenviro.com |
| - A4 - AU Tax Invoice (INV) | Email | jack@traceenviro.com |
| - Chain of Custody (CoC) (COC) | Email | jack@traceenviro.com |
| - EDI Format - XTab (XTAB) | Email | jack@traceenviro.com |
| KEN HENDERSON | | |
| - *AU Certificate of Analysis - NATA (COA) | Email | ken@traceenviro.com |
| - *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI) | Email | ken@traceenviro.com |
| - *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC) | Email | ken@traceenviro.com |
| - A4 - AU Sample Receipt Notification - Environmental HT (SRN) | Email | ken@traceenviro.com |
| - A4 - AU Tax Invoice (INV) | Email | ken@traceenviro.com |
| - Chain of Custody (CoC) (COC) | Email | ken@traceenviro.com |
| - EDI Format - XTab (XTAB) | Email | ken@traceenviro.com |



Appendix I

QA/QC

Summary &

Calibration

Certificates

Appendix I – Quality Assurance/Quality Control Program

1.1 Field QA Procedures

To ensure that the data obtained meets the DQIs of precision, accuracy, representativeness, completeness and comparability, the following field procedures and QA measures were implemented as part of the investigation fieldwork:

- Field staff undertaking the fieldwork were appropriately qualified and experienced;
- Locations of sampling points were appropriately determined prior to conducting fieldworks to ensure adequate site characterisation, and based on a review of site history;
- Field documentation included the completion of standard field forms including Daily Field Reports documenting the field activities undertaken throughout each day in the field, gauging sheets and purging logs and the use of Chain of Custody (COC) documentation for all field samples;
- Field instruments were maintained in good order and appropriately calibrated and/or challenged in accordance with the manufacturer's instructions prior to conducting fieldworks;
- Soil samples were collected in laboratory supplied washed / certified clean glass 250 mL glass jars with Teflon lined lids. Waterproof labels were affixed to the body of the jars, and included the job number, unique sample identification, and date of sample collection
- Groundwater samples were collected in laboratory washed / certified bottles appropriate for the analytes tested. Waterproof labels were affixed to the body of the jars, and included the job number, unique sample identification, and date of sample collection;
- Sampling was done in a manner to ensure that any volatile organic compound (VOC) losses were minimal. Immediately after each sample was collected, the vial was sealed with zero headspace to prevent any VOC losses;
- In accordance with AS 4482.1 (2005), soil and groundwater samples were stored in a cool esky containing ice immediately after collection;
- Samples were submitted to the laboratory immediately following fieldwork to ensure that sample holding times could be met. Primary and QA/QC samples were analysed by NATA accredited laboratories by the appropriate analytical methods and LORs; and
- Reusable sampling equipment was decontaminated between sampling locations and new gloves were worn for the collection of each sample to prevent cross contamination.

1.2 Field QA/QC Data Evaluation

1.2.1 Replicate Samples

A QC blind duplicate sample is a sub-sample of the parent sample taken in the field and submitted to the primary laboratory for analysis to enable measurement of the overall precision of the sampling procedure (how representative the result is of the true field conditions) and the precision of the laboratory analytical methods. A QC blind triplicate sample is also a sub-sample of the parent sample taken in the field, but this sample is submitted to a secondary laboratory for analysis to enable assessment of the accuracy of the analytical results between different laboratories.

The primary laboratory for soil and groundwater analyses was Eurofins-mgt in Lane Cove, NSW. The intra-laboratory duplicates were also analysed by Eurofins-mgt. The inter-laboratory duplicates were analysed by ALS Environmental in Smithfield, NSW.

1.2.2 Soil and Groundwater Replicate Data

The soil and groundwater duplicate and triplicate samples collected during the site validation works, and submitted for laboratory testing, are shown in **Table I-1**, below.

Table I-1: Soil and Groundwater Duplicate/Triplicate Summary

| Parent Sample | Date | Blind Duplicate | Blind Triplicate | Analysis |
|---------------|----------------|-----------------|------------------|-------------------------------------|
| SB11-0.75 | 10 August 2018 | QS1 | QS1A | TPH/TRH, BTEX, PAH, metals |
| SB19-2.5 | 8 August 2018 | QS2 | QS2A | TPH/TRH, BTEX, PAH, metals |
| SB22-6.0 | 13 August 2018 | QS3 | QS3A | TPH/TRH, BTEX, PAH, metals |
| SB13-0.2 | 13 August 2018 | QA1 | QA1A | Asbestos |
| SB6-0.2 | 14 August 2018 | QA2 | QA2A | Asbestos |
| MW-2 | 15 August 2018 | QW1 | QW1A | TPH/TRH, BTEX, PAH, metals, phenols |

In total, 87 primary soil samples were analysed for the COPCs at the site, equating to a frequency of one soil duplicate/triplicate per 19 samples.

In total, four primary groundwater samples were collected during the GME, equating to a frequency of one duplicate/triplicate groundwater sample per four primary samples.

In order to evaluate the data obtained for the replicate samples, the RPD between replicate and parent samples is calculated using the following equation.

$$\text{Relative Percentage Difference} = \frac{X' - X^2}{\frac{X' + X^2}{2}} \times 100$$

Standards AS 4482.1-1997, AS 4482.2-1999, AS/NZ 5667.1-1998, AS/NZ 5667.11-1998 and NEPM (2013) state that replicate and original sample RPDs should generally be within 30%. However, this variation can be expected to be higher for organic compounds than for inorganics. In addition, greater variation is observed where low concentrations of analytes are present. Therefore, the following RPD acceptance criteria were adopted during this DSI:

- Inorganics – 30% RPD;
- Organics – 50% RPD; and
- If primary and/or duplicate concentration $< 10 \times \text{LOR}$ – No Limit.

If replicate RPDs are determined to be outside this range, the reasons and potential impact on site data validity are discussed.

As shown on **Tables 11 and 13**, the RPD between the primary and duplicate/triplicate soil and groundwater samples were within the acceptable ranges.

1.2.3 Trip Blank/Trip Spike

Trip blank and trip spike samples were prepared and transported with primary samples to ensure cross contamination of samples has not occurred during transportation of the samples for the soil and groundwater sampling events.

The trip spike/trip blank analytical results are summarised in **Table 12**. No COPCs were detected at concentrations above the laboratory LORs in any of the trip blanks analysed during the works. The trip spike recoveries were found to be in acceptable ranges for all samples.

1.2.4 Rinsate

The use of rinsate blank samples enables the assessment of potential cross-contamination of the samples during the field handling and are collected during field decontamination procedures by rinsing decontaminated equipment with clean deionised water. Detection of contaminants in a rinsate sample may indicate cross-contamination between sampling locations

One rinsate water sample was submitted for each day of soil sampling, with the exception of soil sampling completed 9 and 10 August 2018 (see below for further details), with analysis of rinsate water associated with the decontaminated hand auger. The rinsate analytical results are summarised in **Table 12**. COPCs were not detected at concentrations exceeding the laboratory LORs in any of the rinsate blanks, indicating the potential for cross contamination of samples from decontaminated equipment was low and decontamination between sampling locations was adequate for the remaining COPCs.

Additionally, given the nature of material encountered in soil bores advanced at the site (i.e. fill), the observed anthropogenic material (i.e. bricks and concrete) and the absence of COPC concentrations reported above laboratory LORs in natural soil samples collected on 9 and 10 August 2018, the reported COPC concentrations in soil samples collected on 9 and 10 August are likely to be representative of soil conditions at the site. Therefore, the absence of rinsate blanks during field works completed on 9 and 10 August 2018 is considered unlikely to affect the interpretation of results and the outcomes of this DSI.

No reusable sampling equipment was used during the groundwater sampling as samples were collected using disposable, single use sampling equipment. Therefore, no rinsate samples were collected during the GME.

1.2.5 Sample Holding Times

Holding times are the length of time a sample can be stored after collection and prior to analysis without significantly affecting the analytical results. Holding times vary with the analyte, sample matrix, and analytical methodology used to quantify the analytes concentration. A review of the laboratory analytical reports indicates that all soil and groundwater samples were extracted and/or analysed within the appropriate holding times.

1.2.6 Sample Integrity

The COCs and sample receipt documentation received with each sample batch is included with the laboratory reports (**Appendix H**). A review of this documentation indicates that samples were received at the primary and secondary laboratories at appropriate temperatures. Samples for VOC analysis were received in airtight sample containers and with no headspace remaining.

1.2.7 Sample Containers

A review of the laboratory reports (**Appendix H**) indicates all soil and groundwater samples were submitted to the laboratory in the appropriate containers.

2 Laboratory QA/QC Data Evaluation

The chosen analytical laboratories undertake internal QA/QC procedures that include the analysis of method blanks, internal duplicate samples, laboratory control samples, matrix spikes and surrogate recovery. Additionally, laboratory QA/QC procedures include sample receipt, logging, storage, preservation and analysis within the method specified holding time, and samples were received and stored appropriately, and all samples were analysed within the specified holding time. A review of the laboratory QA/QC procedures indicated that laboratory QA/QC samples percent recoveries were within specified ranges for all samples, with the exception of those discussed below. A review of the identified laboratory QA/QC exceedance indicated that these are not considered to affect the interpretation of results or the outcome of the DSI and are justified below.

Soil Investigation

- Report 612025-S:
 - One matrix spike recovery was outside of the recommended acceptance criteria for lead. An acceptable recovery was obtained for the laboratory control sample indicating a sample matrix interference.

3 Data Useability

The data validation procedure employed in the assessment of the field and laboratory QA/QC data indicated that the reported analytical results are representative of the conditions at the sample locations and that the analytical data can be relied upon for the purpose of the site assessment. It is concluded that overall the quality of the analytical data produced is reliable for the purpose of this DSI.

Gas Calibration Certificate



Air-Met Scientific Pty Ltd
1300 137 067

Instrument: MX6
Serial No.: 12091J1-019
Sensors: O2, PID, LEL

| Item | Test | Pass | Comments | | | |
|---------------|----------------------|------|----------|--------|-------|-------|
| Battery | Charge Condition | ✓ | | | | |
| | Fuses | ✓ | | | | |
| | Capacity | ✓ | | | | |
| | Recharge OK? | ✓ | | | | |
| Switch/keypad | Operation | ✓ | | | | |
| Display | Intensity | ✓ | | | | |
| | Operation (segments) | ✓ | | | | |
| Grill Filter | Condition | ✓ | | | | |
| | Seal | ✓ | | | | |
| Pump | Operation | N/A | | | | |
| | Filter | N/A | | | | |
| | Flow | N/A | | | | |
| | Valves, Diaphragm | N/A | | | | |
| PCB | Condition | ✓ | | | | |
| Connectors | Condition | ✓ | | | | |
| Sensor | | | Low | High | TWA | STEL |
| | | | 19.5% | 23.5% | N/A | N/A |
| | | | 50ppm | 100ppm | 10ppm | 25ppm |
| | | | 5% | 10.00% | N/A | N/A |
| Alarms | Beeper | ✓ | | | | |
| | Settings | ✓ | | | | |
| Software | Version | | | | | |
| Datalogger | Operation | ✓ | | | | |
| Download | Operation | ✓ | | | | |
| Other tests: | | | | | | |

Certificate of Calibration

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

| Diffusion mode | Aspirated mode | | | | |
|----------------|----------------|-----------------------------------|-----------|---------------|--------------------|
| Sensor | Serial no | Calibration gas and concentration | Certified | Gas bottle No | Instrument Reading |
| O2 | | 20.90% | | Fresh Air | 20.8% |
| PID | | 98ppm | NATA | SY137 | 96.3ppm |
| LEL | | 50% LEL Methane | NATA | SY174 | 48% |

Calibrated by: *Sarah Lian* Sarah Lian

Calibration date: 07-Aug-18

Next calibration due: 03-Feb-19

Multi Parameter Water Meter



Air-Met Scientific Pty Ltd
1300 137 067

Instrument: YSI Quatro Pro Plus
Serial No.: 10H100317

| Item | Test | Pass | Comments |
|---------------|------------------|------|----------|
| Battery | Charge Condition | ✓ | |
| | Fuses | ✓ | |
| | Capacity | ✓ | |
| Switch/keypad | Operation | ✓ | |
| | Intensity | ✓ | |
| Display | 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 | | 320322 | pH 9.35 |
| 1. pH 7.00 | | pH 7.00 | | 307928 | pH 6.89 |
| 2. pH 4.00 | | pH 4.00 | | 307927 | pH 4.32 |
| 3. mV | | 234mV | | 311901/311902 | 234mV |
| 4. EC | | 2.76mS | | 306341 | 2.77mS |
| 5. D.O | | 0.00ppm | | 5656 | 0.04ppm |
| 6. Temp | | 20.7°C | | MultiTherm | 20.2°C |

Calibrated by: *Sarah Lian* Sarah Lian

Calibration date: 6/08/2018

Next calibration due: 5/09/2018