Health Infrastructure

Detailed Site Investigation

Mental Health Unit and Emergency Department
Broken Hill Hospital
Broken Hill, NSW

20 October 2023

63879/150471 Rev 1

JBS&G Australia Pty Ltd

www.jbsg.com.au

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Table of Contents

Abbreviations vii

Executive Summary viii

1. Introduction and Background 1
   - 1.1 Introduction 1
   - 1.2 Objectives 1
   - 1.3 Scope of Works 1

2. Site Condition and Surrounding Environment 3
   - 2.1 Site Identification 3
   - 2.2 Site Description 3
   - 2.3 Surrounding Land Use 3
   - 2.4 Topography 4
   - 2.5 Geology and Soils 4
   - 2.6 Acid Sulfate Soils 4
   - 2.7 Salinity 4
   - 2.8 Hydrology 5
   - 2.9 Hydrogeology 5
   - 2.10 Meteorology 5

3. Site History 7
   - 3.1 Historical Land Title Information 7
   - 3.2 Historical Aerial Imagery 7
   - 3.3 Council Planning Certificates 9
   - 3.4 NSW EPA Records 10
   - 3.5 Australian and NSW Heritage Register 10
   - 3.6 Historical and Current Business Directories 10
   - 3.7 Fair Trading NSW Properties Affected by Loose Fill Asbestos Insulation 11
   - 3.8 Dangerous Goods Search 11
   - 3.9 Integrity Assessment 11
   - 3.10 Previous Investigations 11
     - 3.10.1 Asbestos Register – Broken Hill Health Service (FWLHD 2015) Asbestos Register 11
     - 3.10.2 Broken Hill Hazardous Material Survey (GHD 2016) 12

4. Preliminary Conceptual Site Model 13
   - 4.1 Potential Areas of Environmental Concern 13
   - 4.2 Potentially Contaminated Media 13
   - 4.3 Potential for Migration from Site 14
   - 4.4 Potential Human and Ecological Receptors and Exposure Pathways 14

4.5 Preferential Pathways 15
5. Data Quality Objectives 16
5.1 Data Quality Objectives 16
5.1.1 State the Problem 16
5.1.2 Identify the Decision 16
5.1.3 Identify Inputs to the Decision 16
5.1.4 Define the Study Boundaries 17
5.1.5 Develop a Decision Rule 17
5.1.6 Specify the Limits on Decision Error 17
5.1.7 Optimise the Design for Obtaining the Data 19
5.2 Assessment Methodology 20
5.2.1 Soil Assessment 20
5.2.2 Groundwater Assessment 21
5.3 Analytical Methodology 22
6. Assessment Criteria 24
6.1 Regulatory Guidelines 24
6.2 Soil Assessment Criteria Selection 24
6.3 Preliminary Waste Classification for Off-site Disposal 25
6.4 Groundwater Investigation Levels 25
7. Quality Assurance /Quality Control 27
7.1 Discussion of QA/QC Results 28
7.1.1 Precision 28
7.1.1 Accuracy 28
7.1.2 Representativeness 29
7.1.3 Comparability 30
7.1.4 Completeness 30
7.1.5 Sensitivity 30
7.2 QA/QC Assessment 30
8. Soil Assessment 31
8.1 Field Observations 31
8.2 Field Asbestos Quantification 31
8.3 Analytical Results 31
8.3.1 Heavy Metals 31
8.3.2 TRH and BTEX 31
8.3.1 PAHs 31
8.3.2 OCP/PCBs 31
8.3.3 Asbestos 32
8.4 Preliminary Waste Classification 32

9. Groundwater Assessment 33
9.1 Field Observations and Field Measured Parameters 33
9.2 Groundwater Analytical Results 33
9.2.1 Heavy Metals 33
9.2.2 PAHs 34
9.2.3 TRH and BTEX 34
9.2.4 Volatile Organic Compounds 34
9.2.5 PFAS 34
10. Site Characterisation 35
10.1 Are there any unacceptable risks to likely future onsite receptors from soils? 35
10.2 Are there any issues relating to local area background soil concentrations that exceed the appropriate soil criteria? 35
10.3 Are there any unacceptable human health and ecological risks present in groundwater underlying the site? 35
10.4 Are there any impacts of chemical mixtures? 35
10.5 Are there any aesthetic issues at the site? 35
10.6 Is there any evidence of, or potential for, migration of contaminants from the site? 35
10.7 Is a site management strategy required? 36
11. Conclusions and Recommendations 37
11.1 Conclusions 37
11.2 Recommendations 37
12. Limitations 38

List of Figures

Figure 1 Site Location
Figure 2 Site Layout
Figure 3 Areas of Environmental Concern
Figure 4 Soil Sample Locations
Figure 5 Groundwater Sample Locations and Exceedances for PFAS and Chlorobenzenes

List of Tables

Table 2.1: Summary of Site Details 3
Table 2.2: Registered Groundwater Bore Search Summary 5
Table 3.1: Summary of Historical Land Titles 7
Table 3.2: Summary of Historical Aerial Imagery Review 7
Table 4.1: Areas of Environmental Concern and Contaminants of Potential Concern 13
Table 4.2: Summary of Potential Human Exposures 15
Table 4.1: Summary of Decision Rules 17
Table 4.2: Summary of DQIs 19
Table 5.3: Analytical Schedule 23
Table 7.1: Summary of Quality Assurance / Quality Control Assessment 27
Table 9.1: Groundwater Field Physiochemical Parameters 33
Table 9.2: Groundwater Observations 33

Appendices

Appendix A Summary Tables
Appendix B Proposed Development Plans
Appendix C Client Provided Documents
Appendix D Photographic Log
Appendix E Historical Land Titles
Appendix F Lotsearch (2022) Report
Appendix G Council Section 10.7 Certificates
Appendix H Dangerous Goods Search
Appendix I Loose Fill Asbestos Register
Appendix J Calibration records and Field Data Sheets
Appendix K Borehole Logs
Appendix L Laboratory Certificates of Analysis
Appendix M Quality Assurance/Quality Control

Abbreviations

Term	Definition
AEC	Area of Environmental Concern
AHD	Australian Height Datum
ASRIS	Australian Soil Resource Information System
ASS	Acid Sulfate Soil
AST	Above-ground storage tank
Bgl	below ground level
BTEX	benzene, toluene, ethylbenzene and xylenes
COPC	Contaminants of Potential Concern
CLM Act	Contaminated Land Management Act 1997
CSM	Conceptual site model
DG	Dangerous Goods
DP	Deposited Plan
DSI	Detailed Site Investigation
ED	Emergency Department
EPA	Environment Protection Authority
EPL	Environment Protection Licence
ESA	Environmental Site Assessment
FWLHD	Far West Local Health District
GPR	Ground Penetrating Radar
HBM	Hazardous Building Materials
HI	Health Infrastructure
JBS&G	JBS&G Australia Pty Ltd
LEP	Local Environmental Plan
MHU	Mental Health Unit
NATA	National Association of Testing Authorities
NEPC	National Environment Protection Council
NEPM	National Environment Protection Measure
OCPs	Organochlorine pesticides
ODS	Ozone Depleting Substance
PAHs	Polycyclic aromatic hydrocarbons
PCB	Polychlorinated biphenyls
PCE	Tetrachloroethene (also Perchloroethene or perchloroethylene)
PFAS	Per- and Poly-fluoroalkyl Substances
POEO Act	Protection of the Environment Operations Act 1997
PSI	Preliminary Site Investigation
R&H SEPP	State Environmental Planning Policy (Resilience and Hazards) 2021
SMF	Synthetic Material Fibres
TCE	Trichloroethene (also trichloroethylene)
TRH	Total Recoverable Hydrocarbons
VOC	Volatile Organic Compounds

Executive Summary

JBS&G Australia Pty Ltd (JBS&G) was engaged by Health Infrastructure (HI, the client) to complete a Detailed Site Investigation (DSI) for the proposed Broken Hill Hospital Redevelopment (BHHR, the site). The site is formally identified as part Lot 4376 in DP757298. The proposed redevelopment includes a new Mental Health Unit (MHU) including new courtyards/gardens and a new/expanded Emergency Department (ED) including a new ambulance drop off area (see Proposed Development Plans **Appendix B**). The overall MHU footprint is approximately 2,000 m^2 with a building footprint of 1,000 m^2 and the overall ED footprint is approximately 1,300 m^2 with a building footprint of 600 m^2. The site location and layout are shown on **Figures 1** and **2** respectively. The DSI, documented herein, has been limited to the aforementioned areas of the site.

To facilitate planning for the proposed redevelopment, a site assessment is required to characterise potential contamination risks, in accordance with the 'Remediation of land' requirements of *State Environmental Planning Policy (Resilience and Hazards) 2021* (R&H SEPP), and to draw conclusions regarding the suitability of the site for the proposed ongoing health services facility land use or make recommendations to enable such conclusions for the site.

JBS&G previously carried out a Preliminary Site Investigation (PSI, JBS&G 2022[1]), which identified that the site was primarily vacant until being developed for a hospital in the 1880s. The PSI recommend that a DSI is undertaken to characterise potential contamination at the site and confirm the suitability of the site (from a contamination perspective) for the proposed redevelopment for ongoing hospital facility land use.

The objectives of the DSI were to assess the potential for historical contaminating activities at the site and provide a preliminary assessment of the suitability of the site for the proposed use, or to make recommendations to enable such assessments to be made in the future.

The completed scope of work comprised: review of site conditions and readily available site history records to identify areas of environmental concern (AECs) and associated contaminants of potential concern (COPCs); completion of a detailed site inspection; development of a conceptual site model (CSM); a soil investigation comprising soil sampling from 19 locations; sampling of three groundwater monitoring wells; laboratory analysis program for representative samples of each media for COPCs; data evaluation against NSW Environment Protection Authority (EPA) endorsed guideline values; and preparation of this report documenting the methods and results of the investigation.

Based on the findings of this investigation, and subject to the limitations in **Section 12**, it is concluded that the site can be made suitable for the proposed land use subject to implementation of a RAP.

The following recommendations are provided:

- A RAP should be prepared and implemented in accordance with the relevant regulatory requirements that documents the procedures and standards to be followed in order to address the identified asbestos impacted soils and data gaps as to make the site suitable for the proposed future uses.
- A redevelopment/remediation specific AMP should be developed for the proposed remediation and redevelopment works.

[1] Preliminary Site Investigation Mental Health Unit and Emergency Department Broken Hill Hospital Broken Hill, NSW, JBS&G Australia Pty Ltd, 22 December 2022, 63879/148999 Rev 0 (JBS&G 2022)

1. Introduction and Background

1.1 Introduction

JBS&G Australia Pty Ltd (JBS&G) was engaged by Health Infrastructure (HI, the client) to complete a Detailed Site Investigation (DSI) for the proposed Broken Hill Hospital Redevelopment (BHHR, the site). The site is formally identified as part Lot 4376 in DP757298. The proposed redevelopment includes a new Mental Health Unit (MHU) including new courtyards/gardens and a new/expanded Emergency Department (ED) including a new ambulance drop off area (see Proposed Development Plans **Appendix B**). The overall MHU footprint is approximately 2,000 m^2 with a building footprint of 1,000 m^2 and the overall ED footprint is approximately 1,300 m^2 with a building footprint of 600 m^2. The site location and layout are shown on **Figures 1** and **2** respectively. The DSI, documented herein, has been limited to the aforementioned areas of the site.

To facilitate planning for the proposed redevelopment, a site assessment is required to characterise potential contamination risks, in accordance with the 'Remediation of land' requirements of *State Environmental Planning Policy (Resilience and Hazards) 2021* (R&H SEPP), and to draw conclusions regarding the suitability of the site for the proposed ongoing health services facility land use or make recommendations to enable such conclusions for the site.

JBS&G previously carried out a Preliminary Site Investigation (PSI, JBS&G 2022[2]), which identified that the site was primarily vacant until being developed for a hospital in the 1880s. The PSI recommend that a DSI is undertaken to characterise potential contamination at the site and confirm the suitability of the site (from a contamination perspective) for the proposed redevelopment for ongoing hospital facility land use.

The investigation undertaken was completed in general accordance with guidelines made or approved by the NSW Environment Protection Authority (EPA) including National Environmental Protection Council (NEPC 2013[3]) *National Environment Protection (Assessment of Site Contamination) Measure 1999* as amended 2013, EPA (2020[4]) reporting guidelines and the Remediation of land Planning Guidelines.

1.2 Objectives

The objectives of the investigation were to assess the potential for historical contaminating activities at the site and provide a preliminary assessment of the suitability of the site for the proposed use, or to make recommendations to enable such assessments to be made in the future.

1.3 Scope of Works

The scope of works completed for this investigation comprised:

- A desktop review of site history and background information, to identify potential areas of environmental concern (AECs) and associated contaminants of potential concern (COPCs);
- Development and documentation of a preliminary conceptual site model (CSM) based on the available information; and
- Collection of soil from an approximate systematic sampling grid across the site;
- Field asbestos quantification of soils;

[2] Preliminary Site Investigation Mental Health Unit and Emergency Department Broken Hill Hospital Broken Hill, NSW, JBS&G Australia Pty Ltd, 22 December 2022, 63879/148999 Rev 0 (JBS&G 2022)

[3] *National Environmental Protection (assessment of Site Contamination) Measure 1999, as amended 2013*. National Environment Protection Council, 2013 (NEPC 2013.

[4] *Consultants Reporting on Contaminated Land Contaminated Land Guidelines*, NSW Environment Protection Authority, EPA, April 2020, updated 5 May 2020 (EPA 2020).

- Collection of groundwater samples from three newly installed groundwater monitoring wells;
- Submission of soil and groundwater samples for laboratory analysis for contaminants of potential concern;
- A quality assurance/quality control assessment of the field and laboratory data to assess its suitability to meet the objectives of the DSI;
- Comparison of laboratory against NSW EPA endorsed assessment criteria based on the proposed hospital use;
- Preparation of this DSI report detailing the completed work and findings of the investigation.

2. Site Condition and Surrounding Environment

2.1 Site Identification

The location and current layout of the site is shown in **Figures 1** and **2** respectively. The site details are summarised in **Table 2.1.**

Table 2.1: Summary of Site Details

Site Legal Identifier (as shown on Figure 2)	Lot 4376 in DP 757298
Site Address	176 Thomas Street, Broken Hill, NSW 2880
Site Area	3,300 m^2, comprising of the MHU (2,000 m^2) and ED (1,300 m^2)
Local Government Authority	City of Broken Hill
Approximate Coordinates (GDA 94 Map Grid of Australia (MGA) 54)	Easting: 542964.791 Northing: 6465282.82
Registered Site Owner	Health Administration Corporation
Current Zoning	Zone R1 – General Residential (*Broken Hill Local Environmental Plan 2013*)
Previous Land Uses	Vacant Land
Current Land Uses	Health Service
Proposed Land Uses	Health Service

2.2 Site Description

The site features described below pertain to the developable footprint, and are based on recent aerial photographs obtained from Nearmap[5] and provided by the client (see **Appendix B**), and from a site survey plan (**Appendix B**). Selected photographs of the site are provided in **Appendix D**.

The site, comprising the MHU and ED developable areas, are two approximately rectangular-shaped parcels of land, separately situated within the Broken Hill Hospital site boundary. A roadway within the hospital boundary, leading from Thomas Street to south and Morgan Street to the east, crosses through both the MHU and the ED sites.

The MHU is predominately sealed, comprising of a carpark to the west, the roadway in the central east, and part of the hospital complex to the east. An unsealed area with some trees is present to the southwest of the carpark within the MHU.

The ED is predominately sealed, comprising of the Ambulance Bay entrance and carport to south, and the roadway to the north. Two unsealed landscaped verges are present to the east and west of the ED boundary.

2.3 Surrounding Land Use

The proposed MHU and ED redevelopment areas are located within the broader Broken Hill Hospital. The current land uses of adjacent properties or properties across adjacent roadways from the Hospital are summarised below.

- North – the Hospital is bound to the north by Morgan Street and low-density residential dwellings beyond.
- West – the Hospital is bound to the west by Bromide Street and low-density residential dwellings, a private clinic and a pre-school beyond.
- East – the Hospital is bound to the east by Chloride Street and low-density residential dwellings beyond.
- South – the Hospital is bound to the south by Thomas Street and low-density residential dwellings and a pathology laboratory beyond.

[5] *Nearmap Map Browser*, https://www.nearmap.com/au/en, Nearmap, accessed 19 December 2022.

2.4 Topography

A search of elevation contours was completed by Lotsearch (2022[6], **Appendix F**), which indicates that the ED and MHU are relatively flat at an elevation of 330 m Australian Height Datum (AHD), with a steep incline northwest of the MHU and within the Hospital boundary, to 320 m Australian Height Datum (AHD). The area in vicinity of the hospital generally slopes east to northeast from this elevated northwest part of the hospital site, based on Lotsearch (2022) elevation contours. Some areas of the hospital site also appear to have been artificially raised for landscaping or building, particularly in the vicinity of Kincumber House, external to the site.

External to the northern site boundary, a steep descent from Morgan Street northward to Morgan Lane and Sulphide Street is noted on Google Street View.

2.5 Geology and Soils

Reference to Lotsearch (2022[7], **Appendix F**) indicates that site is underlain by Sundown Group Siliciclastic sedimentary rock, comprising interbedded pelite, psammopelitic and psammitic metasedimentary rocks.

The soil classification order is tenosol, which occurs on hills with small valley plains. Tenosols are described as shallow, dense loamy soils to shallow calcareous loamy soils and sands occurring on hills.

It is noted that studies have observed elevated background levels of heavy metals in soils, particularly lead, in the City of Broken Hill, which are associated with the town's historic and ongoing mining industry (Yang & Cattle 2015[8]; Kristensen & Taylor 2016[9]).

2.6 Acid Sulfate Soils

Reference to Lotsearch (2022, **Appendix F**) indicates that the site has an extremely low probability of acid sulfate soils (ASS). Review of the geographical and topographical location of the site has indicated that it is a significant distance away from tidal creeks or estuaries, and it is considered unlikely that ASS would exist at the site. Based on the identified geological and topographical setting no further consideration for the potential for ASS at the site is required.

2.7 Salinity

Reference to Lotsearch (2022, **Appendix F**) of dryland salinity indicates that there is no current National Assessment data available.

Areas of high saline risk generally occur lower in the landscape, or at permeability contrasts, where saline groundwater may come within close proximity to the ground surface or where seepage causes waterlogged conditions, thereby concentrating soils. Typically scattered saline indicator vegetation occurs in these areas.

With consideration to the site topography (approximately 300 m AHD) and average depth to the groundwater in proximity to the site (approximately 25 m bgs, **Section 2.9**), there is a low probably of salinity at the site.

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6 *Broken Hill Hospital, 176 Thomas Street, Broken Hill, NSW 2880*, Lotsearch, Reference: LS038494 EP, 29 November 2022 (Lotsearch 2022)

7 *Broken Hill Hospital, 176 Thomas Street, Broken Hill, NSW 2880*, Lotsearch, Reference: LS038494 EP, 29 November 2022 (Lotsearch 2022)

8 "Bioaccessibility of lead in urban soil of Broken Hill, Australia: a study based on in vitro digestion and the IEUBK model", Yang K and Cattle SR, *Science of the Total Environment,* 538, pp.922-1933, 2015 (Yang & Cattle 2015)

9 "Unravelling a 'miner's myth' that environmental contamination in mining towns is naturally occurring", Kristensen LJ and Taylor MP, *Environmental Geochemistry and Health,* 38(4), pp.1015-1027, 2016 (Kristensen & Taylor 2016)

2.8 Hydrology

The closest water body is a drainage channel approximately 1.2 km east from the site, which joins a tributary of Willa Willyong Creek approximately 3.3 km northeast of the site and eventually enters the Stephen Creek reservoir, approximately 12 km northeast from the site. Stephen Creek flows towards Tandou Lake in the Menindee Lakes catchment and the Darling River, approximately 90-100 km south to southeast of the site. It is noted that the Menindee Lakes catchment supplies water to Broken Hill to meet irrigation, stock and domestic needs (WaterNSW 2022[10]).

The site survey plan (see **Appendix C**) shows stormwater drainage infrastructure withing the Broken Hill Hospital boundary, which may generate manmade preferential pathways. It is likely that the majority of surface runoff would be captured onsite.

2.9 Hydrogeology

Registered groundwater bore information was sourced from Lotsearch (2022) and is included in **Appendix F**. Review of the registered bore information identified several registered groundwater bores within a 2.0 km radius of the site. Relevant information is summarised in **Table 2.2** below.

Table 2.2: Registered Groundwater Bore Search Summary

Bore ID	Use	Standing Water Level (m bgs)	Well Depth (m bgs)	Distance from site	Water bearing zones / relevant contamination observations
GW600132	Water Supply	9	17.5	417 m to the northeast	Not recorded
GW600171	Water Supply	15.7	30	579 m to the west	Not recorded
GW803404	Water Supply	22	31	710 m to the north	24.00m-25.50m Water bearing
GW600160	Water Supply	16.8	30	792 m to the north	24.00m-30.00m Water bearing
GW600162	Water Supply	14	54	829 m to the northwest	Not recorded
GW600163	Water Supply	-	30	938 m to the north	Not recorded
GW600301 to GW600308 (eight wells)	Monitoring	3.62 to 10.95	12 to 20.54	1191 to 1258 m to the south	Not recorded
GW500071	Monitoring	-	7.5	1398 m to the southeast	0.20m-6.50m Hydrocarbon Odour. 6.50m-7.50m Moist to Very Moist

It is noted in Lotsearch (2022, **Appendix F**) that the local aquifers are generally of low productivity. With regard to the depth of groundwater in proximal wells to the site, potential onsite groundwater may be encountered at relatively deep levels (approximately 10-20 m bgs).

Based on the topography and hydrology discussed above, it is inferred that shallow/perched groundwater migration will occur in an east to northeast direction. However, noting variable terrain in Broken Hill and historical mining activities in the town predominantly southeast of the site, there is the potential groundwater flow may differ from what is inferred here.

2.10 Meteorology

A review of average climatic data for the nearest Bureau of Meteorology monitoring location (Broken Hill Patton Street[11]) indicates the site is located within the following meteorological setting:

- Average minimum temperatures vary from 5.4 ^{o}C in July to 18.5 ^{o}C in January;

[10] *Menindee Lakes,* WaterNSW, https://www.waternsw.com.au/nsw-dams/regional-nsw-dams/menindee-lakes#:~:text=Today%20the%20lakes%20supply%20water,supplement%20the%20River%20Murray%20system., accessed 22 December 2022

[11] http://www.bom.gov.au/climate/averages/tables/cw_047007.shtml, Commonwealth of Australia, 2013 Bureau of Meteorology, Product IDCJCM0028, accessed by JBS&G on 20 December 2022.

- Average maximum temperatures vary from 15.2 ^{o}C in July to 32.8 ^{o}C in January;
- The average annual rainfall is approximately 259.8 mm with rainfall greater than 1 mm occurring on an average of 34.6 days per year; and
- Monthly rainfall varies from 17.8 mm in April to 25.8 mm in February with the wettest periods occurring on average in January to March.

3. Site History

3.1 Historical Land Title Information

Relevant details from a historical review of the land titles for the site are listed in **Table 3.1**. A copy of title search results is provided in **Appendix E**.

Table 3.1: Summary of Historical Land Titles

Date	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
11.06.1889	Dedicated for Hospital Site	
24.11.1933 (1933 to 2010)	The Broken Hill and District Hospital Now Far West Health Service (Granted for Hospital Site)	Volume 4598 Folio 214 (Grant) Then 4376/757298 Now Auto Consol 4598-214
19.08.2010 (2010 to 2016)	Greater Western Area Health Service	Auto Consol 4598-214
05.312.2016 (2016 to 2019)	#Far West Local Health District	Auto Consol 4598-214

Denotes current registered proprietor
Leases: - Yes, (AK974650) to The University of Sydney of part being premises known as "Corrindah Court", building 31 at Broken Hill Hospital, Morgan Street, Broken Hill. Expires 1st August 2027
Easements: - NIL

The above information indicates the site has been reserved for use as a public hospital, or has been an operational public hospital, since the beginning of the land title records for the site in 1889.

A current and historical mining and exploration titles search was completed by Lotsearch (2022, **Appendix F**) within the site and within a 1000 m buffer of the site. A historical petroleum exploration licence, identified within the site and within the extent of the buffer, was issued to Hardie Infrastructure Pty Ltd in 2006, and ceased in 2009. No other historical or current mining and exploration titles were identified within the subject areas.

3.2 Historical Aerial Imagery

Copies of historical aerial photographs from regular intervals were obtained from Lotsearch (2022, **Appendix F**) and Nearmap (2022, as **Figure 2**). Due to the limited availability of historical aerials within the Broken Hill region, aerials were not available before 1954.

Copies of historical aerial photographs reviewed as part of this assessment are provided in **Appendix F**. Relevant information from JBS&G's review of available aerial imagery is summarised in **Table 3.2 below.**

Table 3.2: Summary of Historical Aerial Imagery Review

Year	Observations
1954	Broken Hill Hospital Extent: • It appears that the hospital is operational and contains several structures in the north, central and eastern portions of the hospital. A large structure, Kincumber House to the north, is still present today. • A landscaped entrance from Thomas Street with a semi-circular roadway, presumably a patient drop-off zone, is visible to the south. • Small building structures are present to the north of the ED boundary. • Vacant areas are present in the eastern and western portions of the hospital. ED Footprint:

Year	Observations
	• Rows of trees, potentially a small orchard, dominates the majority of the ED. An internal hospital roadway crosses through the ED boundary from the east to the northwest. MHU Footprint: • The majority of the MHU footprint appears undeveloped with some trees visible. A long narrow NW-SE oriented building intersects the eastern portion of the MHU and extends into the Broken Hill Hospital boundary. Smaller structures are present within the southwest portion of the MHU, extending into the broader hospital boundary. External to the Hospital Boundary: • The ED and MHU footprints are within the Broken Hill Hospital boundary present to this day. • The hospital is bound by Morgan Street to the north (unsealed), Chloride Street to the east (sealed), Bromide Street to the west (unsealed), and Thomas Street to the south (sealed). • Low density residential properties are present beyond each aforementioned street, although there is some vacant undeveloped land to the north and northwest, and vacant lots are present immediately west of the site.
1965	Broken Hill Hospital Extent: • New buildings have appeared in the northern and southern portions of the hospital. • A carpark, which may be unsealed, is visible south of the ED boundary. ED Footprint: • The presumed orchard is no longer visible, and appears a landscaped area. MHU Footprint: • A new unsealed roadway intersects the centre of the MHU from the north to the south. External to the Hospital Boundary: • Additional low density rural residential properties have appeared in the vacant areas to the northwest and west to southwest of the hospital boundary. • The surrounds otherwise appear relatively unchanged since the previous aerial (1954)
1975	Broken Hill Hospital Extent: • Tree clearing has occurred along the southern boundary line (Thomas Street), particularly within the carpark area south of the ED. • A new building structure is visible to the southwest of the MHU. • The northwest area appears to have been landscaped with a formed path/road from Bromide Street. ED Footprint: • The building west of the ED has been upgraded and now extends within the ED footprint. A small structure previously visible in the northeast of the ED area has been removed to make way for this new building. MHU Footprint: • New buildings are now visible within the MHU footprint. External to the Hospital Boundary: • Additional low density rural residential properties have appeared in the vacant area to the northwest of the hospital boundary. • Morgan Street and Bromide Street now appear sealed. • The surrounds otherwise appear relatively unchanged since the previous aerial (1965).
1981	• The ED and MHU footprints appear unchanged. • Additional structures, presumedly medical residencies, are now present southwest of the MHU. • Additional low density rural residential properties have appeared in the vacant area to the northwest of the hospital boundary. • The site and surrounds appear otherwise unchanged since the previous aerial (1975).
1995	• The ED and MHU footprints appear unchanged. • The carpark south of the ED now appears to be sealed. • Additional structures believed to be an aged care/retirement village, are now present southwest of the hospital boundary. • The site and surrounds appear otherwise unchanged since the previous aerial (1981).

Year	Observations
2004	Broken Hill Hospital Extent: • Major building upgrades have occurred in the southeastern and eastern portion of the hospital, including a large hospital complex along Thomas Street, new internal roadways and carparks. • The carpark south of the ED is now where part of the new hospital building complex is; a carpark is now visible in the central portion of the hospital where the central large structure was previously visible. • The landscaped semi-circle entrance from Thomas Street is now where part of the new building complex is; the site entrance is now further southwest along Thomas Street. The new roadway intersects the hospital towards the northeast and exits on Chloride Street. ED Footprint: • The old building is no longer present. The present-day location of the Ambulance Bay dominates the southern portion of the ED. • A new sealed roadway extends through the site from the southwest to the northwest. MHU Footprint: • There are no longer buildings present within the MHU. • The area is predominantly a sealed car park, and the new entrance roadway intersects the lower portion of the MHU. The surrounds otherwise appear unchanged since the previous aerial (1995)
2010	• The site and surrounds appear largely unchanged since the previous aerial (2004).
2017	• Additional structures are visible to the west of the WHU and in the northeastern portions of the hospital. • An extension is now visible on Kincumber House to the north of the site. • The site and surrounds otherwise appear largely unchanged since the previous aerial (2010).
2021	• The site and surrounds appear largely unchanged since the previous aerial (2017).
2022	• Solar panels have been added to the new building complex in the south and southeast of the hospital (refer **Figure 2**). • The site and surrounds otherwise appear largely unchanged since the previous aerial (2021).

3.3 Council Planning Certificates

A copy of Section 10.7 (2 and 5) Planning Certificates for the site was obtained by JBS&G from Council and are included in **Appendix G**. Relevant details are summarised below:

- The land is subject to requirements of the *Broken Hill Local Environmental Plan 2013* (Broken Hill LEP) and relevant SEPPs;
- The land is currently zoned R1 General Residential;
- The land is affected by a heritage item, described as "old areas of the Broken Hill Hospital" in Schedule 5 of the Broken Hill LEP;
    - Review of the Broken Hill LEP identified that the item resided on part of 170–320 Thomas Street, in part Lots 3751, 4375 and 4376, DP 757298. Therefore, the heritage item is external to the subject areas.
- The land is not affected by any road widening or road realignment.
- The property has not been identified to be affected by landslide, subsidence, bushfires, floods, acid sulfate soils, tidal inundation or any other risk;
- The property is not subject to specific vegetation plans, biodiversity stewardship site or identified as biodiversity certified land, however; it is noted that approval may be required to clear native vegetation within the Broken Hill LGA, under provisions of the *Native Vegetation Act 2003* (No 103);
- It is noted that Council strongly recommends that advice be obtained from a licensed asbestos assessor (LAA) to determine if any loose-fill asbestos is present at the site;

- The land is not significantly contaminated land, subject to a management order or subject of an approved voluntary management proposal within the meaning of the *Contaminated Land Management Act 1997* (CLM Act);
- It is noted as additional contamination information that the land may contain levels of heavy metals associated with Broken Hill being an active mining town. Council has not undertaken specific testing within the property in relation to this matter.

3.4 NSW EPA Records

Lotsearch (2022, **Appendix F**) completed a search of the NSW EPA database for the site and immediate surrounding properties. EPA records are provided in **Appendix F**. The search was undertaken through the following public registers:

- NSW EPA contaminated land public register of record of notices (under Section 58 of the CLM Act):
  - No notices have been issued under the CLM Act for the site or immediate surrounds.
- NSW contaminated sites notified to the EPA (under Section 60 of the CLM Act):
  - The site or land immediately surrounding the site do not appear on the EPA contaminated land register or list of sites notified to EPA.
- NSW EPA Government per- and poly-fluoroalkyl substances (PFAS) Investigation Program:
  - The site or land immediately surrounding the site is not listed on the NSW Government PFAS Investigation program.
- NSW *Protection of the Environment Operations Act 1997* (POEO Act) public register of licences, applications and notices (maintained under Section 308 of the POEO Act):
  - A surrendered licence for Hazardous, Industrial or Group A Waste Generation or Storage was identified within the Broken Hill Hospital site;
  - No prevention, clean-up or prohibitions notices and no transfer, variation, suspension, or revocation of an Environment Protection Licence (EPL) has been issued under the POEO Act for the site; and
  - Three surrendered licences were issued to Waterways Throughout NSW for the application of herbicides, approximately 900 m west of the site.

3.5 Australian and NSW Heritage Register

A search of the National Heritage Trust database, NSW Heritage Inventory and Broken Hill LEP was undertaken by Lotsearch (2022), and records are included in **Appendix F**.

The National database identified the City of Broken Hill, inclusive of the site, as an item of national significance, relating to historical mining.

The State search did not identify the presence of significant items within the site, however two separate items of state significance were identified approximately 600 m southeast and 950 m northwest of the site.

The Broken Hill LEP identified that the “old areas of Broken Hill Hospital” were of local significance, within the Broken Hill Hospital Boundary and external to the subject areas.

3.6 Historical and Current Business Directories

Lotsearch (2022, **Appendix F**) completed a search of the historical and current business directories within the site and within a 150 m buffer of the site. A number of motor garages, petroleum service station and dry cleaners were noted within the buffer, external to the site boundary. A historical dry

cleaner, registered in 1961, was previously located adjacent to the eastern hospital boundary on Chloride Street, and a service station, registered in 1970, was located adjacent to the southern hospital boundary on Thomas Street. With consideration to the local topography and hydrogeology (**Sections 2.4** and **2.9**), these historical activities may pose a potential contamination risk to the hospital site, and potentially the subject areas.

3.7 Fair Trading NSW Properties Affected by Loose Fill Asbestos Insulation.

A search of the Fair-Trading NSW Loose-fill Asbestos Insulation Register (LFAI register[12]) for the site address has indicated that the property comprising the site is not currently registered as being affected by the presence of LFAI (**Appendix I**).

3.8 Dangerous Goods Search

A dangerous goods search was submitted to SafeWork NSW (**Appendix H**) and did not locate any records pertaining to the site. However, it is noted that not all DG storage is required to be registered, and there is potential for historical above and below ground DG storage to have occurred that was not registered, such as small heating oil or diesel tanks, small volumes of paints or solvents, or waste storage.

Based on information provided by the client regarding Hospital Site Constraints (**Appendix C**), some minor storage of flammable/hazardous goods (oxygen and LPG) are located northeast of the proposed ED development.

3.9 Integrity Assessment

The site is assumed to have been vacant until 1889, where records show that it was dedicated for hospital use, and later established as the Broken Hill and District Hospital in 1933. Aerial photography available from 1954 suggests that the site has undergone moderate changes over the past 90 years and has remained a public hospital during this time. Considering the various sources of information and consistency of findings, the historical assessment has an acceptable level of accuracy regarding potentially contaminating activities that may have occurred on the site.

3.10 Previous Investigations

3.10.1 Asbestos Register – Broken Hill Health Service (FWLHD 2015[13]) Asbestos Register

The client provided an Asbestos Register prepared in 2015. The audit included inspection of 22 buildings and related structures, identifying predominantly bonded asbestos cement building materials and some friable asbestos items, and the completion of eleven confirmatory samples.

With respect to asbestos contamination aspects, JBS&G note that damaged ACM in external building materials and friable asbestos such as used on pipe lagging in subfloor areas, could impact surface soils.

In addition, an inspection of Corindah Court car park, an area to the north of hospital, identified building and demolition waste within an earthen embankment, with the potential for ACM to be present.

Photographs included suggest there may also be lead-based paints, with some flaking paint visible, however lead-based paints were not assessed.

The conclusion of the audit report recommends a range of management actions to several of the buildings assessed, and within Corindah Court car park.

[12] http://www.fairtrading.nsw.gov.au/ftw/Tenants_and_home_owners/Loose_fill_asbestos_insulation/Public_register_of_affected_properties.page accessed 20 December 2022

[13] *Asbestos Register, Broken Hill Health Service, Far West Local Health District 2015,* May 2015.

It is noted that the buildings assessed in the Register fall outside of the developable site extent subject to this investigation; however, as noted in the historical aerial imagery (**Section 3.2**), building structures that may have been constructed with asbestos (and lead paint) were previously within the MHU and ED site boundaries. As such, asbestos impacts from demolition works may be present within the former building footprints, which are shown on **Figure 3**.

3.10.2 Broken Hill Hazardous Material Survey (GHD 2016[14])

GHD Pty Ltd completed an intrusive (pre-demolition) Hazardous Building Material (HBM) Survey of Kincumber House, located in the north of the hospital area along Morgan Street, for the purpose of addressing HBM data gaps from the FWLHD (2015) investigation and to inform decisions related to the Kincumber House internal refurbishment.

The HBM further defined the extent of ACM, and investigated the presence of Synthetic Mineral Fibres (SMF), PCBs within light fittings, Ozone Depleting Substance (ODS) within air conditioning and refrigeration units, leaded paint systems and lead contaminated dust due to the presence of deteriorating lead paint, through the collection of representative samples for analysis at a National Association of Testing Authorities NATA accredited laboratory.

The laboratory and visual findings confirmed the presence of both friable and bonded asbestos and lead paint in the areas surveyed. The likelihood of SMF and PCBs were determined as highly likely, and no ODS were identified during the inspection. The Survey concludes with recommendations to safely manage the identified HBMs during the Kincumber House refurbishment.

It is noted that Kincumber House is external to the subject site, in the central northern portion of the hospital boundary (**Figures 2** and **3**).

[14] *Broken Hill Hospital Kincumber House and Ambulatory Wing - Hazardous Building Materials Survey,* GHD Pty Ltd, May 2016 (GHD 2016).

4. Preliminary Conceptual Site Model

4.1 Potential Areas of Environmental Concern

Based on the history review of the subject site, areas of environmental concern (AECs) have been identified and are presented in **Table 4.1** and **Figure 3**.

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

Area of Environmental Concern (AEC)	Primary Contaminants of Potential Concern (COPC)
Anthropogenic fill materials of unknown origin used to create existing/current site levels	Heavy metals, total recoverable hydrocarbons (TRH), benzene, toluene, ethylbenzene and xylene (BTEX), volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs), organochlorine pesticides (OCPs), polychlorinated biphenyls (PCBs) and asbestos
Shallow soils potentially impacted with hazardous building materials historically demolished in or within proximity to the subject site, including pesticide use	Asbestos, lead, OCPs and PCBs
Former orchard in ED area	OCPs and heavy metals
Firefighting systems	PFAS
Laundry facilities	VOCs and more specifically trichloroethylene (TCE) and perchloroethylene (PCE) and PFAS
Vehicle maintenance area/carpark/wash bay and maintenance store	TRH, BTEX, PAHs, heavy metals, VOCs, acids/alkalis, refrigerants

4.2 Potentially Contaminated Media

Each of the AECs and corresponding COPCs identified in **Section 4.1** have the potential to impact soil, groundwater and/or soil vapour (where volatile constituents are identified) underlying the site.

Where fill materials are present, such as fly-tipped waste or soils that have been disturbed close to the building structures, there is a likelihood that environmental impact may be present, consistent with the depth of the disturbance. Anthropogenic materials are commonly present in impacted fill materials and can be used as an indication of the depth of disturbance, or to indicate where site levels may have been altered by filling. Where fill materials impacted with chemical-based contaminants are identified, there is a potential the impact may have migrated laterally to/from the site and vertically below the fill material into natural soils.

With the exception of asbestos, each of the COPCs identified in **Table 4.1** for the site have the potential to migrate from shallow soils into groundwater. Natural soils and/or bedrock are expected to underlay the fill material anticipated in various areas of the site, and may potentially be impacted by the downward migration of contaminants through fill where surfaces are unsealed. There is the potential for the leaching of contaminants vertically from fill into groundwater and/or potential off-site impacts. Natural soils/rock may also be impacted by contaminated groundwater migration (if present).

Firefighting systems are noted on the plans, external to the site redevelopment boundary, which may contain PFAS. Current and former hospital activities, including the laundry located northeast of the proposed ED redevelopment, may also have the potential for chemical impacts (e.g., VOCs such as TCE and PCE, and PFAS). As such, there may be potential contamination impacts to the surface soil, and subsurface soil, soil vapour and groundwater system resulting from onsite sources or migration from offsite source areas.

With consideration to the construction age of some structures identified at the site, hazardous building materials including ACM and/or lead paint may have been used. As such, surface and subsurface soils within vicinity of existing (and former) site structures are considered to be potentially contaminated.

Review of the site history and environmental setting has indicated that the potential for soil-vapour contamination is low. On this basis, no direct assessment of soil-vapour is considered warranted.

Notwithstanding, if substantial soil impacts by volatile COPCs (VOCs including BTEX, and volatile TRHs) are identified, ancillary soil vapour impacts may be present.

Based upon assessment of geological conditions at the site including consideration of the potential future development activities in accordance with ASSMAC (1998[15]), it has been concluded that there are no risks from potential ASS at the site that require consideration during future development activities and/or proposed land uses.

4.3 Potential for Migration from Site

Contaminants generally migrate from site via a combination of windblown dusts, rainwater infiltration, groundwater migration and surface water runoff. The potential for contaminants to migrate is a combination of:

- The nature of the contaminants (solid/liquid and mobility characteristics);
- The extent of the contaminants (isolated or widespread);
- The location of the contaminants (surface soils or at depth); and
- The site topography, geology, hydrology and hydrogeology.

The COPCs identified as part of the site history review and site inspection are generally in solid (e.g. asbestos and metals), liquid (e.g. TRH, VOCs, PAHs, PFAS, OCPs and PCBs) or gaseous (e.g. VOCs, volatile TRH and semi-volatile TRH and PAHs) form.

As areas of the site are unsealed, the potential for windblown dust migration of contamination from the site is moderate. The potential for contamination migration via surface water movement and infiltration of water and subsequent migration through the soil profile is considered to be low to moderate, given impervious pavements cover only portions of the subject site areas. It is likely that most run off would be captured within the site's stormwater infrastructure.

The potential solubility of chemical contaminants in soil, in addition to rate of surface water infiltration, perched water seepage and groundwater movement across the site will influence the potential for migration of soil and groundwater contamination within and from the site. Should impacted groundwater be identified in proximity to the inferred downgradient boundary of the site, then the potential for off-site migration of contaminants in groundwater will require further consideration.

The potential for off-site migration of vapours will only be relevant where volatile COPCs are identified at significant levels in soil or groundwater. These COPCs can migrate laterally from the site through diffusive/advective processes as well as through preferential pathways (refer to **Section 4.5**). Should elevated levels of vapours be identified, then the potential off-site migration of volatile COPC will require further consideration.

4.4 Potential Human and Ecological Receptors and Exposure Pathways

A summary of potential human receptors and associated exposure pathways for the site, based on the range of exposure scenarios that may occur under the proposed ongoing hospital land-use of the site is presented in **Table 4.2**.

[15] *Guidelines for the Use of Acid Sulfate Soil Risk Maps*. Acid Sulfate Soil Management Advisory Committee August 1998, ASSMAC 1998.

Table 4.2: Summary of Potential Human Exposures

Receptor	Location	Media	Potential Exposure Pathways
Commercial Worker (adult) Public patients and visitors, including sensitive receptors such as children and the elderly	Commercial building/ Outdoor areas	Soils	Inhalation (vapours, airborne particulates) Oral and dermal in unpaved areas
		Groundwater	Inhalation (vapours)
Construction worker or intrusive maintenance worker (short duration)	Construction areas/ Excavations	Soils	Inhalation (vapours and particulates) Oral ingestion Dermal
		Groundwater	Inhalation (vapours) Oral ingestion (infiltrating seepage water) Dermal (infiltrating seepage water)

As portions of the subject site are unsealed, including landscaped areas and scrub, there is the potential for on-site ecological receptors that could be exposed to environmental impacts underlying the site.

Potential receptors of environmental impact present within the site which will require to be addressed with respect to the suitability of the site for the proposed use include:

- Future workers, public patients and visitors (including sensitive receptors such as children and the elderly) who may potentially be exposed to COPC through direct contact with or ingestion of impacted soils in unsealed areas and/or inhalation of dusts/inhalation of vapours/fibres associated with impacted unsealed soils; and/or
- Excavation/construction/maintenance workers conducting activities at the site including excavation works, who may potentially be exposed to COPC through direct contact with or ingestion of impacted soils or groundwater present within excavations and/or inhalation of dusts/inhalation of vapours/fibres associated with impacted soils; and
- Flora species to be established in site soils within vegetated areas of the site.

4.5 Preferential Pathways

For the purpose of this assessment, preferential pathways have been identified as natural and/or man-made pathways that result in the preferential migration of COPCs as either liquid or vapour/gas.

Man-made preferential pathways at the site are limited to:

- Fill materials used in construction of existing site levels which typically have a higher permeability than natural soils; and
- Underground service infrastructure present at the site potentially acting as preferential pathways for mobile liquid and vapour contaminants, potentially including stormwater, sewer and other waste lines, electrical/communications conduits; and services/inspection pits.

Where environmental impact (particularly in liquid or gaseous form) is observed within fill materials, further consideration to the potential migration of these impacts will be required.

5. Data Quality Objectives

5.1 Data Quality Objectives

Data Quality Objectives (DQOs) were established for the assessment, as discussed in the following sections.

5.1.1 State the Problem

Based on the site history review (**Section 3**), a preliminary CSM (**Section 4**) was prepared for the site that identified a number of AECs and COPCs that require assessment in order to assess the suitability of the site for the proposed land-use. Therefore, a DSI is required to address identified potential contamination issues.

5.1.2 Identify the Decision

The decisions required to be made for the investigation are:

- Are there any unacceptable risks to likely future onsite receptors from soils?
- Are there any issues relating to local area background soil concentrations that exceed the appropriate soil criteria?
- Are there any unacceptable human health and ecological risks present in groundwater underlying the site?
- Are there any impacts of chemical mixtures?
- Are there any aesthetic issues at the site?
- Is there any evidence of, or potential for, migration of contaminants from the site?
- Is a site management strategy required?

5.1.3 Identify Inputs to the Decision

The following inputs are required in order to make the stated decisions:

- A review of available historical information from the site;
- A detailed site inspection;
- Soil sampling from soil bores to assess for the presence of potential chemical COPCs and asbestos;
- Installation, sampling and analysis of three groundwater monitoring wells within the site;
- Field parameters measured utilising calibrated equipment during the intrusive investigation including assessment of soil sample headspace and of groundwater physicochemical parameters;
- Laboratory analysis data for COPCs;
- Site assessment criteria for potentially impacted media for COPCs as appropriate to potential future land uses; and
- Confirmation that data generated by sampling and analysis are of an acceptable quality to allow reliable comparison by assessment of quality assurance / quality control (QA/QC) as per the data quality indicators (DQIs) established in **Section 5.1.6**.

Specifically, sufficient data needs to be collected from each of the identified potentially impacted media in the identified AEC for the associated COPC (**Table 4.1**).

5.1.4 Define the Study Boundaries

The study boundaries have been defined laterally as part Lot 4376 in DP757298 and shown on **Figure 2**. The vertical extent of the assessment was to a maximum depth of approximately 12 m below ground surface (bgs), the depth of the three monitoring wells installed and sampled during the investigation.

5.1.5 Develop a Decision Rule

The decision rules adopted to answer the decisions identified in **Section 4.1.2** are summarised in **Table 4.1**.

Table 4.1: Summary of Decision Rules

Decision Required to be Made	Decision Rule
1. Are there any unacceptable risks to likely future onsite receptors from soils assessed as part of the investigation?	Soil analytical data was compared against EPA endorsed criteria. Statistical analyses of the data in accordance with relevant guidance documents was undertaken where appropriate, to facilitate the decisions. The following statistical criteria were adopted with respect to soils: Either: the reported concentrations were all below the site criteria; Or: the 95% upper confidence limit (UCL) of the average concentration for each analyte was below the adopted site criterion; no single analyte concentration exceeded 250% of the adopted site criterion; and the standard deviation of the results was less than 50% of the site criterion. If the statistical criteria stated above were satisfied, the answer to the decision was No. If the statistical criteria were not satisfied, the answer to the decision was Yes.
2. Are there any issues relating to local area background soil concentrations that exceed the appropriate soil criteria?	If the 95% UCL of natural soils exceeded published background concentrations (NEPC 2013), the answer to the decision was Yes. Otherwise, the answer to the decision was No.
3. Are there any unacceptable human health and ecological risks present in groundwater underlying the site?	Groundwater analytical data were compared against EPA endorsed criteria and reported background concentrations. If the criteria stated above are satisfied, the decision was No. If the criteria are not satisfied, the decision was Yes.
4. Are there any impacts of chemical mixtures?	Are there more than one group of contaminants present which increase the risk of harm? If there is, the answer to the decision was Yes. Otherwise, the answer to the decision was No.
5. Are there any aesthetic issues at the site?	If there are any ACM fragments on the ground surface, any unacceptable odours or soil discolouration, the answer to the decision was Yes. Otherwise, the answer to the decision was No.
6. Is there any evidence of, or potential for, migration of contaminants from the site?	Is impacted groundwater potentially migrating from site? If yes, the decision was Yes. Otherwise, the decision was No.
7. Is a site management strategy required?	Is the answer to any of the above decisions (1-7) Yes? If yes, further assessment and/or a site management strategy will be required to address unacceptable contamination concerns at the site, to make the site suitable for future proposed uses. If no, further assessment and/or a site management strategy is not required and the site is considered suitable, from a contamination viewpoint for the proposed uses.

5.1.6 Specify the Limits on Decision Error

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

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

To assess the usability of the data prior to making decisions, the data was assessed against pre-determined DQIs established for the project as discussed below in relation to precision, accuracy, representativeness, comparability and completeness (PARCC parameters). The acceptable limit on decision error is 95% compliance with DQIs.

The DQIs and data assessment criteria are summarised as presented in **Table 4.2**.

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

Table 4.2: Summary of DQIs

Data Quality Objectives	Frequency	Data Quality Indicator
Precision		
Blind duplicates (intra laboratory)	1 / 20 samples	<30% relative percent difference (RPD)[1]
Blind duplicates (inter laboratory)	1 / 20 samples	<30% RPD
Accuracy		
Laboratory duplicates	1/20 samples	<30% RPD[1]
Surrogate spikes	All organic samples	70-130%
Laboratory control samples	1 per lab batch	70-130%
Matrix spikes	1 per lab batch	70-130%
Representativeness		
Sampling appropriate for media and analytes		-[2]
Samples extracted and analysed within holding times.	-	Soil and Groundwater Organics (7-14 days), inorganics (6 months), PFAS (14 days)
Trip spike (BTEX only)	1 per sampling event	70-130% recovery
Rinsate blank	1 per sampling event	<LOR
Method blank	1 per lab batch	<LOR
Comparability		
Standard operating procedures for sample collection & handling	All Samples	All samples
Standard analytical methods used for all analyses	All Samples	NATA accredited methods
Consistent field conditions, sampling staff and laboratory analysis	All Samples	All samples[2]
Limits of reporting appropriate and consistent	All Samples	All samples[2]
Completeness		
Sample description and COCs completed and appropriate	All Samples	All samples[2]
Appropriate documentation	All Samples	All samples[2]
Satisfactory frequency and result for QC samples	All QA/QC samples	95% compliance
Data from critical samples is considered valid	-	Critical samples valid
Sensitivity		
Analytical methods and limits of recovery appropriate for media and adopted Site assessment criteria	All samples	LOR ≤ site assessment criteria

[1] If the RPD between duplicates is greater than the pre-determined data quality indicator, a judgment will be made as to whether the excess is critical in relation to the validation of the data set or unacceptable sampling error is occurring in the field.

[2] A qualitative assessment of compliance with standard procedures and appropriate sample collection methods will be completed during the DQI compliance assessment.

5.1.7 Optimise the Design for Obtaining the Data

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

Based on the objectives of the assessment, the following investigation approach was adopted:

A soil sampling program was completed within accessible areas of the site that included sampling soil from shallow soil bores and bores advanced to install groundwater monitoring wells. Sampling locations are shown on **Figure 4**. In accordance with EPA sampling design guidelines (2022[16]), a minimum of eight sampling locations are required to assess each the two site areas (MHU, 2,000 m^2 and ED 1,300 m^2). Therefore, ten locations were sampled in the MHU (MH-B1 to MH-B10) area, and nine locations (ED-B1 to ED-B9) were sampled in the ED area, which exceeded the minimum

[16] *Contaminated Land Guidelines: Sampling Design Part 1 – Application,* NSW EPA, 12 August 2022, (EPA 2022)

sampling density. Soil sampling was undertaken on a systematic sampling grid, noting that sampling locations were shifted to avoid the road that passed through this area.

Three soil boreholes drilled by PSM, the geotechnical consultant at the site, were converted into groundwater monitoring wells (GW01, GW02, GW03) to assess groundwater conditions beneath the site.

5.2 Assessment Methodology

5.2.1 Soil Assessment

Soil samples were collected from a hand excavated test pit (MH-B1), one test pit excavated with an excavator (MH-B10), hand augered bores (100 mm diameter) or boreholes using a excavator fitted with augers (300 mm diameter) at the nominated locations.

Soil samples were collected at surface (0-0.1 m) or directly underneath asphalt/concrete (where present), 0.3 m, 0.5 m and then at 0.5 m to 1 m intervals to a maximum depth of approximately 3 m or 0.5 m into natural materials (or prior refusal), whichever was shallower. It is noted that at locations where mechanical plant could not be utilised, sampling was undertaken using a hand auger and the investigation depth was limited to approximately 1 m. During the collection of soil samples, features such as seepage, discolouration, staining, odours and other indicators of contamination were noted.

Soil samples were screened on site during works using a photo-ionisation detector (PID) to assess the presence of volatile organic compounds (VOCs). Collected samples were immediately transferred to laboratory supplied sample jars, or bags for asbestos. The sample jars/bags were then transferred to a chilled ice box for sample preservation prior to and during shipment to the testing laboratory. A chain-of-custody form was completed and forwarded with the samples to the testing laboratory.

Asbestos quantification methods were also undertaken where possible in general accordance with the procedures included in NEPC (2013) as derived from DOH (2009[17]). that approximately 10 L samples was inspected for the presence of asbestos. The asbestos quantification works were completed via the drilling of boreholes as described previously. For the asbestos quantification at each sampling location:

- material from each sampled interval was collected on a separate plastic sheet that was distinctly different to the soil colour and spread out for inspection. Any obvious ACM fragments were placed in a dedicated laboratory supplied polyethylene ziplock sample bag labelled with the sampling location, depth sampled, samplers name and sampling date.
- for coarse grained material (ie. sand, gravels, etc), the material was then passed through a 7 mm sieve in the field. The material captured on the sieve was then hand sorted and any further collected ACM fragments were placed in the sample bag.
- a representative 500 mL volume sample of material that passed through the 7 mm sieve was then collected and placed in a separate dedicated laboratory supplied polyethylene ziplock sample bag, labelled as a soil sample.
- it is noted that at some bore locations the fill thickness was observed to be less than 0.5m thick. At these locations where it was not possible to collect 10L of sample the screening procedure was undertaken on the smaller volume of fill that was able to be retrieved.

Duplicate soil samples were collected at a rate of one per 20 primary samples. Duplicate samples were collected for QA/QC purposes by taking soil from the auger and placing directly into the sample

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

jars. Samples were not mixed prior to placement into the jars to minimise the potential for loss of volatiles. Similarly, where 500 mL samples were required for duplicate asbestos analysis, no mixing of material was undertaken prior to placement into plastic bags to prevent the loss of free fibres. It is noted that this methodology may result in the calculation of poor RPDs but this is considered acceptable given that the loss of volatiles/fibres that may occur if samples are mixed. Rinsate blanks (for non-dedicated equipment) were collected with each batch of samples, and best practice methods were employed to minimise cross-contamination and loss of volatiles.

All non-disposable sampling equipment, including augers, were cleaned with a water/detergent mix followed by and rinsing with potable water. The equipment was then inspected to ensure that no soil, oil, debris or other contaminants were apparent on the equipment prior to the commencement of works. Sampling equipment was subsequently decontaminated using the above process between each location.

Not all soil samples collected were analysed. Soil samples were analysed in accordance with the sampling and analytical program (**Table 5.3**).

5.2.2 Groundwater Assessment

A groundwater assessment was conducted to assess groundwater beneath the site and potential migration of contaminants onto or off the site. The monitoring locations are shown on **Figure 4.**

Groundwater Monitoring Well Installation

Soil bores proposed for well installation were advanced to the nominated depth using a v-bit and coring. Boreholes were advanced to the geotechnical target depth by the PSM, the geotechnical consultant, based on conditions encountered (e.g. lithology/geology) during drilling. The depth of monitoring wells were approximately 12 m bgs.

Monitoring wells were constructed using Class 18 uPVC (50mm) screen and casing. A screened interval (3 m in GW01, 9 m in GW02, 6 m in GW03) was used for the construction of each monitoring well. A gravel filter pack was placed slightly above the screened interval with a 0.5 m bentonite seal above. Wells were finished with a lockable cap and flush-mounted gatic cover.

Well Development

Subsequent to well construction, each newly installed monitoring well with sufficient recharge was thoroughly developed to remove fines, settle the filter pack and ensure representative groundwater samples could be collected. Well development was undertaken using a 12 V submersible pump on the day they were installed.

Groundwater Sampling

Newly installed monitoring wells (GW01, GW02, GW03) were sampled between 1-4 days after well installation and development.

The depth to standing water was gauged and an assessment of the presence of light non-aqueous phase liquids/dense non-aqueous phase liquids (LNAPL/DNAPL) was made using an oil/water interface probe.

Subsequent to groundwater gauging, the wells were purged and sampled via a low-flow method using a bladder pump. The pump was rinsed with potable water between sampling locations and new disposable bladder and high density polyethylene (HDPE) tubing were used for collection of each sample. Purging was undertaken to ensure the sample collected was representative of groundwater conditions. Field parameters of pH, conductivity, redox and temperature will be measured with field electrodes in a flow cell and samples obtained once the parameters stabilised such that:

- Consecutive EC readings were within 3 %;

- Consecutive redox readings were within 10 mV;
- Consecutive DO readings were within 10 %; and
- Consecutive pH readings were within 0.05.

JBS&G utilised a low-flow peristaltic pump with dedicated tubing to purge and sample wells. JBS&G considers that this method is appropriate for the analysis completed (including PFAS/PFOS), did not result in measurable loss of VOCs. Non-disposable groundwater monitoring equipment was decontaminated in accordance with the procedure detailed above in between each monitoring well.

Collected groundwater samples were immediately transferred to laboratory supplied sample bottles by collection of PFAS samples in PFAS specific containers followed by other analytes in the order of most-volatile to least volatile contaminants. Field filtering using a 0.45 µm filter was undertaken for metals/metalloid samples. The sample containers were then transferred to a chilled iced box for sample preservation prior to and during shipment to the testing laboratory. A chain-of-custody form was completed and forwarded with the samples. Samples were analysed at a NATA accredited laboratory in accordance with the schedule presented in **Table 5.3.**

A record of gauging data, sample observations (including colour, odour, presence of LNAPL, DNAPL, sheens) and sampling method details were recorded.

Blind and split duplicate groundwater samples were collected, along with a rinsate blank (for non-dedicated equipment). Appropriate field methods were undertaken to avoid cross-contamination or loss of volatiles from samples.

5.3 Analytical Methodology

JBS&G contracted Eurofins Environment Testing (Eurofins) as the primary laboratory and Envirolab Services (Envirolab) as the secondary laboratory. Both laboratories were NATA registered for the required analyses. In addition, the laboratories are required to meet JBS&G's internal QA/QC requirements.

Table 5.3: Analytical Schedule

Sample Type	Area	No. of Sampling Locations	Analyses (exc. QA/QC)
Soil	MHU 2,000 m^2	10 locations	Heavy metals – 29 samples Polycyclic aromatic hydrocarbons (PAHs) – 19 samples Total recoverable hydrocarbons (TRH) – 15 Samples Benzene, toluene, ethylbenzene, xylene (BTEX) – 15 samples Asbestos (NEPC 500 mL) – 15 samples Organochlorine pesticides (OCPs) – 15 samples Polychlorinated biphenyls (PCBs) – 15 samples Cation exchange capacity (CEC) – 1 sample pH – 1 sample Total organic carbon – 1 sample
	ED 1,300 m^2	9 locations	Heavy metals – 22 samples PAHs – 15 samples TRH – 10 samples BTEX – 10 samples OCPs/PCBs – 10 samples Asbestos (NEPC 500 mL) – 10 samples Cation exchange capacity (CEC) – 1 sample pH – 1 sample Total organic carbon – 1 sample
Groundwater	Site	3 groundwater monitoring wells	Heavy metals – 3 samples PAHs – 3 samples TRH/BTEX – 3 samples Volatile organic compounds (VOCs) – 3 samples PFAS – 3 samples

6. Assessment Criteria

The assessment criteria are adopted are provided in the analytical results summary tables provided as **Appendix A**. **Section 6.1** identifies the guideline documents referenced for the adopted assessment criteria.

6.1 Regulatory Guidelines

Development of site assessment criteria and the associated scope of investigation was undertaken with consideration to aspects of the following guidelines, as relevant:

- *National Environment Protection (Assessment of Site Contamination) Measure 1999*, as amended 2013, National Environment Protection Council (NEPC 2013);
- *Contaminated Land Guidelines: Sampling Design Part 1 - application*, NSW EPA, 2022 (EPA 2022);
- *Australian and New Zealand Guidelines for Fresh and Marine Water Quality*, Australian and New Zealand Governments and Australian state and territory governments, Canberra ACT, Australia. Available at www.waterquality.gov.au/anz-guidelines (ANZG 2018);
- *Contaminated Land Management: Guidelines for the NSW Site Auditor Scheme*, 3rd Edition, NSW EPA, 2017 (EPA 2017);
- *Contaminated Sites: Guidelines for the Assessment and Management of Groundwater Contamination*, NSW DEC, March 2007 (DEC 2007);
- *National Water Quality Management Strategy – Australian Drinking Water Guidelines 6 2011*, National Health and Medical Research Council, Updated September 2022, (NHMRC 2022);
- *Guidelines for Managing Risks in Recreational Water*, NHMRC, 2008 (NHMRC 2008);
- *Contaminated Sites: Guidelines on Duty to Report Contamination under the Contaminated Land Management Act 1997*, NSW EPA, September 2015 (EPA 2015);
- *Consultants Reporting on Contaminated Land*, NSW EPA, April 2020 (EPA 2020); and
- *PFAS National Environmental Management Plan Version 2.0* (NEMP 2.0), The Heads of EPAs Australia and New Zealand, January 2020 (HEPA 2020).

6.2 Soil Assessment Criteria Selection

As per the decision process for assessment of urban development site (EPA 2017), a set of health and ecological assessment thresholds derived from NEPC (2013) was used for evaluation of site contamination data collected for this assessment. The site requires assessment for ongoing health service facility land use. NEPC (2013) states that criteria for commercial/industrial land use are not appropriate for assessment of uses such as hospitals. Based on consideration of typical hospital uses, and NEPC (2013), the data has been assessed against criteria for residential with minimal access to soils land use scenarios to assess potential contamination risks for development and use as a hospital site. On this basis, NEPC (2013) criteria for Residential B land use setting were adopted as the site assessment criteria. Aesthetics were also considered in the assessment of site suitability consistent with EPA (2017) and NEPC (2013).

The site assessment criteria are presented on **Table A** and summarised as follows:

- Health based investigation levels (HILs) for residential with minimal soil access land use (HIL B);

- Health screening levels (HSLs) for vapour intrusion for residential with minimal soil access land use, for sand soil types (HSL B);
- HSLs for direct contract for intrusive maintenance worker;
- HSLs for asbestos in soil for residential with minimal soil access land use (HSL B);
- Management limits for TRH fractions for residential with minimal soil access land use, for fine soil types; and
- Waste Classification Guidelines – Part 1: Classifying Waste. NSW EPA 2014 (EPA 2014).

Ecological criteria have not been considered as the site will be occupied by buildings and there will be limited opportunity for potential ecological receptors to access soils underlying the proposed buildings.

6.3 Preliminary Waste Classification for Off-site Disposal

Soil data was compared to criteria in the *Waste Classification Guidelines* (EPA 2014) to provide a preliminary assessment of potential waste classification in the event soil may be required to be removed from site for disposal. Soil only requires classification as a waste where it has to be removed from site, at which time waste classification should be confirmed prior to removal, including additional sampling and analysis and specific waste classification documentation as appropriate.

Initially, the soils will be assessed against the special waste criteria, primarily for the presence of asbestos then, where soils are not pre-classified, comparison of soil chemical analytical data against EPA (2014) contaminant thresholds (CT), specific contaminant concentrations (SCC) and toxicity characteristic leaching procedure (TCLP) criteria for general and restricted solid waste.

6.4 Groundwater Investigation Levels

DEC (2007) instructs that groundwater investigation levels (GILs) be based on a consideration of groundwater's environmental values. Environmental values are defined in ANZG (2018) as "...particular values or uses of the environment that are important for a healthy ecosystem or for public benefit, health, safety or welfare which require protection from the effects of stressors".

NEPC (2013) presents six environmental values which are required to be considered in the assessment of groundwater including:

- Aquatic ecosystems;
- Aquaculture and human consumers of food;
- Agricultural water;
- Recreation and aesthetics;
- Drinking water; and
- Industrial water.

Current and projected contaminant concentrations in groundwater are required to be compared to the GILs at the points of existing and realistic future use for each relevant environmental value.

Beneficial reuse of groundwater at the site is considered unlikely, however, as a conservative guideline, the health and aesthetics based *Australian Drinking Water Guidelines* (NHMRC 2018) for drinking water were adopted for the purposes of the assessment. In addition, although it is unlikely workers would interact with groundwater given its depth reported herein, conservative screening criteria for the assessment of risk to construction/maintenance workers as a result of short term work involving interaction with groundwater at the site, has been adopted as 10 times the health

values for Drinking Water published in (NHMRC 2018). A similar approach is taken to assessing PFAS in groundwater against drinking water and recreational criteria in the PFAS NEMP (HEPA (2020).

To assess the potential risk of contaminated groundwater migrating from the site towards the Murray-Darling confluence, reference has been made to the ANZG (2018) 95 % default trigger values for freshwater aquatic systems. Due to the likelihood of upstream impacts along the Murray-Darling, the 95% protection levels are deemed appropriate. Where no high reliability values have been specified, low reliability and/or screening level values have been utilised for the purpose of site assessment and screening. PFAS NEMP (HEPA 2020) ecological criteria for 95% and 99% protection levels have been used to assess potential risks to receiving waters from PFAS in groundwater, noting that where laboratory LORs are above a most sensitive 99% criterion, as for perfluorooctanesulfonic acid (PFOS), the 95% criterion has been adopted for screening purposes.

Groundwater analytical data for this assessment has also been compared against NEPC (2013) groundwater HSLs for vapour intrusion for low-high density residential land use for clay soils.

7. Quality Assurance /Quality Control

Data quality indicators (DQIs) have been calculated as per the requirements of **Table 5.2** and are summarised in **Table 7.1** following. Laboratory reports are provided as **Appendix L**, with summarised QA/QC results presented in **Appendix M**.

Table 7.1: Summary of Quality Assurance / Quality Control Assessment

Data Quality Indicator	Frequency	Results Reported	DQI met
Precision			
Blind duplicates – soil	3/50 HM, PAHs, TRH, BTEX 2/21 Asbestos 2/29 OCPs, PCBs	<LOR-82% RPD soil	See discussion below
Blind duplicates – water	1/3 all analytes	<LOR-188% RPD water	See discussion below
Split duplicates – soil	3/50 HM, PAHs, TRH, BTEX 2/21 Asbestos 2/29 OCPs, PCBs	<LOR-89% RPD soil	See discussion below
Split duplicates - water	1/3 all analytes	<LOR-187% RPD water	See discussion below
Accuracy			
Laboratory duplicate samples	soil samples water samples	0-200% RPD <1-18% RPD	See discussion below
Surrogate spikes	All samples for organic constituent analysis	23-149 % recovery	See discussion below
Laboratory control samples	soil samples water samples	68-130 % recovery 70-131 % recovery	See discussion below
Matrix spikes	Soil and water	54-127 % recovery soil and water	See discussion below
Representativeness			
Sampling appropriate for media and analytes	All media	All sampling appropriate	Yes
Samples extracted and analysed within holding times.	Various	All samples extracted and analysed within holding times	Yes
Method blank	All analytes	<LOR	Yes
Trip Blank Trip Spike	One per laboratory batch	<LOR for trip blanks and 56 – 100% recovery for trip spikes	See discussion below
Field Blank	Per media and sampling event	<LOR-detects	See discussion below
Rinsate	1 per sampling event	<LOR	Yes
Comparability			
Standard operating procedures for sample collection & handling	All samples	Standard procedures for all sampling	Yes
Standard analytical methods used for all analyses	All samples	Standard analytical methods	Yes
Consistent field conditions, sampling staff and laboratory analysis	All works	Consistent field staff and consistent field and laboratory conditions	Yes
Limits of reporting appropriate and consistent	All samples	LORs appropriate and generally consistent	Yes
Completeness			
Sample description and COCs completed and appropriate	All samples	Field documentation and COC provided and completed	Yes
Appropriate documentation	All works	Documentation provided and completed	Yes
Satisfactory frequency and result for QC samples	95% compliance	See discussion below	Yes
Data from critical samples is considered valid	-	Critical samples valid	Yes

Data Quality Indicator	Frequency	Results Reported	DQI met
Sensitivity			
Analytical methods and limits of recovery appropriate for media and adopted Site assessment criteria	All samples	LOR ≤ site assessment criteria	Yes

7.1 Discussion of QA/QC Results

The results of QA/QC samples outside the acceptance criteria are discussed below.

7.1.1 Precision

Soil Duplicates Samples

Intra-laboratory and inter-laboratory duplicates were mostly analysed at a rate greater than 1 per 20 primary samples. RPDs are presented in **Appendix M.**

Primary and intra-laboratory duplicate sample RPDs were generally within the acceptance criteria, with the exceptions of some metals. Similarly primary and inter-laboratory duplicate sample RPDs were generally within the acceptance criteria, with the exceptions of some metals. The elevated RPDs are considered to be the result of heterogeneity in the soil samples collected and low reported concentrations close to the laboratory LOR. Noting the metals concentrations in all samples were well below adopted assessment criteria, the elevated RPD results are not considered to affect the reliability of the data for site assessment.

Groundwater Duplicate samples

The RPDs between primary groundwater sample (GW03) and intra-laboratory duplicate (DUP01) analytical results were within preferred limits with the exceptions of some TRH fractions (between 52 and-136%), VOCs (180-183% RPD) and some PFAS compounds (RPDs between 40-73%).

The RPDs between primary groundwater sample (GW03) and intra-laboratory duplicate (SPLIT01) analytical results were generally within the preferred limits with the exceptions of zinc (70% RPD), some TRH fractions (92-152% RPD), some VOCs (ranging between 147-187% RPD) and some PFAS compounds (ranging between 86-106% RPD).

The RPDs for the intra-laboratory and inter-laboratory duplicates are presented in **Appendix M** and are considered to be the result of generally low total analyte concentrations. The elevated RPD results are not considered to influence the outcome of the investigation and as a conservative measure, the samples with the highest concentrations were used for site assessment.

7.1.1 Accuracy

Laboratory Duplicates

With the exception of total organic carbon in soil, all RPDs for laboratory duplicates in groundwater and soils were within the acceptable range. RPDs for the concentration of total organic carbon above the JBS&G limit of 30% were reported in two duplicate pairs tested and registered a 'Q15' fail result in laboratory report 962621. In response to this initial fail, the laboratory noted that "*The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report*". As such the results for laboratory duplicates are considered to be acceptable. It is noted that total organic carbon concentrations do not affect reliability of the data for the site assessment, and this parameter is a physiochemical indicator and not a COPC influencing the project objective.

Surrogate Spikes

Soil and groundwater surrogate spikes were conducted on all samples submitted for organic constituent analysis and most recoveries were reported within the preferred range (70-130 %). A small number of surrogates (in soil and water) were reported outside the preferred range, but largely within each laboratory's acceptable limits under their NATA accreditation (50%-150%).

Elevated surrogate recoveries indicate the reported concentrations may potentially be greater than the actual concentrations, while low surrogate recoveries indicate the reported concentrations may potentially be less than the actual concentrations. Taking this into account, it is considered that samples with slightly elevated or lower surrogate recoveries do not affect the reliability of the data for this investigation noting that the concentration of contaminants in the primary samples analysed were largely well below the adopted site assessment criteria.

Matrix Spikes

A sufficient frequency of matrix spike samples were analysed by the primary laboratory. Matrix spike recoveries for groundwater and soil samples were all reported within the JBS&G acceptable range (70-130 %).

Laboratory Control Samples

A sufficient number of laboratory control samples were analysed for all media types. The reported laboratory control sample recoveries were largely within the JBS&G preferred range (70-130 %). Samples exceeding this range were within each laboratory's acceptable limits (typically between 50 and 150 % recovery) under their NATA accreditation. On this basis, the laboratory control sample results were considered acceptable.

7.1.2 Representativeness

Sampling appropriate for media and analytes

All soil and groundwater sampling works completed during the investigation were conducted in accordance with JBS&G standard operating procedures. Soil sampling was conducted with the advancement of boreholes and hand augers, considered appropriate for the potential site chemical contaminants. It is noted that boreholes are not the preferred method of investigation for asbestos, but, given the site was mostly paved with concrete/asphalt and operational, it was considered the only practical method for completing the assessment. Where possible, an auger diameter larger of 300 mm (i.e., >150 mm) was utilised consistent with NEPC (2013) and DOH (2009) guidance. Groundwater sampling was completed using a low flow bladder pump with new and dedicated tubing, which was also considered appropriate for the potential site contaminants in groundwater.

Laboratory Blanks

There were no reported concentrations of contaminant compounds above the laboratory LOR in the laboratory method blanks for soil and groundwater.

Holding Times

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

Trip Spike and Blank

One pair of trip blank and trip blanks were prepared and analysed for the soil and groundwater sample batch, which is appropriately representative of the extent of sampling and analysis completed. Spike recoveries were reported to be within the DQI range and/or the laboratory specified acceptable limits as per the method NATA accreditation.

Decontamination and Calibration

All field equipment was decontaminated and calibrated appropriately as per the procedure identified in **Section 5**. Although PFAS was not analysed in the water sampling rinsate sample, the presence of PFAS in all groundwater samples including duplicate and triplicate samples indicates PFAS is present in groundwater and not a result of cross-contamination from equipment.

Records of field calibration are provided in **Appendix J**.

7.1.3 Comparability

Eurofins (primary laboratory) and Envirolab (secondary laboratory) were NATA accredited for comparable methods of analysis. Field works have been undertaken by a team of experienced samplers in accordance with the same standard operating procedure. All field documentation was appropriately completed.

7.1.4 Completeness

Documentation

All documentation is complete and correct.

Frequency for QC Samples

Frequency of analysis for the QC samples is considered sufficient to meet the objectives of the assessment.

7.1.5 Sensitivity

With the exceptions of some PAHs in water, the laboratory LORs were less than adopted assessment criteria. Noting that no PAH were detected in site soils above the LOR, PAHs in groundwater are not attributable to site contamination and the elevated LORs with respect to water assessment criteria are considered to not affect the data useability for site assessment and groundwater screening.

7.2 QA/QC Assessment

The field sampling and handling procedures produced QA/QC results which indicate that the soil and groundwater data are of an acceptable quality and suitable for use in site characterisation.

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

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

8. Soil Assessment

The lithology encountered at the site during the field works is summarised below. Test pit and borehole logs are included in **Appendix K**.

8.1 Field Observations

Nine boreholes (ED-B1 to ED-B9) were drilled in the ED area. Fill material between 0.1 and 1.4 m deep was encountered in boreholes noting that boreholes ED-B2 and ED-B6 terminated in fill at depths of 0.6 m and 1 m bgs, respectively. Fill material comprised roadbase, gravels, clays and sands, underlain by sand silt and weathered bedrock. No odours, staining or ACM were noted in the ED boreholes.

One had excavated test pit, one mechanically excavated test pit and eight boreholes (MH-B1 to MH-B10) were sampled in the MHU area. Fill material between 0.3 and 1.2 m deep was encountered in boreholes noting that boreholes MH-B1, MH-B3, MH-B5 and MH-B7 terminated in fill at depths of 0.3 m, 1 m, 0.9 m and 1.2 m bgs, respectively. Fill material comprised roadbase, clays and sands, underlain by sand silt and weathered bedrock. Traces of building rubble were encountered in fill in MH-B5, MH-B6 and MH-B10. Slag and two ACM fragments were encountered in fill in MH-B10 and two ACM fragments were observed at the surface at MH-B10. No odours or staining were noted in the boreholes.

PID readings for site soils were all 0 ppm.

8.2 Field Asbestos Quantification

A total of 16 field asbestos quantifications were undertaken during fieldworks and are summarised in **Table C** in **Appendix A**. Visible fragments of ACM were encountered during the field screening/sampling at MH-B10 only at depths 0-0.2 m and 0.2-1 m. In addition, two ACM fragments were observed on the ground surface in the vicinity of MH-B10, although these were removed from site during the investigation and sent to the analytical laboratory. Given the presence of ACM on the ground surface, this exceeds the “no visible asbestos” criterion within surface soils.

8.3 Analytical Results

Laboratory analysis results for soil samples completed for the investigation are summarised in **Table A** and **B** in **Appendix A**, with the results discussed below.

8.3.1 Heavy Metals

Review of results of analysis indicated that heavy metal concentrations in all analysed samples were reported to be below the adopted health-based assessment criteria.

8.3.2 TRH and BTEX

Review of results of analysis indicated that concentrations of TRH and BTEX in all samples analysed were below the adopted assessment criteria.

8.3.1 PAHs

All reported concentrations of PAHs and carcinogenic PAHs as benzo(a)pyrene toxicity equivalence quotient (B(a)P TEQ) were less than the adopted site assessment criteria in all samples selected for analysis.

8.3.2 OCP/PCBs

Concentrations of OCPs and PCBs were less than the adopted site assessment criteria in all samples selected for analysis.

8.3.3 Asbestos

Asbestos was not detected in soil samples submitted for laboratory analysis and all asbestos concentrations in laboratory samples were less than the adopted assessment criteria.

8.4 Preliminary Waste Classification

Review of soil analytical results in **Table E** and additional preliminary leachate (TCLP) analysis on selected samples in **Table F**, in comparison to EPA (2014) guidelines, indicates that fill material would likely classify as General Solid Waste (GSW), or Special Waste mixed with GSW where asbestos is present in soils, should it require disposal. This is preliminary only, and further sampling and analysis would be required to confirm waste classification prior to removal and disposal of any surplus soil.

9. Groundwater Assessment

The monitoring well locations (GW01, GW02 and GW03) are shown on **Figure 5** and installation details for all newly installed wells are provided in **Appendix K**. Groundwater sampling field data sheets are provided in **Appendix J**. Detailed laboratory reports and chain of custody documentation are provided in **Appendix K.**

9.1 Field Observations and Field Measured Parameters

During groundwater gauging, groundwater was encountered between 1.200 to 2.105 m below top of casing (bTOC). A summary of conditions encountered during sampling is presented in **Table 9.1** and **Table 9.2** below.

Table 9.1: Groundwater Field Physiochemical Parameters

Well Reference	Sampling Method	Dissolved Oxygen (mg/L)	pH	Redox (mV) (vs Ag/AgCl)	Electrical Conductivity (EC) (µS/cm)	Temperature (°C)
GW01	Low Flow	0.79	6.84	98	7099	25.6
GW02	Low Flow	1.12	5.63	140	5881	24.9
GW03	Low Flow	1.80	7.13	88	4265	25.4

Low flow parameters are reported following stabilisation of three consecutive readings.

Table 9.2: Groundwater Observations

Well Reference	Odour	Sheen	Turbidity	Non-aqueous phase liquid (NAPL)	Depth to Water (m bTOC)	Total Depth (m bTOC)
GW01	None	None	Low	None detected	1.885	11.96
GW02	None	None	Low	None detected	1.200	11.98
GW03	None	None	Low	None detected	2.105	11.90

Review of the field parameters as presented above indicates that the groundwater had pH values that range from mildly alkaline to mildly acidic. There were no odours or visible sheens in groundwater purged from monitoring wells.

9.2 Groundwater Analytical Results

The water sampling locations are shown on **Figure 5** and laboratory results are summarised in **Table D** in **Appendix A**. Noting that metals and TRH exceed criteria in groundwater at all sampling locations, only PFAS compounds and dichlorobenzenes exceeding adopted criteria are shown on **Figure 5**, for clarity. Analytical results are discussed in the following sections.

9.2.1 Heavy Metals

Review of laboratory analytical results indicates heavy metal concentrations were below the adopted criteria with the following exceptions:

- Copper, exceeding the freshwater criterion (0.0014 mg/L) at all monitoring well locations (GW01, GW02 and GW03), with concentrations ranging between 0.008 mg/L and 0.085 mg/L;
- Nickel, exceeding the freshwater criterion (0.011 mg/L) at monitoring well locations GW01 and GW03, with concentrations ranging between 0.012 mg/L and 0.017 mg/L; and
- Zinc, exceeding the freshwater criterion (0.008 mg/L) at all monitoring well locations, with concentrations ranging between 0.076 mg/L and 0.98 mg/L.

The heavy metals concentrations in groundwater appear to be indicative of background concentrations, likely relating to typical urban influences and possibly naturally elevated concentrations associated with the local hydrogeological setting. Copper, nickel and zinc concentrations recorded in site soils are considered to be low and unlikely attributing to elevated metals concentrations in groundwater, in particular zinc at GW02. However, the presence of other contaminants in groundwater Impacts to groundwater (**Sections 9.2.2** to **9.2.5**) indicate some

contaminant impacts to groundwater that are potentially from an upgradient source, which may also be the source of metals impacts to groundwater.

9.2.2 PAHs

The reported concentrations of PAHs were mostly below the laboratory LOR, noting that the LOR was greater than the assessment criteria for a number of PAHs. Anthracene (0.03 µg/L) in a duplicate sample of GW03 exceeded the adopted freshwater DGV (0.01 µg/L).

PAH concentrations recorded in site soils were all low and unlikely attributing to PAHs detected in groundwater.

9.2.3 TRH and BTEX

With the exceptions of TRH in GW02 and GW03 exceeding WHO drinking water criteria, TRH concentrations were below adopted assessment criteria.

Applying a factor of 10 to adopted TRH drinking water criteria to provide potential recreational screening criteria, the TRH concentrations are considered to not pose an unacceptable risk to site works that may come into contact with site groundwater.

TRH concentrations recorded in site soils were low and unlikely attributing to TRH concentrations detected in groundwater.

BTEX concentrations were all less than adopted assessment criteria.

9.2.4 Volatile Organic Compounds

Review of results of analysis indicated that with concentrations of VOCs were less than adopted assessment criteria with the following exceptions:

- 0.27 mg/L of 1,2-dichlorobenzene in GW03, exceeding the freshwater criterion (0.16 mg/L); and
- 0.062 mg/L of 1,4-dichlorobenzene in GW03 exceeding the freshwater criterion (0.06 mg/L).

VOCs were not recorded in site soils, which are unlikely attributing to VOCs detected in groundwater.

9.2.5 PFAS

PFAS concentrations were below the adopted health-based criteria with the following exceptions:

- Sum of PFHxS and PFOS, exceeding the adopted drinking water criterion (0.07 µg/L) at all monitoring well locations, with concentrations ranging between 0.08 µg/L and 0.31 µg/L.

PFAS concentrations were below the adopted ecological-based criteria with the following exceptions:

- 0.28 µg/L PFOS in GW03 exceeding the NEMP Freshwater 95% (0.13 µg/L); and
- PFOS, exceeding the NEMP Freshwater 99% (0.00023 µg/L) in all monitoring wells, with concentrations ranging between 0.04 µg/L and 0.07 µg/L.

10. Site Characterisation

Based on the decision-making process for evaluating land-use suitability detailed in EPA (2017) and outlined in **Section 5.1.5**, the decisions required to be made in order to satisfy the objectives of the assessment are discussed below.

10.1 Are there any unacceptable risks to likely future onsite receptors from soils?

Representative samples of fill material and natural soils within accessible areas of the site were analysed for a range of identified COPCs including heavy metals, PAHs, TRH, BTEX, OCP/PCBs and asbestos.

Bonded ACM exceeded the site assessment criteria at one location (MH-B10) and therefore poses a potential unacceptable risk to potential future site receptors.

Concentrations of all other COPCs in soils were all below health-based assessment criteria and therefore do not pose a potential unacceptable risk to potential future site receptors.

10.2 Are there any issues relating to local area background soil concentrations that exceed the appropriate soil criteria?

Based on the metals concentrations recorded in site soils there were no issues identified relating to local area background concentrations.

10.3 Are there any unacceptable human health and ecological risks present in groundwater underlying the site?

Elevated heavy metals, VOCs and PFAS were detected in groundwater at all three monitoring well locations. Although dichlorobenzene in one sample and TRH and Sum of PFHxS and PFOS in groundwater sampled from all wells exceeded the drinking water criterion, noting the presence of reticulated drinking water in the area, the site groundwater Is not considered to be a drinking water source. Therefore, PFAS in groundwater marginally exceeding the drinking water criteria does not affect site suitability for the proposed use.

Metals and PFAS concentrations in groundwater in all wells and two dichlorobenzenes and anthracene in GW03 exceed adopted ecological screening criteria and pose a potential risk to ecological receptors in the event that groundwater discharges to a receiving surface water body.

The presence of PFAS and other contaminants in groundwater in all three monitoring wells indicates a potential upgradient source of groundwater impact.

10.4 Are there any impacts of chemical mixtures?

There were no potential chemical mixtures identified during the investigation that may pose a management issue at the site.

10.5 Are there any aesthetic issues at the site?

Minor anthropogenic inclusions in fill material observed in some sampling locations are considered to not pose an aesthetic issue based on the current and proposed site use.

Two ACM fragments were visually identified on the ground surface in the vicinity one sampling location MH-B10 and are considered to be an aesthetic issue.

10.6 Is there any evidence of, or potential for, migration of contaminants from the site?

Groundwater impacted with heavy metals, TRH, PFAS and VOCs were recorded across the site, however, based on concentrations of COPCs in site soils, the impacts to groundwater are inferred to be due to an off-site source of impacted groundwater migrating through the site.

10.7 Is a site management strategy required?

Yes, a site management strategy is required to address the presence of bonded ACM in surface soils at MH-BH10.

It is noted that the DSI investigation was limited to the MHU and ED footprints provided at the time of investigation. Given the potential for contamination in specific areas across the broader hospital campus, such as asbestos and/or lead impacted soils in areas of historical building demolition, its recommended that validation data gap sampling should be completed in the additional site areas added post assessment (refer **Figures 2-4**).

11. Conclusions and Recommendations

11.1 Conclusions

Based on the findings of this investigation, and subject to the limitations in **Section 12**, it is concluded that the site can be made suitable for the proposed land use subject to implementation of a RAP.

11.2 Recommendations

The following recommendations are provided:

- A RAP should be prepared and implemented in accordance with the relevant regulatory requirements that documents the procedures and standards to be followed in order to address the identified asbestos impacted soils and data gaps as to make the site suitable for the proposed future uses.
- A redevelopment/remediation specific AMP should be developed for the proposed remediation and redevelopment works.

12. Limitations

This report has been prepared for use by the client who has commissioned the works in accordance with the project brief only, and has been based in part on information obtained from the client and other parties.

The advice herein relates only to this project and all results conclusions and recommendations made should be reviewed by a competent person with experience in environmental investigations, before being used for any other purpose.

JBS&G accepts no liability for use or interpretation by any person or body other than the client who commissioned the works. This report should not be reproduced without prior approval by the client, or amended in any way without prior approval by JBS&G, and should not be relied upon by other parties, who should make their own enquiries.

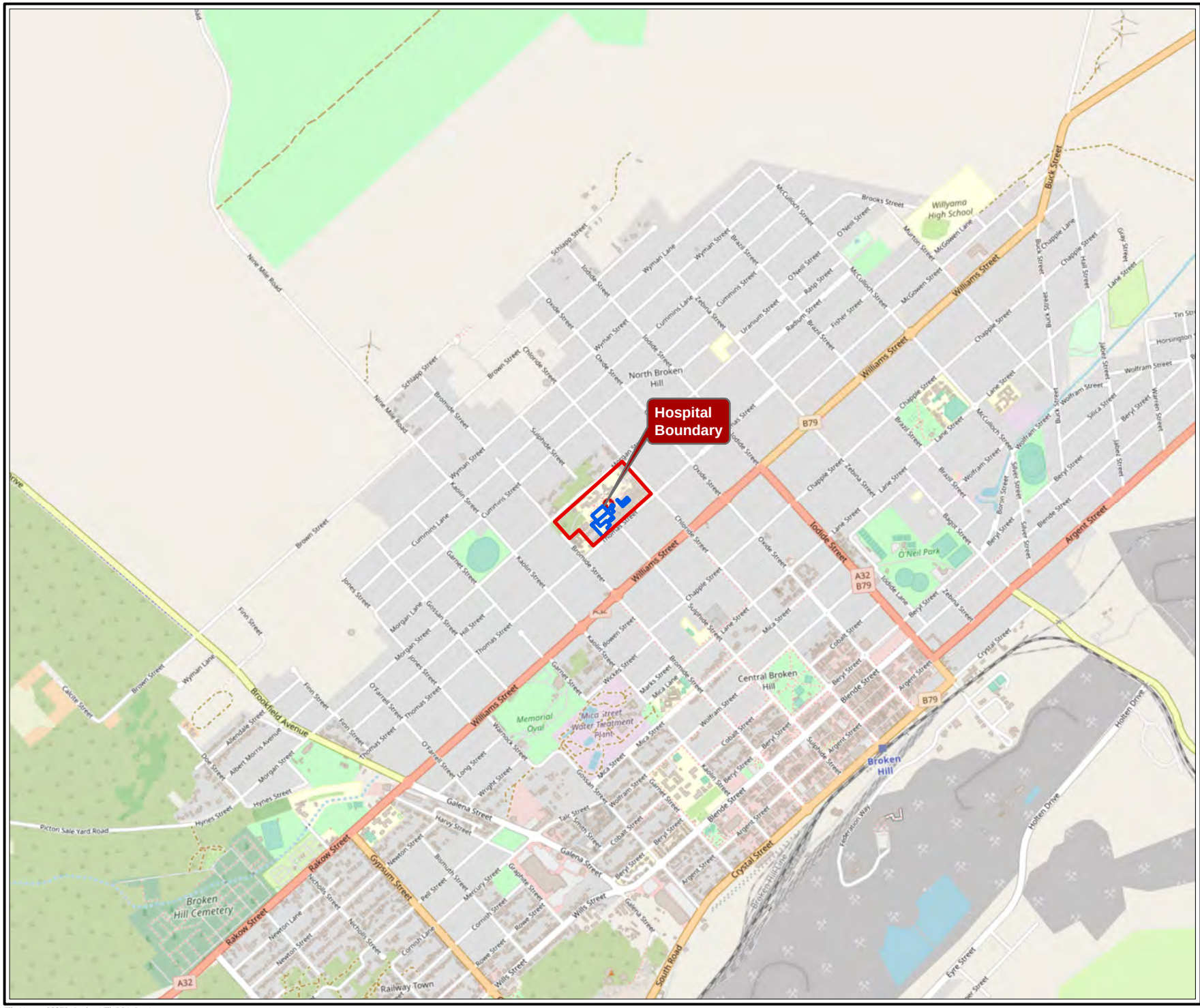
Sampling and chemical analysis of environmental media is based on appropriate guidance documents made and approved by the relevant regulatory authorities. Conclusions arising from the review and assessment of environmental data are based on the sampling and analysis considered appropriate based on the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

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

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

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

Figures



Legend:
- Broken Hill Hospital Boundary
- Broken Hill Hospital Redevelopment (the site)

JBS&G

Job No: 63879

Client: Health Infrastructure

Version: R04 Rev 1	Date 20/10/2023
Drawn By: LJ/AB	Checked By: MH

Scale 1:25,000

N

0 250 500
metres

Coord. Sys. GDA 1994 MGA Zone 56

170-320 Thomas Street
Broken Hill, NSW

SITE LOCATION

FIGURE 1

File Name: 63879_BrokenHill_R04_Rev1
Reference: © OpenStreetMap (and) contributors, CC-BY-SA



Legend:

- Approximate Site Boundary
- ED Refurbishment and Expansion
- MHU Expansion Opportunities
- New Areas Added Post Assessment, Data Gaps, Require Further Assessment
- Kincumber House

JBS&G

Job No: 63879

Client: Health Infrastructure

Version: R04 Rev 1	Date 20/10/2023
Drawn By: LJ/AB	Checked By: MH

Scale 1:1,250

0 10 20

metres

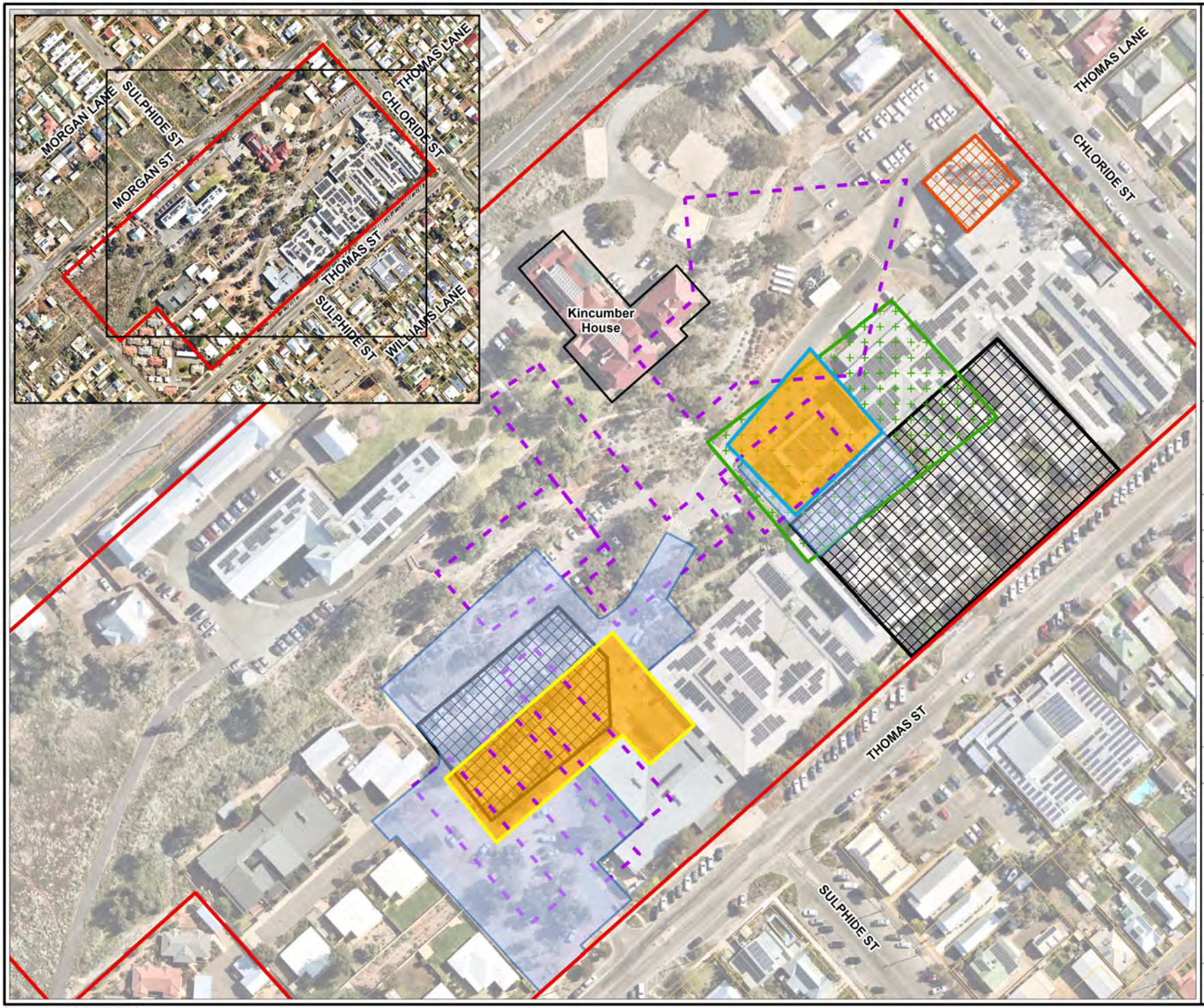
Coord. Sys. GDA 1994 MGA Zone 56

170-320 Thomas Street
Broken Hill, NSW

SITE LAYOUT

FIGURE 2

File Name: 63879_BrokenHill_R04_Rev1
Reference: Nearmap www.nearmap.com 20221017



Legend:

- Approximate Site Boundary
- NSW Cadastre
- ED Refurbishment and Expansion
- MHU Expansion Opportunities
- New Areas Added Post Assessment, Data Gaps, Require Further Assessment
- Kincumber House

Areas of Environmental Concern

- Fill of Unknown Origin
- Former Building Footprint
- Laundry Facilities
- Former Orchard
- Former Carpark

JBS&G

Job No: 63879

Client: Health Infrastructure

Version: R04 Rev 1	Date 20/10/2023
Drawn By: LJ/AB	Checked By: MH

Scale 1:1,750

0 25 50

metres

Coord. Sys. GDA 1994 MGA Zone 56

170-320 Thomas Street
Broken Hill, NSW

AREAS OF ENVIRONMENTAL CONCERN

FIGURE 3

File Name: 63879_BrokenHill_R04_Rev1
Reference: Nearmap www.nearmap.com 20221017



Legend:

- Approximate Site Boundary
- NSW Cadastre
- ED Refurbishment and Expansion
- MHU Expansion Opportunities
- New Areas Added Post Assessment, Data Gaps, Require Further Assessment
- Kincumber House

Areas of Environmental Concern

- Fill of Unknown Origin
- Former Building Footprint
- Former Orchard
- Former Carpark

Sample Locations

- Sample Location
- Asbestos Exceedance

JBS&G

Job No: 63879

Client: Health Infrastructure

Version: R04 Rev 1	Date 20/10/2023
Drawn By: LJ/AB	Checked By: MH

Scale 1:1,000

0 10 20

metres

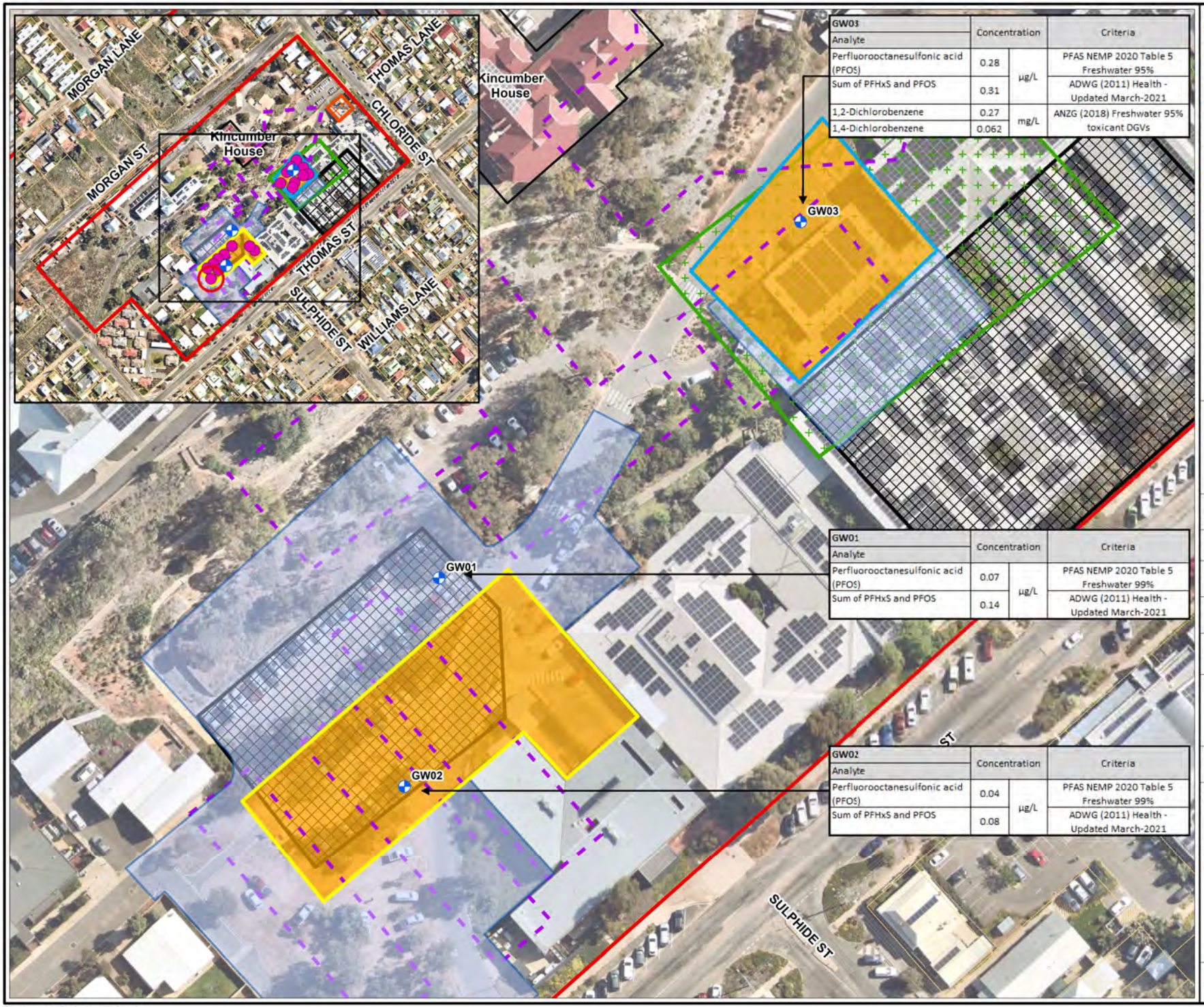
Coord. Sys. GDA 1994 MGA Zone 56

170-320 Thomas Street
Broken Hill, NSW

SOIL SAMPLE LOCATIONS AND EXCEEDANCES

FIGURE 4

File Name: 63879_BrokenHill_R04_Rev1
Reference: Nearmap www.nearmap.com 20221017



GW03	Concentration		Criteria
Analyte			
Perfluorooctanesulfonic acid (PFOS)	0.28	µg/L	PFAS NEMP 2020 Table 5 Freshwater 95%
Sum of PFHxS and PFOS	0.31		ADWG (2011) Health - Updated March-2021
1,2-Dichlorobenzene	0.27	mg/L	ANZG (2018) Freshwater 95% toxicant DGVs
1,4-Dichlorobenzene	0.062		

GW01	Concentration		Criteria
Analyte			
Perfluorooctanesulfonic acid (PFOS)	0.07	µg/L	PFAS NEMP 2020 Table 5 Freshwater 99%
Sum of PFHxS and PFOS	0.14		ADWG (2011) Health - Updated March-2021

GW02	Concentration		Criteria
Analyte			
Perfluorooctanesulfonic acid (PFOS)	0.04	µg/L	PFAS NEMP 2020 Table 5 Freshwater 99%
Sum of PFHxS and PFOS	0.08		ADWG (2011) Health - Updated March-2021

Legend:

- Approximate Site Boundary
- NSW Cadastre
- ED Refurbishment and Expansion
- MHU Expansion Opportunities
- New Areas Added Post Assessment, Data Gaps, Require Further Assessment
- Kincumber House

Areas of Environmental Concern

- Fill of Unknown Origin
- Former Building Footprint
- Former Orchard
- Former Carpark

Sample Locations

- Groundwater Sample Location

JBS&G

Job No: 63879

Client: Health Infrastructure

Version: R04 Rev 1 | Date 20/10/2023

Drawn By: LJ/AB | Checked By: MH

Scale 1:1,100

0 10 20

metres

Coord. Sys. GDA 1994 MGA Zone 56

170-320 Thomas Street
Broken Hill, NSW

GROUNDWATER SAMPLE LOCATIONS AND EXCEEDANCES

FIGURE 5

File Name: 63879_BrokenHill_R04_Rev1
Reference: Nearmap www.nearmap.com 20221017

Appendix A Summary Tables

Tables A - Results of Chemical Soil Analysis
Project Number: 63879
Project Name: Broken Hill Hospital Redevelopment

				Metals & Metalloids									TPHs (NEPC 1999)					TRHs (NEPC 2013)							BTEXN					
				Arsenic	Cadmium	Chromium (III+VI)	Copper	Iron	Lead	Mercury	Nickel	Zinc	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum of Total)	C6-C10	C10-C16	C16-C34	C34-C40	C10-C40 (Sum of total)	F1 (C6-C10 minus BTEX)	F2 (C10-C16 less Naphthalene)	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total
				mg/kg	mg/kg	mg/kg	mg/kg	MG/KG	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				2	0.4	5	5	20	5	0.1	5	5	20	20	50	50	50	20	50	100	100	100	20	50	0.1	0.1	0.1	0.1	0.2	0.3
NEPM 2013 Table 1A(1) HILs Res B Soil				500	150	500	30000		1200	120	1200	60000																		
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																		800	1000	3500	10000									
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand																														
0-1m																							50	280	0.7	480	NL			110
Field_ID	**Location**	**Sample Depth (m)**	**Matrix Description**																											
ED-B1_0.4-0.5	ED-B1	0.4-0.5	Fill, clayey, gravelly sand	2.7	<0.4	21	30	-	14	<0.1	13	39	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPLIT02				<4	<0.4	12	37	-	10	<0.1	6	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP02				<2	<0.4	11	51	-	10	<0.1	7.1	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B1_0.9-1.0	ED-B1	0.9-1	Fill, clayey, gravelly sand	2.1	<0.4	18	37	-	13	<0.1	12	36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B1_0.0-0.1	ED-B1	0-0.1	Fill, clayey, gravelly sand	2.1	<0.4	16	26	31,000	11	<0.1	14	46	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3
ED-B2_0.2-0.3	ED-B2	0.2-0.3	Fill, silty sand	4.5	<0.4	18	16	-	12	<0.1	21	52	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3
ED-B2_0.0-0.1	ED-B2	0-0.1	Fill, roadbase	11	<0.4	17	25	-	16	<0.1	19	53	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B3_0.2-0.3	ED-B3	0.2-0.3	Fll, sand	<2	<0.4	14	<5	-	<5	<0.1	7.9	31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B3_0.0-0.1	ED-B3	0-0.1	Fill, roadbase	5.9	<0.4	17	9	-	9	<0.1	11	41	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3
ED-B4_0.1-0.2	ED-B4	0.1-0.2	Fill, sand	<2	<0.4	7.7	<5	-	<5	<0.1	<5	9.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B4_0.4-0.5	ED-B4	0.4-0.5	Fill, sand	<2	<0.4	7.4	<5	-	<5	<0.1	<5	7.4	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3
ED-B5_0.2-0.3	ED-B5	0.2-0.3	Fill, sand	<2	<0.4	7.6	<5	-	<5	<0.1	<5	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B5_0.0-0.1	ED-B5	0-0.1	Fill, sand	<2	<0.4	7.7	<5	-	<5	<0.1	<5	9.2	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3
ED-B6_0.1-0.2	ED-B6	0.1-0.2	Fill, sand	<2	<0.4	7.4	<5	-	<5	<0.1	<5	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B6_0.2-0.3	ED-B6	0.2-0.3	Fill, sand	3.4	<0.4	8.5	6	-	<5	<0.1	6	14	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3
ED-B7_0.2-0.3	ED-B7	0.2-0.3	Fill, gravelly clay	4.7	1.1	24	17	-	25	<0.1	18	130	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B7_0.0-0.2	ED-B7	0-0.2	Fill, roadbase	69	<0.4	25	40	-	17	<0.1	28	77	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3
ED-B8_0.3-0.4	ED-B8	0.3-0.4	Fill, roadbase	7.7	<0.4	29	26	-	37	<0.1	19	89	<20	<20	<50	150	150	<20	<50	130	170	300	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3
ED-B8_0.5-0.6	ED-B8	0.5-0.6		4.3	<0.4	52	28	-	43	<0.1	31	95	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B8_0.8-1.0	ED-B8	0.8-1	Clayey, sandy gravel	3.9	<0.4	35	16	-	19	<0.1	27	43	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3
ED-B8_0.0-0.2	ED-B8	0-0.2	Fill, roadbase	110	<0.4	17	24	-	12	<0.1	22	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B9_0.1-0.2	ED-B9	0.1-0.2	Fill, sand	<2	<0.4	8.7	5.5	-	<5	<0.1	<5	11	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3
ED-B9_0.0-0.1	ED-B9	0-0.1	Fill, clayey, sandy gravel	2.5	<0.4	12	12	-	33	<0.1	7.1	72	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B1_0.1-0.2	MH-B1	0.1-0.2	Fill, gravelly sand	2.7	<0.4	27	59	-	35	<0.1	19	110	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3
MH-B1_0.2-0.3	MH-B1	0.2-0.3	Fill, sandy clay	8.9	<0.4	34	35	-	140	0.2	24	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B1_0.0-0.1	MH-B1	0-0.1	Fill, silty sand	3.5	<0.4	26	23	-	42	<0.1	14	120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B10_0.2-0.4	MH-B10	0.2-0.4	Fill, sandy clay	5.8	1	26	34	-	310	0.8	17	490	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3
MH-B10_0.5-0.6	MH-B10	0.5-0.6	Fill, clay	6.1	1.2	27	36	-	470	0.8	19	510	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B10_0.0-0.2	MH-B10	0-0.2	Fill, sandy clay	4.4	0.8	23	32	-	260	1.6	15	330	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3
MH-B2_0.2-0.3	MH-B2	0.2-0.3	Fill, roadbase	11	<0.4	51	74	-	120	<0.1	36	180	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B2_0.4-0.5	MH-B2	0.4-0.5	Fill, roadbase	7.9	<0.4	48	44	-	100	<0.1	33	180	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3

Tables A - Results of Chemical Soil Analysis
Project Number: 63879
Project Name: Broken Hill Hospital Redevelopment

	Metals & Metalloids									TPHs (NEPC 1999)					TRHs (NEPC 2013)							BTEXN					
	Arsenic	Cadmium	Chromium (III+VI)	Copper	Iron	Lead	Mercury	Nickel	Zinc	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum of Total)	C6-C10	C10-C16	C16-C34	C34-C40	C10-C40 (Sum of total)	F1 (C6-C10 minus BTEX)	F2 (C10-C16 less Naphthalene)	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total
	mg/kg	mg/kg	mg/kg	mg/kg	MG/KG	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	2	0.4	5	5	20	5	0.1	5	5	20	20	50	50	50	20	50	100	100	100	20	50	0.1	0.1	0.1	0.1	0.2	0.3
NEPM 2013 Table 1A(1) HILs Res B Soil	500	150	500	30000		1200	120	1200	60000																		
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil															800	1000	3500	10000									
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand																											
0-1m																				50	280	0.7	480	NL			110

Field_ID	Location	Sample Depth (m)	Matrix Description	Arsenic	Cadmium	Chromium (III+VI)	Copper	Iron	Lead	Mercury	Nickel	Zinc	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum of Total)	C6-C10	C10-C16	C16-C34	C34-C40	C10-C40 (Sum of total)	F1 (C6-C10 minus BTEX)	F2 (C10-C16 less Naphthalene)	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total
MH-B3_0.2-0.3	MH-B3	0.2-0.3	Fill, sand	<2	<0.4	9.3	<5	-	<5	<0.1	<5	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B3_0.8-1.0	MH-B3	0.8-1	Fill, gravelly sand	3	<0.4	47	9.3	-	14	<0.1	26	49	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3
SPLIT03	MH-B3			<4	<0.4	38	7	-	10	<0.1	19	32	<25	<50	<100	<100	<50	<25	<50	<100	<100	<100	<25	<50	<0.2	<0.5	<1	<1	<2	<1
DUP03	MH-B3			2.7	<0.4	43	8.3	-	14	<0.1	23	44	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3
MH-B3_0.0-0.1	MH-B3	0-0.1	Fill, sand	<2	<0.4	10	13	-	14	<0.1	5.6	47	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3
MH-B4_0.2-0.3	MH-B4	0.2-0.3	Fill, roadbase	71	<0.4	26	46	-	24	<0.1	35	87	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3
MH-B4_0.6-0.7	MH-B4	0.6-0.7	Silty, gravelly clay	11	<0.4	28	<5	-	11	<0.1	15	61	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B5_0.1-0.2	MH-B5	0.1-0.2	Fill, gravelly clay	22	<0.4	21	45	-	24	<0.1	26	59	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3
MH-B5_0.4-0.5	MH-B5	0.4-0.5	Fill, gravelly clay	6.7	<0.4	24	28	-	19	<0.1	16	53	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3
MH-B5_0.8-0.9	MH-B5	0.8-0.9	Fill, gravelly clay	8.4	<0.4	21	21	-	20	<0.1	14	44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B5_0.0-0.1	MH-B5	0-0.1	Fill, sandy gravel	32	<0.4	19	42	-	24	<0.1	24	59	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B6_0.2-0.3	MH-B6	0.2-0.3	Fill, clayey, gravelly sand	4.9	<0.4	30	24	27,000	22	<0.1	17	72	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B6_0.4-0.5	MH-B6	0.4-0.5	Fill, clayey, gravelly sand	2.6	<0.4	29	11	-	13	<0.1	13	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B6_0.0-0.1	MH-B6	0-0.1	Fill, clayey, gravelly sand	15	<0.4	29	35	-	25	<0.1	24	99	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3
MH-B7_0.2-0.3	MH-B7	0.2-0.3	Fill, gravelly sand	3.5	<0.4	30	9	-	13	<0.1	17	54	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3
MH-B7_0.9-1.0	MH-B7	0.9-1	Fill, gravelly sand	2.3	<0.4	27	8.6	-	9.8	<0.1	15	47	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3
SPLIT01	MH-B7			4	<0.4	22	9	-	9	<0.1	12	35	<25	<50	<100	<100	<50	<25	<50	<100	<100	<50	<25	<50	<0.2	<0.5	<1	<1	<2	<1
DUP01	MH-B7			5.5	<0.4	26	9.3	-	16	<0.1	15	47	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3
MH-B7_0.0-0.1	MH-B7	0-0.1	Fill, gravelly sand	3.5	<0.4	29	9.4	-	11	<0.1	16	51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B8_0.1-0.2	MH-B8	0.1-0.2	Fill, silty gravel	42	<0.4	20	44	-	22	<0.1	31	71	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B8_0.4-0.5	MH-B8	0.4-0.5	Fill, silty, gravelly clay	5.6	<0.4	37	22	-	18	<0.1	21	55	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3
MH-B8_0.5-0.6	MH-B8	0.5-0.6	Clay	16	<0.4	38	27	-	16	<0.1	25	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B9_0.2-0.3	MH-B9	0.2-0.3	Fill, sandy clay	30	<0.4	22	38	-	100	<0.1	24	75	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3
MH-B9_0.9-1.0	MH-B9	0.9-1	Silty clay	6.3	<0.4	41	27	-	15	<0.1	25	68	<20	<20	<50	<50	<50	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3
MH-B9_0.0-0.1	MH-B9	0-0.1	Fill, roadbase	34	<0.4	20	53	-	25	<0.1	27	72	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Statistical Summary

Number of Results	0	56	56	56	2	56	56	56	56	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29
Number of Detects	0	4	56	48	2	47	4	49	56	0	0	0	1	1	0	0	1	1	1	0	0	0	0	0	0	0	0	0
Minimum Concentration	99999	<0.4	7.4	<5	27000	<5	<0.1	<5	7.4	<20	<20	<50	<50	<50	<20	<50	<100	<100	<50	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3
Minimum Detect	ND	0.8	7.4	5.5	27000	9	0.2	5.6	7.4	ND	ND	ND	150	150	ND	ND	130	170	300	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration	0	1.2	52	74	31000	470	1.6	36	510	<25	<50	<100	150	150	<25	<50	130	170	300	<25	<50	<0.2	<0.5	<1	<1	<2	<1
Maximum Detect	ND	1.2	52	74	31000	470	1.6	36	510	ND	ND	ND	150	150	ND	ND	130	170	300	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration		0.26	24	23		41	0.11	17	79	10	11	27	31	29	10	25	53	54	57	10	25	0.053	0.064	0.081	0.081	0.16	0.17
Median Concentration		0.2	23.5	23.5	29000	15.5	0.05	17	53.5	10	10	25	25	25	10	25	50	50	50	10	25	0.05	0.05	0.05	0.05	0.1	0.15
Standard Deviation		0.22	12	17		81	0.25	9.1	97	0.64	3.9	6.4	24	23	0.64	0	15	22	47	0.64	0	0.013	0.052	0.12	0.12	0.23	0.09
Number of Guideline Exceedances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Tables A - Results of Chemical Soil Analysis
Project Number: 63879
Project Name: Broken Hill Hospital Redevelopment

					PAH																					
			Total BTEX	Naphthalene_VOC	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(a)pyrene TEQ (LOR)	Benzo(a)pyrene TEQ calc (Half)	Benzo(a)pyrene TEQ calc (Zero)	Benzo(b+j)fluoranthene	Benzo(b+j+k)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	PAHs (Sum of total)
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL			1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
NEPM 2013 Table 1A(1) HILs Res B Soil										4	4	4													400
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																									
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand																									
0-1m				5																		5			
Field_ID	**Location**	**Sample Depth (m)**	**Matrix Description**																							
ED-B1_0.4-0.5	ED-B1	0.4-0.5	Fill, clayey, gravelly sand	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SPLIT02				-	-	<0.1	<0.1	<0.1	<0.1	<0.05	<0.5	<0.5	<0.5	-	<0.2	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05
DUP02				-	-	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ED-B1_0.9-1.0	ED-B1	0.9-1	Fill, clayey, gravelly sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B1_0.0-0.1	ED-B1	0-0.1	Fill, clayey, gravelly sand	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ED-B2_0.2-0.3	ED-B2	0.2-0.3	Fill, silty sand	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ED-B2_0.0-0.1	ED-B2	0-0.1	Fill, roadbase	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ED-B3_0.2-0.3	ED-B3	0.2-0.3	Fll, sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B3_0.0-0.1	ED-B3	0-0.1	Fill, roadbase	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ED-B4_0.1-0.2	ED-B4	0.1-0.2	Fill, sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B4_0.4-0.5	ED-B4	0.4-0.5	Fill, sand	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ED-B5_0.2-0.3	ED-B5	0.2-0.3	Fill, sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B5_0.0-0.1	ED-B5	0-0.1	Fill, sand	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ED-B6_0.1-0.2	ED-B6	0.1-0.2	Fill, sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B6_0.2-0.3	ED-B6	0.2-0.3	Fill, sand	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ED-B7_0.2-0.3	ED-B7	0.2-0.3	Fill, gravelly clay	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ED-B7_0.0-0.2	ED-B7	0-0.2	Fill, roadbase	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ED-B8_0.3-0.4	ED-B8	0.3-0.4	Fill, roadbase	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ED-B8_0.5-0.6	ED-B8	0.5-0.6		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B8_0.8-1.0	ED-B8	0.8-1	Clayey, sandy gravel	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ED-B8_0.0-0.2	ED-B8	0-0.2	Fill, roadbase	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ED-B9_0.1-0.2	ED-B9	0.1-0.2	Fill, sand	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ED-B9_0.0-0.1	ED-B9	0-0.1	Fill, clayey, sandy gravel	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MH-B1_0.1-0.2	MH-B1	0.1-0.2	Fill, gravelly sand	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MH-B1_0.2-0.3	MH-B1	0.2-0.3	Fill, sandy clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B1_0.0-0.1	MH-B1	0-0.1	Fill, silty sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B10_0.2-0.4	MH-B10	0.2-0.4	Fill, sandy clay	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MH-B10_0.5-0.6	MH-B10	0.5-0.6	Fill, clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B10_0.0-0.2	MH-B10	0-0.2	Fill, sandy clay	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MH-B2_0.2-0.3	MH-B2	0.2-0.3	Fill, roadbase	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B2_0.4-0.5	MH-B2	0.4-0.5	Fill, roadbase	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Tables A - Results of Chemical Soil Analysis
Project Number: 63879
Project Name: Broken Hill Hospital Redevelopment

				PAH																					
				Total BTEX	Naphthalene_VOC	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(a)pyrene TEQ (LOR)	Benzo(a)pyrene TEQ calc (Half)	Benzo(a)pyrene TEQ calc (Zero)	Benzo(b+j)fluoranthene	Benzo(b+j+k)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	PAHs (Sum of total)
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
NEPM 2013 Table 1A(1) HILs Res B Soil											4	4	4													400
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																										
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand																										
0-1m					5																		5			
Field_ID	**Location**	**Sample Depth (m)**	**Matrix Description**																							
MH-B3_0.2-0.3	MH-B3	0.2-0.3	Fill, sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B3_0.8-1.0	MH-B3	0.8-1	Fill, gravelly sand	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SPLIT03	MH-B3			<1	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.5	<0.5	<0.5	-	<0.2	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05
DUP03	MH-B3			-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MH-B3_0.0-0.1	MH-B3	0-0.1	Fill, sand	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MH-B4_0.2-0.3	MH-B4	0.2-0.3	Fill, roadbase	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MH-B4_0.6-0.7	MH-B4	0.6-0.7	Silty, gravelly clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B5_0.1-0.2	MH-B5	0.1-0.2	Fill, gravelly clay	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MH-B5_0.4-0.5	MH-B5	0.4-0.5	Fill, gravelly clay	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MH-B5_0.8-0.9	MH-B5	0.8-0.9	Fill, gravelly clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B5_0.0-0.1	MH-B5	0-0.1	Fill, sandy gravel	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B6_0.2-0.3	MH-B6	0.2-0.3	Fill, clayey, gravelly sand	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MH-B6_0.4-0.5	MH-B6	0.4-0.5	Fill, clayey, gravelly sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B6_0.0-0.1	MH-B6	0-0.1	Fill, clayey, gravelly sand	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MH-B7_0.2-0.3	MH-B7	0.2-0.3	Fill, gravelly sand	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MH-B7_0.9-1.0	MH-B7	0.9-1	Fill, gravelly sand	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SPLIT01	MH-B7			<1	<1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.5	<0.5	<0.5	-	<0.2	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05
DUP01	MH-B7			-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MH-B7_0.0-0.1	MH-B7	0-0.1	Fill, gravelly sand	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MH-B8_0.1-0.2	MH-B8	0.1-0.2	Fill, silty gravel	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MH-B8_0.4-0.5	MH-B8	0.4-0.5	Fill, silty, gravelly clay	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MH-B8_0.5-0.6	MH-B8	0.5-0.6	Clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B9_0.2-0.3	MH-B9	0.2-0.3	Fill, sandy clay	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MH-B9_0.9-1.0	MH-B9	0.9-1	Silty clay	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MH-B9_0.0-0.1	MH-B9	0-0.1	Fill, roadbase	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Statistical Summary																										
Number of Results				2	29	40	40	40	40	40	40	40	40	37	3	40	37	40	40	40	40	40	40	40	40	40
Number of Detects				0	0	0	0	0	0	0	37	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration				<1	<0.5	<0.1	<0.1	<0.1	<0.1	<0.05	<0.5	<0.5	<0.5	<0.5	<0.2	<0.1	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05
Minimum Detect				ND	ND	ND	ND	ND	ND	ND	1.2	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration				<1	<1	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Maximum Detect				ND	ND	ND	ND	ND	ND	ND	1.2	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration					0.27	0.24	0.24	0.24	0.24	0.23	1.1	0.57	0.25	0.25	0.1	0.24	0.25	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.23
Median Concentration				0.5	0.25	0.25	0.25	0.25	0.25	0.25	1.2	0.6	0.25	0.25	0.1	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Standard Deviation					0.064	0.053	0.053	0.053	0.053	0.06	0.25	0.093	0	0	0	0.053	0	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.06
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Tables A - Results of Chemical Soil Analysis
Project Number: 63879
Project Name: Broken Hill Hospital Redevelopment

				Organochlorine Pesticides																							
				4,4-DDE	a-BHC	b-BHC	d-BHC	g-BHC (Lindane)	Aldrin	Dieldrin	Aldrin + Dieldrin	Chlordane	Chlordane (cis)	Chlordane (trans)	DDT	DDD	DDT+DDE+DDD	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor Epoxide	Methoxychlor	Toxaphene
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.1	0.1	0.1	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.5
NEPM 2013 Table 1A(1) HILs Res B Soil											10	90					600				20			10		500	30
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																											
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand																											
0-1m																											
Field_ID	**Location**	**Sample Depth (m)**	**Matrix Description**																								
ED-B1_0.4-0.5	ED-B1	0.4-0.5	Fill, clayey, gravelly sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPLIT02				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP02				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B1_0.9-1.0	ED-B1	0.9-1	Fill, clayey, gravelly sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B1_0.0-0.1	ED-B1	0-0.1	Fill, clayey, gravelly sand	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5
ED-B2_0.2-0.3	ED-B2	0.2-0.3	Fill, silty sand	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5
ED-B2_0.0-0.1	ED-B2	0-0.1	Fill, roadbase	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B3_0.2-0.3	ED-B3	0.2-0.3	Fll, sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B3_0.0-0.1	ED-B3	0-0.1	Fill, roadbase	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5
ED-B4_0.1-0.2	ED-B4	0.1-0.2	Fill, sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B4_0.4-0.5	ED-B4	0.4-0.5	Fill, sand	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5
ED-B5_0.2-0.3	ED-B5	0.2-0.3	Fill, sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B5_0.0-0.1	ED-B5	0-0.1	Fill, sand	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5
ED-B6_0.1-0.2	ED-B6	0.1-0.2	Fill, sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B6_0.2-0.3	ED-B6	0.2-0.3	Fill, sand	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5
ED-B7_0.2-0.3	ED-B7	0.2-0.3	Fill, gravelly clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B7_0.0-0.2	ED-B7	0-0.2	Fill, roadbase	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5
ED-B8_0.3-0.4	ED-B8	0.3-0.4	Fill, roadbase	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.3	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.13	<0.05	<0.05	<0.5
ED-B8_0.5-0.6	ED-B8	0.5-0.6		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B8_0.8-1.0	ED-B8	0.8-1	Clayey, sandy gravel	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5
ED-B8_0.0-0.2	ED-B8	0-0.2	Fill, roadbase	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B9_0.1-0.2	ED-B9	0.1-0.2	Fill, sand	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5
ED-B9_0.0-0.1	ED-B9	0-0.1	Fill, clayey, sandy gravel	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B1_0.1-0.2	MH-B1	0.1-0.2	Fill, gravelly sand	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5
MH-B1_0.2-0.3	MH-B1	0.2-0.3	Fill, sandy clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B1_0.0-0.1	MH-B1	0-0.1	Fill, silty sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B10_0.2-0.4	MH-B10	0.2-0.4	Fill, sandy clay	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5
MH-B10_0.5-0.6	MH-B10	0.5-0.6	Fill, clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B10_0.0-0.2	MH-B10	0-0.2	Fill, sandy clay	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5
MH-B2_0.2-0.3	MH-B2	0.2-0.3	Fill, roadbase	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B2_0.4-0.5	MH-B2	0.4-0.5	Fill, roadbase	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5

Tables A - Results of Chemical Soil Analysis
Project Number: 63879
Project Name: Broken Hill Hospital Redevelopment

				Organochlorine Pesticides																							
				4,4-DDE	a-BHC	b-BHC	d-BHC	g-BHC (Lindane)	Aldrin	Dieldrin	Aldrin + Dieldrin	Chlordane	Chlordane (cis)	Chlordane (trans)	DDT	DDD	DDT+DDE+DDD	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor Epoxide	Methoxychlor	Toxaphene
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.1	0.1	0.1	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.5
NEPM 2013 Table 1A(1) HILs Res B Soil											10	90					600				20			10		500	30
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																											
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand																											
0-1m																											
Field_ID	**Location**	**Sample Depth (m)**	**Matrix Description**																								
MH-B3_0.2-0.3	MH-B3	0.2-0.3	Fill, sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B3_0.8-1.0	MH-B3	0.8-1	Fill, gravelly sand	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5
SPLIT03	MH-B3			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	-
DUP03	MH-B3			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5
MH-B3_0.0-0.1	MH-B3	0-0.1	Fill, sand	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5
MH-B4_0.2-0.3	MH-B4	0.2-0.3	Fill, roadbase	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5
MH-B4_0.6-0.7	MH-B4	0.6-0.7	Silty, gravelly clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B5_0.1-0.2	MH-B5	0.1-0.2	Fill, gravelly clay	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5
MH-B5_0.4-0.5	MH-B5	0.4-0.5	Fill, gravelly clay	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5
MH-B5_0.8-0.9	MH-B5	0.8-0.9	Fill, gravelly clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B5_0.0-0.1	MH-B5	0-0.1	Fill, sandy gravel	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B6_0.2-0.3	MH-B6	0.2-0.3	Fill, clayey, gravelly sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B6_0.4-0.5	MH-B6	0.4-0.5	Fill, clayey, gravelly sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B6_0.0-0.1	MH-B6	0-0.1	Fill, clayey, gravelly sand	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5
MH-B7_0.2-0.3	MH-B7	0.2-0.3	Fill, gravelly sand	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5
MH-B7_0.9-1.0	MH-B7	0.9-1	Fill, gravelly sand	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5
SPLIT01	MH-B7			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	-
DUP01	MH-B7			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5
MH-B7_0.0-0.1	MH-B7	0-0.1	Fill, gravelly sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B8_0.1-0.2	MH-B8	0.1-0.2	Fill, silty gravel	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B8_0.4-0.5	MH-B8	0.4-0.5	Fill, silty, gravelly clay	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5
MH-B8_0.5-0.6	MH-B8	0.5-0.6	Clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B9_0.2-0.3	MH-B9	0.2-0.3	Fill, sandy clay	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5
MH-B9_0.9-1.0	MH-B9	0.9-1	Silty clay	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5
MH-B9_0.0-0.1	MH-B9	0-0.1	Fill, roadbase	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Statistical Summary																											
Number of Results				29	29	29	29	29	29	29	29	27	2	2	29	29	29	29	29	29	29	29	27	29	29	29	27
Number of Detects				0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Minimum Concentration				<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5
Minimum Detect				ND	ND	ND	ND	ND	ND	ND	ND	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.13	ND	ND	ND
Maximum Concentration				<0.1	<0.1	<0.1	<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	<0.1	<0.1	<0.05	0.13	<0.1	<0.1	<0.5
Maximum Detect				ND	ND	ND	ND	ND	ND	ND	ND	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.13	ND	ND	ND
Average Concentration				0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.059			0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.025	0.03	0.027	0.027	0.25
Median Concentration				0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.05	0.05	0.05	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.25
Standard Deviation				0.0064	0.0064	0.0064	0.0064	0.0064	0.0064	0.0064	0.0064	0.048			0.0064	0.0064	0.0064	0.0064	0.0064	0.0064	0.0064	0.0064	0	0.02	0.0064	0.0064	0
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Tables A - Results of Chemical Soil Analysis
Project Number: 63879
Project Name: Broken Hill Hospital Redevelopment

				Chlorinated Alkanes																	Chlorinated Alkenes												Solvents
				1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,2,3-trichloropropane	1,2-dibromo-3-chloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	2,2-dichloropropane	Bromochloromethane	Carbon tetrachloride	Chloroethane	Chloromethane	Dichlorodifluoromethane	Dichloromethane	Trichlorofluoromethane	1,1-dichloroethene	1,1-dichloropropene	2-chlorotoluene	3-chloropropene	4-chlorotoluene	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Trichloroethene	Vinyl Chloride	Acetone
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
NEPM 2013 Table 1A(1) HILs Res B Soil																																	
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																																	
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand																																	
0-1m																																	
Field_ID	**Location**	**Sample Depth (m)**	**Matrix Description**																														
ED-B1_0.4-0.5	ED-B1	0.4-0.5	Fill, clayey, gravelly sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPLIT02				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP02				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B1_0.9-1.0	ED-B1	0.9-1	Fill, clayey, gravelly sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B1_0.0-0.1	ED-B1	0-0.1	Fill, clayey, gravelly sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B2_0.2-0.3	ED-B2	0.2-0.3	Fill, silty sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B2_0.0-0.1	ED-B2	0-0.1	Fill, roadbase	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B3_0.2-0.3	ED-B3	0.2-0.3	Fll, sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B3_0.0-0.1	ED-B3	0-0.1	Fill, roadbase	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B4_0.1-0.2	ED-B4	0.1-0.2	Fill, sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B4_0.4-0.5	ED-B4	0.4-0.5	Fill, sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B5_0.2-0.3	ED-B5	0.2-0.3	Fill, sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B5_0.0-0.1	ED-B5	0-0.1	Fill, sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B6_0.1-0.2	ED-B6	0.1-0.2	Fill, sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B6_0.2-0.3	ED-B6	0.2-0.3	Fill, sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B7_0.2-0.3	ED-B7	0.2-0.3	Fill, gravelly clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B7_0.0-0.2	ED-B7	0-0.2	Fill, roadbase	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B8_0.3-0.4	ED-B8	0.3-0.4	Fill, roadbase	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B8_0.5-0.6	ED-B8	0.5-0.6		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B8_0.8-1.0	ED-B8	0.8-1	Clayey, sandy gravel	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B8_0.0-0.2	ED-B8	0-0.2	Fill, roadbase	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B9_0.1-0.2	ED-B9	0.1-0.2	Fill, sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B9_0.0-0.1	ED-B9	0-0.1	Fill, clayey, sandy gravel	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B1_0.1-0.2	MH-B1	0.1-0.2	Fill, gravelly sand	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MH-B1_0.2-0.3	MH-B1	0.2-0.3	Fill, sandy clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B1_0.0-0.1	MH-B1	0-0.1	Fill, silty sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B10_0.2-0.4	MH-B10	0.2-0.4	Fill, sandy clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B10_0.5-0.6	MH-B10	0.5-0.6	Fill, clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B10_0.0-0.2	MH-B10	0-0.2	Fill, sandy clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B2_0.2-0.3	MH-B2	0.2-0.3	Fill, roadbase	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B2_0.4-0.5	MH-B2	0.4-0.5	Fill, roadbase	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Tables A - Results of Chemical Soil Analysis
Project Number: 63879
Project Name: Broken Hill Hospital Redevelopment

				Chlorinated Alkanes																	Chlorinated Alkenes												Solvents
				1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,2,3-trichloropropane	1,2-dibromo-3-chloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	2,2-dichloropropane	Bromochloromethane	Carbon tetrachloride	Chloroethane	Chloromethane	Dichlorodifluoromethane	Dichloromethane	Trichlorofluoromethane	1,1-dichloroethene	1,1-dichloropropene	2-chlorotoluene	3-chloropropene	4-chlorotoluene	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Trichloroethene	Vinyl Chloride	Acetone
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
NEPM 2013 Table 1A(1) HILs Res B Soil																																	
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																																	
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand																																	
0-1m																																	
Field_ID	**Location**	**Sample Depth (m)**	**Matrix Description**																														
MH-B3_0.2-0.3	MH-B3	0.2-0.3	Fill, sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B3_0.8-1.0	MH-B3	0.8-1	Fill, gravelly sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPLIT03	MH-B3			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP03	MH-B3			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B3_0.0-0.1	MH-B3	0-0.1	Fill, sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B4_0.2-0.3	MH-B4	0.2-0.3	Fill, roadbase	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B4_0.6-0.7	MH-B4	0.6-0.7	Silty, gravelly clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B5_0.1-0.2	MH-B5	0.1-0.2	Fill, gravelly clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B5_0.4-0.5	MH-B5	0.4-0.5	Fill, gravelly clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B5_0.8-0.9	MH-B5	0.8-0.9	Fill, gravelly clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B5_0.0-0.1	MH-B5	0-0.1	Fill, sandy gravel	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B6_0.2-0.3	MH-B6	0.2-0.3	Fill, clayey, gravelly sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B6_0.4-0.5	MH-B6	0.4-0.5	Fill, clayey, gravelly sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B6_0.0-0.1	MH-B6	0-0.1	Fill, clayey, gravelly sand	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MH-B7_0.2-0.3	MH-B7	0.2-0.3	Fill, gravelly sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B7_0.9-1.0	MH-B7	0.9-1	Fill, gravelly sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPLIT01	MH-B7			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP01	MH-B7			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B7_0.0-0.1	MH-B7	0-0.1	Fill, gravelly sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B8_0.1-0.2	MH-B8	0.1-0.2	Fill, silty gravel	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B8_0.4-0.5	MH-B8	0.4-0.5	Fill, silty, gravelly clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B8_0.5-0.6	MH-B8	0.5-0.6	Clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B9_0.2-0.3	MH-B9	0.2-0.3	Fill, sandy clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B9_0.9-1.0	MH-B9	0.9-1	Silty clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B9_0.0-0.1	MH-B9	0-0.1	Fill, roadbase	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Statistical Summary																																	
Number of Results				2	2	2	2	2	2	0	2	2	2	0	2	2	2	2	2	2	2	2	0	0	2	2	2	2	2	2	2	2	2
Number of Detects				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	99999	<0.5	<0.5	<0.5	99999	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	99999	99999	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Minimum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0	<0.5	<0.5	<0.5	0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0	0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Maximum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration																																			
Median Concentration				0.25	0.25	0.25	0.25	0.25	0.25		0.25	0.25	0.25		0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25			0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Standard Deviation																																			
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Tables A - Results of Chemical Soil Analysis
Project Number: 63879
Project Name: Broken Hill Hospital Redevelopment

				Polychlorinated Biphenyls								MAH											Miscellaneous Hydrocarbons						
				Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	PCBs (Sum of total)	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	n-butylbenzene	n-propylbenzene	p-isopropyltoluene	sec-butylbenzene	Styrene	tert-butylbenzene	Total MAH	Bromobenzene	Isopropylbenzene	1,2-dibromoethane	Bromomethane	Cyclohexane	Dibromomethane	Iodomethane	4-Methyl-2-pentanone	Methyl Ethyl Ketone
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5
NEPM 2013 Table 1A(1) HILs Res B Soil											1																		
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																													
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand																													
0-1m																													
Field_ID	**Location**	**Sample Depth (m)**	**Matrix Description**																										
ED-B1_0.4-0.5	ED-B1	0.4-0.5	Fill, clayey, gravelly sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPLIT02				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP02				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B1_0.9-1.0	ED-B1	0.9-1	Fill, clayey, gravelly sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B1_0.0-0.1	ED-B1	0-0.1	Fill, clayey, gravelly sand	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B2_0.2-0.3	ED-B2	0.2-0.3	Fill, silty sand	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B2_0.0-0.1	ED-B2	0-0.1	Fill, roadbase	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B3_0.2-0.3	ED-B3	0.2-0.3	Fll, sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B3_0.0-0.1	ED-B3	0-0.1	Fill, roadbase	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B4_0.1-0.2	ED-B4	0.1-0.2	Fill, sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B4_0.4-0.5	ED-B4	0.4-0.5	Fill, sand	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B5_0.2-0.3	ED-B5	0.2-0.3	Fill, sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B5_0.0-0.1	ED-B5	0-0.1	Fill, sand	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B6_0.1-0.2	ED-B6	0.1-0.2	Fill, sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B6_0.2-0.3	ED-B6	0.2-0.3	Fill, sand	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B7_0.2-0.3	ED-B7	0.2-0.3	Fill, gravelly clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B7_0.0-0.2	ED-B7	0-0.2	Fill, roadbase	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B8_0.3-0.4	ED-B8	0.3-0.4	Fill, roadbase	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B8_0.5-0.6	ED-B8	0.5-0.6		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B8_0.8-1.0	ED-B8	0.8-1	Clayey, sandy gravel	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B8_0.0-0.2	ED-B8	0-0.2	Fill, roadbase	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B9_0.1-0.2	ED-B9	0.1-0.2	Fill, sand	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B9_0.0-0.1	ED-B9	0-0.1	Fill, clayey, sandy gravel	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B1_0.1-0.2	MH-B1	0.1-0.2	Fill, gravelly sand	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
MH-B1_0.2-0.3	MH-B1	0.2-0.3	Fill, sandy clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B1_0.0-0.1	MH-B1	0-0.1	Fill, silty sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B10_0.2-0.4	MH-B10	0.2-0.4	Fill, sandy clay	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B10_0.5-0.6	MH-B10	0.5-0.6	Fill, clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B10_0.0-0.2	MH-B10	0-0.2	Fill, sandy clay	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B2_0.2-0.3	MH-B2	0.2-0.3	Fill, roadbase	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B2_0.4-0.5	MH-B2	0.4-0.5	Fill, roadbase	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Tables A - Results of Chemical Soil Analysis
Project Number: 63879
Project Name: Broken Hill Hospital Redevelopment

				Polychlorinated Biphenyls								MAH											Miscellaneous Hydrocarbons						
				Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	PCBs (Sum of total)	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	n-butylbenzene	n-propylbenzene	p-isopropyltoluene	sec-butylbenzene	Styrene	tert-butylbenzene	Total MAH	Bromobenzene	Isopropylbenzene	1,2-dibromoethane	Bromomethane	Cyclohexane	Dibromomethane	Iodomethane	4-Methyl-2-pentanone	Methyl Ethyl Ketone
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL				0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5
NEPM 2013 Table 1A(1) HILs Res B Soil											1																		
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																													
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand																													
0-1m																													
Field_ID	**Location**	**Sample Depth (m)**	**Matrix Description**																										
MH-B3_0.2-0.3	MH-B3	0.2-0.3	Fill, sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B3_0.8-1.0	MH-B3	0.8-1	Fill, gravelly sand	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPLIT03	MH-B3			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP03	MH-B3			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B3_0.0-0.1	MH-B3	0-0.1	Fill, sand	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B4_0.2-0.3	MH-B4	0.2-0.3	Fill, roadbase	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B4_0.6-0.7	MH-B4	0.6-0.7	Silty, gravelly clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B5_0.1-0.2	MH-B5	0.1-0.2	Fill, gravelly clay	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B5_0.4-0.5	MH-B5	0.4-0.5	Fill, gravelly clay	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B5_0.8-0.9	MH-B5	0.8-0.9	Fill, gravelly clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B5_0.0-0.1	MH-B5	0-0.1	Fill, sandy gravel	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B6_0.2-0.3	MH-B6	0.2-0.3	Fill, clayey, gravelly sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B6_0.4-0.5	MH-B6	0.4-0.5	Fill, clayey, gravelly sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B6_0.0-0.1	MH-B6	0-0.1	Fill, clayey, gravelly sand	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	-	-	-	-	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5
MH-B7_0.2-0.3	MH-B7	0.2-0.3	Fill, gravelly sand	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B7_0.9-1.0	MH-B7	0.9-1	Fill, gravelly sand	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPLIT01	MH-B7			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP01	MH-B7			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B7_0.0-0.1	MH-B7	0-0.1	Fill, gravelly sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B8_0.1-0.2	MH-B8	0.1-0.2	Fill, silty gravel	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B8_0.4-0.5	MH-B8	0.4-0.5	Fill, silty, gravelly clay	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B8_0.5-0.6	MH-B8	0.5-0.6	Clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B9_0.2-0.3	MH-B9	0.2-0.3	Fill, sandy clay	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B9_0.9-1.0	MH-B9	0.9-1	Silty clay	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B9_0.0-0.1	MH-B9	0-0.1	Fill, roadbase	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Statistical Summary																													
Number of Results				29	29	29	29	29	29	29	29	2	2	0	0	0	0	2	0	2	2	2	2	2	0	2	2	2	2
Number of Detects				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	99999	99999	99999	99999	<0.5	99999	<0.5	<0.5	<0.5	<0.5	<0.5	99999	<0.5	<0.5	<0.5	<0.5
Minimum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	0	0	0	0	<0.5	0	<0.5	<0.5	<0.5	<0.5	<0.5	0	<0.5	<0.5	<0.5	<0.5
Maximum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration				0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05																		
Median Concentration				0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.25	0.25					0.25		0.25	0.25	0.25	0.25	0.25		0.25	0.25	0.25	0.25
Standard Deviation				0	0	0	0	0	0	0	0																		
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Tables A - Results of Chemical Soil Analysis
Project Number: 63879
Project Name: Broken Hill Hospital Redevelopment

				Chlorinated Benzenes							Trihalomethanes					Ionic Balance			EPA VIC - IWRG621						Other		
				1,2,3-trichlorobenzene	1,2,4-trichlorobenzene	1,2-Dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Chlorobenzene	Hexachlorobenzene	Dibromochloromethane	Chloroform	Tribromomethane	Bromodichloromethane	Carbon disulfide	CEC	Conductivity (1:5 aqueous extract)	pH (Lab)	Chlorinated Hydrocarbons EPAVic	Other Chlorinated Hydrocarbons EPAVic	Organochlorine Pesticides EPAVic	Other Organochlorine Pesticides EPAVic	% Clay*	Hexachlorobutadiene	Moisture Content (dried @ 103°C)	TOC	Iron (%)
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	MEQ/100G	US/CM	pH Units	mg/kg	mg/kg	mg/kg	mg/kg	%	mg/kg	%	%	%
EQL				0.5	0.5	0.5	0.5	0.5	0.5	0.05	0.5	0.5	0.5	0.5	0.5	0.05	10	0.1	0.5	0.5	0.1	0.1	1	0.5	1	0.1	0.01
NEPM 2013 Table 1A(1) HILs Res B Soil										15																	
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																											
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand																											
0-1m																											
Field_ID	**Location**	**Sample Depth (m)**	**Matrix Description**																								
ED-B1_0.4-0.5	ED-B1	0.4-0.5	Fill, clayey, gravelly sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-	-
SPLIT02				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.7	-	-
DUP02				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.5	-	-
ED-B1_0.9-1.0	ED-B1	0.9-1	Fill, clayey, gravelly sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.4	-	-
ED-B1_0.0-0.1	ED-B1	0-0.1	Fill, clayey, gravelly sand	-	-	-	-	-	-	<0.05	-	-	-	-	-	26	410	9.1	-	-	<0.1	<0.1	6.1	-	8.5	0.3	3.1
ED-B2_0.2-0.3	ED-B2	0.2-0.3	Fill, silty sand	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	-	-	7	-	-
ED-B2_0.0-0.1	ED-B2	0-0.1	Fill, roadbase	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.6	-	-
ED-B3_0.2-0.3	ED-B3	0.2-0.3	Fll, sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.7	-	-
ED-B3_0.0-0.1	ED-B3	0-0.1	Fill, roadbase	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	-	-	4.9	-	-
ED-B4_0.1-0.2	ED-B4	0.1-0.2	Fill, sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.8	-	-
ED-B4_0.4-0.5	ED-B4	0.4-0.5	Fill, sand	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	-	-	2.9	-	-
ED-B5_0.2-0.3	ED-B5	0.2-0.3	Fill, sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.2	-	-
ED-B5_0.0-0.1	ED-B5	0-0.1	Fill, sand	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	-	-	4.7	-	-
ED-B6_0.1-0.2	ED-B6	0.1-0.2	Fill, sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.1	-	-
ED-B6_0.2-0.3	ED-B6	0.2-0.3	Fill, sand	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	-	-	5.6	-	-
ED-B7_0.2-0.3	ED-B7	0.2-0.3	Fill, gravelly clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-	-
ED-B7_0.0-0.2	ED-B7	0-0.2	Fill, roadbase	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	-	-	4.2	-	-
ED-B8_0.3-0.4	ED-B8	0.3-0.4	Fill, roadbase	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	0.43	0.43	-	-	8.1	-	-
ED-B8_0.5-0.6	ED-B8	0.5-0.6		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-	-
ED-B8_0.8-1.0	ED-B8	0.8-1	Clayey, sandy gravel	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	-	-	12	-	-
ED-B8_0.0-0.2	ED-B8	0-0.2	Fill, roadbase	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.6	-	-
ED-B9_0.1-0.2	ED-B9	0.1-0.2	Fill, sand	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	-	-	4.3	-	-
ED-B9_0.0-0.1	ED-B9	0-0.1	Fill, clayey, sandy gravel	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.1	-	-
MH-B1_0.1-0.2	MH-B1	0.1-0.2	Fill, gravelly sand	-	-	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	<0.5	<0.5	<0.1	<0.1	-	-	16	-	-
MH-B1_0.2-0.3	MH-B1	0.2-0.3	Fill, sandy clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	-	-
MH-B1_0.0-0.1	MH-B1	0-0.1	Fill, silty sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24	-	-
MH-B10_0.2-0.4	MH-B10	0.2-0.4	Fill, sandy clay	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	-	-	11	-	-
MH-B10_0.5-0.6	MH-B10	0.5-0.6	Fill, clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	-	-
MH-B10_0.0-0.2	MH-B10	0-0.2	Fill, sandy clay	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	-	-	7.4	-	-
MH-B2_0.2-0.3	MH-B2	0.2-0.3	Fill, roadbase	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.5	-	-
MH-B2_0.4-0.5	MH-B2	0.4-0.5	Fill, roadbase	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	-	-	7.7	-	-

Tables A - Results of Chemical Soil Analysis
Project Number: 63879
Project Name: Broken Hill Hospital Redevelopment

				Chlorinated Benzenes							Trihalomethanes					Ionic Balance			EPA VIC - IWRG621						Other		
				1,2,3-trichlorobenzene	1,2,4-trichlorobenzene	1,2-Dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Chlorobenzene	Hexachlorobenzene	Dibromochloromethane	Chloroform	Tribromomethane	Bromodichloromethane	Carbon disulfide	CEC	Conductivity (1:5 aqueous extract)	pH (Lab)	Chlorinated Hydrocarbons EPAVic	Other Chlorinated Hydrocarbons EPAVic	Organochlorine Pesticides EPAVic	Other Organochlorine Pesticides EPAVic	% Clay*	Hexachlorobutadiene	Moisture Content (dried @ 103°C)	TOC	Iron (%)
				mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	MEQ/100G	US/CM	pH Units	mg/kg	mg/kg	mg/kg	mg/kg	%	mg/kg	%	%	%
EQL				0.5	0.5	0.5	0.5	0.5	0.5	0.05	0.5	0.5	0.5	0.5	0.5	0.05	10	0.1	0.5	0.5	0.1	0.1	1	0.5	1	0.1	0.01
NEPM 2013 Table 1A(1) HILs Res B Soil										15																	
NEPM 2013 Table 1B(7) Management Limits in Res / Parkland, Fine Soil																											
NEPM 2013 Table 1A(3) Res A/B Soil HSL for Vapour Intrusion, Sand																											
0-1m																											
Field_ID	**Location**	**Sample Depth (m)**	**Matrix Description**																								
MH-B3_0.2-0.3	MH-B3	0.2-0.3	Fill, sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-
MH-B3_0.8-1.0	MH-B3	0.8-1	Fill, gravelly sand	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	-	-	4.1	-	-
SPLIT03	MH-B3			-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.2	-	-
DUP03	MH-B3			-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	-	-	5.5	-	-
MH-B3_0.0-0.1	MH-B3	0-0.1	Fill, sand	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	-	-	3.2	-	-
MH-B4_0.2-0.3	MH-B4	0.2-0.3	Fill, roadbase	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	-	-	5.6	-	-
MH-B4_0.6-0.7	MH-B4	0.6-0.7	Silty, gravelly clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-
MH-B5_0.1-0.2	MH-B5	0.1-0.2	Fill, gravelly clay	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	-	-	8.9	-	-
MH-B5_0.4-0.5	MH-B5	0.4-0.5	Fill, gravelly clay	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	-	-	11	-	-
MH-B5_0.8-0.9	MH-B5	0.8-0.9	Fill, gravelly clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.2	-	-
MH-B5_0.0-0.1	MH-B5	0-0.1	Fill, sandy gravel	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.3	-	-
MH-B6_0.2-0.3	MH-B6	0.2-0.3	Fill, clayey, gravelly sand	-	-	-	-	-	-	-	-	-	-	-	-	26	350	8.5	-	-	-	-	6.7	-	8	0.4	2.7
MH-B6_0.4-0.5	MH-B6	0.4-0.5	Fill, clayey, gravelly sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.5	-	-
MH-B6_0.0-0.1	MH-B6	0-0.1	Fill, clayey, gravelly sand	-	-	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	<0.5	<0.5	<0.1	<0.1	-	-	6	-	-
MH-B7_0.2-0.3	MH-B7	0.2-0.3	Fill, gravelly sand	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	-	-	5.8	-	-
MH-B7_0.9-1.0	MH-B7	0.9-1	Fill, gravelly sand	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	-	-	4.6	-	-
SPLIT01	MH-B7			-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.9	-	-
DUP01	MH-B7			-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	-	-	6.1	-	-
MH-B7_0.0-0.1	MH-B7	0-0.1	Fill, gravelly sand	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.3	-	-
MH-B8_0.1-0.2	MH-B8	0.1-0.2	Fill, silty gravel	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.7	-	-
MH-B8_0.4-0.5	MH-B8	0.4-0.5	Fill, silty, gravelly clay	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	-	-	13	-	-
MH-B8_0.5-0.6	MH-B8	0.5-0.6	Clay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	-	-
MH-B9_0.2-0.3	MH-B9	0.2-0.3	Fill, sandy clay	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	-	-	5.6	-	-
MH-B9_0.9-1.0	MH-B9	0.9-1	Silty clay	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	-	-	21	-	-
MH-B9_0.0-0.1	MH-B9	0-0.1	Fill, roadbase	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.7	-	-
Statistical Summary																											
Number of Results				0	0	2	2	2	2	29	2	2	2	2	2	2	2	2	2	2	27	27	2	0	56	2	2
Number of Detects				0	0	0	0	0	0	0	0	0	0	0	0	2	2	2	0	0	1	1	2	0	56	2	2
Minimum Concentration				99999	99999	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	26	350	8.5	<0.5	<0.5	<0.1	<0.1	6.1	99999	2.7	0.3	2.7
Minimum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	26	350	8.5	ND	ND	0.43	0.43	6.1	ND	2.7	0.3	2.7
Maximum Concentration				0	0	<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	26	410	9.1	<0.5	<0.5	0.43	0.43	6.7	0	24	0.4	3.1
Maximum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	26	410	9.1	ND	ND	0.43	0.43	6.7	ND	24	0.4	3.1
Average Concentration										0.027											0.064	0.064			7.8		
Median Concentration						0.25	0.25	0.25	0.25	0.025	0.25	0.25	0.25	0.25	0.25	26	380	8.8	0.25	0.25	0.05	0.05	6.4		6.85	0.35	2.9
Standard Deviation										0.0064											0.073	0.073			4.2		
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table B: Asbestos Analytical Data
Project Number: 63879
Project Name: Broken Hill Hospital Redevelopment

						Asbestos														
						Approximate Sample Mass	Asbestos Sample Dimensions	Mass ACM	Mass Asbestos in ACM	Asbestos from ACM in Soil	Mass FA	Mass Asbestos in FA	Mass AF	Mass asbestos in AF	Asbestos from FA & AF in Soil	Mass Asbestos in FA & AF	ACM - Comment	FA- Comment	AF - Comment	Organic Fibres - Comment	Respirable Fibres - Comment	Synthetic Fibres - Comment	Asbestos Reported Result
						g	Comment	g	g	% (w/w)	g	g	g	g	% (w/w)	g	Comment	Comment	Comment	Comment	Comment	Comment	Comment
EQL																							
NEPM 2013 Table 7 Res B Soil HSL for Asbestos in Soil										0.04					0.001								
Field_ID	**Location**	**Sample Depth (m)**	**Matrix Description**																				
ED-B1_0.0-1.0	ED-B1	0-1	Fill, clayey, gravelly sand	591	-	0	0	0	0	0	0	0	0	0	1[#12]	1[#12]	1[#12]	1[#6]	1[#5]	1[#12]	1[#1]
ED-B2_0.0-0.3	ED-B2	0-0.3	Fill, roadbase/silty sand	1329	-	0	0	0	0	0	0	0	0	0	1[#12]	1[#12]	1[#12]	1[#6]	1[#5]	1[#12]	1[#1]
ED-B3_0.0-0.7	ED-B3	0-0.7	Fill, roadbase	1203	-	0	0	0	0	0	0	0	0	0	1[#12]	1[#12]	1[#12]	1[#6]	1[#5]	1[#12]	1[#1]
ED-B4_0.1-0.5	ED-B4	0.1-0.5	Fill, sand	998	-	0	0	0	0	0	0	0	0	0	1[#12]	1[#12]	1[#12]	1[#6]	1[#5]	1[#12]	1[#1]
ED-B5_0.0-0.3	ED-B5	0-0.3	Fill, sand	639	-	0	0	0	0	0	0	0	0	0	1[#12]	1[#12]	1[#12]	1[#6]	1[#5]	1[#12]	1[#1]
ED-B6_0.1-0.3	ED-B6	0.1-0.3	Fill, sand	629	-	0	0	0	0	0	0	0	0	0	1[#12]	1[#12]	1[#12]	1[#6]	1[#5]	1[#12]	1[#1]
ED-B7_0.0-0.2	ED-B7	0-0.2	Fill, roadbase	1003	-	0	0	0	0	0	0	0	0	0	1[#12]	1[#12]	1[#12]	1[#6]	1[#5]	1[#12]	1[#1]
SPLIT08	ED-B7			-	-	0	0	0	0	0	0	0	0	0	1[#12]	1[#12]	1[#12]	1[#6]	1[#5]	1[#12]	1[#1]
ED-B8_0.0-0.6	ED-B8	0-0.6	Fill, roadbase	1080	-	0	0	0	0	0	0	0	0	0	1[#12]	1[#12]	1[#12]	1[#6]	1[#5]	1[#12]	1[#1]
ED-B9_0.1-0.5	ED-B9	0.1-0.5	Fill, sand	846	-	0	0	0	0	0	0	0	0	0	1[#12]	1[#12]	1[#12]	1[#6]	1[#5]	1[#12]	1[#1]
ED-B9_0.0-0.1	ED-B9	0-0.1	Fill, clayey, sandy gravel	952	-	0	0	0	0	0	0	0	0	0	1[#12]	1[#12]	1[#12]	1[#6]	1[#5]	1[#12]	1[#1]
MH-B1_0.1-0.2	MH-B1	0.1-0.2	Fill, gravelly sand	645	-	0	0	0	0	0	0	0	0	0	1[#12]	1[#12]	1[#12]	1[#6]	1[#5]	1[#12]	1[#1]
MH-B1_0.2-0.3	MH-B1	0.2-0.3	Fill, sandy clay	631	-	0	0	0	0	0	0	0	0	0	1[#12]	1[#12]	1[#12]	1[#6]	1[#5]	1[#12]	1[#1]
MH-B1_0.0-0.1	MH-B1	0-0.1	Fill, silty sand	509	-	0	0	0	0	0	0	0	0	0	1[#12]	1[#12]	1[#12]	1[#6]	1[#5]	1[#12]	1[#1]
MH-B10_0.2-1.0	MH-B10	0.2-1	Fill, clay	511	-	0	0	0	0	0	0	0	0	0	1[#12]	1[#12]	1[#12]	1[#6]	1[#5]	1[#12]	1[#1]
MH-B10_0.2-1.0A	MH-B10	0.2-1	Fibreboard	6	1[#8]	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-	1[#4]
MH-B10_0.0-0.2	MH-B10	0-0.2	Fill, sandy clay	634	-	0	0	0	0	0	0	0	0	0	1[#12]	1[#12]	1[#12]	1[#6]	1[#5]	1[#12]	1[#1]
MH-B10_0.0-0.2A	MH-B10	0-0.2	Fibreboard	8	1[#11]	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-	1[#3]
MH-B2_0.2-0.8	MH-B2	0.2-0.8	Fill, roadbase	546	-	0	0	0	0	0	0	0	0	0	1[#12]	1[#12]	1[#12]	1[#6]	1[#5]	1[#12]	1[#1]
MH-B3_0.8-1.0	MH-B3	0.8-1	Fill, gravelly sand	805	-	0	0	0	0	0	0	0	0	0	1[#12]	1[#12]	1[#12]	1[#6]	1[#5]	1[#12]	1[#1]
MH-B3_0.0-0.6	MH-B3	0-0.6	Fill, sand	589	-	0	0	0	0	0	0	0	0	0	1[#12]	1[#12]	1[#12]	1[#6]	1[#5]	1[#12]	1[#1]
MH-B4_0.0-0.6	MH-B4	0-0.6	Fill, roadbase	984	-	0	0	0	0	0	0	0	0	0	1[#12]	1[#12]	1[#12]	1[#6]	1[#5]	1[#12]	1[#1]
MH-B5_0.0-0.9	MH-B5	0-0.9	Fill, gravelly clay	628	-	0	0	0	0	0	0	0	0	0	1[#12]	1[#12]	1[#12]	1[#6]	1[#5]	1[#12]	1[#1]
MH-B6_0.0-0.6	MH-B6	0-0.6	Fill, clayey, gravelly sand	588	-	0	0	0	0	0	0	0	0	0	1[#12]	1[#12]	1[#12]	1[#6]	1[#5]	1[#12]	1[#1]
MH-B7_0.0-1.0	MH-B7	0-1	Fill, gravelly sand	731	-	0	0	0	0	0	0	0	0	0	1[#12]	1[#12]	1[#12]	1[#6]	1[#5]	1[#12]	1[#1]
MH-B8_0.1-0.3	MH-B8	0.1-0.3	Fill, silty gravel	1109	-	0	0	0	0	0	0	0	0	0	1[#12]	1[#12]	1[#12]	1[#6]	1[#5]	1[#12]	1[#1]
MH-B8_0.3-0.5	MH-B8	0.3-0.5	Fill, silty, gravelly clay	819	-	0	0	0	0	0	0	0	0	0	1[#12]	1[#12]	1[#12]	1[#6]	1[#5]	1[#12]	1[#1]
MH-B9_0.0-0.5	MH-B9	0-0.5	Fill, roadbase	667	-	0	0	0	0	0	0	0	0	0	1[#12]	1[#12]	1[#12]	1[#6]	1[#5]	1[#12]	1[#1]

Data Comments
#1 No asbestos detected at the reporting limit of 0.001% w/w.*Organic fibre detected.No trace asbestos detected.
#2 No asbestos detected.Organic fibres detected.No trace asbestos detected.
#3 Chrysotile and crocidolite asbestos detected.Organic fibres detected.
#4 Chrysotile asbestos detected.Organic fibres detected.
#5 No trace asbestos detected.
#6 Organic fibres detected.
#7 20 x 20 x 3
#8 25 x 20 x 5
#9 40 x 20 x 3
#10 50 x 50 x 5
#11 60 x 30 x 5
#12 Nil
#13 --

Table C: Field Asbestos Quantification Results

Health Screening Level Asbestos Concentration in Soil (% w/w)	
Category	
Bonded ACM in soils	**0.05**
FA and AF in soils	**0.001**
ACM detected in soil	

Sample Information			Field Asbestos Quantification					
Sample ID	Date	Fill Type	>7 mm ACM observed during screening?	Approx. Volume of Soil (50L)	Soil Mass (g)	Mass ACM (g)	Mass Asbestos in ACM (g)*	Asbestos from ACM in soil (%w/w)
ED-B1_0-0.1	2/02/2023	0-0.1: Clayey Sand, brown	No	20	32600	0	0	**0.000**
ED-B2_0-0.3	4/02/2023	0.0-0.3: Sandy Gravel, grey/yellow/brown	No	5	8150	0	0	**0.000**
ED-B3_0-0.7	4/02/2023	0.0-0.7: Gravelly Sand, grey/yellow/brown	No	5	8150	0	0	**0.000**
ED-B4_0.1-0.5	4/02/2023	0.1-0.5: Sand, red/brown	No	10	16300	0	0	**0.000**
ED-B7_0-0.2	4/02/2023	0.0-0.2: Sandy Gravel roadbase, grey	No	10	16300	0	0	**0.000**
ED-B8_0-0.6	4/02/2023	0.0-0.6: Gravelly Sand roadbase, grey	No	15	24450	0	0	**0.000**
MH-B2_0.2-0.8	3/02/2023	0.2-0.8: Sandy Gravel, grey/brown	No	20	32600	0	0	**0.000**
MH-B3_0-0.6	3/02/2023	0.0-0.6: Sand, red/brown	No	20	32600	0	0	**0.000**
MH-B3_0.8-1	3/02/2023	0.8-1.0: Gravelly Sand, grey/red/brown	No	5	8150	0	0	**0.000**
MH-B5_0-0.9	2/02/2023	0.0-0.9: Gravelly Clay, red/brown	No	20	32600	0	0	**0.000**
MH-B6_0-0.6	2/02/2023	0.0-0.6: Gravelly Clayey Sand, grey/red/brown	No	20	32600	0	0	**0.000**
MH-B7_0-1	2/02/2023	0.0-1.0: Gravelly Sand, grey/brown	No	20	32600	0	0	**0.000**
MH-B8_0.1-0.3	2/02/2023	0.1-0.3: Silty Gravel, grey	No	10	16300	0	0	**0.000**
MH-B8_0.3-0.5	2/02/2023	0.3-0.5: Silty Gravelly Clay, red	No	10	16300	0	0	**0.000**
MH-B10_0-0.2	2/02/2023	0.0-0.2: Sandy Clay, brown	Yes	10	16300	8	1.2	**0.007**
MH-B10_0.2-1	2/02/2023	0.2-1.0: Sandy Clay, brown	Yes	10	16300	6	0.9	**0.006**

Table D: Groundwater Analytical Data
Project Number: 63879
Project Name: Broken Hill Hospital Redevelopment

			Metals & Metalloids								TPHs (NEPC 1999)					TRHs (NEPC 2013)							BTEXN							
			Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum of Total)	C6-C10	C10-C16	C16-C34	C34-C40	C10-C40 (Sum of total)	F1 (C6-C10 minus BTEX)	F2 (C10-C16 less Naphthalene)	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Total BTEX	Naphthalene_VOC
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL			0.001	0.0002	0.001	0.001	0.001	0.0001	0.001	0.005	0.02	0.05	0.1	0.1	0.1	0.02	0.05	0.1	0.1	0.1	0.02	0.05	0.001	0.001	0.001	0.001	0.002	0.003	0.001	0.01
ADWG (2011) Health - Petroleum Products (Adopted from WHO Drinking Water 2008)															0.09					0.09		0.09								
ADWG (2011) Health - Updated March-2021			0.01	0.002	0.05	2	0.01	0.001	0.02														0.001	0.8	0.3	0.6	0.6	0.6		
ADWG (2011) Health x 10 (Recreational) - Updated March-2021			0.1	0.02	0.5	20	0.1	0.01	0.2														0.01	8	3	6	6	6		
ANZECC 2000 Irrigation Long Term Trigger Values			0.1	0.01	0.1	0.2	2	0.002	0.2	2																				
ANZECC 2000 Irrigation Short Term Trigger Values			2	0.05	1	5	5	0.002	2	5																				
ANZG (2018) Freshwater 95% toxicant DGVs			0.013	0.0002	0.001	0.0014	0.0034	0.0006	0.011	0.008													0.95	0.18	0.08	0.35	0.075			0.016
PFAS NEMP 2020 Table 5 Freshwater 95%																														
PFAS NEMP 2020 Table 5 Freshwater 99%																														
NEPM 2013 Table 1A(4) Res HSL A/B GW for Vapour Intrusion, Sand																														
2-4m																					1	1	0.8	NL	NL			NL		NL
4-8m																					1	1	0.9	NL	NL			NL		NL
>8m																					1	1	0.8	NL	NL			NL		NL
Field_ID	**Location**	**Well**	**Sampled_Date_Time**																											
GW01	GW01		5/02/2023	<0.001	<0.0002	<0.001	0.017	<0.001	<0.0001	0.017	0.076	<0.02	<0.05	<0.1	<0.1	<0.1	<0.02	<0.05	<0.1	<0.1	<0.1	<0.02	<0.05	<0.001	0.006	<0.001	<0.001	<0.002	<0.003	-	<0.01
GW02	GW02		5/02/2023	0.003	<0.0002	<0.001	0.085	0.002	<0.0001	0.2	0.98	0.09	0.11	0.1	<0.1	0.21	0.1	0.09	0.1	<0.1	0.19	0.06	0.09	<0.001	0.04	<0.001	<0.001	<0.002	<0.003	-	<0.01
GW03	GW03		5/02/2023	<0.001	<0.0002	<0.001	0.008	<0.001	<0.0001	0.012	0.082	<0.04	0.12	<0.1	<0.1	0.12	<0.04	0.07	0.1	<0.1	0.17	<0.04	0.07	<0.002	0.007	<0.002	<0.002	<0.004	<0.006	-	<0.02
DUP01	GW03		5/02/2023	<0.001	<0.0002	<0.001	0.008	<0.001	<0.0001	0.012	0.081	0.22	0.13	<0.1	<0.1	0.13	0.21	0.07	<0.1	<0.1	<0.1	0.05	0.07	<0.002	0.16	<0.002	<0.002	<0.004	<0.006	-	<0.02
SPLIT01	GW03		5/02/2023	<0.002	<0.0002	<0.002	0.008	<0.001	<0.00005	0.013	0.17	0.27	0.2	<0.1	<0.1	0.2	0.29	0.19	<0.1	<0.1	0.19	0.15	0.19	<0.01	0.15	<0.01	<0.01	<0.02	<0.01	0.15	<0.01

99% protectio levels adiopted for anthracene, benzo(a)pyrene, fluoranthene and phenanthrene due to potential for bioaccumulation

Data Comments
#1 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.

Table D: Groundwater Analytical Data
Project Number: 63879
Project Name: Broken Hill Hospital Redevelopment

				PAH																
				Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b+j)fluoranthene	Benzo(b+j+k)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	PAHs (Sum of total)
				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL				0.001	0.001	0.001	0.001	0.001	0.001	0.00002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
ADWG (2011) Health - Petroleum Products (Adopted from WHO Drinking Water 2008)																				
ADWG (2011) Health - Updated March-2021								0.00001												
ADWG (2011) Health x 10 (Recreational) - Updated March-2021								0.0001												
ANZECC 2000 Irrigation Long Term Trigger Values																				
ANZECC 2000 Irrigation Short Term Trigger Values																				
ANZG (2018) Freshwater 95% toxicant DGVs						0.00001		0.0001							0.001		0.016	0.0006		
PFAS NEMP 2020 Table 5 Freshwater 95%																				
PFAS NEMP 2020 Table 5 Freshwater 99%																				
NEPM 2013 Table 1A(4) Res HSL A/B GW for Vapour Intrusion, Sand																				
2-4m																	NL			
4-8m																	NL			
>8m																	NL			
Field_ID	**Location**	**Well**	**Sampled_Date_Time**																	
GW01	GW01		5/02/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
GW02	GW02		5/02/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
GW03	GW03		5/02/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
DUP01	GW03		5/02/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
SPLIT01	GW03		5/02/2023	<0.00001	<0.00001	0.00003	<0.00001	<0.00001	-	<0.00002	<0.00001	-	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.00008	<0.00001	0.00001	0.00012

99% protectio levels adiopted for anthracene, benzo(a)pyrene, fluoranthene and phenanthrei

Data Comments
#1 Quantification of linear and branched isomers has been conducted as a single total respon

Table D: Groundwater Analytical Data
Project Number: 63879
Project Name: Broken Hill Hospital Redevelopment

				Chlorinated Alkanes																		Chlorinated Alkenes										
				1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,2,3-trichloropropane	1,2-dibromo-3-chloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	2,2-dichloropropane	Bromochloromethane	Carbon tetrachloride	Chloroethane	Chloromethane	Dichlorodifluoromethane	Dichloromethane	Trichlorofluoromethane	1,1-dichloroethene	1,1-dichloropropene	2-chlorotoluene	3-chloropropene	4-chlorotoluene	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Trichloroethene	Vinyl Chloride
				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL				0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.005	0.005	0.005	0.005	0.005	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.005
ADWG (2011) Health - Petroleum Products (Adopted from WHO Drinking Water 2008)																																
ADWG (2011) Health - Updated March-2021										0.003						0.003				0.004		0.03							0.05			0.0003
ADWG (2011) Health x 10 (Recreational) - Updated March-2021										0.03						0.03				0.04		0.3							0.5			0.003
ANZECC 2000 Irrigation Long Term Trigger Values																																
ANZECC 2000 Irrigation Short Term Trigger Values																																
ANZG (2018) Freshwater 95% toxicant DGVs					0.27	0.4	6.5				1.9	0.9	1.1			0.24				4		0.7							0.07			0.33	0.1
PFAS NEMP 2020 Table 5 Freshwater 95%																																
PFAS NEMP 2020 Table 5 Freshwater 99%																																
NEPM 2013 Table 1A(4) Res HSL A/B GW for Vapour Intrusion, Sand																																
2-4m																																
4-8m																																
>8m																																
Field_ID	**Location**	**Well**	**Sampled_Date_Time**																															
GW01	GW01		5/02/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
GW02	GW02		5/02/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
GW03	GW03		5/02/2023	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-	<0.002	<0.002	<0.002	-	<0.002	<0.002	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	-	-	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.01
DUP01	GW03		5/02/2023	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	-	<0.002	<0.002	<0.002	-	<0.002	<0.002	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	-	-	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.01
SPLIT01	GW03		5/02/2023	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.1	<0.1	<0.1	-	<0.1	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.1

99% protectio levels adiopted for anthracene, benzo(a)pyrene, fluoranthene and phenanthrei

Data Comments
#1 Quantification of linear and branched isomers has been conducted as a single total respon

Table D: Groundwater Analytical Data
Project Number: 63879
Project Name: Broken Hill Hospital Redevelopment

	Solvents	PFAS																																			
	Acetone	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorooctanoic acid (PFOA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)	Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (NMeFOSA)	N-Ethyl perfluorooctane sulfonamide (NEtFOSA)	N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE)	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	N-methylperfluorooctane sulfonamidoacetic acid (NMeFOSAA)	N-ethyl-perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	Perfluoropropanesulfonic acid (PFPrS)	Perfluorobutanesulfonic acid (PFBS)	Perfluoropentanesulfonic acid (PFPeS)	Perfluorohexanesulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorooctanesulfonic acid (PFOS)	Perfluorodecanesulfonic acid (PFDS)	1H:1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	1H:1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	1H:1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	1H:1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	Sum of PFHxS and PFOS	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	Sum of US EPA PFAS (PFOS + PFOA)*	Sum of WA DWER PFAS (n=10)*	Sum of PFAS	Perfluorononanesulfonic acid ion
	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	UG/L	µg/L	µg/L
EQL	0.005	0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.05	0.1	0.01
ADWG (2011) Health - Petroleum Products (Adopted from WHO Drinking Water 2008)																																				
ADWG (2011) Health - Updated March-2021	14					0.56																	0.07		0.07						0.07					
ADWG (2011) Health x 10 (Recreational) - Updated March-2021	140					5.6																	0.7		0.7						0.7					
ANZECC 2000 Irrigation Long Term Trigger Values																																				
ANZECC 2000 Irrigation Short Term Trigger Values																																				
ANZG (2018) Freshwater 95% toxicant DGVs																																				
PFAS NEMP 2020 Table 5 Freshwater 95%						220																				0.13										
PFAS NEMP 2020 Table 5 Freshwater 99%						19																				0.00023										
NEPM 2013 Table 1A(4) Res HSL A/B GW for Vapour Intrusion, Sand																																				
2-4m																																				
4-8m																																				
>8m																																				

Field_ID	Location	Well	Sampled_Date_Time																																			
GW01	GW01		5/02/2023	<0.005	0.05	0.02	<0.01	<0.01	0.01#1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.01	0.03	0.01#1	0.07#1	<0.01	0.07#1	<0.01	<0.01	<0.05	<0.01	<0.01	0.14	0.15	0.08	0.25	0.27	<0.01
GW02	GW02		5/02/2023	<0.005	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	0.01	<0.01	0.04#1	<0.01	0.04#1	<0.01	<0.01	<0.05	<0.01	<0.01	0.08	0.08	0.04	0.09	<0.1	<0.01
GW03	GW03		5/02/2023	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.01	0.02#1	<0.01	0.13#1	<0.01	<0.01	<0.05	<0.01	<0.01	0.15	0.15	0.13	0.15	0.15	<0.01
DUP01	GW03		5/02/2023	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.01	0.03#1	<0.01	0.28#1	<0.01	<0.01	<0.05	<0.01	<0.01	0.31	0.31	0.28	0.31	0.31	<0.01
SPLIT01	GW03		5/02/2023	-	<0.02	<0.02	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.05	<0.1	<0.5	<0.1	<0.05	<0.1	<0.05	<0.5	<0.02	<0.02	-	0.01	<0.01	0.02	<0.01	0.04	<0.02	<0.01	<0.01	<0.02	<0.02	0.06	-	0.04	-	0.08	-

99% protectio levels adiopted for anthracene, benzo(a)pyrene, fluoranthene and phenanthrei

Data Comments
#1 Quantification of linear and branched isomers has been conducted as a single total respon

Table D: Groundwater Analytical Data
Project Number: 63879
Project Name: Broken Hill Hospital Redevelopment

			MAH										Miscellaneous Hydrocarbons							Chlorinated Benzenes						Trihalomethanes					Major Cations			
			1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	n-butylbenzene	n-propylbenzene	p-isopropyltoluene	sec-butylbenzene	Styrene	tert-butylbenzene	Total MAH	Bromobenzene	Isopropylbenzene	1,2-dibromoethane	Bromomethane	Cyclohexane	Dibromomethane	Iodomethane	4-Methyl-2-pentanone	Methyl Ethyl Ketone	1,2,3-trichlorobenzene	1,2,4-trichlorobenzene	1,2-Dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Chlorobenzene	Dibromochloromethane	Chloroform	Tribromomethane	Bromodichloromethane	Carbon disulfide	Calcium	Magnesium	Hardness as CaCO3	Hexachlorobutadiene
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL			0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.003	0.001	0.001	0.001	0.005	0.001	0.001	0.001	0.005	0.005	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.005	0.001	0.001	0.001	0.5	0.5	5	0.001
ADWG (2011) Health - Petroleum Products (Adopted from WHO Drinking Water 2008)																																			
ADWG (2011) Health - Updated March-2021									0.03					0.001	0.001								1.5		0.04	0.3									0.0007
ADWG (2011) Health x 10 (Recreational) - Updated March-2021									0.3					0.01	0.01								15		0.4	3									0.007
ANZECC 2000 Irrigation Long Term Trigger Values																																			
ANZECC 2000 Irrigation Short Term Trigger Values																																			
ANZG (2018) Freshwater 95% toxicant DGVs													0.03								0.01	0.17	0.16	0.26	0.06	0.055		0.77							
PFAS NEMP 2020 Table 5 Freshwater 95%																																			
PFAS NEMP 2020 Table 5 Freshwater 99%																																			
NEPM 2013 Table 1A(4) Res HSL A/B GW for Vapour Intrusion, Sand																																			
2-4m																																			
4-8m																																			
>8m																																			
Field_ID	**Location**	**Well**	**Sampled_Date_Time**																																	
GW01	GW01		5/02/2023	<0.001	<0.001	-	-	-	-	<0.001	-	0.006	<0.001	<0.001	<0.001	<0.005	-	<0.001	<0.001	<0.005	<0.005	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	110	110	740	-
GW02	GW02		5/02/2023	<0.001	<0.001	-	-	-	-	<0.001	-	0.04	<0.001	<0.001	<0.001	<0.005	-	<0.001	<0.001	<0.005	<0.005	-	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	110	72	580	-
GW03	GW03		5/02/2023	<0.002	<0.002	-	-	-	-	<0.002	-	0.007	<0.002	<0.002	<0.002	<0.01	-	<0.002	<0.002	<0.01	<0.01	-	-	0.014	<0.002	<0.002	0.002	<0.002	<0.005	<0.002	<0.002	<0.002	67	53	380	-
DUP01	GW03		5/02/2023	<0.002	<0.002	-	-	-	-	<0.002	-	0.16	<0.002	<0.002	<0.002	<0.01	-	<0.002	<0.002	<0.01	<0.01	-	-	0.27	<0.002	0.062	0.045	<0.002	<0.005	<0.002	<0.002	<0.002	-	-	-	-
SPLIT01	GW03		5/02/2023	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	<0.1	<0.01	<0.01	<0.01	-	-	-	<0.01	<0.01	0.26	0.013	0.058	0.036	<0.01	<0.01	<0.01	<0.01	-	-	-	<0.01

99% protectio levels adiopted for anthracene, benzo(a)pyrene, fluoranthene and phenanthrei

Data Comments
#1 Quantification of linear and branched isomers has been conducted as a single total respon

TABLE E: Waste Classification Analytical Data
Project Number: 63879
Project Name: Broken Hill Hospital Redevelopment

			Metals & Metalloids									TPHs (NEPC 1999)				
			Arsenic	Cadmium	Chromium (III+VI)	Copper	Iron	Lead	Mercury	Nickel	Zinc	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum of Total)
			mg/kg	mg/kg	mg/kg	mg/kg	MG/KG	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL			2	0.4	5	5	20	5	0.1	5	5	20	20	50	50	50
NSW 2014 General Solid Waste CT1 (No Leaching)			100	20	100#1			100	4	40		650#2				10000#2
NSW 2014 General Solid Waste SCC1 (with leached)			500	100	1900#1			1500	50	1050		650#5				10000#5
NSW 2014 Restricted Solid Waste CT2 (No Leaching)			400	80	400#1			400	16	160		2600#2				40000#2
NSW 2014 Restricted Solid Waste SCC2 (with leached)			2000	400	7600#1			6000	200	4200		2600#5				40000#5
Field ID	**Sampled Date**	**Lab Report Number**														
ED-B1_0.0-0.1	2/02/2023	962621	2.1	<0.4	16	26	31,000	11	<0.1	14	46	<20	<20	<50	<50	<50
ED-B1_0.0-1.0	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B1_0.4-0.5	2/02/2023	962621	2.7	<0.4	21	30	-	14	<0.1	13	39	-	-	-	-	-
ED-B1_0.9-1.0	2/02/2023	962621	2.1	<0.4	18	37	-	13	<0.1	12	36	-	-	-	-	-
ED-B2_0.0-0.1	4/02/2023	962621	11	<0.4	17	25	-	16	<0.1	19	53	-	-	-	-	-
ED-B2_0.0-0.3	4/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B2_0.2-0.3	4/02/2023	962621	4.5	<0.4	18	16	-	12	<0.1	21	52	<20	<20	<50	<50	<50
ED-B3_0.0-0.1	4/02/2023	962621	5.9	<0.4	17	9	-	9	<0.1	11	41	<20	<20	<50	<50	<50
ED-B3_0.0-0.7	4/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B3_0.2-0.3	4/02/2023	962621	<2	<0.4	14	<5	-	<5	<0.1	7.9	31	-	-	-	-	-
ED-B4_0.1-0.2	4/02/2023	962621	<2	<0.4	7.7	<5	-	<5	<0.1	<5	9.9	-	-	-	-	-
ED-B4_0.1-0.5	4/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B4_0.4-0.5	4/02/2023	962621	<2	<0.4	7.4	<5	-	<5	<0.1	<5	7.4	<20	<20	<50	<50	<50
ED-B5_0.0-0.1	2/02/2023	962621	<2	<0.4	7.7	<5	-	<5	<0.1	<5	9.2	<20	<20	<50	<50	<50
ED-B5_0.0-0.3	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B5_0.2-0.3	2/02/2023	962621	<2	<0.4	7.6	<5	-	<5	<0.1	<5	10	-	-	-	-	-
ED-B6_0.1-0.2	2/02/2023	962621	<2	<0.4	7.4	<5	-	<5	<0.1	<5	11	-	-	-	-	-
ED-B6_0.1-0.3	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B6_0.2-0.3	2/02/2023	962621	3.4	<0.4	8.5	6	-	<5	<0.1	6	14	<20	<20	<50	<50	<50
ED-B7_0.0-0.2	4/02/2023	962621	69	<0.4	25	40	-	17	<0.1	28	77	<20	<20	<50	<50	<50
ED-B7_0.2-0.3	4/02/2023	962621	4.7	1.1	24	17	-	25	<0.1	18	130	-	-	-	-	-
ED-B8_0.0-0.2	4/02/2023	962621	110	<0.4	17	24	-	12	<0.1	22	60	-	-	-	-	-
ED-B8_0.0-0.6	4/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B8_0.3-0.4	4/02/2023	962621	7.7	<0.4	29	26	-	37	<0.1	19	89	<20	<20	-	150	150
ED-B8_0.5-0.6	2/02/2023	962621	4.3	<0.4	52	28	-	43	<0.1	31	95	-	-	-	-	-
ED-B8_0.8-1.0	4/02/2023	962621	3.9	<0.4	35	16	-	19	<0.1	27	43	<20	<20	-	<50	<50
ED-B9_0.0-0.1	4/02/2023	962621	2.5	<0.4	12	12	-	33	<0.1	7.1	72	-	-	-	-	-
ED-B9_0.1-0.2	4/02/2023	962621	<2	<0.4	8.7	5.5	-	<5	<0.1	<5	11	<20	<20	-	<50	<50
ED-B9_0.1-0.5	4/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B1_0.0-0.1	3/02/2023	962621	3.5	<0.4	26	23	-	42	<0.1	14	120	-	-	-	-	-
MH-B1_0.1-0.2	3/02/2023	962621	2.7	<0.4	27	59	-	35	<0.1	19	110	<20	<20	-	<50	<50
MH-B1_0.2-0.3	3/02/2023	962621	8.9	<0.4	34	35	-	140	0.2	24	150	-	-	-	-	-
MH-B10_0.0-0.2	2/02/2023	962621	4.4	0.8	23	32	-	260	1.6	15	330	<20	<20	-	<50	<50
MH-B10_0.0-0.2A	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B10_0.2-0.4	2/02/2023	962621	5.8	1	26	34	-	310	0.8	17	490	<20	<20	-	<50	<50
MH-B10_0.2-1.0	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B10_0.2-1.0A	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B10_0.5-0.6	2/02/2023	962621	6.1	1.2	27	36	-	470	0.8	19	510	-	-	-	-	-
MH-B2_0.2-0.3	3/02/2023	962621	11	<0.4	51	74	-	120	<0.1	36	180	-	-	-	-	-
MH-B2_0.2-0.8	3/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-

	TRHs (NEPC 2013)							BTEXN							
	C6-C10	C10-C16	C16-C34	C34-C40	C10-C40 (Sum of total)	F1 (C6-C10 minus BTEX)	F2 (C10-C16 less Naphthalene)	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Total BTEX	Naphthalene_VOC
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	20	50	100	100	100	20	50	0.1	0.1	0.1	0.1	0.2	0.3	1	0.5
NSW 2014 General Solid Waste CT1 (No Leaching)								10	288	600			1000		
NSW 2014 General Solid Waste SCC1 (with leached)								18	518	1080			1800		
NSW 2014 Restricted Solid Waste CT2 (No Leaching)								40	1152	2400			4000		
NSW 2014 Restricted Solid Waste SCC2 (with leached)								72	2073	4320			7200		
Field ID															
ED-B1_0.0-0.1	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
ED-B1_0.0-1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B1_0.4-0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B1_0.9-1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B2_0.0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B2_0.0-0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B2_0.2-0.3	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
ED-B3_0.0-0.1	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
ED-B3_0.0-0.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B3_0.2-0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B4_0.1-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B4_0.1-0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B4_0.4-0.5	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
ED-B5_0.0-0.1	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
ED-B5_0.0-0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B5_0.2-0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B6_0.1-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B6_0.1-0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B6_0.2-0.3	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
ED-B7_0.0-0.2	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
ED-B7_0.2-0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B8_0.0-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B8_0.0-0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B8_0.3-0.4	<20	<50	130	170	300	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
ED-B8_0.5-0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B8_0.8-1.0	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
ED-B9_0.0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B9_0.1-0.2	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
ED-B9_0.1-0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B1_0.0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B1_0.1-0.2	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
MH-B1_0.2-0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B10_0.0-0.2	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
MH-B10_0.0-0.2A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B10_0.2-0.4	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
MH-B10_0.2-1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B10_0.2-1.0A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B10_0.5-0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B2_0.2-0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B2_0.2-0.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

	PAH																				
	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(a)pyrene TEQ (LOR)	Benzo(a)pyrene TEQ calc (Half)	Benzo(a)pyrene TEQ calc (Zero)	Benzo(b+j)fluoranthene	Benzo(b+j+k)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	PAHs (Sum of total)
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
NSW 2014 General Solid Waste CT1 (No Leaching)					0.8#3																
NSW 2014 General Solid Waste SCC1 (with leached)					10#6																
NSW 2014 Restricted Solid Waste CT2 (No Leaching)					3.2#3																
NSW 2014 Restricted Solid Waste SCC2 (with leached)					23#6																
Field ID																					
ED-B1_0.0-0.1	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ED-B1_0.0-1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B1_0.4-0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ED-B1_0.9-1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B2_0.0-0.1	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ED-B2_0.0-0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B2_0.2-0.3	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ED-B3_0.0-0.1	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ED-B3_0.0-0.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B3_0.2-0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B4_0.1-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B4_0.1-0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B4_0.4-0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ED-B5_0.0-0.1	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ED-B5_0.0-0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B5_0.2-0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B6_0.1-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B6_0.1-0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B6_0.2-0.3	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ED-B7_0.0-0.2	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ED-B7_0.2-0.3	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ED-B8_0.0-0.2	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ED-B8_0.0-0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B8_0.3-0.4	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ED-B8_0.5-0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B8_0.8-1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ED-B9_0.0-0.1	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ED-B9_0.1-0.2	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ED-B9_0.1-0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B1_0.0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B1_0.1-0.2	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MH-B1_0.2-0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B10_0.0-0.2	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MH-B10_0.0-0.2A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B10_0.2-0.4	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MH-B10_0.2-1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B10_0.2-1.0A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B10_0.5-0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B2_0.2-0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B2_0.2-0.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE E: Waste Classification Analytical Data
Project Number: 63879
Project Name: Broken Hill Hospital Redevelopment

Field ID	Sampled Date	Lab Report Number	Arsenic	Cadmium	Chromium (III+VI)	Copper	Iron	Lead	Mercury	Nickel	Zinc	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum of Total)
			Metals & Metalloids									TPHs (NEPC 1999)				
			mg/kg	mg/kg	mg/kg	mg/kg	MG/KG	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL			2	0.4	5	5	20	5	0.1	5	5	20	20	50	50	50
NSW 2014 General Solid Waste CT1 (No Leaching)			100	20	100[#1]			100	4	40		650[#2]				10000[#2]
NSW 2014 General Solid Waste SCC1 (with leached)			500	100	1900[#1]			1500	50	1050		650[#5]				10000[#5]
NSW 2014 Restricted Solid Waste CT2 (No Leaching)			400	80	400[#1]			400	16	160		2600[#2]				40000[#2]
NSW 2014 Restricted Solid Waste SCC2 (with leached)			2000	400	7600[#1]			6000	200	4200		2600[#5]				40000[#5]
MH-B2_0.4-0.5	3/02/2023	962621	7.9	<0.4	48	44	-	100	<0.1	33	180	<20	<20	-	<50	<50
MH-B3_0.0-0.1	3/02/2023	962621	<2	<0.4	10	13	-	14	<0.1	5.6	47	<20	<20	-	<50	<50
MH-B3_0.0-0.6	3/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B3_0.2-0.3	3/02/2023	962621	<2	<0.4	9.3	<5	-	<5	<0.1	<5	12	-	-	-	-	-
MH-B3_0.8-1.0	3/02/2023	962621	3	<0.4	47	9.3	-	14	<0.1	26	49	<20	<20	-	<50	<50
MH-B4_0.0-0.6	3/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B4_0.2-0.3	3/02/2023	962621	71	<0.4	26	46	-	24	<0.1	35	87	<20	<20	-	<50	<50
MH-B4_0.6-0.7	3/02/2023	962621	11	<0.4	28	<5	-	11	<0.1	15	61	-	-	-	-	-
MH-B5_0.0-0.1	2/02/2023	962621	32	<0.4	19	42	-	24	<0.1	24	59	-	-	-	-	-
MH-B5_0.0-0.9	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B5_0.1-0.2	2/02/2023	962621	22	<0.4	21	45	-	24	<0.1	26	59	<20	<20	-	<50	<50
MH-B5_0.4-0.5	2/02/2023	962621	6.7	<0.4	24	28	-	19	<0.1	16	53	<20	<20	-	<50	<50
MH-B5_0.8-0.9	2/02/2023	962621	8.4	<0.4	21	21	-	20	<0.1	14	44	-	-	-	-	-
MH-B6_0.0-0.1	2/02/2023	962621	15	<0.4	29	35	-	25	<0.1	24	99	<20	<20	-	<50	<50
MH-B6_0.0-0.6	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B6_0.2-0.3	2/02/2023	962621	4.9	<0.4	30	24	27,000	22	<0.1	17	72	-	-	-	-	-
MH-B6_0.4-0.5	2/02/2023	962621	2.6	<0.4	29	11	-	13	<0.1	13	54	-	-	-	-	-
MH-B7_0.0-0.1	2/02/2023	962621	3.5	<0.4	29	9.4	-	11	<0.1	16	51	-	-	-	-	-
MH-B7_0.0-1.0	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B7_0.2-0.3	2/02/2023	962621	3.5	<0.4	30	9	-	13	<0.1	17	54	<20	<20	-	<50	<50
MH-B7_0.9-1.0	2/02/2023	962621	2.3	<0.4	27	8.6	-	9.8	<0.1	15	47	<20	<20	-	<50	<50
MH-B8_0.1-0.2	2/02/2023	962621	42	<0.4	20	44	-	22	<0.1	31	71	-	-	-	-	-
MH-B8_0.1-0.3	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B8_0.3-0.5	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B8_0.4-0.5	2/02/2023	962621	5.6	<0.4	37	22	-	18	<0.1	21	55	<20	<20	-	<50	<50
MH-B8_0.5-0.6	2/02/2023	962621	16	<0.4	38	27	-	16	<0.1	25	60	-	-	-	-	-
MH-B9_0.0-0.1	2/02/2023	962621	34	<0.4	20	53	-	25	<0.1	27	72	-	-	-	-	-
MH-B9_0.0-0.5	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B9_0.2-0.3	2/02/2023	962621	30	<0.4	22	38	-	100	<0.1	24	75	<20	<20	-	<50	<50
MH-B9_0.9-1.0	2/02/2023	962621	6.3	<0.4	41	27	-	15	<0.1	25	68	<20	<20	-	<50	<50
SPLIT01	2/02/2023	35779	4	<0.4	22	9	-	9	<0.1	12	35	<25	<50	-	<100	<50
SPLIT02	2/02/2023	35779	<4	<0.4	12	37	-	10	<0.1	6	15	-	-	-	-	-
SPLIT03	3/02/2023	35779	<4	<0.4	38	7	-	10	<0.1	19	32	<25	<50	-	<100	<50
DUP01	2/02/2023	962621	5.5	<0.4	26	9.3	-	16	<0.1	15	47	<20	<20	<50	<50	<50
DUP02	2/02/2023	962621	<2	<0.4	11	51	-	10	<0.1	7.1	18	-	-	-	-	-
DUP03	3/02/2023	962621	2.7	<0.4	43	8.3	-	14	<0.1	23	44	<20	<20	<50	<50	<50
Statistical Summary																
Number of Results			56	56	56	56	2	56	56	56	56	29	29	29	29	29
Number of Detects			44	4	56	48	2	47	4	49	56	0	0	0	1	1
Minimum Concentration			<2	<0.4	7.4	<5	27000	<5	<0.1	<5	7.4	<20	<20	<50	<50	<50
Minimum Detect			2.1	0.8	7.4	5.5	27000	9	0.2	5.6	7.4	ND	ND	ND	150	150
Maximum Concentration			110	1.2	52	74	31000	470	1.6	36	510	<25	<50	<100	150	150
Maximum Detect			110	1.2	52	74	31000	470	1.6	36	510	ND	ND	ND	150	150
Average Concentration			11	0.26	24	23		41	0.11	17	79	10	11	27	31	29
Median Concentration			4.35	0.2	23.5	23.5	29000	15.5	0.05	17	53.5	10	10	25	25	25
Standard Deviation			20	0.22	12	17		81	0.25	9.1	97	0.64	3.9	6.4	24	23
Number of Guideline Exceedances			1	0	0	0	0	7	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)			1	0	0	0	0	7	0	0	0	0	0	0	0	0

Field ID	C6-C10	C10-C16	C16-C34	C34-C40	C10-C40 (Sum of total)	F1 (C6-C10 minus BTEX)	F2 (C10-C16 less Naphthalene)	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Total BTEX	Naphthalene_VOC
	TRHs (NEPC 2013)							BTEXN							
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	20	50	100	100	100	20	50	0.1	0.1	0.1	0.1	0.2	0.3	1	0.5
NSW 2014 General Solid Waste CT1 (No Leaching)								10	288	600			1000		
NSW 2014 General Solid Waste SCC1 (with leached)								18	518	1080			1800		
NSW 2014 Restricted Solid Waste CT2 (No Leaching)								40	1152	2400			4000		
NSW 2014 Restricted Solid Waste SCC2 (with leached)								72	2073	4320			7200		
MH-B2_0.4-0.5	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
MH-B3_0.0-0.1	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
MH-B3_0.0-0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B3_0.2-0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B3_0.8-1.0	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
MH-B4_0.0-0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B4_0.2-0.3	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
MH-B4_0.6-0.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B5_0.0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B5_0.0-0.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B5_0.1-0.2	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
MH-B5_0.4-0.5	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
MH-B5_0.8-0.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B6_0.0-0.1	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
MH-B6_0.0-0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B6_0.2-0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B6_0.4-0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B7_0.0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B7_0.0-1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B7_0.2-0.3	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
MH-B7_0.9-1.0	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
MH-B8_0.1-0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B8_0.1-0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B8_0.3-0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B8_0.4-0.5	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
MH-B8_0.5-0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B9_0.0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B9_0.0-0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B9_0.2-0.3	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
MH-B9_0.9-1.0	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
SPLIT01	<25	<50	<100	<100	<50	<25	<50	<0.2	<0.5	<1	<1	<2	<1	<1	<1
SPLIT02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPLIT03	<25	<50	<100	<100	<50	<25	<50	<0.2	<0.5	<1	<1	<2	<1	<1	<1
DUP01	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
DUP02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP03	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
Statistical Summary															
Number of Results	29	29	29	29	29	29	29	29	29	29	29	29	29	2	29
Number of Detects	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0
Minimum Concentration	<20	<50	<100	<100	<50	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	<1	<0.5
Minimum Detect	ND	ND	130	170	300	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration	<25	<50	130	170	300	<25	<50	<0.2	<0.5	<1	<1	<2	<1	<1	<1
Maximum Detect	ND	ND	130	170	300	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration	10	25	53	54	57	10	25	0.053	0.064	0.081	0.081	0.16	0.17		0.27
Median Concentration	10	25	50	50	50	10	25	0.05	0.05	0.05	0.05	0.1	0.15	0.5	0.25
Standard Deviation	0.64	0	15	22	47	0.64	0	0.013	0.052	0.12	0.12	0.23	0.09		0.064
Number of Guideline Exceedances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Field ID	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(a)pyrene TEQ (LOR)	Benzo(a)pyrene TEQ calc (Half)	Benzo(a)pyrene TEQ calc (Zero)	Benzo(b+j)fluoranthene	Benzo(b+j+k)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene	Phenanthrene	Pyrene	PAHs (Sum of total)
	PAH																				
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
NSW 2014 General Solid Waste CT1 (No Leaching)					0.8[#3]																
NSW 2014 General Solid Waste SCC1 (with leached)					10[#6]																
NSW 2014 Restricted Solid Waste CT2 (No Leaching)					3.2[#3]																
NSW 2014 Restricted Solid Waste SCC2 (with leached)					23[#6]																
MH-B2_0.4-0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MH-B3_0.0-0.1	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MH-B3_0.0-0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B3_0.2-0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B3_0.8-1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MH-B4_0.0-0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B4_0.2-0.3	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MH-B4_0.6-0.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B5_0.0-0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B5_0.0-0.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B5_0.1-0.2	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MH-B5_0.4-0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MH-B5_0.8-0.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B6_0.0-0.1	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MH-B6_0.0-0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B6_0.2-0.3	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MH-B6_0.4-0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B7_0.0-0.1	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MH-B7_0.0-1.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B7_0.2-0.3	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MH-B7_0.9-1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MH-B8_0.1-0.2	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MH-B8_0.1-0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B8_0.3-0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B8_0.4-0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MH-B8_0.5-0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B9_0.0-0.1	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MH-B9_0.0-0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B9_0.2-0.3	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MH-B9_0.9-1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SPLIT01	<0.1	<0.1	<0.1	<0.1	<0.05	<0.5	<0.5	<0.5	-	<0.2	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05
SPLIT02	<0.1	<0.1	<0.1	<0.1	<0.05	<0.5	<0.5	<0.5	-	<0.2	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05
SPLIT03	<0.1	<0.1	<0.1	<0.1	<0.05	<0.5	<0.5	<0.5	-	<0.2	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05
DUP01	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
DUP02	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
DUP03	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Statistical Summary																					
Number of Results	40	40	40	40	40	40	40	40	37	3	40	37	40	40	40	40	40	40	40	40	40
Number of Detects	0	0	0	0	0	37	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration	<0.1	<0.1	<0.1	<0.1	<0.05	<0.5	<0.5	<0.5	<0.5	<0.2	<0.1	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05
Minimum Detect	ND	ND	ND	ND	ND	1.2	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	0.6	<0.5	<0.5	<0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Maximum Detect	ND	ND	ND	ND	ND	1.2	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration	0.24	0.24	0.24	0.24	0.23	1.1	0.57	0.25	0.25	0.1	0.24	0.25	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.23
Median Concentration	0.25	0.25	0.25	0.25	0.25	1.2	0.6	0.25	0.25	0.1	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Standard Deviation	0.053	0.053	0.053	0.053	0.06	0.25	0.093	0	0	0	0.053	0	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.06
Number of Guideline Exceedances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TABLE E: Waste Classification Analytical Data
Project Number: 63879
Project Name: Broken Hill Hospital Redevelopment

			Organochlorine Pesticides																							Chlorinated Alkanes																			
			4,4-DDE	a-BHC	b-BHC	d-BHC	g-BHC (Lindane)	Aldrin	Dieldrin	Aldrin + Dieldrin	Chlordane	Chlordane (cis)	Chlordane (trans)	DDT	DDD	DDT+DDE+DDD	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor Epoxide	Methoxychlor	Toxaphene	1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,2,3-trichloropropane	1,2-dibromo-3-chloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	2,2-dichloropropane	Bromochloromethane	Carbon tetrachloride	Chloroethane	Chloromethane	Dichlorodifluoromethane	Dichloromethane	Trichlorofluoromethane
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL			0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.1	0.1	0.1	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
NSW 2014 General Solid Waste CT1 (No Leaching)																											200	600	26	24				10						10				172	
NSW 2014 General Solid Waste SCC1 (with leached)																											360	1080	46.8	43.2				18						18				310	
NSW 2014 Restricted Solid Waste CT2 (No Leaching)																											800	2400	104	96				40						40				688	
NSW 2014 Restricted Solid Waste SCC2 (with leached)																											1440	4320	187.2	172.8				72						72				1240	
Field ID	**Sampled Date**	**Lab Report Number**																																												
ED-B1_0.0-0.1	2/02/2023	962621	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B1_0.0-1.0	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B1_0.4-0.5	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B1_0.9-1.0	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B2_0.0-0.1	4/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B2_0.0-0.3	4/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B2_0.2-0.3	4/02/2023	962621	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B3_0.0-0.1	4/02/2023	962621	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B3_0.0-0.7	4/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B3_0.2-0.3	4/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B4_0.1-0.2	4/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B4_0.1-0.5	4/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B4_0.4-0.5	4/02/2023	962621	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B5_0.0-0.1	2/02/2023	962621	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B5_0.0-0.3	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B5_0.2-0.3	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B6_0.1-0.2	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B6_0.1-0.3	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B6_0.2-0.3	2/02/2023	962621	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B7_0.0-0.2	4/02/2023	962621	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B7_0.2-0.3	4/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B8_0.0-0.2	4/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B8_0.0-0.6	4/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B8_0.3-0.4	4/02/2023	962621	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.3	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.13	<0.05	<0.05	<0.05	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B8_0.5-0.6	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B8_0.8-1.0	4/02/2023	962621	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B9_0.0-0.1	4/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B9_0.1-0.2	4/02/2023	962621	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B9_0.1-0.5	4/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B1_0.0-0.1	3/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B1_0.1-0.2	3/02/2023	962621	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MH-B1_0.2-0.3	3/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B10_0.0-0.2	2/02/2023	962621	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B10_0.0-0.2A	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B10_0.2-0.4	2/02/2023	962621	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B10_0.2-1.0	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B10_0.2-1.0A	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B10_0.5-0.6	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B2_0.2-0.3	3/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B2_0.2-0.8	3/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE E: Waste Classification Analytical Data
Project Number: 63879
Project Name: Broken Hill Hospital Redevelopment

	Organochlorine Pesticides																									Chlorinated Alkanes																			
	4,4-DDE	a-BHC	b-BHC	d-BHC	g-BHC (Lindane)	Aldrin	Dieldrin	Aldrin + Dieldrin	Chlordane	Chlordane (cis)	Chlordane (trans)	DDT	DDD	DDT+DDE+DDD	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor Epoxide	Methoxychlor	Toxaphene	1,1,1,2-tetrachloroethane	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	1,1,2-trichloroethane	1,1-dichloroethane	1,2,3-trichloropropane	1,2-dibromo-3-chloropropane	1,2-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	2,2-dichloropropane	Bromochloromethane	Carbon tetrachloride	Chloroethane	Chloromethane	Dichlorodifluoromethane	Dichloromethane	Trichlorofluoromethane
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.1	0.1	0.1	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
NSW 2014 General Solid Waste CT1 (No Leaching)																									200	600	26	24				10					10				172	
NSW 2014 General Solid Waste SCC1 (with leached)																									360	1080	46.8	43.2				18					18				310	
NSW 2014 Restricted Solid Waste CT2 (No Leaching)																									800	2400	104	96				40					40				688	
NSW 2014 Restricted Solid Waste SCC2 (with leached)																									1440	4320	187.2	172.8				72					72				1240	
Field ID	**Sampled Date**	**Lab Report Number**																																										
MH-B2_0.4-0.5	3/02/2023	962621	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B3_0.0-0.1	3/02/2023	962621	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B3_0.0-0.6	3/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B3_0.2-0.3	3/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B3_0.8-1.0	3/02/2023	962621	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B4_0.0-0.6	3/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B4_0.2-0.3	3/02/2023	962621	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B4_0.6-0.7	3/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B5_0.0-0.1	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B5_0.0-0.9	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B5_0.1-0.2	2/02/2023	962621	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B5_0.4-0.5	2/02/2023	962621	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B5_0.8-0.9	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B6_0.0-0.1	2/02/2023	962621	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MH-B6_0.0-0.6	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B6_0.2-0.3	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B6_0.4-0.5	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B7_0.0-0.1	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B7_0.0-1.0	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B7_0.2-0.3	2/02/2023	962621	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B7_0.9-1.0	2/02/2023	962621	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B8_0.1-0.2	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B8_0.1-0.3	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B8_0.3-0.5	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B8_0.4-0.5	2/02/2023	962621	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B8_0.5-0.6	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B9_0.0-0.1	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B9_0.0-0.5	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B9_0.2-0.3	2/02/2023	962621	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B9_0.9-1.0	2/02/2023	962621	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPLIT01	2/02/2023	35779	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPLIT02	2/02/2023	35779	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPLIT03	3/02/2023	35779	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP01	2/02/2023	962621	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP02	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP03	3/02/2023	962621	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Statistical Summary																																												
Number of Results			29	29	29	29	29	29	29	29	27	2	2	29	29	29	29	29	29	29	29	27	29	29	29	27	2	2	2	2	2	2	0	2	2	2	0	2	2	2	2	2	2	2
Number of Detects			0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration			<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	99999	<0.5	<0.5	<0.5	99999	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Minimum Detect			ND	ND	ND	ND	ND	ND	ND	ND	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration			<0.1	<0.1	<0.1	<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	<0.1	<0.1	0.13	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0	<0.5	<0.5	<0.5	0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Maximum Detect			ND	ND	ND	ND	ND	ND	ND	ND	0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration			0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.059			0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.027	0.025	0.03	0.027	0.027	0.25																			
Median Concentration			0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.05	0.05	0.05	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.25	0.25	0.25	0.25	0.25	0.25	0.25		0.25	0.25	0.25		0.25	0.25	0.25	0.25	0.25	0.25	0.25
Standard Deviation			0.006	0.0064	0.0064	0.0064	0.0064	0.0064	0.0064	0.0064	0.048			0.006	0.006	0.006	0.0064	0.0064	0.0064	0.0064	0.0064	0	0.02	0.0064	0.0064	0																			
Number of Guideline Exceedances			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TABLE E: Waste Classification Analytical Data
Project Number: 63879
Project Name: Broken Hill Hospital Redevelopment

	Chlorinated Alkenes													Solvents	Polychlorinated Biphenyls								MAH						Miscellaneous Hydrocarbons					
	1,1-dichloroethene	1,1-dichloropropene	2-chlorotoluene	3-chloropropene	4-chlorotoluene	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Trichloroethene	Vinyl Chloride	Acetone	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	PCBs (Sum of total)	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	Styrene	Total MAH	Bromobenzene	Isopropylbenzene	1,2-dibromoethane	Bromomethane	Dibromomethane	Iodomethane	4-Methyl-2-pentanone	Methyl Ethyl Ketone
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
NSW 2014 General Solid Waste CT1 (No Leaching)	14							14			10	4									<50[#4]			60										4000
NSW 2014 General Solid Waste SCC1 (with leached)	25							25.2			18	7.2									<50[#7]			108										7200
NSW 2014 Restricted Solid Waste CT2 (No Leaching)	56							56			40	16									<50[#4]			240										16000
NSW 2014 Restricted Solid Waste SCC2 (with leached)	100							100.8			72	28.8									<50[#8]			432										28800
Field ID	**Sampled Date**	**Lab Report Number**																																	
ED-B1_0.0-0.1	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-
ED-B1_0.0-1.0	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B1_0.4-0.5	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B1_0.9-1.0	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B2_0.0-0.1	4/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B2_0.0-0.3	4/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B2_0.2-0.3	4/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-
ED-B3_0.0-0.1	4/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-
ED-B3_0.0-0.7	4/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B3_0.2-0.3	4/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B4_0.1-0.2	4/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B4_0.1-0.5	4/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B4_0.4-0.5	4/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-
ED-B5_0.0-0.1	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-
ED-B5_0.0-0.3	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B5_0.2-0.3	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B6_0.1-0.2	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B6_0.1-0.3	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B6_0.2-0.3	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-
ED-B7_0.0-0.2	4/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-
ED-B7_0.2-0.3	4/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B8_0.0-0.2	4/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B8_0.0-0.6	4/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B8_0.3-0.4	4/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-
ED-B8_0.5-0.6	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B8_0.8-1.0	4/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-
ED-B9_0.0-0.1	4/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ED-B9_0.1-0.2	4/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-
ED-B9_0.1-0.5	4/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B1_0.0-0.1	3/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B1_0.1-0.2	3/02/2023	962621	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MH-B1_0.2-0.3	3/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B10_0.0-0.2	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-
MH-B10_0.0-0.2A	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B10_0.2-0.4	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-
MH-B10_0.2-1.0	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B10_0.2-1.0A	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B10_0.5-0.6	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B2_0.2-0.3	3/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B2_0.2-0.8	3/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE E: Waste Classification Analytical Data
Project Number: 63879
Project Name: Broken Hill Hospital Redevelopment

	Chlorinated Alkenes												Solvents	Polychlorinated Biphenyls								MAH						Miscellaneous Hydrocarbons					
	1,1-dichloroethene	1,1-dichloropropene	2-chlorotoluene	3-chloropropene	4-chlorotoluene	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Trichloroethene	Vinyl Chloride	Acetone	Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	PCBs (Sum of total)	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	Styrene	Total MAH	Bromobenzene	Isopropylbenzene	1,2-dibromoethane	Bromomethane	Dibromomethane	Iodomethane	4-Methyl-2-pentanone	Methyl Ethyl Ketone
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
NSW 2014 General Solid Waste CT1 (No Leaching)	14							14			10	4									<50[#4]			60										4000
NSW 2014 General Solid Waste SCC1 (with leached)	25							25.2			18	7.2									<50[#7]			108										7200
NSW 2014 Restricted Solid Waste CT2 (No Leaching)	56							56			40	16									<50[#4]			240										16000
NSW 2014 Restricted Solid Waste SCC2 (with leached)	100							100.8			72	28.8									<50[#8]			432										28800

Field ID	Sampled Date	Lab Report Number																																	
MH-B2_0.4-0.5	3/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B3_0.0-0.1	3/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B3_0.0-0.6	3/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B3_0.2-0.3	3/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B3_0.8-1.0	3/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B4_0.0-0.6	3/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B4_0.2-0.3	3/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B4_0.6-0.7	3/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B5_0.0-0.1	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B5_0.0-0.9	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B5_0.1-0.2	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B5_0.4-0.5	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B5_0.8-0.9	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B6_0.0-0.1	2/02/2023	962621	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MH-B6_0.0-0.6	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B6_0.2-0.3	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B6_0.4-0.5	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B7_0.0-0.1	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B7_0.0-1.0	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B7_0.2-0.3	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B7_0.9-1.0	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B8_0.1-0.2	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B8_0.1-0.3	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B8_0.3-0.5	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B8_0.4-0.5	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B8_0.5-0.6	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B9_0.0-0.1	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B9_0.0-0.5	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B9_0.2-0.3	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MH-B9_0.9-1.0	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
SPLIT01	2/02/2023	35779	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
SPLIT02	2/02/2023	35779	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPLIT03	3/02/2023	35779	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP01	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP02	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUP03	3/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-

Statistical Summary

Number of Results	2	0	0	2	2	2	2	2	2	2	2	2	2	29	29	29	29	29	29	29	29	2	2	2	2	2	2	2	2	2	2	2	2	2
Number of Detects	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration	<0.5	99999	99999	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Minimum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration	<0.5	0	0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Maximum Detect	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration														0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05															
Median Concentration	0.25			0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Standard Deviation														0	0	0	0	0	0	0	0															
Number of Guideline Exceedances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TABLE E: Waste Classification Analytical Data
Project Number: 63879
Project Name: Broken Hill Hospital Redevelopment

	Chlorinated Benzenes					Trihalomethanes				Organic Sulfur Compounds	Ionic Balance			Particle Size	Asbestos										Moisture Content	Other		
	1,2-Dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Chlorobenzene	Hexachlorobenzene	Dibromochloromethane	Chloroform	Tribromomethane	Bromodichloromethane	Carbon disulfide	CEC	Conductivity (1:5 aqueous extract)	pH (Lab)	% Clay*	Approximate Sample Mass	Asbestos Sample Dimensions	Mass ACM	Mass Asbestos in ACM	Asbestos from ACM in Soil	Mass FA	Mass Asbestos in FA	Mass AF	Mass asbestos in AF	Asbestos from FA & AF in Soil	Mass Asbestos in FA & AF	Moisture Content	Moisture Content (dried @ 103°C)	TOC	Iron (%)
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	MEQ/100G	US/CM	pH Units	%	g	Comment	g	g	% (w/w)	g	g	g	g	% (w/w)	g	%	%	%	%
EQL	0.5	0.5	0.5	0.5	0.05	0.5	0.5	0.5	0.5	0.5	0.05	10	0.1	1												0.1	1	0.1	0.01
NSW 2014 General Solid Waste CT1 (No Leaching)	86		150	2000			120																						
NSW 2014 General Solid Waste SCC1 (with leached)	155		270	3600			216																						
NSW 2014 Restricted Solid Waste CT2 (No Leaching)	344		600	8000			480																						
NSW 2014 Restricted Solid Waste SCC2 (with leached)	620		1080	14400			864																						
Field ID	**Sampled Date**	**Lab Report Number**																												
ED-B1_0.0-0.1	2/02/2023	962621	-	-	-	-	<0.05	-	-	-	-	-	26	410	9.1	6.1	-	-	-	-	-	-	-	-	-	-	-	8.5	0.3	3.1
ED-B1_0.0-1.0	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	591	-	0	0	0	0	0	0	0	0	-	-	-	-
ED-B1_0.4-0.5	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-	-
ED-B1_0.9-1.0	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.4	-	-
ED-B2_0.0-0.1	4/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.6	-	-
ED-B2_0.0-0.3	4/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1329	-	0	0	0	0	0	0	0	0	-	-	-	-
ED-B2_0.2-0.3	4/02/2023	962621	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	-	-
ED-B3_0.0-0.1	4/02/2023	962621	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.9	-	-
ED-B3_0.0-0.7	4/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1203	-	0	0	0	0	0	0	0	0	-	-	-	-
ED-B3_0.2-0.3	4/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.7	-	-
ED-B4_0.1-0.2	4/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.8	-	-
ED-B4_0.1-0.5	4/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	998	-	0	0	0	0	0	0	0	0	-	-	-	-
ED-B4_0.4-0.5	4/02/2023	962621	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.9	-	-
ED-B5_0.0-0.1	2/02/2023	962621	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.7	-	-
ED-B5_0.0-0.3	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	639	-	0	0	0	0	0	0	0	0	-	-	-	-
ED-B5_0.2-0.3	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.2	-	-
ED-B6_0.1-0.2	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.1	-	-
ED-B6_0.1-0.3	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	629	-	0	0	0	0	0	0	0	0	-	-	-	-
ED-B6_0.2-0.3	2/02/2023	962621	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.6	-	-
ED-B7_0.0-0.2	4/02/2023	962621	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	1003	-	0	0	0	0	0	0	0	0	-	4.2	-	-
ED-B7_0.2-0.3	4/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-	-
ED-B8_0.0-0.2	4/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.6	-	-
ED-B8_0.0-0.6	4/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1080	-	0	0	0	0	0	0	0	0	-	-	-	-
ED-B8_0.3-0.4	4/02/2023	962621	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.1	-	-
ED-B8_0.5-0.6	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-	-
ED-B8_0.8-1.0	4/02/2023	962621	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	-	-
ED-B9_0.0-0.1	4/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	952	-	0	0	0	0	0	0	0	0	-	5.1	-	-
ED-B9_0.1-0.2	4/02/2023	962621	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.3	-	-
ED-B9_0.1-0.5	4/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	846	-	0	0	0	0	0	0	0	0	-	-	-	-
MH-B1_0.0-0.1	3/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	509	-	0	0	0	0	0	0	0	0	-	24	-	-
MH-B1_0.1-0.2	3/02/2023	962621	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	645	-	0	0	0	0	0	0	0	0	-	16	-	-
MH-B1_0.2-0.3	3/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	631	-	0	0	0	0	0	0	0	0	-	14	-	-
MH-B10_0.0-0.2	2/02/2023	962621	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	634	-	0	0	0	0	0	0	0	0	-	7.4	-	-
MH-B10_0.0-0.2A	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	1[#11]	0	0	0	0	0	0	0	0	-	-	-	-
MH-B10_0.2-0.4	2/02/2023	962621	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-	-
MH-B10_0.2-1.0	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	511	-	0	0	0	0	0	0	0	0	-	-	-	-
MH-B10_0.2-1.0A	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	1[#8]	0	0	0	0	0	0	0	0	-	-	-	-
MH-B10_0.5-0.6	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	-	-
MH-B2_0.2-0.3	3/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.5	-	-
MH-B2_0.2-0.8	3/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	546	-	0	0	0	0	0	0	0	0	-	-	-	-

TABLE E: Waste Classification Analytical Data
Project Number: 63879
Project Name: Broken Hill Hospital Redevelopment

	Chlorinated Benzenes					Trihalomethanes				Organic Sulfur Compounds	Ionic Balance			Particle Size	Asbestos										Moisture Content	Other		
	1,2-Dichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Chlorobenzene	Hexachlorobenzene	Dibromochloromethane	Chloroform	Tribromomethane	Bromodichloromethane	Carbon disulfide	CEC	Conductivity (1:5 aqueous extract)	pH (Lab)	% Clay*	Approximate Sample Mass	Asbestos Sample Dimensions	Mass ACM	Mass Asbestos in ACM	Asbestos from ACM in Soil	Mass FA	Mass Asbestos in FA	Mass AF	Mass asbestos in AF	Asbestos from FA & AF in Soil	Mass Asbestos in FA & AF	Moisture Content	Moisture Content (dried @ 103°C)	TOC	Iron (%)
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	MEQ/100G	US/CM	pH Units	%	g	Comment	g	g	% (w/w)	g	g	g	g	% (w/w)	g	%	%	%	%
EQL	0.5	0.5	0.5	0.5	0.05	0.5	0.5	0.5	0.5	0.5	0.05	10	0.1	1												0.1	1	0.1	0.01
NSW 2014 General Solid Waste CT1 (No Leaching)	86		150	2000			120																						
NSW 2014 General Solid Waste SCC1 (with leached)	155		270	3600			216																						
NSW 2014 Restricted Solid Waste CT2 (No Leaching)	344		600	8000			480																						
NSW 2014 Restricted Solid Waste SCC2 (with leached)	620		1080	14400			864																						
Field ID	**Sampled Date**	**Lab Report Number**																												
MH-B2_0.4-0.5	3/02/2023	962621	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.7	-	-
MH-B3_0.0-0.1	3/02/2023	962621	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.2	-	-
MH-B3_0.0-0.6	3/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	589	-	0	0	0	0	0	0	0	0	0	-	-	-	-
MH-B3_0.2-0.3	3/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-
MH-B3_0.8-1.0	3/02/2023	962621	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	805	-	0	0	0	0	0	0	0	0	0	4.1	-	-
MH-B4_0.0-0.6	3/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	984	-	0	0	0	0	0	0	0	0	0	-	-	-
MH-B4_0.2-0.3	3/02/2023	962621	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.6	-	-
MH-B4_0.6-0.7	3/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-
MH-B5_0.0-0.1	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.3	-	-
MH-B5_0.0-0.9	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	628	-	0	0	0	0	0	0	0	0	0	-	-	-
MH-B5_0.1-0.2	2/02/2023	962621	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.9	-	-
MH-B5_0.4-0.5	2/02/2023	962621	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-	-
MH-B5_0.8-0.9	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.2	-	-
MH-B6_0.0-0.1	2/02/2023	962621	<0.5	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-
MH-B6_0.0-0.6	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	588	-	0	0	0	0	0	0	0	0	0	-	-	-
MH-B6_0.2-0.3	2/02/2023	962621	-	-	-	-	-	-	-	-	-	26	350	8.5	6.7	-	-	-	-	-	-	-	-	-	-	-	8	0.4	2.7
MH-B6_0.4-0.5	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.5	-	-
MH-B7_0.0-0.1	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.3	-	-
MH-B7_0.0-1.0	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	731	-	0	0	0	0	0	0	0	0	0	-	-	-
MH-B7_0.2-0.3	2/02/2023	962621	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.8	-	-
MH-B7_0.9-1.0	2/02/2023	962621	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.6	-	-
MH-B8_0.1-0.2	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.7	-	-
MH-B8_0.1-0.3	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	1109	-	0	0	0	0	0	0	0	0	0	-	-	-
MH-B8_0.3-0.5	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	819	-	0	0	0	0	0	0	0	0	0	-	-	-
MH-B8_0.4-0.5	2/02/2023	962621	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	-	-
MH-B8_0.5-0.6	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	-	-
MH-B9_0.0-0.1	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.7	-	-
MH-B9_0.0-0.5	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	667	-	0	0	0	0	0	0	0	0	0	-	-	-
MH-B9_0.2-0.3	2/02/2023	962621	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.6	-	-
MH-B9_0.9-1.0	2/02/2023	962621	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21	-	-
SPLIT01	2/02/2023	35779	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.9	-	-
SPLIT02	2/02/2023	35779	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.7	-	-
SPLIT03	3/02/2023	35779	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.2	-	-
DUP01	2/02/2023	962621	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.1	-	-
DUP02	2/02/2023	962621	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.5	-	-
DUP03	3/02/2023	962621	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.5	-	-
Statistical Summary																													
Number of Results			2	2	2	2	29	2	2	2	2	2	2	2	2	2	27	2	27	27	27	27	27	27	27	27	3	53	2	2
Number of Detects			0	0	0	0	0	0	0	0	0	0	2	2	2	2	27	2	27	27	27	27	27	27	27	27	3	53	2	2
Minimum Concentration			<0.5	<0.5	<0.5	<0.5	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	26	350	8.5	6.1	6	1	0	0	0	0	0	0	0	0	5.9	2.7	0.3	2.7
Minimum Detect			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	26	350	8.5	6.1	6	1	ND	ND	ND	ND	ND	ND	ND	ND	5.9	2.7	0.3	2.7
Maximum Concentration			<0.5	<0.5	<0.5	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	26	410	9.1	6.7	1329	1	0	0	0	0	0	0	0	0	9.7	24	0.4	3.1
Maximum Detect			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	26	410	9.1	6.7	1329	1	ND	ND	ND	ND	ND	ND	ND	ND	9.7	24	0.4	3.1
Average Concentration							0.027										729		0	0	0	0	0	0	0	0	7.9	7.8		
Median Concentration			0.25	0.25	0.25	0.25	0.025	0.25	0.25	0.25	0.25	0.25	26	380	8.8	6.4	645	1	0	0	0	0	0	0	0	0	8.2	6.7	0.35	2.9
Standard Deviation							0.0064										306		0	0	0	0	0	0	0	0	1.9	4.3		
Number of Guideline Exceedances			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

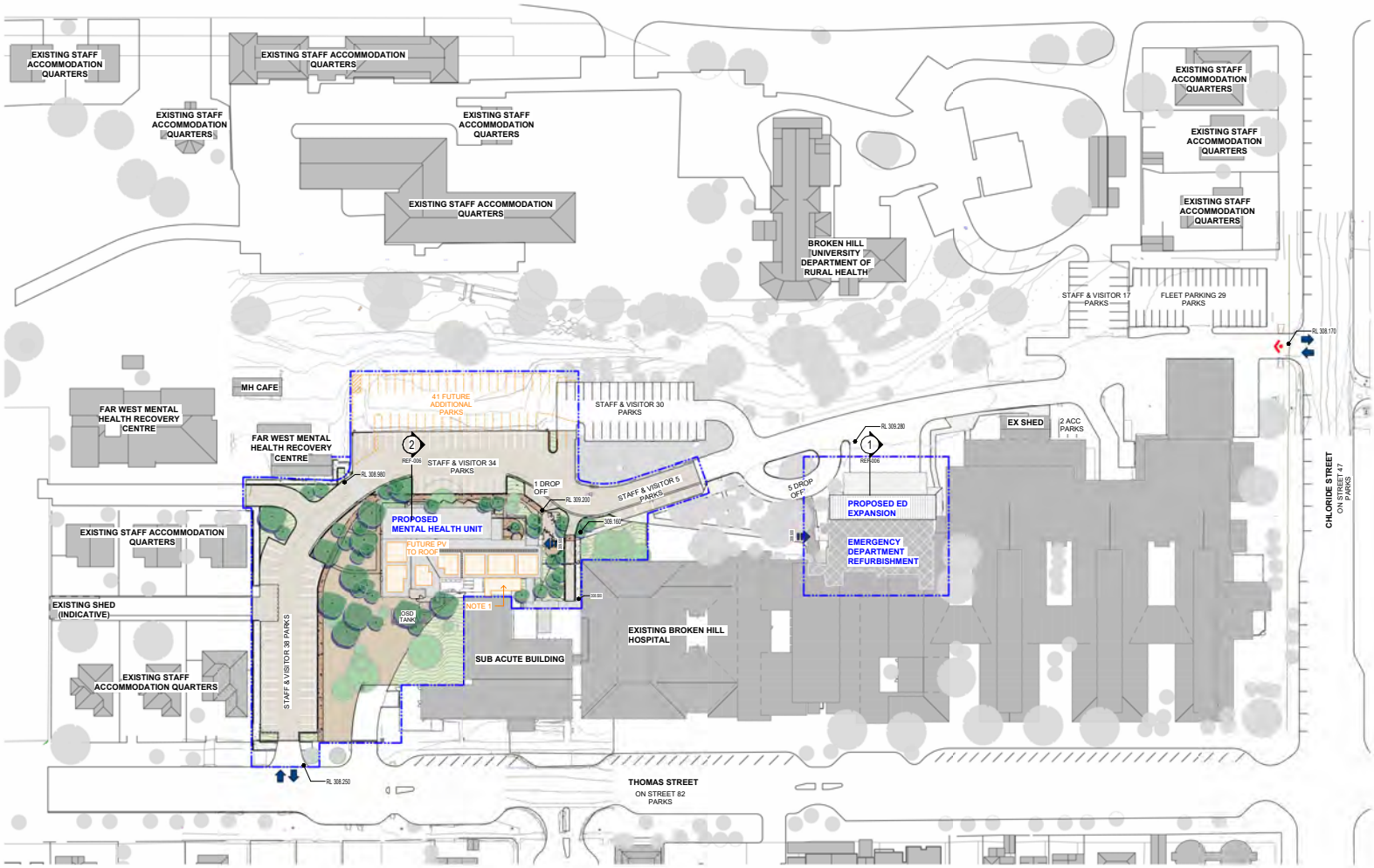
Table F ASLP-TCLP

Project Number: 63879

Project Name: Broken Hill Hospital Redevelopment

				ASLP			Heavy Metal			Organic	TCLP			
				pH of Leaching Fluid	pH (Final)	pH (Initial)	Arsenic	Lead	Nickel	Benzo(a)pyrene	pH of Leaching Fluid	pH (after HCL)	pH (Final)	pH (Initial)
				pH Units	pH Units	pH Units	mg/L	mg/L	mg/L	mg/L	pH Units	pH Units	pH Units	pH Units
EQL				0.1	0.1	0.1	0.01	0.01	0.01	0.0005	0.1	0.1	0.1	0.1
NSW 2014 General Solid Waste TCLP1 (leached)							5	5	2	0.04				
NSW 2014 Restricted Solid Waste TCLP2 (leached)							20	20	8	0.16				
Field ID	**Sampled Date**	**Lab_Report_Number**												
ED-B8_0.0-0.2	4/02/2023	967191	-	-	-	0.02	-	-	-	5	1.6	5.2	8.6
MH-B1_0.2-0.3	3/02/2023	967191	-	-	-	-	0.07	-	-	5	1.6	5.3	8.5
MH-B10_0.2-0.4	2/02/2023	967191	-	-	-	-	0.03	-	-	5	1.6	6.1	8.1
MH-B10_0.5-0.6	2/02/2023	967191	-	-	-	-	0.04	-	-	5	1.5	6.1	8.3
MH-B2_0.2-0.3	3/02/2023	967191	-	-	-	-	0.06	-	-	5	1.6	5.7	8.6

Appendix B Proposed Development Plans



KEY PLAN



REV	DESCRIPTION	DRN	DATE
1	RFI 2 SUBMISSION	MT	19/08/23

LEGEND

- EXTENT OF WORKS
- EXISTING TO REMAIN
- PROPOSED/MODIFIED LANDSCAPING REFER TO LANDSCAPE & CIVIL DOCUMENTS FOR DETAILS
- PEDESTRIAN ENTRANCE
- VEHICLE SITE ACCESS
- AMBULANCE ENTRANCE
- NOTE 1 FUTURE ENCLOSED LINK TO EXISTING SUB ACUTE BUILDING

TOTAL ON-SITE LONG TERM PARKING (LOWER CAMPUS):

EXISTING CAR SPACES:	155
PROPOSED TOTAL CAR SPACES:	155
TOTAL FUTURE CAR SPACE (STAGE 2):	196

LANDSCAPING:

PROPOSED TREES (STAGE 1):	48
FUTURE PROPOSED TREES (STAGE 2):	36
RATIO OF TOTAL PROPOSED TO REMOVED TREES IS APPROXIMATELY:	1.16 : 1

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ISSUED FOR INFORMATION

ARCHITECTS

STH
ABN: 31 154 470 065
PELACO COMPLEX, BUILDING 3, LEVEL 2
21-31 GODDARD ST, RICHMOND VIC 3121, AUSTRALIA
PH: (03) 9885 3333

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CLIENT

NSW GOVERNMENT Health Infrastructure

PROJECT

BROKEN HILL ACUTE ADULT MENTAL HEALTH UNIT AND EMERGENCY DPT

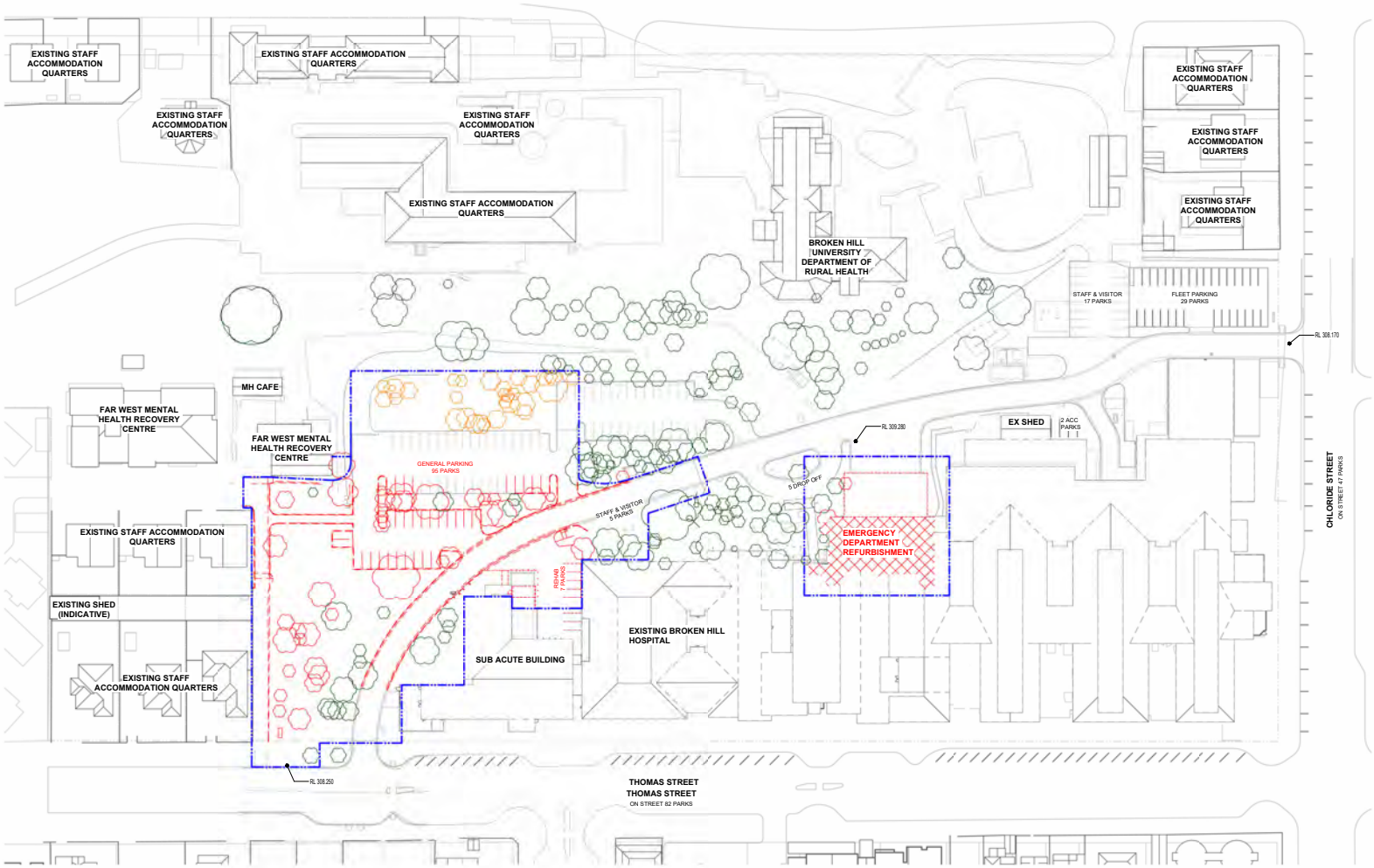
176 Thomas Street
Broken Hill NSW 2880

DRAWING TITLE

SITE PLAN

SCALE	DRAWN BY	CHECKED
1 : 500@A0	MT	EH

PROJECT No.	DRAWING No.	REVISION
10600	STH-AR-DWG-REF-004	1



KEY PLAN



REV	DESCRIPTION	BRN	DATE
1	RFI# SUBMISSION	MT	19/08/23

LEGEND

- DEMOLITION WORKS
- EXISTING TO REMAIN
- TREES TO BE RETAINED
- STAGE 1 TREES TO BE REMOVED
- STAGE 2 TREES TO BE REMOVED

TOTAL ON-SITE LONG TERM PARKING (LOWER CAMPUS):

EXISTING CAR SPACE:	**155 SPACES**
EXISTING CAR SPACE TO BE DEMOLISHED:	**38 SPACES**

LANDSCAPING:

EXISTING TREES TO BE REMOVED (STAGE 1):	**38 TREES**
EXISTING TREES TO BE REMOVED (STAGE 2):	**31 TREES**
TOTAL EXISTING TREES TO BE RETAINED:	**144 TREES**

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ISSUED FOR INFORMATION

ARCHITECTS

STH

ABN: 31 154 470 065
RELACO COMPLEX, BUILDING 3, LEVEL 2
21-31 GOODWOOD ST, RICHMOND VIC 3121, AUSTRALIA
PH: (03) 9866 3533

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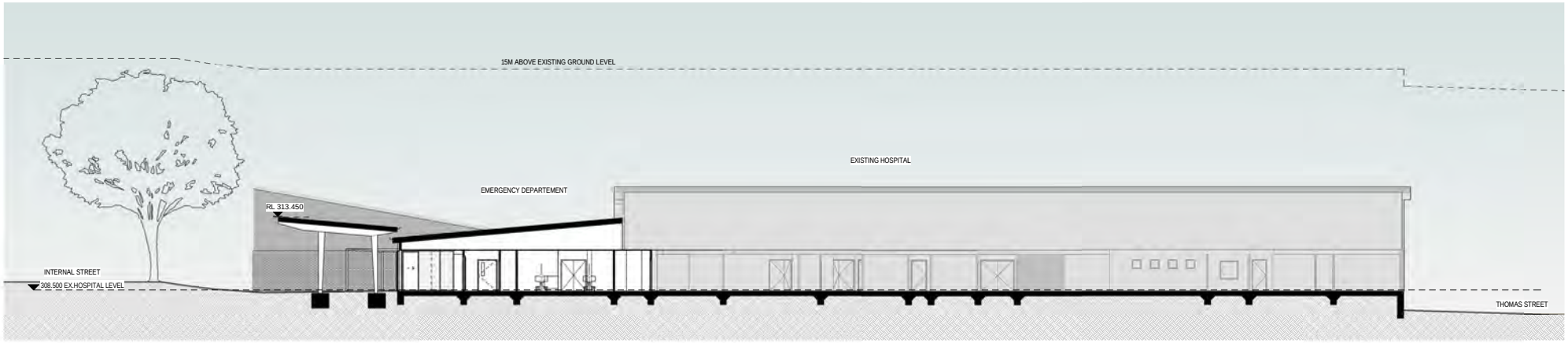
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Broken Hill NSW 2880

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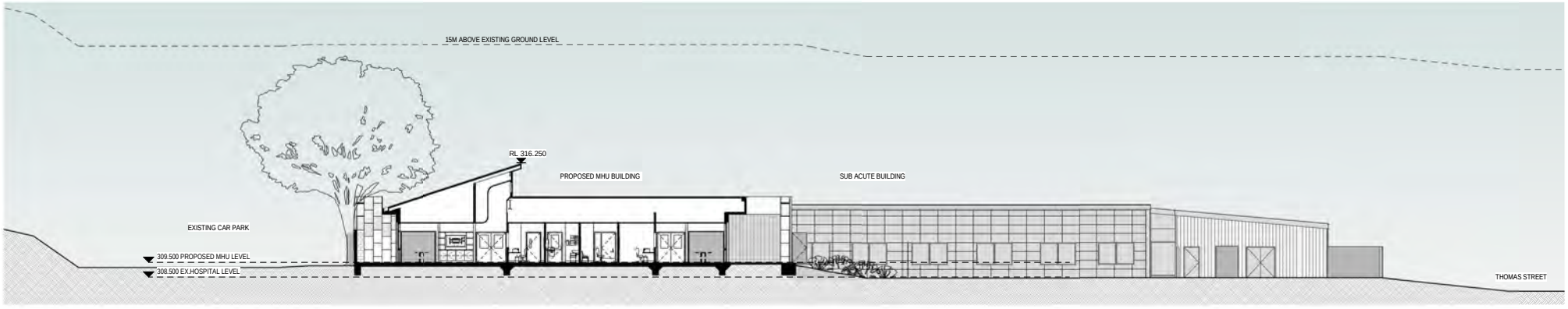
DEMOLITION SITE PLAN

SCALE	DRAWN BY	CHECKED
1 : 500@A0	MT	EH

PROJECT No.	DRAWING No.	REVISION
10600	STH-AR-DWG-REF-005	1



1 SITE SECTION - ED - NORTH/SOUTH
SCALE: 1 : 100



2 SITE SECTION - MHU - NORTH/SOUTH
SCALE: 1 : 100

KEY PLAN



REV	DESCRIPTION	BRN	DATE
1	RFF SUBMISSION	MT	08/06/23

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ISSUED FOR INFORMATION

ARCHITECTS

STH
ABN: 21 134 476 966
PELACO COMPLEX, BUILDING 3, LEVEL 2
21-31 GODDARDS ST, RICHMOND VIC 3121, AUSTRALIA
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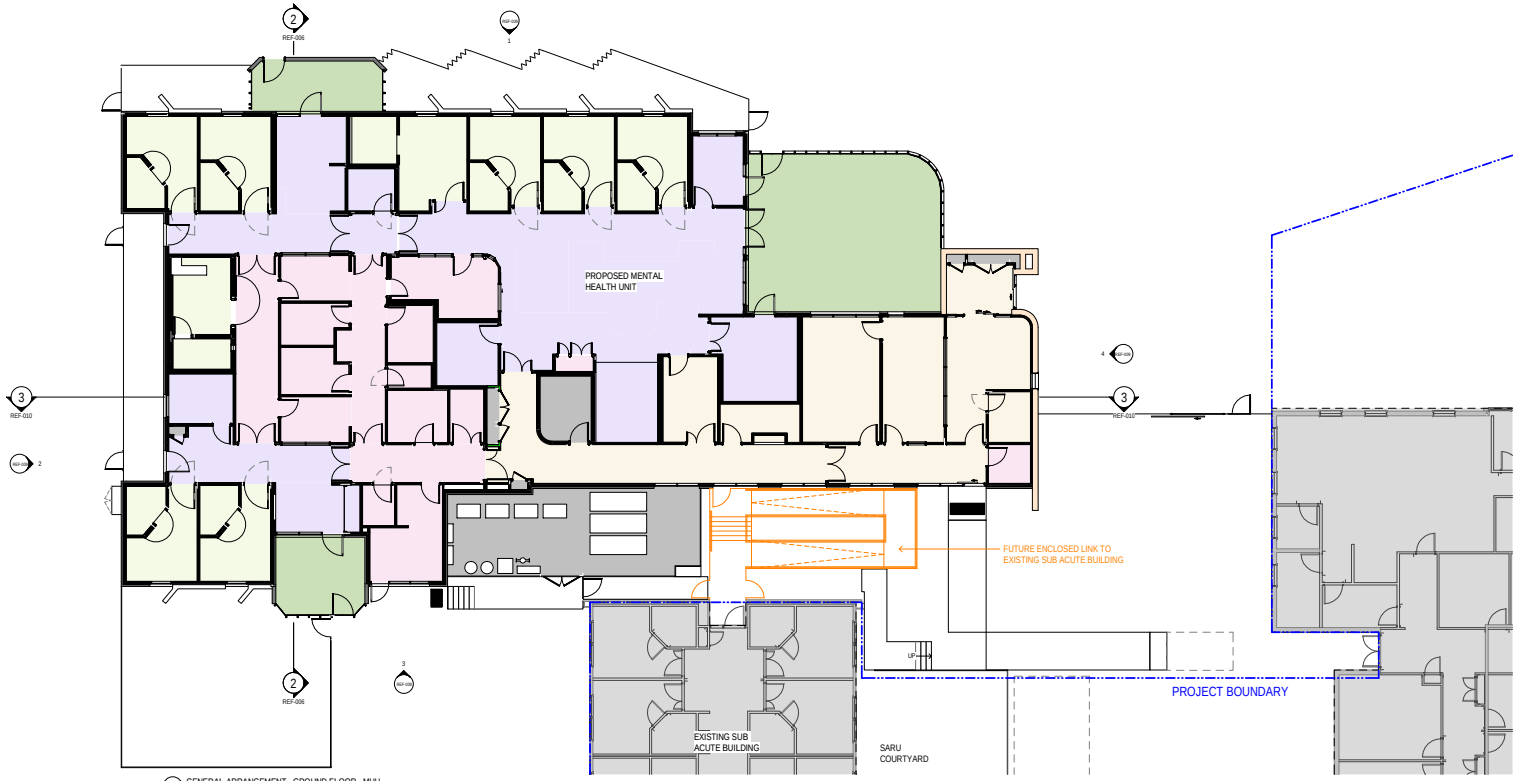
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Broken Hill NSW 2880

DRAWING TITLE

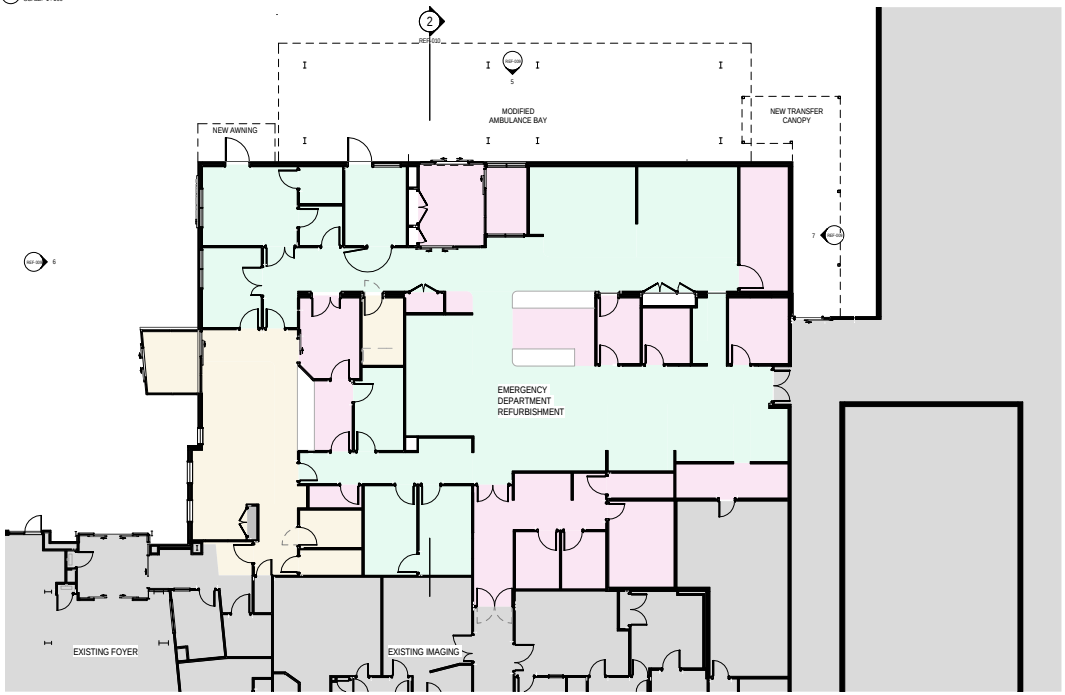
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SCALE	DRAWN BY	CHECKED
1 : 100@A0	MT	EH

PROJECT No	DRAWING No	REVISION
10600	STH-AR-DWG-REF-006	1



1 GENERAL ARRANGEMENT - GROUND FLOOR - MHU
SCALE: 1 : 100



2 GENERAL ARRANGEMENT - GROUND FLOOR - EMERGENCY DEPARTMENT
SCALE: 1 : 100

KEY PLAN

REV	DESCRIPTION	BRN	DATE
1	RFF SUBMISSION	MT	08/06/22

LEGEND

- ENTRY / WAITING / RECEPTION
- INPATIENT UNIT
- STAFF / CLINICAL SUPPORT
- ACTIVITY & RECREATION
- COURTYARDS
- TREATMENT

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ISSUED FOR INFORMATION

ARCHITECTS
STH
ABN: 21 156 476 966
PELACO COMPLEX, BUILDING 3, LEVEL 2
21-31 GOODWOOD ST, RICHMOND VIC 3121, AUSTRALIA
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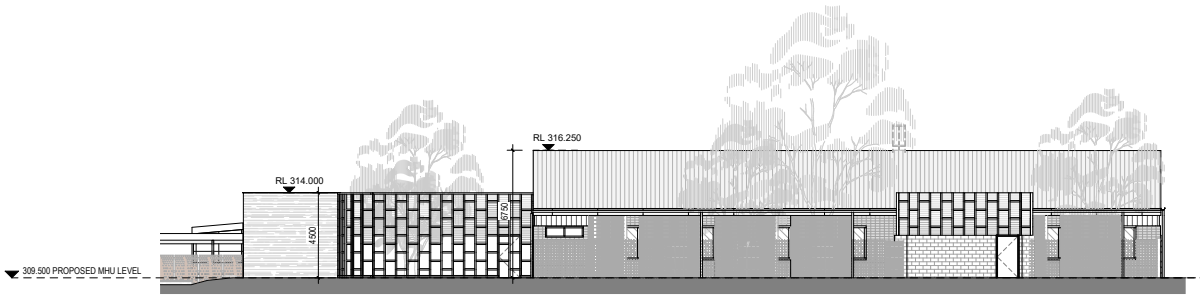
CLIENT
NSW GOVERNMENT Health Infrastructure

PROJECT
BROKEN HILL ACUTE ADULT MENTAL HEALTH UNIT AND EMERGENCY DPT
176 Thomas Street
Broken Hill NSW 2880

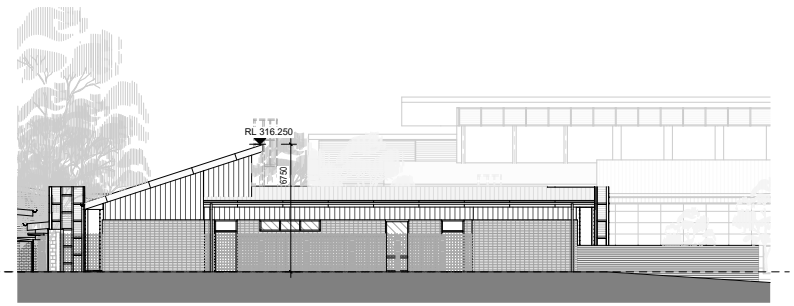
DRAWING TITLE
GENERAL ARRANGEMENT PLAN - GROUND

SCALE	DRAWN BY	CHECKED
As indicated@A0	CJ	EH

PROJECT No: 10600
DRAWING No: STH-AR-DWG-REF-007
REVISION: 1



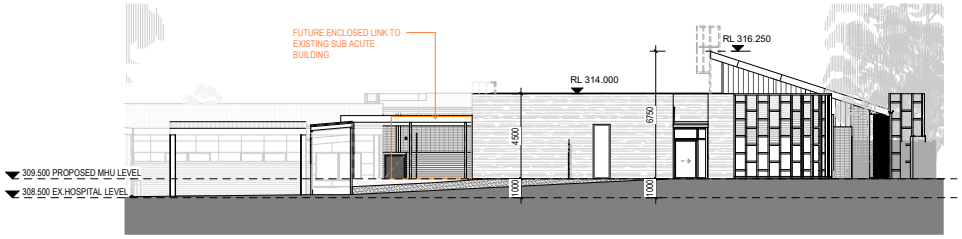
1 MHU - NORTH ELEVATION
SCALE: 1 : 100



2 MHU - WEST ELEVATION
SCALE: 1 : 100



3 MHU - SOUTH ELEVATION
SCALE: 1 : 100



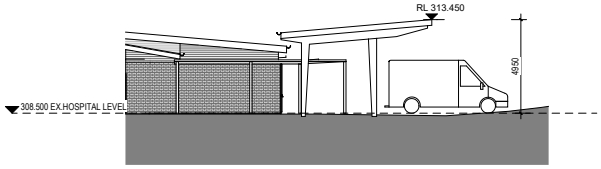
4 MHU - EAST ELEVATION
SCALE: 1 : 100



5 ED - NORTH ELEVATION
SCALE: 1 : 100



6 ED - WEST ELEVATION
SCALE: 1 : 100



7 ED - EAST ELEVATION
SCALE: 1 : 100

KEY PLAN



REV	DESCRIPTION	BRN	DATE
1	RFI 2 SUBMISSION	MT	30/08/23

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ISSUED FOR INFORMATION

ARCHITECTS

STH
ABN: 31 134 470 365
RELACO COMPLEX, BUILDING 3, LEVEL 2
21-31 GOODWOOD ST, RICHMOND VIC 3121, AUSTRALIA
PH: (03) 9885 3333

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PROJECT

BROKEN HILL ACUTE ADULT MENTAL HEALTH UNIT AND EMERGENCY DPT

176 Thomas Street
Broken Hill NSW 2880

DRAWING TITLE

BUILDING ELEVATIONS

SCALE	DRAWN BY	CHECKED
1 : 100@A0	CJ	EH

PROJECT No.	DRAWING No.	REVISION
10600	STH-AR-DWG-REF-009	1

Appendix C Client Provided Documents













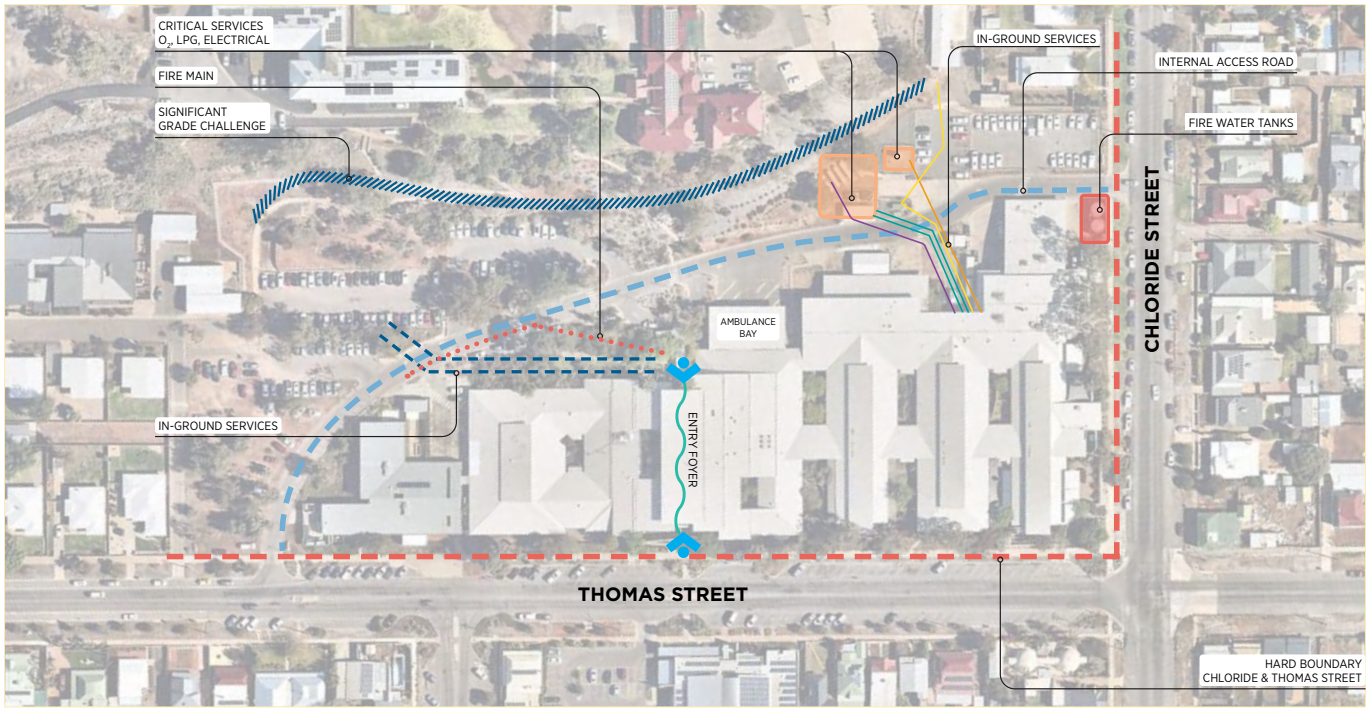






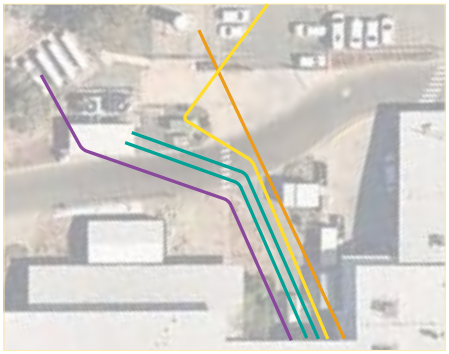


5. HOSPITAL SITE CONSTRAINTS



The subject areas to the north of the main hospital building is a mix of carparking, formal and informal landscaping. The site has undergone a series of benching works to create roadways and carparks. Retaining walls and hardstand areas remain from previous works and may be suitable for incorporation into new works pending further investigations.

In-ground services are known to run around the north of the main hospital building. Consideration to these services was given when locating the MHU development for all options. Further survey works around levels, features and in-ground services locations are pending.



Carpark 1
Refer to Civil Eng dwgs for levels and finishes
Existing floor slab level RL 19.45
41600 16 SPACES AT 2600
Existing retaining wall and handrail to be retained
Extend handrail to bridge gap between new and existing handrails.
extent of new retaining wall.
Pedestrian Crossing
Setdown Area
19900
Ambulance Bay
54900
Disabled Parking
19400
11200
9100
15200
12040
7210
650
7100
16600
4400
6800
30300
8600
5100
6000
3380
6900
18240
7120
24400
24470
17750
11600
12940
12150
2800
9900
46800
2000
2070
8700
54700
2850
2250
2500
2400
100
6000
105520
CHLORIDE STREET
BOUNDARY
ONCOLOGY UNIT
SPECIALIST CLINICS
PRIMARY HEALTH SERVICES
PATHOLOGY
REHABILITATION
RENAL UNIT
Emergency
EMERGENCY SERVICES 465M2
GP SERVICES
KIOSK
MEDICAL IMAGING 415M2
MEDICAL RECORDS 1,204M2
PHARMACY SERVICES
ADMINISTRATION
EXECUTIVE SUITE
AEROMEDICAL HEALTH
EDUCATION
OP SUITE/DAY PROC'S 761M2
CSSD
MORTUARY
BIO-TECH
CCU / ICU
SURGICAL INPATIENT UNIT
OBSTETRICS
MENTAL HEALTH
PSYCHIATRIC UNIT
MEDICAL / REHAB UNIT
STORES MANAG'NT
CATERING SERVICES
ENGINEERING & MAINTENANCE
WASTE MANAG'NT
LINEN MANAG'NT
Linen
Waste
Engineering
30700
17175
7025
12020
7880
8400
8800
17050
12990
14320
13080
18820
12680
14320
7880
7200
66920
34250
11650
17000
10400
22600
8900
17000
6250
290
202850

C	AMENDMENT TO DIM AT SOUTH EAST CORNER	07.05.98	
B	CONSTRUCTION ISSUE	30.4.98	RJ PK
A	TENDER ISSUE	12.01.98	RJ PK

I:\MTEC\DWGS\5044\5044A26.DGS

NOTES:
1. - ALL MATERIALS & INSTALLATION ARE IN ACCORDANCE WITH REQUIREMENTS OF THE RELEVANT AUTHORITIES.
2 - CONTRACTOR VERIFIED ALL DIMENSIONS ON SITE BEFORE COMMENCING ANY WORK.
3 - EXISTING Ø100mm TRAPPED TUNDISH TO RECEIVE DISCHARGE FROM A/C UNITS IN CEILING SPACE.
4 - EXISTING Ø100mm DROPPER TO DISCHARGE OVER TRAPPED TUNDISH AT GROUND LEVEL.
5 - EXISTING 25mm TMV IN S/STEEL BOX RECESSED ABOVE BASIN.
6 - NEW 25mm TMV IN S/STEEL BOX RECESSED IN WALL LOCATED AT HIGH LEVEL.
7 - EXISTING 20mm RPZD VALVES AT L/S AGAINST WALL.
8 - ALLOW FOR NEW LANDSCAPE IRRIGATION POINT. ALLOW TO REMOVE EXISTING IRRIGATION POINT & RECONNECT UNITS IN CEILING SPACE. NEW POINT.

NOTES:
1 - ALL MATERIALS & INSTALLATION ARE IN ACCORDANCE WITH REQUIREMENTS OF THE RELEVANT AUTHORITIES.
2 - CONTRACTOR VERIFIED ALL DIMENSIONS ON SITE BEFORE COMMENCING ANY WORK.
3 - EXISTING Ø100mm TRAPPED TUNDISH AT GROUND LEVEL.
4 - EXISTING Ø100mm DROPPER TO DISCHARGE OVER TRAPPED TUNDISH AT GROUND LEVEL.
5 - EXISTING 25mm TMV IN S/STEEL BOX RECESSED ABOVE BASIN.
6 - NEW 25mm TMV IN S/STEEL BOX RECESSED IN WALL LOCATED AT HIGH LEVEL.
7 - EXISTING 20mm RPZD VALVES AT L/S AGAINST WALL.
8 - ALLOW FOR NEW LANDSCAPE IRRIGATION POINT. ALLOW TO REMOVE EXISTING IRRIGATION POINT.

KEY PLAN

1:350

OVERALL FLOOR PLAN

jw

Appendix D Photographic Log

PHOTOGRAPH 1: OVERVIEW OF THE EMERGENCY DEPARTMENT UPGRADE AREA, FACING NORTH



PHOTOGRAPH 2: OVERVIEW OF THE ED UPGRADE AREA, FACING SOUTH



PHOTOGRAPH 3: OVERVIEW OF THE MENTAL HEALTH UNIT UPGRADE AREA, FACING SOUTHWEST



PHOTOGRAPH 4: OVERVIEW OF THE MHU UPGRADE AREA, FACING NORTHEAST



JBS&G

Job No: 63879

Client: Health Infrastructure

Version: Rev A	Date: 9/03/23
Drawn By: GP	Checked By: JDM

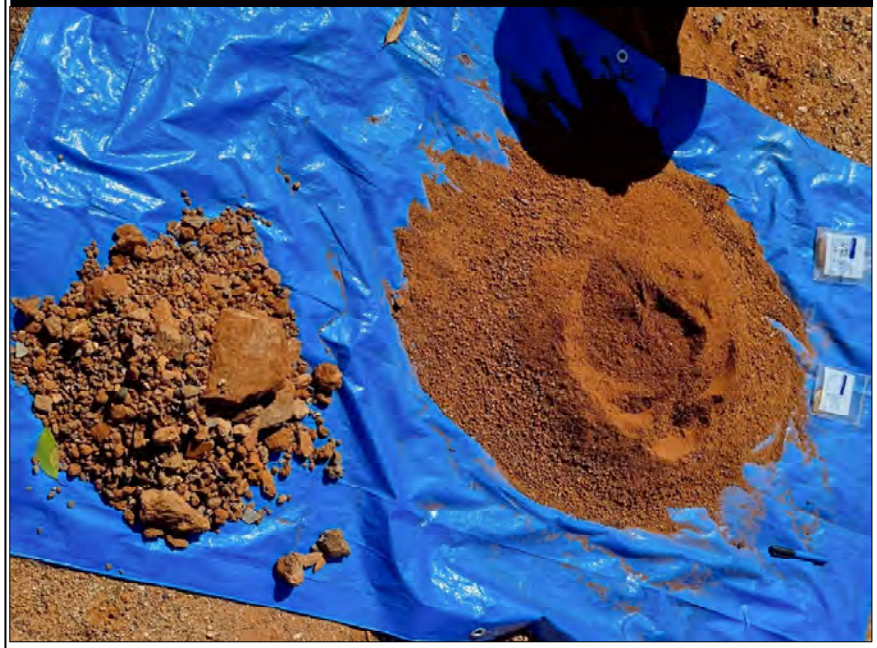
Not to Scale

Coord. Sys n/a

170-330 Thomas St, Broken Hill, NSW

APPENDIX D – PHOTOGRAPHIC LOG

PHOTOGRAPH 5: 20LAQ AT SAMPLE LOCATION MHB10_0-0.4. 2 BAGGED ASBESTOS FRAGMENTS AND SIEVED ANTHROPOGENICS OBSERVABLE



PHOTOGRAPH 6: 20L AT SAMPLE LOCATION ED-05



PHOTOGRAPH 7: 20L AT SAMPLE LOCATION MH-B6



PHOTOGRAPH 8: SANDY MATERIAL OBSERVED ON AUGER AT LOCATION ED-E1



JBS&G

Job No: 63879	
Client: Health Infrastructure	
Version: Rev A	Date: 9/03/23
Drawn By: GP	Checked By: JDM
Not to Scale	
Coord. Sys n/a	
170-330 Thomas St, Broken Hill, NSW	

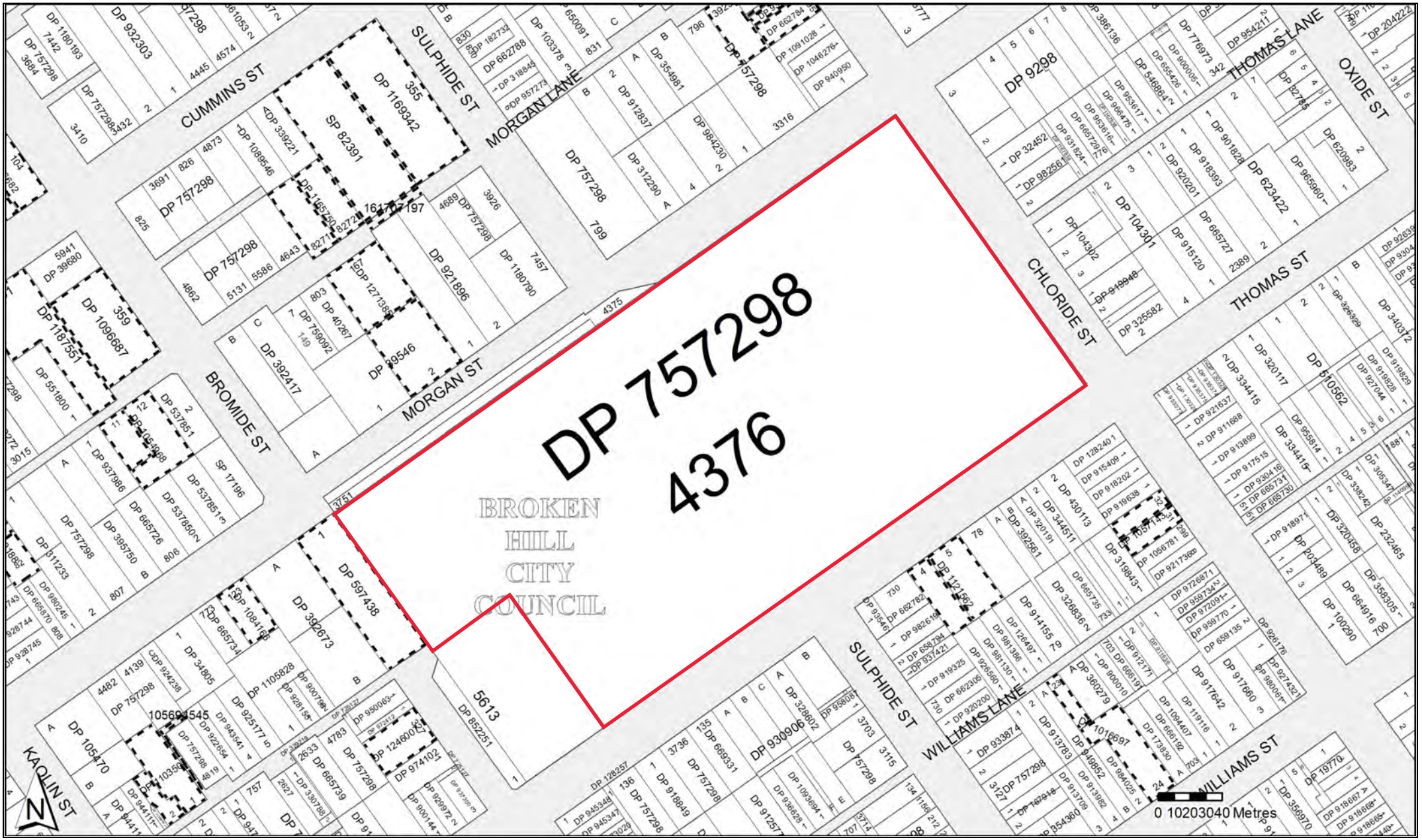
APPENDIX D –PHOTOGRAPHIC LOG

Appendix E Historical Land Titles

Cadastral Records Enquiry Report : Lot 4376 DP 757298

Ref : LS038494_EP Broken Hill Hospital

Locality : BROKEN HILL
Parish : PICTON
LGA : BROKEN HILL
County : YANCOWINNA



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

Req:R827200 /Doc:CP 01842-2186 P /Rev:28-Nov-2012 /NSW LRS /Prt:30-Nov-2022 15:18 /Seq:1 of 1
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Original Plan Cat^d Y.1982186R

Y1842 2186

NOTATION PLAN

Papers

OF HOSPITAL SITE

PORTION 4376 (adopted)

County of Yancowinna Parish of Picton

Resumed Area Nº

Pastoral Holding

Land District Willyama - Western Land Board District

Division

① Grant issued to The Broken Hill and District Hospital vide Parks 33·542 / Pt. Total Area {now 21a 0r 26p vide Gaz. 30-9-1960 / 22a 2r 26p See also Y1439 & 1841 2186}

Within the Suburbs of Willyama

Within the Albert Gold Field. Proclaimed 25th February 1881

Trustees appointed vide Misc 90·5088

{Unnecy part of Morgan St (hatched red) closed. Gaz 10th Jany 1912, Rds 11·840}

Y1842 2186

4376

① Site

Hospital

Rights or Business License January 1889 – Revoked 8.8.47

11th June 1889

Occupation under Miners Right Notified 8th Dedicated

22. 0. 0

20. 2. 0. by deduction

Plan of Portion 4876
Approved for area 20a. 2r. 0p.
by dedn
4-10-60
Draftsman

PLAN MICROFILMED
NO ADDITIONS OR AMENDMENTS TO BE MADE

Improvements	
POR.	Value

Corners

Cor.	Bearing	From	Links	Nº on Tree

Traverse

Cor.	Bearing	From	Links	Nº on Tree	Line	Bearing	Dist.	Line	Bearing	Dist.

Por.	Purchaser	Final Result	Ex^d for Desc^pn	Deed issued

1842. 2186

Scale 4 Chains to an Inch.

Azimuth taken from W.I. 2492 R.

Surveyed by Tho^s H. Bell

on the December 1887

Field Book Nº Fol.

Examined A.D. Lusher Noted &c 25 Jan 1910

Plan approved Ernest Vaughan

Draftsman in Charge

Nº of Lith. 00·559 0

Lithographed and Printed at the Department of Lands, Sydney, N.S.W. 1929

Cat Nº 1198[illegible] Y 1842 2186

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE

30/11/2022 3:19PM

FOLIO: 4376/757298

First Title(s): SEE PRIOR TITLE(S)
Prior Title(s): VOL 4598 FOL 214

Recorded	Number	Type of Instrument	C.T. Issue
20/2/1989		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
7/2/1996		CONVERTED TO AUTO CONSOL 4598-214	CONSOL CREATED CT NOT ISSUED
11/11/2019	AP674181	DEPARTMENTAL DEALING	

*** END OF SEARCH ***

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Received: 30/11/2022 15:19:25

LAND REGISTRY SERVICES Historical Search

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE
30/11/2022 3:20PM

FOLIO: AUTO CONSOL 4598-214

Recorded	Number	Type of Instrument	C.T. Issue
7/2/1996		CONSOL HISTORY RECORD CREATED FOR AUTO CONSOL 4598-214 PARCELS IN CONSOL ARE: 3751/757298, 4375-4376/757298.	
8/2/1996	O900011	DEPARTMENTAL DEALING	EDITION 1
17/4/1996	2073379	LEASE	
17/4/1996	2073380	VARIATION OF LEASE	EDITION 2
29/6/2010	AF114642	REJECTED - LEASE	
29/6/2010	AF371591	REJECTED - REQUEST	
19/8/2010	AF682922	APPLICATION FOR REPLACEMENT CERTIFICATE OF TITLE	
19/8/2010	AF682921	APPLICATION TO RECORD A NEW REGISTERED PROPRIETOR	EDITION 3
15/2/2011	AF734770	LEASE	EDITION 4
5/12/2016	AK974647	APPLICATION FOR REPLACEMENT CERTIFICATE OF TITLE	
5/12/2016	AK974648	APPLICATION TO RECORD A NEW REGISTERED PROPRIETOR	
5/12/2016	AK974649	SURRENDER OF LEASE	
5/12/2016	AK974650	LEASE	EDITION 5
11/11/2019	AP408658	REQUEST	
11/11/2019	AP674181	DEPARTMENTAL DEALING	EDITION 6

*** END OF SEARCH ***

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Received: 30/11/2022 15:20:13

Req:R827532 /Doc:DL AF682921 /Rev:23-Aug-2010 /NSW LRS /Pgs:ALL /Prt:30-Nov-2022 15:58 /Seq:1 of 10
© Office of the Registrar-General /Src:InfoTrack /Ref:LS038494_EP Broken Hill Hospital

Form: 04RP
Release: 2.3
www.lands.nsw.gov.au

APPLICATION TO RECOI NEW REGISTERED PROPRII

New South Wales
Section 46C Real Property Act 19[illegible]
Section 12(4) Trustee Act 1925

AF682921S

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 — Office of State Revenue use only

(A) **TORRENS TITLE** — AUTO CONSOL 4598-214

(B) **REGISTERED DEALING** — Number | Torrens Title

(C) **LODGED BY** — Document Collection Box 411B

Name, Address or DX, Telephone, and LLPN if any
LLPN 123283V
~~TRAVERS & CO~~
Suite 403, Level 4, 38 York St
Sydney NSW 2000
DX 590 SYDNEY
Mobile: 0415 206 800

Reference: SB/BROKEN HILL

CODE **RP**

(D) **APPLICANT** — GREATER WESTERN AREA HEALTH SERVICE

(E) **PRESENT REG'D PROPRIETOR** — FAR WEST HEALTH SERVICE

(F) **NEW REG'D PROPRIETOR** — GREATER WESTERN AREA HEALTH SERVICE

OPP L 20733791

(G) **APPLICATION UNDER SECTION 46C REAL PROPERTY ACT 1900**

In regard to the above land, the applicant requests the Registrar General to record the new registered proprietor on the above folio of the Register, the land having vested in the new proprietor pursuant to—

(H) Schedule 7 - Health Sevices Act 1997 No 154 and Government Gazette No 166 Folio 8131 dated 22/10/2004

(G) **APPLICATION UNDER SECTION 12(4) TRUSTEE ACT 1925** *NOT APPLICABLE*

In regard to the above land, the applicant requests the Registrar General to record the new registered proprietor on the folio of the Register consequent on—

(I)

DATE 27 July 2010

(J) I certify that the person(s) signing opposite, with whom I am personally acquainted or as to whose identity I am otherwise satisfied, signed this instrument in my presence.

Signature of witness:

Name of witness: Carolyn Jensen

Address of witness: PO Box 4061
DUBBO NSW 2830

Certified correct for the purposes of the Real Property Act 1900 by the authorised officer named below.

Signature of authorised officer:

Authorised officer's name: Danny O'Connor
Authority of officer: Chief Executive
Signing on behalf of: Greater Western AHS

Req:R827532 /Doc:DL AF682921 /Rev:23-Aug-2010 /NSW LRS /Pgs:ALL /Prt:30-Nov-2022 15:58 /Seq:2 of 10
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Orders

New South Wales

Health Services (Amalgamation of Area Health Services) Order 2004

under the

Health Services Act 1997

MARIE BASHIR, Governor

I, Professor Marie Bashir AC, Governor of the State of New South Wales, with the advice of the Executive Council, and in pursuance of section 20 (1) of the *Health Services Act 1997*, make the following Order.

Dated, this 20th day of October 2004.

By Her Excellency's Command,

MORRIS IEMMA, M.P.,
Minister for Health

Explanatory note

The object of this Order is to amalgamate the area health services listed in Schedule 1 to the *Health Services Act 1997*. The area health services listed in Column 2 are amalgamated into the area health services listed in Column 1.

Column 1	Column 2
Amalgamated area health service	**Old area health services**
Greater Southern Area Health Service	Greater Murray Area Health Service Southern Area Health Service
Greater Western Area Health Service	Far West Area Health Service Macquarie Area Health Service Mid Western Area Health Service
Hunter and New England Area Health Service	Hunter Area Health Service New England Area Health Service

Req:R827532 /Doc:DL AF682921 /Rev:23-Aug-2010 /NSW LRS /Pgs:ALL /Prt:30-Nov-2022 15:58 /Seq:3 of 10
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Health Services (Amalgamation of Area Health Services) Order 2004

Explanatory note

Column 1	Column 2
Amalgamated area health service	**Old area health services**
North Coast Area Health Service	Mid North Coast Area Health Service Northern Rivers Area Health Service
Northern Sydney and Central Coast Area Health Service	Central Coast Area Health Service Northern Sydney Area Health Service
South Eastern Sydney and Illawarra Area Health Service	Illawarra Area Health Service South Eastern Sydney Area Health Service
Sydney South West Area Health Service	Central Sydney Area Health Service South Western Sydney Area Health Service
Sydney West Area Health Service	Wentworth Area Health Service Western Sydney Area Health Service

This Order is made under section 20 (1) of the *Health Services Act 1997*.

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Health Services (Amalgamation of Area Health Services) Order 2004

under the

Health Services Act 1997

1 Name of Order

This Order is the *Health Services (Amalgamation of Area Health Services) Order 2004*.

2 Commencement

This Order commences on 1 January 2005.

3 Amalgamation of area health services

The area health services listed below in Column 2 are amalgamated to form the area health services listed opposite in Column 1:

Column 1	Column 2
Amalgamated area health service	**Old area health services**
Greater Southern Area Health Service	Greater Murray Area Health Service Southern Area Health Service
Greater Western Area Health Service	Far West Area Health Service Macquarie Area Health Service Mid Western Area Health Service
Hunter and New England Area Health Service	Hunter Area Health Service New England Area Health Service
North Coast Area Health Service	Mid North Coast Area Health Service Northern Rivers Area Health Service
Northern Sydney and Central Coast Area Health Service	Central Coast Area Health Service Northern Sydney Area Health Service
South Eastern Sydney and Illawarra Area Health Service	Illawarra Area Health Service South Eastern Sydney Area Health Service

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Column 1	Column 2
Amalgamated area health service	**Old area health services**
Sydney South West Area Health Service	Central Sydney Area Health Service South Western Sydney Area Health Service
Sydney West Area Health Service	Wentworth Area Health Service Western Sydney Area Health Service

4 Amendment of Health Services Act 1997

The *Health Services Act 1997* is amended as set out in Schedule 1.

5

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acting under the direction of the Council does not, if the matter or thing was done or omitted to be done in good faith for the purpose of executing this Act, subject the member or a person so acting personally to any action, liability, claim or demand.

10 General procedure

The procedure for the calling of meetings of the Advisory Council and for the conduct of business at those meetings is, subject to this Act and the regulations, to be as determined by the Council.

11 Quorum

The quorum for a meeting of the Advisory Council is a majority of the members for the time being.

12 Presiding member

(1) The Chairperson of the Advisory Council or, in the absence of the Chairperson, another member elected as Chairperson for the meeting by the members present is to preside at a meeting of the Council.

(2) The person presiding at any meeting of the Advisory Council has a deliberative vote and, in the event of an equality of votes, has a second or casting vote.

13 Voting

A decision supported by a majority of the votes cast at a meeting of the Advisory Council at which a quorum is present is the decision of the Council.

14 First meeting of Advisory Council

The Director-General is to call the first meeting of the Advisory Council in such manner as the Director-General thinks fit.

Schedule 7 Savings and transitional provisions

(Section 141)

Part 1 – General

1 Regulations

(1) The regulations may contain provisions of a savings or transitional nature consequent on the enactment of the following Acts:

this Act

Health Legislation Amendment Act 1999

Health Legislation Further Amendment Act 2004 (but only to the extent that it amends this Act)

Health Services Amendment Act 2004 (but only to the extent that it amends this Act)

Public Sector Employment Legislation Amendment Act 2006

(2) Any such provision may, if the regulations so provide, take effect from the date of assent to the Act concerned or a later date.

(3) To the extent to which any such provision takes effect from a date that is earlier than the date of its publication in the Gazette, the provision does not operate so as:

(a) to affect, in a manner prejudicial to any person (other than the State or an authority of the State), the rights of that person existing before the date of its publication, or

(b) to impose liabilities on any person (other than the State or an authority of the

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State) in respect of anything done or omitted to be done before the date of its publication.

Part 2 – Provisions consequent on enactment of this Act

Division 1 – General

2 Definitions

In this Part:

"associated organisation" means an organisation or institution mentioned in the Fourth Schedule to the repealed hospitals Act as in force immediately before its repeal.

"former area health board" means an area health board constituted under section 12 of the repealed area Act and as constituted immediately before its repeal.

"former area health service" means an area health service constituted by section 5 of the repealed area Act and specified in Schedule 2 of that Act as in force immediately before its repeal.

"former health organisation" means:

(a) an associated organisation, or
(b) a former area health service, or
(c) an incorporated hospital, or
(d) a separate institution.

"incorporated health service" means any of the following incorporated hospitals:

(a) Far West Health Service,
(b) Greater Murray Health Service,
(c) Macquarie Health Service,
(d) Mid North Coast Health Service,
(e) Mid Western Health Service,
(f) New England Health Service,
(g) Northern Rivers Health Service,
(h) Southern Health Service.

"incorporated hospital" means a hospital mentioned in the Second Schedule to the repealed hospitals Act as in force immediately before its repeal.

"repealed area Act" means the *Area Health Services Act 1986* as in force immediately before its repeal.

"repealed hospitals Act" means the *Public Hospitals Act 1929* as in force immediately before its repeal.

"separate institution" means an institution mentioned in the Third Schedule to the repealed hospitals Act as in force immediately before its repeal.

"successor":

(a) of a former area health service means an area health service constituted under this Act on the commencement of Schedule 1 and having the same name as the former area health service, or
(b) of an incorporated hospital that was an incorporated health service means an area

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health service constituted under this Act on the commencement of Schedule 1 and having the same (or substantially the same) name as the incorporated health service, or
(c) of an incorporated hospital that was not an incorporated health service means a statutory health corporation constituted under this Act on the commencement of Schedule 2 and having the same (or substantially the same) name as the incorporated hospital, or
(d) of a separate institution means an affiliated health organisation specified in Schedule 3 on its commencement having the same name (or having a different name, but being substantially the same organisation or institution) as the separate institution, or
(e) of an associated organisation means an affiliated health organisation specified in Schedule 3 on its commencement and having the same name (or having a different name, but being substantially the same organisation or institution) as an associated organisation.

Division 2 – Former area health services

3 Dissolution of former area health services

A former area health service:

(a) is dissolved on and from the repeal of the repealed area Act, and
(b) its assets, rights and liabilities immediately before its dissolution become assets, rights and liabilities of its successor.

4 Agreements by former area health services

Any agreement between a former area health service and any person that was in force immediately before the dissolution of the former area health service is taken on and from that dissolution to have been entered into between its successor and the person.

5 Delegations by former area health services

Any delegation given by a former area health service under the repealed area Act and in force immediately before the dissolution of that service is taken on and from that dissolution to have been given by its successor.

6 Staff of former area health service

A member of staff of a former area health service is (until other provision is duly made under any Act or law) to be employed as a member of staff of its successor in accordance with any relevant statutory provisions, awards, agreements and determinations that would have applied to the person had the person remained a member of staff of the former area health service and that service not been dissolved.

7 By-laws under repealed area Act

The by-laws in force under section 32 of the repealed area Act immediately before its repeal are taken to have been made under section 39 of this Act. However, this does not prevent the future amendment or repeal of those by-laws.

8 Chief executive officers of former area health boards

(1) A person holding office as a chief executive officer of a former area health board immediately before its dissolution is taken to have been appointed under this Act as the chief executive officer of its successor. Such an appointment is for the remainder of the period of appointment to the position that is abolished by reason of the dissolution of the former area health service.
(2) Appointment by virtue of this clause does not change the contract of employment under Part 2A of the *Public Sector Management Act 1988* between the person as an executive officer and the executive officer's employer. The contract is taken to be with the successor of the former area health service.

9 Members of area health boards of former area health services

Each member of the former area health board (including the chief executive officer) of a former

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area health service holding office immediately before the dissolution of the service is taken to hold office as a member of the area health board of its successor. Such an appointment is for the remainder of the period of appointment to the office that is abolished by reason of the dissolution of the former area health service.

10 Successor same legal entity as former area health service

Subject to this Part, on the dissolution of a former area health service, its successor is taken for all purposes (including the rules of private international law) to be a continuation of and the same legal entity as the former area health service.

11 References to former area health services

(1) A reference in any other Act or instrument made under any other Act or in any instrument of any kind:

(a) to any particular former area health service is taken to be a reference to its successor, and

(b) to an area health service constituted under the repealed area Act is taken to be a reference to an area health service constituted under this Act.

(2) This clause does not apply to the *State Public Service Superannuation Act 1985*.

Division 3 – Incorporated health service

12 Dissolution of incorporated health service

An incorporated health service:

(a) is dissolved on and from the repeal of the repealed hospitals Act, and

(b) its assets, rights and liabilities immediately before its dissolution become assets, rights and liabilities of its successor.

13 Assets, rights, liabilities, staff and other things of certain hospitals taken to belong to certain incorporated health services

(1) Wyalong Health Service On and from 16 March 1996:

(a) the Wyalong Health Service is taken to have been transferred to the Greater Murray Health Service, and

(b) the assets, rights and liabilities relating solely or principally to the operation of the Wyalong Health Service are taken to have been the assets, rights and liabilities of the Greater Murray Health Service, and

(c) a member of staff at the Wyalong Health Service is taken to have been employed as a member of staff of the Greater Murray Health Service in accordance with any relevant statutory provisions, awards, agreements and determinations that applied to the person during the relevant period, and

(d) any agreement between the hospital owner and another person relating solely or principally to the operation of the Wyalong Health Service is taken to be an agreement between the Greater Murray Health Service and the person, and

(e) any delegation given by the hospital owner in respect of the Wyalong Health Service is taken to have been given by the Greater Murray Health Service, and

(f) any by-laws in force under section 28 of the repealed hospitals Act in respect of the Wyalong Health Service are taken to have been made by the Greater Murray Health Service, and

(g) any act, matter or thing done by the Greater Murray Health Service during the relevant period in relation to the Wyalong Health Service that could have been done validly by the hospital owner is validated to the extent of any invalidity.

(2) Balranald District Hospital and Wentworth District Hospital and Health Service On and from 16 March 1996:

(a) the Balranald District Hospital and the Wentworth District Hospital and Health Service are taken to have been transferred to the Far West Health Service,

Req:R827532 /Doc:DL AF682921 /Rev:23-Aug-2010 /NSW LRS /Pgs:ALL /Prt:30-Nov-2022 15:58 /Seq:10 of 10
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and

(b) the assets, rights and liabilities relating solely or principally to the operation of the hospitals are taken to have been the assets, rights and liabilities of the Far West Health Service, and

(c) a member of staff at either hospital is taken to have been employed as a member of staff of the Far West Health Service in accordance with any relevant statutory provisions, awards, agreements and determinations that applied to the person during the relevant period, and

(d) any agreement between the hospital owner and another person relating solely or principally to the operation of the hospital concerned is taken to be an agreement between the Far West Health Service and the person, and

(e) any delegation given by the hospital owner in respect of the hospital concerned is taken to have been given by the Far West Health Service, and

(f) any by-laws in force under section 28 of the repealed hospitals Act in respect of either hospital are taken to have been made by the Far West Health Service, and

(g) any act, matter or thing done by the Far West Health Service during the relevant period in relation to the hospitals that could have been done validly by the hospital owner is validated to the extent of any invalidity.

(3) Minister may confirm transfer The Minister may, by notice in writing, confirm a transfer of assets, rights, liabilities or staff by operation of this Part. Such a notice is conclusive evidence of that transfer.

(4) Definitions In this clause:**"Balranald District Hospital"** means the hospital known as the Balranald District Hospital located at Balranald.**"Far West Health Service"** means the incorporated health service named the Far West Health Service.**"Greater Murray Health Service"** means the incorporated health service named the Greater Murray Health Service.**"hospital owner"** means:

(a) in relation to the Wyalong Health Service--the Mid Western Health Service, and

(b) in relation to the Balranald District Hospital and the Wentworth District Hospital and Health Service--the Greater Murray Health Service.

"relevant period" means the period commencing on 16 March 1996 and ending on the date of the repeal of the repealed hospitals Act.**"Wentworth District Hospital and Health Service"** means the hospital known as the Wentworth District Hospital and Health Service located at Wentworth.**"Wyalong Health Service"** means the hospital known as the Wyalong Health Service located at West Wyalong.

14 Agreements by incorporated health services

Any agreement between an incorporated health service and any person that was in force immediately before the dissolution of the incorporated health service is taken on and from that dissolution to have been entered into between its successor and the person.

15 Delegations by incorporated health services

Any delegation given by an incorporated health service under the repealed hospitals Act and in force immediately before the dissolution of that service is taken on and from that dissolution to have been given by its successor.

16 Staff of incorporated health service

A member of staff of an incorporated health service is (until other provision is duly made under any Act or law) to be employed as a member of staff of its successor in accordance with any relevant statutory provisions, awards, agreements and determinations that would have applied to the person had the person remained a member of staff of the incorporated health service and that service not been dissolved.

Req:R827533 /Doc:DL AK974648 /Rev:08-Dec-2016 /NSW LRS /Pgs:ALL /Prt:30-Nov-2022 15:58 /Seq:1 of 6
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Form: 04RP
Release: 4·2

APPLICATION TO RECORD NEW REGISTERED PROPRIETO
New South Wales
Section 46C Real Property Act 1900
Section 12(4) Trustee Act 1925

AK974648G

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 Office of State Revenue use only

Office of State Revenue
NSW Treasury
Client No: 120350770 3608
Duty: EXEMPT Trans No: 8939716-00
Asst details: S276

(A) TORRENS TITLE Auto Console 4598-214

(B) REGISTERED DEALING

Number	Torrens Title

(C) LODGED BY

Document Collection Box	Name, Address or DX, Telephone, and Customer Account Number if any	CODE
418	LLN 123283V TRAVERS & CO Suite A, Level 3, 215-217 Clarence St Sydney NSW 2000 DX 590 SYDNEY Reference: DaH JG Mobile: 0415 206 800	RP

(D) APPLICANT Far West Local Health District

(E) PRESENT REG'D PROPRIETOR Greater Western Area Health Service

(F) NEW REG'D PROPRIETOR Far West Local Health District

(G) COMPLETE FOR APPLICATION UNDER SECTION 46C REAL PROPERTY ACT 1900

In regard to the above land, the applicant requests the Registrar General to record the new registered proprietor on the above folio of the Register, the land having vested in the new registered proprietor pursuant to—

See 'Annexure A'

(H) COMPLETE FOR APPLICATION UNDER SECTION 12(4) TRUSTEE ACT 1925

In regard to the above SELECT >>> >>>, the applicant requests the Registrar General to record the new registered proprietor on the folio of the Register consequent on—

DATE 01 June 2016

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

Signature of witness:

Name of witness: ANNETTE VARTULI
Address of witness: 97 BROWN STREET
BROKEN HILL NSW 2880
Phone: 08 8087 1469 (W)

Certified correct for the purposes of the Real Property Act 1900 by the authorised officer named below.

Signature of authorised officer: 9/6/16

Authorised officer's name: Stuart Riley
Authority of officer: Chief Exec./ Delegate
Signing on behalf of: Far West LHD

(J) *This section is to be completed where a notice of sale is required and the relevant data has been forwarded through eNOS.*

The applicant's agent certifies that the eNOS data relevant to this dealing has been submitted and stored under eNOS ID No. 1063719 Full name: Jarek Grygier Signature:

** s117 RP Act requires that you must have known the signatory for more than 12 months or have sighted identifying documentation.*

Req:R827533 /Doc:DL AK974648 /Rev:08-Dec-2016 /NSW LRS /Pgs:ALL /Prt:30-Nov-2022 15:58 /Seq:2 of 6
© Office of the Registrar-General /Src:InfoTrack /Ref:LS038494_EP Broken Hill Hospital

Annexure A

Real property in the Local Government Area of Broken Hill which was formally held in the name of "Greater Western Area Health Service" is now held by "Far West Local Health District".

Name change	Legislation
Greater Western Area Health Service to Far West Local Health Network	Health Services Amendment (Local Health Networks) Act 2010.
Far West Local Health Network to Far West Local Health District	Health Services Amendment (Local Health Districts and Boards) Bill 2011

Req:R827533 /Doc:DL AK974648 /Rev:08-Dec-2016 /NSW LRS /Pgs:ALL /Prt:30-Nov-2022 15:58 /Seq:3 of 6
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Column 1	Column 2	Column 3
Name of local health network	**Description of local government area or city**	**Description of area other than local government area**
Western NSW Local Health Network	Bathhurst Regional, Blaney, Bogan, Bourke, Brewarrina, Cabonne, Cobar, Coonamble, Cowra, Dubbo, Forbes, Gilgandra, Lachlan, Mid-Western Regional, Narromine, Oberon, Orange, Parkes, Walgett, Warren, Warrumbungle, Weddin, Wellington	
Far West Local Health Network	Broken Hill, Central Darling	Unincorporated Far West
Mid North Coast Local Health Network	Bellingen, Coffs Harbour, Hastings, Kempsey, Nambucca	
Northern NSW Local Health Network	Ballina, Byron, Clarence Valley, Kyogle, Lismore, Richmond Valley, Tweed	

[35] Schedule 2 Statutory health corporations

Omit "Chief executive" from Column 2 in relation to the matter relating to The Sydney Children's Hospitals Network (Randwick and Westmead) (incorporating The Royal Alexandra Hospital for Children).

Insert instead "Network".

[36] Schedule 2

Insert after the matter relating to the Clinical Excellence Commission, in columns 1 and 2 respectively:

Forensic Mental Health Network	Network

[37] Schedule 4 Transfers, dissolutions, amalgamations and changes of name or nature of governance

Omit clause 4 (1) (b) and (2) (b). Insert instead, respectively:

(b) in the case of a board governed health corporation or network governed health corporation, the members of the board or governing council of the corporation (as the case

Req:R827533 /Doc:DL AK974648 /Rev:08-Dec-2016 /NSW LRS /Pgs:ALL /Prt:30-Nov-2022 15:58 /Seq:4 of 6
© Office of the Registrar-General /Src:InfoTrack /Ref:LS038494_EP Broken Hill Hospital

77 Transfers of assets, rights, liabilities and staff of area health services

(1) Without limiting the generality of section 131, the Governor may make an order under that section during the transitional period as if any reference in the section to a statutory health organisation also included references to both a proposed local health network and proposed statutory health corporation.

(2) Section 131 (3) does not apply during the transitional period in relation to an order made under that section that transfers to a proposed local health network, proposed statutory health corporation, local health network or statutory health corporation:

(a) a public hospital, health institution, health service or health support service under the control of an area health service, or

(b) any assets, rights or liabilities of an area health service.

(3) A transfer under an order made under section 131 to a proposed local health network or proposed statutory health corporation is taken to have effect on the network establishment day.

(4) The provisions of Schedule 4 apply in relation to any of the residual assets, rights and liabilities of each area health service dissolved by operation of clause 76 as if:

(a) an order under section 20 (1) (a) had been made dissolving the service on the network establishment day, and

(b) Schedule 4 continued to apply in relation to the dissolution of an area health service by an order made under that section in the same way as it applied to such a dissolution immediately before the network establishment day.

(5) The Governor may make an order under section 131 transferring to any one or more statutory health organisations any residual assets, rights or liabilities of an area health service that are vested in the Minister by operation of subclause (4) as if the Minister were a statutory health organisation for the purposes of that section. Section 131 (3) does not apply in relation to such an order.

(6) Without limiting clause 18 of Schedule 4, regulations of a savings and transitional nature may be made consequent on the dissolution of an existing area health service by clause 76.

Req:R827533 /Doc:DL AK974648 /Rev:08-Dec-2016 /NSW LRS /Pgs:ALL /Prt:30-Nov-2022 15:58 /Seq:5 of 6
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members (including chairpersons and deputy chairpersons) of local health district boards, and

(d) any person who ceases to be a member (including a chairperson or deputy chairperson) of an existing local health network governing council because of the operation of this clause is not entitled to any compensation for the loss of that office.

(2) Subject to this Division, on the dissolution of an existing local health network, the network's successor is taken for all purposes (including the rules of private international law) to be a continuation of and the same legal entity as the network.

85 Constitution of initial local health districts

(1) Each of the local health districts specified in Schedule 1 (as amended by the amending Act on the reconstitution day) is constituted as such on that day, subject to subclause (2).

(2) Nothing in this clause prevents the amendment of Schedule 1 (whether on or after the reconstitution day) by an order made under section 19 or 20.

86 Transfer of existing local health network's undertaking to network's successor

(1) The following provisions have effect in relation to the assets, rights and liabilities of an existing local health network on its dissolution:

(a) the assets of the network vest in the network's successor by virtue of this clause and without the need for any further conveyance, transfer, assignment or assurance,

(b) the rights or liabilities of the network become by virtue of this clause the rights or liabilities of the network's successor,

(c) all proceedings relating to the assets, rights or liabilities commenced before the network's dissolution by or against the network or a predecessor of the network and pending immediately before the network's dissolution are taken to be proceedings pending by or against the network's successor,

(d) any act, matter or thing done or omitted to be done in relation to the assets, rights or liabilities before the network's dissolution by, to or in respect of the network is (to the extent to which that act, matter or thing has any

Req:R827533 /Doc:DL AK974648 /Rev:08-Dec-2016 /NSW LRS /Pgs:ALL /Prt:30-Nov-2022 15:58 /Seq:6 of 6
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(b) the application (whether with or without modifications) of the by-laws of existing local health networks to local health districts,

(c) the continuation of committees declared (or taken to have been declared) as approved quality assurance committees under section 20E of the *Health Administration Act 1982* and of committees, subcommittees and councils established (or taken to be established or continued in existence) under existing by-laws.

[11] Dictionary

Omit the definitions of ***local health network***, ***local health network governing council*** and ***network governed health corporation*** from Part 1.

Insert in alphabetical order:

local health district—see section 8.

local health district board means a local health district board for a local health district established under section 26.

specialty network governed health corporation means a statutory health corporation that, as specified in Schedule 2, is specialty network governed.

1.2 Related amendments updating references and other minor amendments

[1] The whole Act (except sections 4 (a) and (c1), 41 and 62B, Schedules 2, 6 and 7 and the definition of "NHHN Agreement" in Part 1 of the Dictionary and except as otherwise amended by this Act)

Omit each term or expression specified in Column 1 of the following Table wherever occurring (including definitions, headings and notes) and regardless of capitalisation.

Insert instead the term or expression specified in Column 2 opposite the term or expression specified in Column 1 with capitalisation that corresponds to that of the omitted term or expression:

Table

Column 1	Column 2
network (except when occurring in the expression "network governed health corporation", "network governed health corporations" or "network governance")	district
network's	district's

Title Search

NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: AUTO CONSOL 4598-214

SEARCH DATE	TIME	EDITION NO	DATE
30/11/2022	3:18 PM	6	11/11/2019

LAND

LAND DESCRIBED IN SCHEDULE OF PARCELS
LOCAL GOVERNMENT AREA BROKEN HILL
PARISH OF PICTON COUNTY OF YANCOWINNA
TITLE DIAGRAM SEE SCHEDULE OF PARCELS

FIRST SCHEDULE

HEALTH ADMINISTRATION CORPORATION (R AP408658)

SECOND SCHEDULE (2 NOTIFICATIONS)

1 LAND EXCLUDES MINERALS - SEE CROWN GRANT(S)
2 AK974650 LEASE TO THE UNIVERSITY OF SYDNEY OF PART BEING PREMISES KNOWN AS "CORRINDAH COURT", BUILDING 31 AT BROKEN HILL HOPSPITAL, MORGAN STREET, BROKEN HILL. EXPIRES: 1/8/2027.

NOTATIONS

UNREGISTERED DEALINGS: NIL

SCHEDULE OF PARCELS	TITLE DIAGRAM
LOT 3751 IN DP757298	CROWN PLAN 1489.2186
LOT 4375 IN DP757298	CROWN PLAN 1841.2186
LOT 4376 IN DP757298	CROWN PLAN 1842.2186.

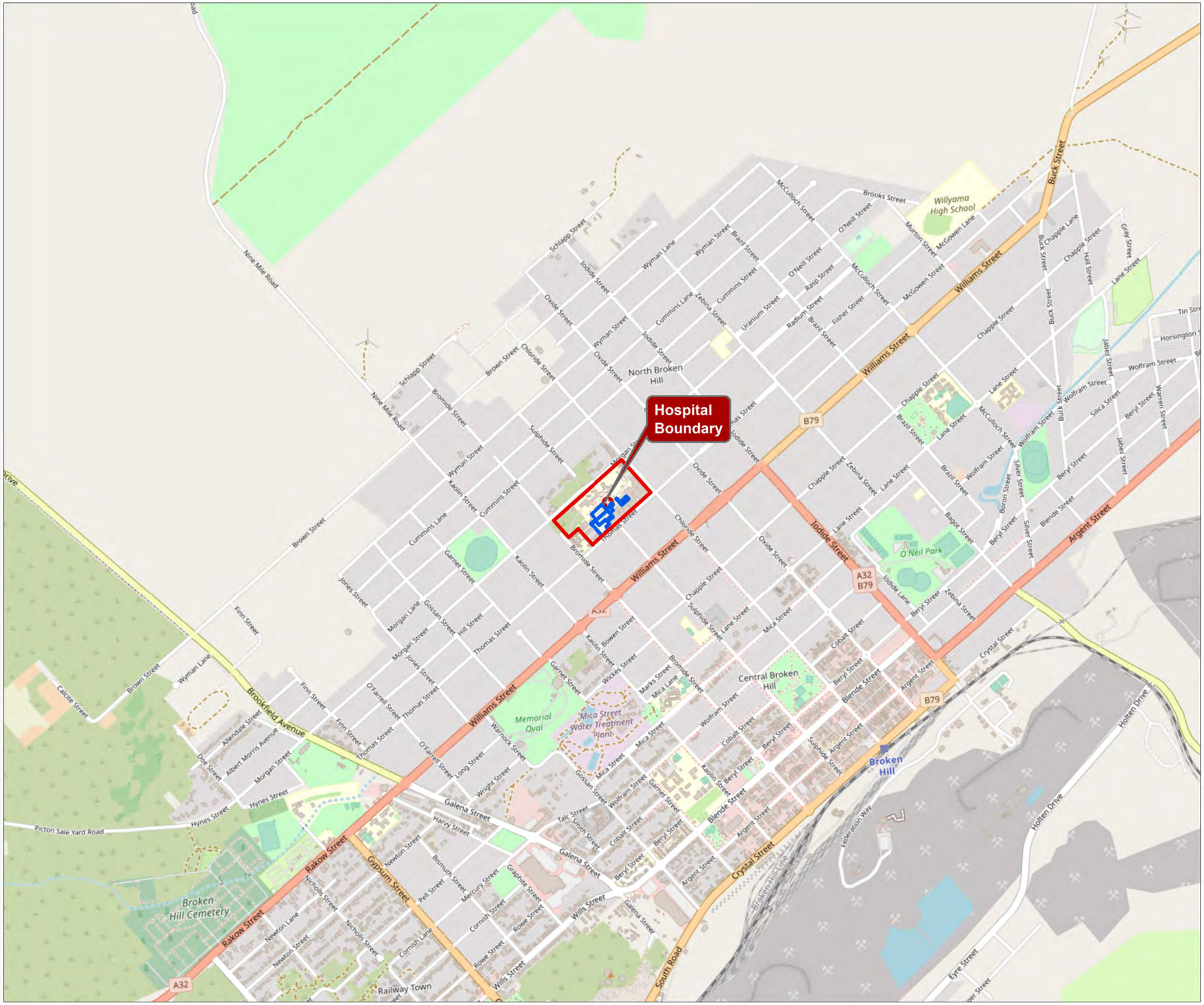
*** END OF SEARCH ***

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

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Received: 30/11/2022 15:18:06

Appendix F Lotsearch (2022) Report



Legend:

- Broken Hill Hospital Boundary
- Broken Hill Hospital Redevelopment (the site)

JBS&G

Job No: 63879

Client: Health Infrastructure

Version: R04 Rev 0	Date 6/10/2023
Drawn By: LJ	Checked By: MH

Scale 1:25,000

0 250 500

metres

Coord. Sys. GDA 1994 MGA Zone 56

170-320 Thomas Street
Broken Hill, NSW

SITE LOCATION

FIGURE 1

File Name: 63879_BrokenHill_R04_Rev0
Reference: © OpenStreetMap (and) contributors, CC-BY-SA



Legend:

- Approximate Site Boundary
- NSW Cadastre
- ED Refurbishment and Expansion
- MHU Expansion Opportunities
- New Areas Added Post Assessment, Data Gaps, Require Further Assessment
- Kincumber House

JBS&G

Job No: 63879

Client: Health Infrastructure

Version: R04 Rev 0	Date 6/10/2023
Drawn By: LJ	Checked By: MH

Scale 1:1,250

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metres

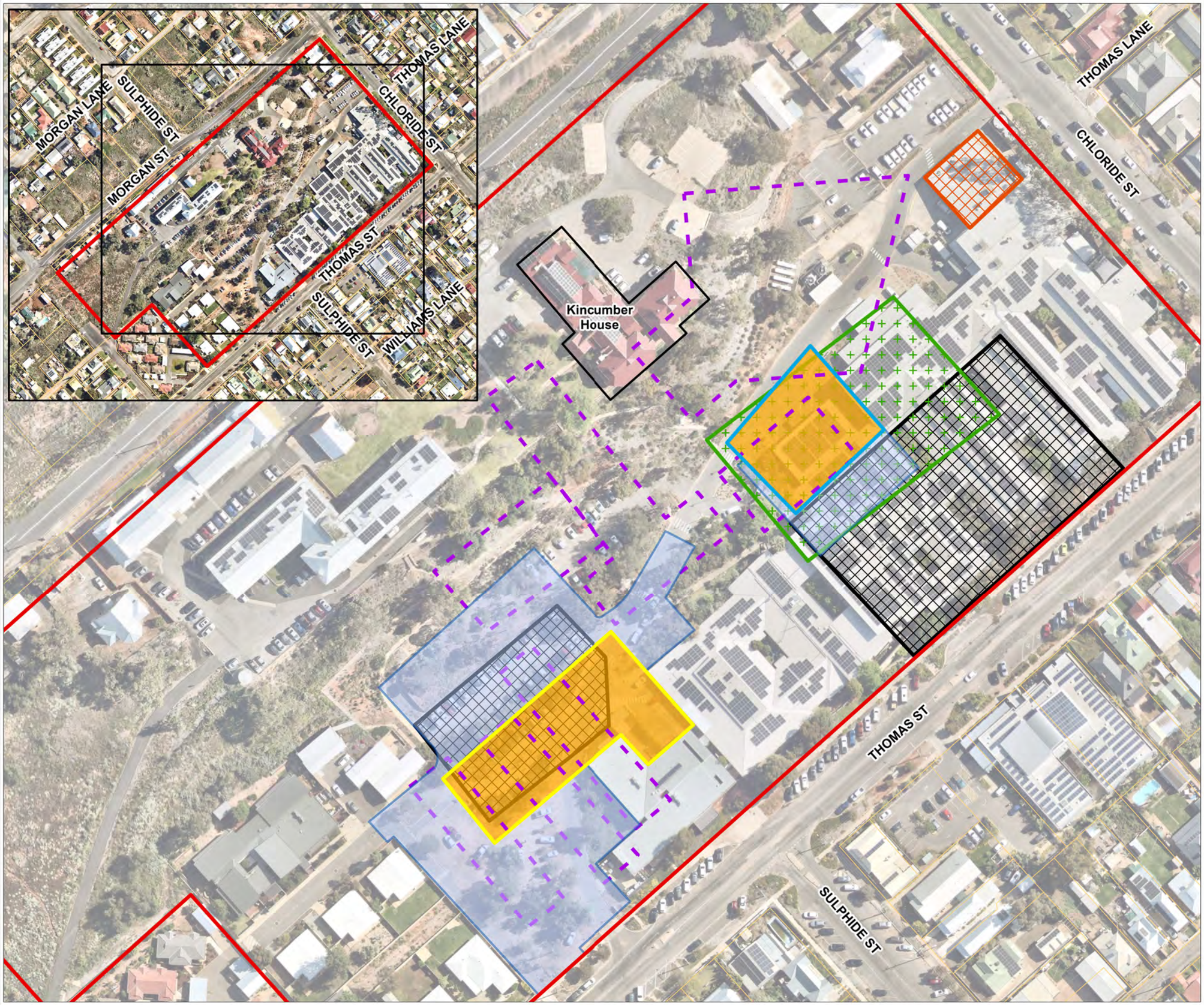
Coord. Sys. GDA 1994 MGA Zone 56

170-320 Thomas Street
Broken Hill, NSW

SITE LAYOUT

FIGURE 2

File Name: 63879_BrokenHill_R04_Rev0
Reference: Nearmap www.nearmap.com 20221017



Legend:

- Approximate Site Boundary
- NSW Cadastre
- ED Refurbishment and Expansion
- MHU Expansion Opportunities
- New Areas Added Post Assessment, Data Gaps, Require Further Assessment
- Kincumber House

Areas of Environmental Concern

- Fill of Unknown Origin
- Former Building Footprint
- Laundry Facilities
- Former Orchard
- Former Carpark

JBS&G

Job No: 63879

Client: Health Infrastructure

Version: R04 Rev 0	Date 6/10/2023
Drawn By: LJ	Checked By: MH

Scale 1:1,750

0 25 50

metres

Coord. Sys. GDA 1994 MGA Zone 56

170-320 Thomas Street
Broken Hill, NSW

AREAS OF ENVIRONMENTAL CONCERN

FIGURE 3

File Name: 63879_BrokenHill_R04_Rev0
Reference: Nearmap www.nearmap.com 20221017



Legend:

- Approximate Site Boundary
- NSW Cadastre
- ED Refurbishment and Expansion
- MHU Expansion Opportunities
- New Areas Added Post Assessment, Data Gaps, Require Further Assessment
- Kincumber House

Areas of Environmental Concern

- Fill of Unknown Origin
- Former Building Footprint
- Former Orchard
- Former Carpark

Sample Locations

- Sample Location
- Asbestos Present Within Fill

JBS&G

Job No: 63879

Client: Health Infrastructure

Version: R04 Rev 0	Date 6/10/2023
Drawn By: LJ	Checked By: MH

Scale 1:1,000

0 10 20
metres

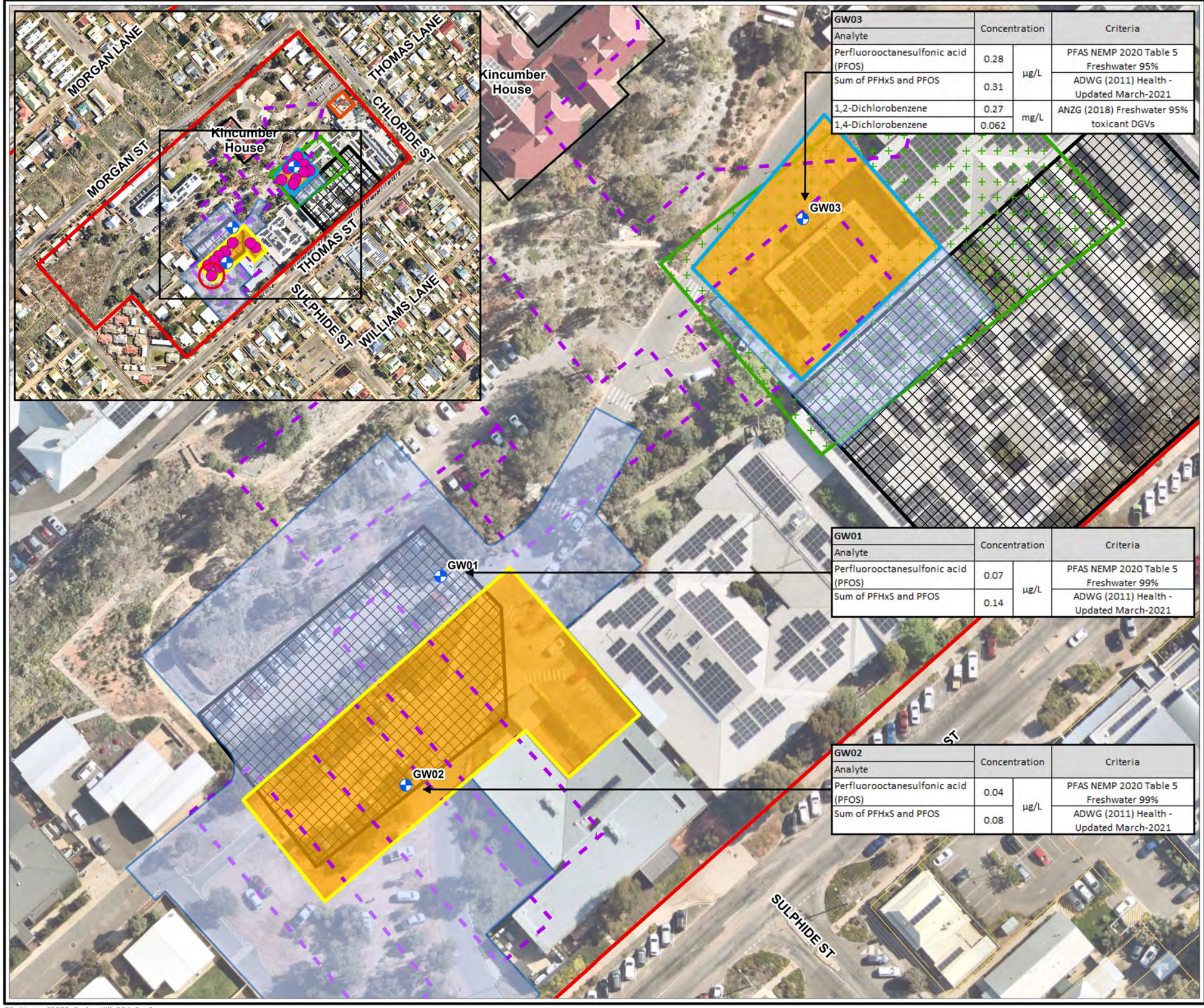
Coord. Sys. GDA 1994 MGA Zone 56

170-320 Thomas Street
Broken Hill, NSW

SOIL SAMPLE LOCATIONS

FIGURE 4

File Name: 63879_BrokenHill_R04_Rev0
Reference: Nearmap www.nearmap.com 20221017



GW03	Concentration		Criteria
Analyte			
Perfluorooctanesulfonic acid (PFOS)	0.28	µg/L	PFAS NEMP 2020 Table 5 Freshwater 95%
Sum of PFHxS and PFOS	0.31		ADWG (2011) Health - Updated March-2021
1,2-Dichlorobenzene	0.27	mg/L	ANZG (2018) Freshwater 95% toxicant DGVs
1,4-Dichlorobenzene	0.062		

GW01	Concentration		Criteria
Analyte			
Perfluorooctanesulfonic acid (PFOS)	0.07	µg/L	PFAS NEMP 2020 Table 5 Freshwater 99%
Sum of PFHxS and PFOS	0.14		ADWG (2011) Health - Updated March-2021

GW02	Concentration		Criteria
Analyte			
Perfluorooctanesulfonic acid (PFOS)	0.04	µg/L	PFAS NEMP 2020 Table 5 Freshwater 99%
Sum of PFHxS and PFOS	0.08		ADWG (2011) Health - Updated March-2021

Legend:

- Approximate Site Boundary
- NSW Cadastre
- ED Refurbishment and Expansion
- MHU Expansion Opportunities
- New Areas Added Post Assessment, Data Gaps, Require Further Assessment
- Kincumber House

Areas of Environmental Concern

- Fill of Unknown Origin
- Former Building Footprint
- Former Orchard
- Former Carpark

Sample Locations

- Groundwater Sample Location

JBS&G

Job No: 63879

Client: Health Infrastructure

Version: R04 Rev 0	Date 6/10/2023
Drawn By: LJ	Checked By: MH

Scale 1:1,100

0 10 20

metres

Coord. Sys. GDA 1994 MGA Zone 56

170-320 Thomas Street
Broken Hill, NSW

GROUNDWATER SAMPLE LOCATIONS AND EXCEEDANCES

FIGURE 5

File Name: 63879_BrokenHill_R04_Rev0
Reference: Nearmap www.nearmap.com 20221017

LOTSEARCH

LOTSEARCH ENVIRO PROFESSIONAL

Date: 29 Nov 2022 09:51:16

Reference: LS038494 EP

Address: Broken Hill Hospital, 176 Thomas Street, Broken Hill, NSW 2880

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.

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 On-site	No. Features within 100m	No. Features within Buffer
Cadastre Boundaries	NSW Department of Customer Service - Spatial Services	04/11/2022	04/11/2022	Quarterly	-	-	-	-
Topographic Data	NSW Department of Customer Service - Spatial Services	22/08/2022	22/08/2022	Annually	-	-	-	-
List of NSW contaminated sites notified to EPA	Environment Protection Authority	08/11/2022	14/10/2022	Monthly	1000m	0	0	0
Contaminated Land Records of Notice	Environment Protection Authority	31/10/2022	31/10/2022	Monthly	1000m	0	0	0
Former Gasworks	Environment Protection Authority	02/09/2022	14/07/2021	Quarterly	1000m	0	0	0
National Waste Management Facilities Database	Geoscience Australia	26/05/2022	07/03/2017	Annually	1000m	0	0	0
National Liquid Fuel Facilities	Geoscience Australia	23/08/2022	13/07/2012	Annually	1000m	0	0	1
EPA PFAS Investigation Program	Environment Protection Authority	08/11/2022	23/09/2022	Monthly	2000m	0	0	0
Defence PFAS Investigation & Management Program - Investigation Sites	Department of Defence	09/11/2022	09/11/2022	Monthly	2000m	0	0	0
Defence PFAS Investigation & Management Program - Management Sites	Department of Defence	09/11/2022	09/11/2022	Monthly	2000m	0	0	0
Airservices Australia National PFAS Management Program	Airservices Australia	09/11/2022	09/11/2022	Monthly	2000m	0	0	0
Defence 3 Year Regional Contamination Investigation Program	Department of Defence	02/09/2022	02/09/2022	Quarterly	2000m	0	0	0
EPA Other Sites with Contamination Issues	Environment Protection Authority	16/02/2022	13/12/2018	Annually	1000m	0	0	0
Licensed Activities under the POEO Act 1997	Environment Protection Authority	31/10/2022	31/10/2022	Monthly	1000m	0	0	0
Delicensed POEO Activities still regulated by the EPA	Environment Protection Authority	31/10/2022	31/10/2022	Monthly	1000m	1	1	1
Former POEO Licensed Activities now revoked or surrendered	Environment Protection Authority	31/10/2022	31/10/2022	Monthly	1000m	0	0	3
UBD Business Directories (Premise & Intersection Matches)	Hardie Grant			Not required	150m	2	29	43
UBD Business Directories (Road & Area Matches)	Hardie Grant			Not required	150m	-	118	123
UBD Business Directory Dry Cleaners & Motor Garages/Service Stations (Premise & Intersection Matches)	Hardie Grant			Not required	500m	0	0	7
UBD Business Directory Dry Cleaners & Motor Garages/Service Stations (Road & Area Matches)	Hardie Grant			Not required	500m	-	2	11
Points of Interest	NSW Department of Customer Service - Spatial Services	19/10/2022	19/10/2022	Quarterly	1000m	4	5	34
Tanks (Areas)	NSW Department of Customer Service - Spatial Services	19/10/2022	19/10/2022	Quarterly	1000m	0	0	4
Tanks (Points)	NSW Department of Customer Service - Spatial Services	19/10/2022	19/10/2022	Quarterly	1000m	0	0	0
Major Easements	NSW Department of Customer Service - Spatial Services	15/11/2022	15/11/2022	Quarterly	1000m	0	0	7
State Forest	Forestry Corporation of NSW	16/08/2022	14/08/2022	Annually	1000m	0	0	0
NSW National Parks and Wildlife Service Reserves	NSW Office of Environment & Heritage	10/02/2022	31/12/2021	Annually	1000m	0	0	0
Hydrogeology Map of Australia	Commonwealth of Australia (Geoscience Australia)	29/08/2022	19/08/2019	Annually	1000m	1	1	1
Temporary Water Restriction (Botany Sands Groundwater Source) Order 2018	NSW Department of Planning, Industry and Environment	28/03/2022	23/02/2018	Annually	1000m	0	0	0
National Groundwater Information System (NGIS) Boreholes	Bureau of Meteorology; Water NSW	24/01/2022	24/01/2022	Annually	2000m	0	0	15

Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	Dataset Buffer (m)	No. Features On-site	No. Features within 100m	No. Features within Buffer
NSW Seamless Geology Single Layer: Rock Units	Department of Regional NSW	17/02/2022	01/05/2021	Annually	1000m	2	2	5
NSW Seamless Geology – Single Layer: Trendlines	Department of Regional NSW	17/02/2022	01/05/2021	Annually	1000m	0	0	0
NSW Seamless Geology – Single Layer: Geological Boundaries and Faults	Department of Regional NSW	17/02/2022	01/05/2021	Annually	1000m	0	0	0
Naturally Occurring Asbestos Potential	NSW Dept. of Industry, Resources & Energy	04/12/2015	24/09/2015	Unknown	1000m	0	0	0
Atlas of Australian Soils	Australian Bureau of Agriculture and Resource Economics and Sciences (ABARES)	19/05/2017	17/02/2011	As required	1000m	1	1	1
Environmental Planning Instrument Acid Sulfate Soils	NSW Department of Planning, Industry and Environment	09/11/2022	28/10/2022	Monthly	500m	0	-	-
Atlas of Australian Acid Sulfate Soils	CSIRO	19/01/2017	21/02/2013	As required	1000m	1	1	1
Dryland Salinity - National Assessment	National Land and Water Resources Audit	18/07/2014	12/05/2013	None planned	1000m	0	0	0
Mining Subsidence Districts	NSW Department of Customer Service - Subsidence Advisory NSW	09/11/2022	09/11/2022	Quarterly	1000m	0	0	0
Current Mining Titles	NSW Department of Industry	09/11/2022	09/11/2022	Monthly	1000m	0	0	0
Mining Title Applications	NSW Department of Industry	09/11/2022	09/11/2022	Monthly	1000m	0	0	0
Historic Mining Titles	NSW Department of Industry	09/11/2022	09/11/2022	Monthly	1000m	1	1	1
Environmental Planning Instrument SEPP State Significant Precincts	NSW Department of Planning, Industry and Environment	15/11/2021	07/12/2018	Monthly	1000m	0	0	0
Environmental Planning Instrument Land Zoning	NSW Department of Planning, Industry and Environment	15/11/2021	05/11/2021	Monthly	1000m	1	1	9
Commonwealth Heritage List	Australian Government Department of the Agriculture, Water and the Environment	03/06/2022	13/04/2022	Annually	1000m	0	0	0
National Heritage List	Australian Government Department of the Agriculture, Water and the Environment	03/06/2022	13/04/2022	Annually	1000m	1	1	1
State Heritage Register - Curtilages	NSW Department of Planning, Industry and Environment	18/10/2022	01/07/2022	Quarterly	1000m	0	0	2
Environmental Planning Instrument Local Heritage	NSW Department of Planning, Industry and Environment	09/11/2022	28/10/2022	Monthly	1000m	1	4	29
Bush Fire Prone Land	NSW Rural Fire Service	28/11/2022	25/10/2022	Weekly	1000m	0	0	2
Ramsar Wetlands of Australia	Australian Government Department of Agriculture, Water and the Environment	28/03/2022	19/03/2020	Annually	1000m	0	0	0
Groundwater Dependent Ecosystems	Bureau of Meteorology	28/10/2022	26/10/2022	Annually	1000m	0	1	1
Inflow Dependent Ecosystems Likelihood	Bureau of Meteorology	28/10/2022	26/10/2022	Annually	1000m	0	1	1
NSW BioNet Species Sightings	NSW Office of Environment & Heritage	22/11/2022	22/11/2022	Weekly	10000m	-	-	-

Site Diagram

Broken Hill Hospital, 176 Thomas Street, Broken Hill, NSW 2880



Legend

- Site Boundary
- Internal Parcel Boundaries

Total Area: 86172m²

Total Perimeter: 1.3km

Scale: 0 25 50 100 Meters

Data Source Aerial Imagery:
© Aerometrex Pty Ltd

Disclaimers:

Measurements are approximate only and may have been simplified or smaller lengths removed for readability.

Parcels that make up a small percentage of the total site area have not been labelled for increased legibility.

Coordinate System:
GDA 1994 MGA Zone 56

Date: 29 November 2022

Contaminated Land

Broken Hill Hospital, 176 Thomas Street, Broken Hill, NSW 2880

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	Direction
N/A	No records in buffer								

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.
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

Broken Hill Hospital, 176 Thomas Street, Broken Hill, NSW 2880

Contaminated Land: Records of Notice

Record of Notices within the dataset buffer:

Map Id	Name	Address	Suburb	Notices	Area No	Location Confidence	Distance	Direction
N/A	No records in buffer							

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

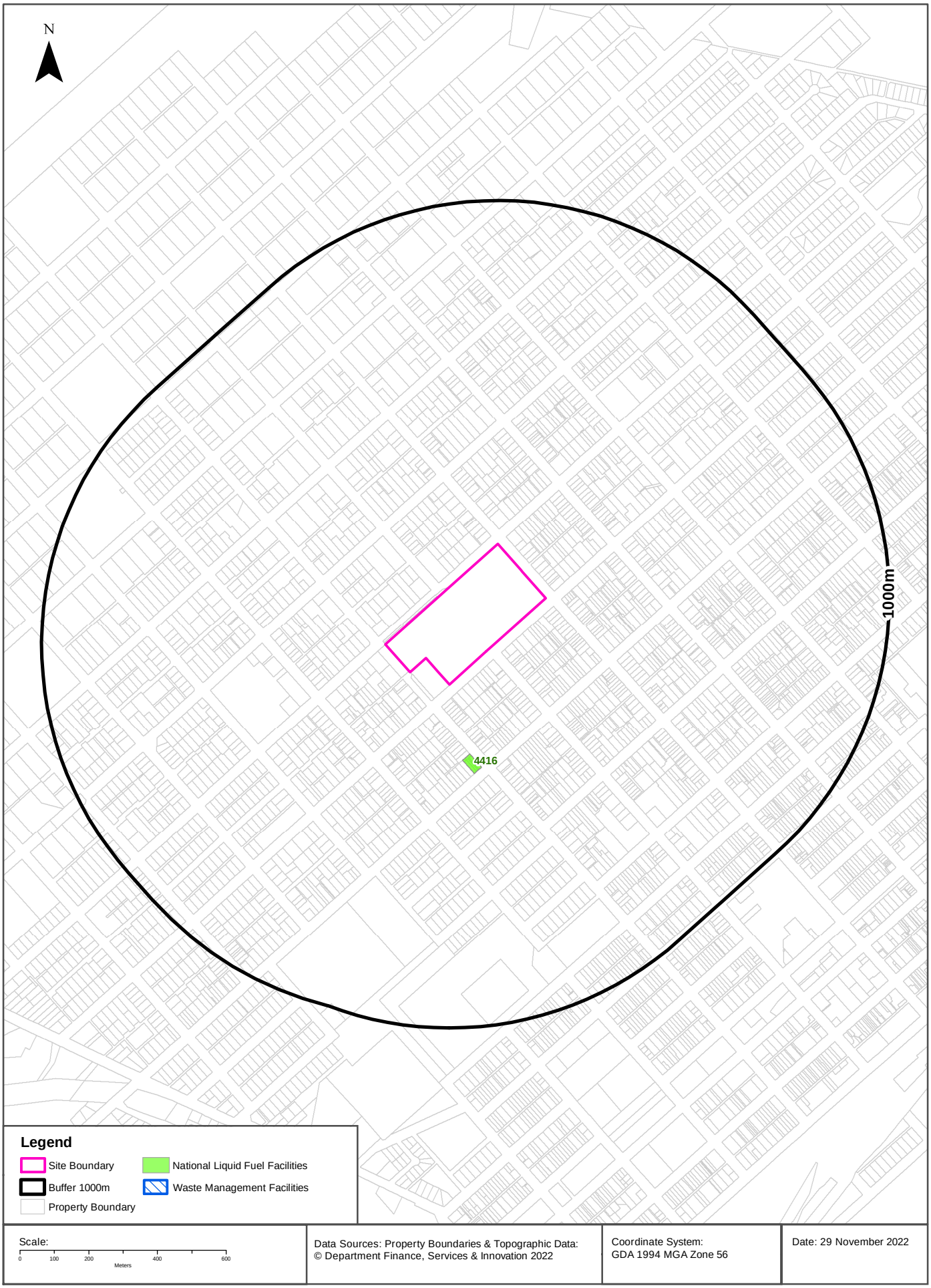
Former Gasworks within the dataset buffer:

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

Waste Management & Liquid Fuel Facilities

Broken Hill Hospital, 176 Thomas Street, Broken Hill, NSW 2880



Waste Management & Liquid Fuel Facilities

Broken Hill Hospital, 176 Thomas Street, Broken Hill, NSW 2880

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	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

National Liquid Fuel Facilities

National Liquid Fuel Facilties within the dataset buffer:

Map Id	Owner	Name	Address	Suburb	Class	Operational Status	Operator	Revision Date	Loc Conf	Dist	Direction
4416	Shell	Coles Express Broken Hill	162-166 Williams Street	Broken Hill	Petrol Station	Operational		25/07/2011	Premise Match	211m	South

National Liquid Fuel Facilities Data Source: Geoscience Australia
Creative Commons 3.0 © Commonwealth of Australia http://creativecommons.org/licenses/by/3.0/au/deed.en

PFAS Investigation & Management Programs

Broken Hill Hospital, 176 Thomas Street, Broken Hill, NSW 2880

EPA PFAS Investigation Program

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

Map ID	Site	Address	Loc Conf	Dist	Dir
N/A	No records in buffer				

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

Defence PFAS Investigation Program

Sites being investigated by the Department of Defence for PFAS contamination within the dataset buffer:

Map ID	Base Name	Address	Loc Conf	Dist	Dir
N/A	No records in buffer				

Defence PFAS Investigation Program Data Custodian: Department of Defence, Australian Government

Defence PFAS Management Program

Sites being managed by the Department of Defence for PFAS contamination within the dataset buffer:

Map ID	Base Name	Address	Loc Conf	Dist	Dir
N/A	No records in buffer				

Defence PFAS Management Program Data Custodian: Department of Defence, Australian Government

Airservices Australia National PFAS Management Program

Sites being investigated or managed by Airservices Australia for PFAS contamination within the dataset buffer:

Map ID	Site Name	Impacts	Loc Conf	Dist	Dir
N/A	No records in buffer				

Airservices Australia National PFAS Management Program Data Custodian: Airservices Australia

Defence Sites

Broken Hill Hospital, 176 Thomas Street, Broken Hill, NSW 2880

Defence 3 Year Regional Contamination Investigation Program

Sites which have been assessed as part of the Defence 3 Year Regional Contamination Investigation Program within the dataset buffer:

Property ID	Base Name	Address	Known Contamination	Loc Conf	Dist	Dir
N/A	No records in buffer					

Defence 3 Year Regional Contamination Investigation Program, Data Custodian: Department of Defence, Australian Government

EPA Other Sites with Contamination Issues

Broken Hill Hospital, 176 Thomas Street, Broken Hill, NSW 2880

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
- Pasminco Lead Abatement Strategy Area

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

EPA Activities

Broken Hill Hospital, 176 Thomas Street, Broken Hill, NSW 2880

Licensed Activities under the POEO Act 1997

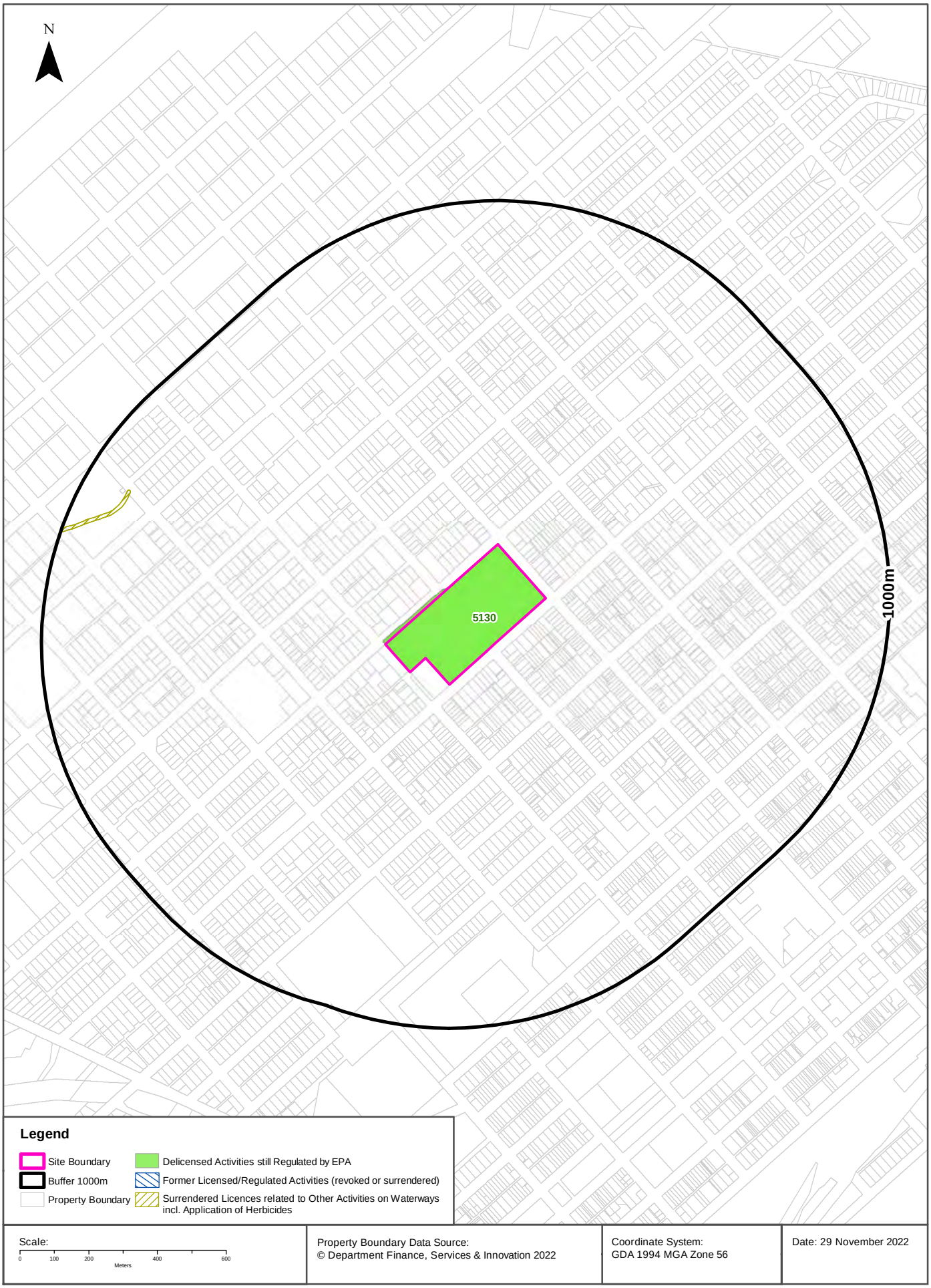
Licensed activities under the Protection of the Environment Operations Act 1997, within the dataset buffer:

EPL	Organisation	Name	Address	Suburb	Activity	Loc Conf	Distance	Direction
N/A	No records in buffer							

POEO Licence Data Source: Environment Protection Authority
© State of New South Wales through the Environment Protection Authority

Delicensed & Former Licensed EPA Activities

Broken Hill Hospital, 176 Thomas Street, Broken Hill, NSW 2880



EPA Activities

Broken Hill Hospital, 176 Thomas Street, Broken Hill, NSW 2880

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
5130	GREATER WESTERN AREA HEALTH SERVICE	BROKEN HILL BASE HOSPITAL	THOMAS STREET	BROKEN HILL	Hazardous, Industrial or Group A Waste Generation or Storage	Premise Match	0m	On-site

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

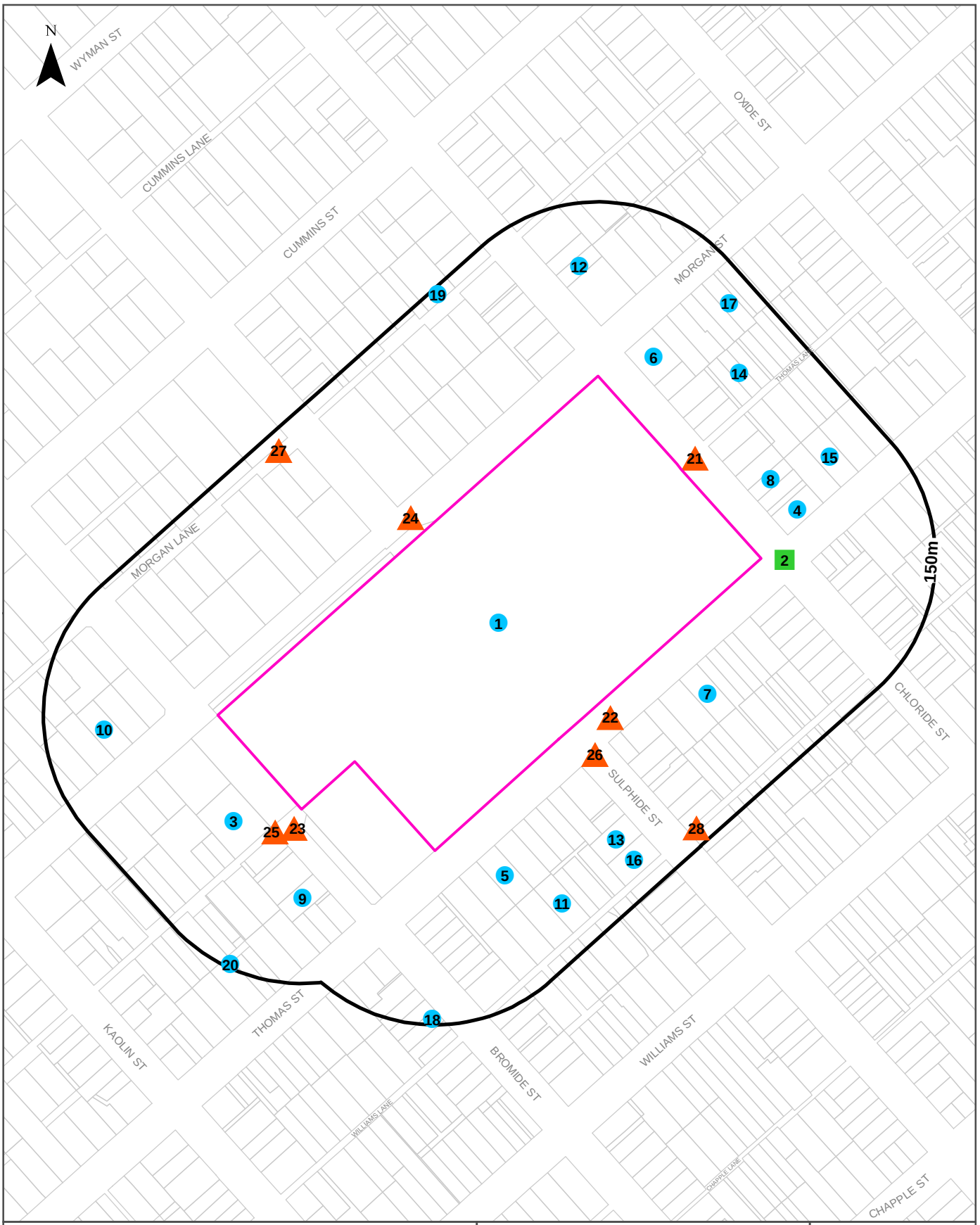
Former Licensed activities under the Protection of the Environment Operations Act 1997, now revoked or surrendered, within the dataset buffer:

Licence No	Organisation	Location	Status	Issued Date	Activity	Loc Conf	Distance	Direction
4653	LUHRMANN ENVIRONMENT MANAGEMENT PTY LTD	WATERWAYS THROUGHOUT NSW	Surrendered	06/09/2000	Other Activities / Non Scheduled Activity - Application of Herbicides	Network of Features	862m	West
4838	Robert Orchard	Various Waterways throughout New South Wales - SYDNEY NSW 2000	Surrendered	07/09/2000	Other Activities / Non Scheduled Activity - Application of Herbicides	Network of Features	862m	West
6630	SYDNEY WEED & PEST MANAGEMENT PTY LTD	WATERWAYS THROUGHOUT NSW - PROSPECT, NSW, 2148	Surrendered	09/11/2000	Other Activities / Non Scheduled Activity - Application of Herbicides	Network of Features	862m	West

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

Historical Business Directories

Broken Hill Hospital, 176 Thomas Street, Broken Hill, NSW 2880



Legend

- Site Boundary
- Buffer 150m
- Property Boundary
- Business directory records mapped to a specific premise
- Business directory records mapped to a road intersection
- Business directory records mapped to a road corridor
- Business directory records mapped to a general area

Scale: 0 60 120 180 240 Meters

Coordinate System: GDA 1994 MGA Zone 56

Date: 29 November 2022

Data Sources: Reproduced with permission of UBD and Hardie Grant Media Pty Ltd DD 01/08/2018
Property Boundaries © NSW Department Finance, Services & Innovation 2022

Historical Business Directories

Broken Hill Hospital, 176 Thomas Street, Broken Hill, NSW 2880

Business Directory Records 1950-1991
Premise or Road Intersection Matches

Universal Business Directory records from years 1991, 1970, 1961 & 1950, mapped to a premise or road intersection within the dataset buffer:

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
1	HOSPITALS &/OR NURSING HOMES.	Broken Hill & District Hospital, 174 Thomas St. Broken Hill (N.S.W.)	168772	1991	Premise Match	0m	On-site
	HOSPITALS, NURSING HOMES, Etc.	Broken Hill & District Hospital, 170 Thomas St. Broken Hill 2880	601158	1970	Premise Match	0m	On-site
2	GROCERS & GENERAL STOREKEEPERS	Reed, W. R. (Bill), Cnr. Chloride & Thomas Sts., Broken Hill	191374	1961	Road Intersection	21m	East
	DEEP FROZEN FOODS-RETAIL	Reed, W. R. (Bill), Cnr. Chloride and Thomas Sts., Broken Hill	191044	1961	Road Intersection	21m	East
	MILK BARS & CONFECTIONERY SHOPS	Reed, W. R., Cnr, Chloride & Thomas Sts., Broken Hill	191832	1961	Road Intersection	21m	East
	FRUITERERS & GREENGROCERS	Reed, W. R., Cnr. Chloride & Thomas Sts., Broken Hill	191271	1961	Road Intersection	21m	East
	GIFT SHOPS & FANCY GOODS	Reed, W. R., Cnr. Chloride & Thomas Sts., Broken Hill	191295	1961	Road Intersection	21m	East
	DRAPERS	Reed, W. R., Cnr. Chloride and Thomas Sts., Broken Hill	191105	1961	Road Intersection	21m	East
3	LAUNDRIES SELF SERVICE &/OR LAUNDRETTES.	Broken Hill Laundry, 337 Bromide St, Broken Hill (N.S.W.)	168863	1991	Premise Match	30m	South West
	LAUNDRIES	Broken Hill Laundry Pty. Ltd., 337 Bromide St. Broken Hill 2880	601260	1970	Premise Match	30m	South West
4	BOOK EXCHANGES.	Book Exchange, 320 Chloride St. Broken Hill (N.S.W.)	168263	1991	Premise Match	31m	East
	DELICATESSENS.	W Book Exchange, 320 Chlonde St. Broken Hill (N.S.W.)	168500	1991	Premise Match	31m	East
	JUSTICES OF THE PEACE	Dell, T. F. K., 320 Chloride St., Broken Hill	191637	1961	Premise Match	31m	East
	MIXED BUSINESSES	Boyce, H. R., 320 Chloride St. Broken Hill	152570	1950	Premise Match	31m	East
	MIXED BUSINESSES	Reid, W. R., 320 Chloride St. Broken Hill	152617	1950	Premise Match	31m	East
5	MARINE DEALERS	Clark, H. F., 169 Thomas St., Broken Hill	191797	1961	Premise Match	31m	South
	MARINE DEALERS	Clark, H. F., 169 Thomas St. Broken Hill	152428	1950	Premise Match	31m	South
6	DOCTORS	Hiller, G. and O., 319 Morgan St., Broken Hill	191083	1961	Premise Match	31m	North East
7	DOCTORS	Schlink, F. & Roberts, I. C., 239 Thomas St., Broken Hill	366570	1961	Premise Match	31m	East
8	ELECTRICAL CONTRACTORS & ELECTRICIANS	Smith, Dale, 326 Chloride St., Broken Hill	191163	1961	Premise Match	31m	North East
9	HOT WATER INSTALLATIONS & MAINTENANCE	Stokes Bros., 323 Bromide St., Broken Hill	191480	1961	Premise Match	57m	South West
10	ELECTRICAL CONTRACTORS.	Sevan. B. W, 146 Morgan St.. Broken Hill (N.S.W.)	168554	1991	Premise Match	77m	West
11	JUSTICES OF THE PEACE	Barnwell, H. D., 174 William Lane, Broken Hill	191607	1961	Premise Match	81m	South
12	MUSIC TEACHERS	Tweddell, Muriel, 344 Chloride St. Broken Hill	152726	1950	Premise Match	81m	North
13	JUSTICES OF THE PEACE	Owens, Mrs. L. M., 299 Sulphide St., Broken Hill	191714	1961	Premise Match	86m	South East
14	SHEARING CONTRACTORS & SHEARERS	Flavel, C. H., 324 Thomas Lane Broken Hill 2880	601622	1970	Premise Match	87m	North East

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
14	SHEARING CONTRACTORS	Flavel, C. H., 324 Thomas Lane, Broken Hill	192213	1961	Premise Match	87m	North East
	SHEARING CONTRACTORS	Flavel, C. H., 324 Thomas Lane., Broken Hill	154050	1950	Premise Match	87m	North East
15	JUSTICES OF THE PEACE	Pearce, H. C., 324 Thomas St., Broken Hill	191717	1961	Premise Match	92m	North East
16	MIXED BUSINESSES	King, E. M., 295 Sulphide St., Broken Hill	191870	1961	Premise Match	108m	South East
	MIXED BUSINESSES	King, E. M., 295 Sulphide St. Broken Hill	152603	1950	Premise Match	108m	South East
17	MOTOR GARAGES & SERVICE STATIONS.	R.J.O. Automotive & General Engineering, 331 Morgan St.. Broken Hill (N.S.W.)	169007	1991	Premise Match	119m	North East
	MOTOR ENGINE RECONDITIONING	Datson, M. G., 331 Morgan St. Broken Hill 2880	601379	1970	Premise Match	119m	North East
	ENGINEERS-GENERAL, MECHANICAL & MANUFACTURING	Datsun, M. G., 331 Morgan St. Broken Hill 2880	600961	1970	Premise Match	119m	North East
	MOTOR ACCESSORIES & SPARE PARTS-RETAIL	Datson, M, G., 331 Morgan St., Broken Hill	191911	1961	Premise Match	119m	North East
	ENGINEERS-AUTOMOTIVE	Datson, M. G., 331 Morgan St., Broken Hill	191180	1961	Premise Match	119m	North East
	ENGINEERS-GENERAL, MECHANICAL & MFRG.	Datson, M. G., 331 Morgan St., Broken Hill	191199	1961	Premise Match	119m	North East
	MOTOR ENGINEERS-AUTOMOTIVE	Datson, M. G., 331 Morgan St., Broken Hill	191964	1961	Premise Match	119m	North East
18	JUSTICES OF THE PEACE	Harris, G. D., 293 Bromide St., Broken Hill	191652	1961	Premise Match	137m	South
	JUSTICES OF THE PEACE	Hooper, R. J., 293 Bromide St., Broken Hill	191657	1961	Premise Match	137m	South
19	TANK-SINKING CONTRACTORS	Clowser, A., 242 Morgan Lane Broken Hill	154109	1950	Premise Match	139m	North
20	BRICKLAYERS.	Tormena. C, 142 Thomas St.. Broken Hill (N.S.W.)	168280	1991	Premise Match	142m	South West
	BUILDERS &/OR BUILDING CONTRACTORS.	Tormena. C, 142 Thomas St.. Broken Hill (N.S.W.)	168294	1991	Premise Match	142m	South West

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Business Directory Records 1950-1991
Road or Area Matches

Universal Business Directory records from years 1991, 1970, 1961 & 1950, 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:

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
21	GIFT SHOPS.	Before You Go, 13 Chloride St.. Broken Hill (N.S.W.)	168634	1991	Road Match	0m
	MUSICAL INSTRUMENT &/OR SHEET MUSIC DEALERS.	Broken HHI Music, 3 Chloride St. Broken Hill (N.S.W.)	169049	1991	Road Match	0m
	CLUBS &/OR SPORTING BODIES.	Broken Hill Club, 1 Chloride St.. Broken Hill (N.S.W.)	168431	1991	Road Match	0m
	CLUBS &/OR SPORTING BODIES.	Broken Hill R.S.L Club Ltd. The, 2 Chloride St.. Broken Hill (N.S.W.)	168437	1991	Road Match	0m
	BARRISTERS.	Fitzpatrick Switt, 5 Chloride St. Broken Hill (N.S.W.)	168247	1991	Road Match	0m
	GOVERNMENT DEPARTMENTS	Telecom Australia, Chloride St, Broken Hill (N.S.W.)	168686	1991	Road Match	0m
	MEDICAL PRACTITIONERS,	Verrall, C, 5 Chloride St.. Broken Hill (N.S.W.)	168899	1991	Road Match	0m
	AIR SERVICE OPERATORS	Ansett A.N.A. Pty. Ltd., 3 Chloride St. Broken Hill 2880	600549	1970	Road Match	0m
	ASSOCIATIONS, SOCIETIES, CLUBS & SPORTING BODIES	Broken Hill Aquatic Club, 1 Chloride St. Broken Hill 2880	600570	1970	Road Match	0m
	ASSOCIATIONS, SOCIETIES, CLUBS & SPORTING BODIES	Broken Hill Club, Chloride St. Broken Hill 2880	600572	1970	Road Match	0m
	GOVERNMENT DEPARTMENTS	Forestry Commission of N.S.W., Chloride St. Broken Hill 2880	601059	1970	Road Match	0m
	ASSOCIATIONS, SOCIETIES, CLUBS & SPORTING BODIES	Greyhound Racing Club, 2 Chloride St. Broken Hill 2880	600594	1970	Road Match	0m
	SOLICITORS	Hudson, E. R., 5 Chloride St. Broken Hill 2880	601643	1970	Road Match	0m
	MOTOR BUS TOURS	Ansett Pioneer, Grand Hotel Bldg., Chloride St., Broken Hill	191939	1961	Road Match	0m
	TOURS-LOCAL	Ansett Pioneer, Grand Hotel Bldg., Chloride St., Broken Hill	192312	1961	Road Match	0m
	AIR SERVICES BOOKING AGENTS	Ansett/ANA., Chloride St., Broken Hill	267337	1961	Road Match	0m
	AIR & TOURIST SERVICE AGENTS	Ansett-A.N.A., Grand Hotel Bldg., Chloride St., Broken Hill	190606	1961	Road Match	0m
	AIR SERVICES	Ansett-A.N.A., Grand Hotel Bldg., Chloride St., Broken Hill	190615	1961	Road Match	0m
	CLUBS & SPORTING BODIES	Broken Hill Club, Chloride St., Broken Hill	190976	1961	Road Match	0m
	AIR & TOURIST SERVICE AGENTS	Butler Air Transport, Grand Hotel Bldg., Chloride St., Broken Hill	190607	1961	Road Match	0m
	AIR SERVICES	Butler Air Transport, Grand Hotel Bldg., Chloride St., Broken Hill	190616	1961	Road Match	0m
	CAFES, TEA ROOMS & COFFEE LOUNGES, ETC.	Coronet Coffee Lounge, 6 Chloride St., Broken Hill	190870	1961	Road Match	0m
	COFFEE LOUNGES	Coronet Coffee Lounge, 6 Chloride St., Broken Hill	191004	1961	Road Match	0m
	CARRIERS & CARTAGE CONTRACTORS	Meatheringham, G., Chloride St., Broken Hill	190905	1961	Road Match	0m
	ASSOCIATIONS & SOCIETIES	Returned Servicemen's Club, Chloride St., Broken Hill	190661	1961	Road Match	0m
	ELECTRICAL APPLIANCES & SUPPLIES-RETAIL	Rose, J. A., 2 Chloride St., Broken Hill	191146	1961	Road Match	0m
	ELECTRICAL APPLIANCES & SUPPLIES-WHOLESALE	Rose, J. A., 2 Chloride St., Broken Hill	191152	1961	Road Match	0m
	ENGINEERS-GENERAL, MECHANICAL & MFRG.	Rose, J. A., 2 Chloride St., Broken Hill	191202	1961	Road Match	0m

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
21	REFRIGERATOR MERCHANTS-WHOLESALE	Rose, J. A., 2 Chloride St., Broken Hill	192183	1961	Road Match	0m
	WASHING MACHINE SALES & SERVICE	Rose, J. A., 2 Chloride St., Broken Hill	192366	1961	Road Match	0m
	DRY CLEANERS, DYERS & PRESSERS	Valetta Dry Cleaners, 6 Chloride St., Broken Hill	191122	1961	Road Match	0m
	FLOUR MILLERS	Adelaide Milling Co. Ltd., Chloride St. Broken Hill	152110	1950	Road Match	0m
	STOCK & STATION AGENTS	Bennett and Fisher Ltd., Chloride St. Broken Hill	154088	1950	Road Match	0m
	WOOLBROKERS	Bennett and Fisher Ltd., Chloride St. Broken Hill	154233	1950	Road Match	0m
	REFRIGERATOR DEALERS & SERVICEMEN	Brown, Reg, 2 Chloride St. Broken Hill	154018	1950	Road Match	0m
	ENGINEERS-REFRIGERATION	Brown, Reg, Chloride St. Broken Hill	152086	1950	Road Match	0m
	TAXI PROPRIETORS	Cook, C., Grand Taxi Stand, Chloride St. Broken Hill	154119	1950	Road Match	0m
	TAXI PROPRIETORS	Cook, Wm., Grand Taxi Stand, Chloride St. Broken Hill	154120	1950	Road Match	0m
	TAXI PROPRIETORS	Dannatt H., Grand Taxi Stand, Chloride St. Broken Hill	154121	1950	Road Match	0m
	GOVERNMENT DEPARTMENTS	Dept. of Mines, Chloride St. Broken Hill	152177	1950	Road Match	0m
	MERCHANTS-GENERAL	Elder, Smith and Co. Ltd., Chloride St. Broken Hill	152464	1950	Road Match	0m
	WOOL, SKIN & HIDE MERCHANTS	Elder, Smith and Co. Ltd., Chloride St. Broken Hill	154231	1950	Road Match	0m
	GROCERS-WHOLESALE	Fowler, D. and J. Ltd., Chloride St. Broken Hill	152247	1950	Road Match	0m
	MEDICAL PRACTITIONERS	Hammond, H. G., Chloride St. Broken Hill	152431	1950	Road Match	0m
	PHYSIOTHERAPISTS	House, Wally, Chloride St. Broken Hill	153953	1950	Road Match	0m
	MILK VENDORS & DAIRIES	Johns, A. H., Chloride St. Broken Hill	152505	1950	Road Match	0m
	TAXI PROPRIETORS	Pressler, E., Grand Taxi Stand, Chloride St. Broken Hill	154134	1950	Road Match	0m
	MILK VENDORS & DAIRIES	Reed, W., Chloride St. Broken Hill	152524	1950	Road Match	0m
	MEDICAL PRACTITIONERS	Richards, C., Chloride St. Broken Hill	152435	1950	Road Match	0m
	ENGINEERS-GENERAL, MECHANICAL & MANUFACTURING	Rose, J. A. Chloride St. Broken Hill	152081	1950	Road Match	0m
	MILK VENDORS & DAIRIES	Rouse, W. H., Chloride St. Broken Hill	152533	1950	Road Match	0m
	PLUMBERS	Waite, J., Chloride St. Broken Hill	153971	1950	Road Match	0m
	MACHINERY MERCHANTS	White and Hosier, Chloride St. Broken Hill	152417	1950	Road Match	0m
	MINING MACHINERY & SUPPLIES	White and Hosier, Chloride St. Broken Hill	152557	1950	Road Match	0m
	GROCERS & GENERAL STOREKEEPERS	Yondell, H., Chloride St. Broken Hill	152244	1950	Road Match	0m
	MILK VENDORS & DAIRIES	Yondell, H., Chloride St. Broken Hill	152549	1950	Road Match	0m
22	DENTISTS.	Broken Hill Town Dental Clinic, Thomas St, Broken Hill (N.S.W.)	168503	1991	Road Match	0m
	HOMES &/OR INSTITUTIONS	Broken Hill War Veterans Home, Thomas St.. Broken Hill (N.S.W.)	168760	1991	Road Match	0m
	HOMES & INSTITUTIONS	Broken Hill War Veteran's Home, Thomas St. Broken Hill 2880	601155	1970	Road Match	0m
	MOTOR GARAGES, ENGINEERS & SERVICE STATIONS	Ford's, J. Commercial Service Station, Thomas St. Broken Hill 2880	601401	1970	Road Match	0m
	HOTELS	Excelsior Hotel, Thomas St., West Broken Hill	191490	1961	Road Match	0m
	CHURCHES	Methodist Churches, Thomas St., Broken Hill	366480	1961	Road Match	0m

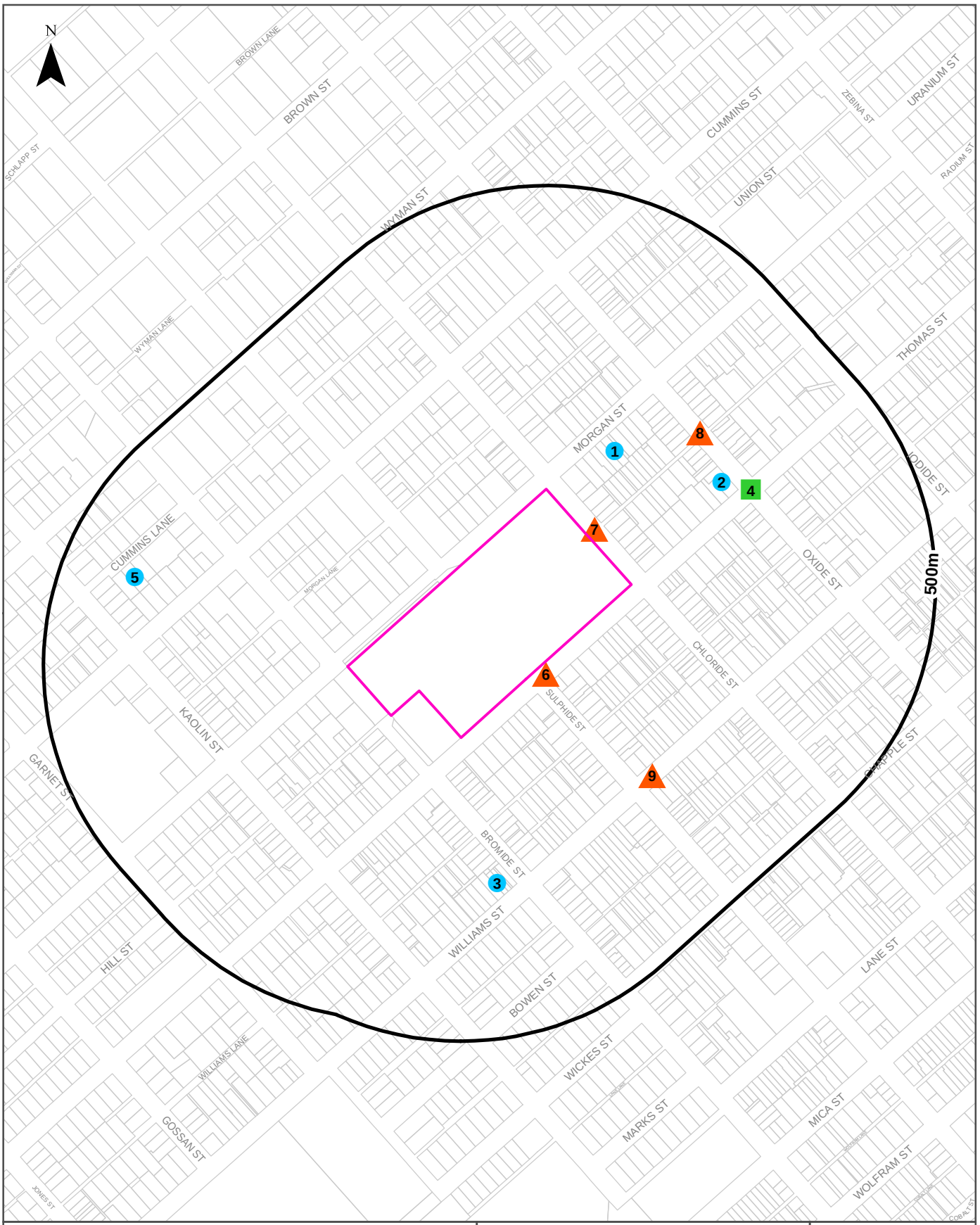
Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
22	DAIRIES & DAIRYMEN	Power, L. V., Thomas St., Broken Hill	191026	1961	Road Match	0m
	DOCTORS	Roberts, Thomas St., Broken Hill	191086	1961	Road Match	0m
	HOTELS	Excelsior Hotel, Thomas St., West Broken Hill	152334	1950	Road Match	0m
	MILK VENDORS & DAIRIES	Ritchie, W., Thomas St. Broken Hill	152529	1950	Road Match	0m
	MIXED BUSINESSES	Wlele, F. H. and E., 140 Thomas St., Broken Hill	152638	1950	Road Match	0m
23	HEALTH CENTRES &/OR CLINICS.	Medical Bureau, 84 Bromide St.. Broken Hill (N.S.W.)	168747	1991	Road Match	0m
	HAULAGE CONTRACTORS	Pyriak, H., Bromide St., Broken Hill	191459	1961	Road Match	0m
	MILK VENDORS & DAIRIES	Drysade, E. D., Bromide St. Broken Hill	152486	1950	Road Match	0m
	PAINTERS, DECORATORS & PAPERHANGERS	Nash, Bob, Bromide St. Broken Hill	153941	1950	Road Match	0m
	SIGNWRITERS	Nash, Bob, Bromide St. Broken Hill	154062	1950	Road Match	0m
	MILK VENDORS & DAIRIES	Roberts, W., Bromide St. Broken Hill	152531	1950	Road Match	0m
	PLUMBERS	Stokes Bros., Bromide St. Broken Hill	153970	1950	Road Match	0m
	MILK VENDORS & DAIRIES	Thomas, I., Bromide St, Broken Hill	152545	1950	Road Match	0m
	HAIRDRESSERS & TOBACCONISTS	Williams, J. H., Bromide St. Broken Hill	152275	1950	Road Match	0m
24	SCHOOLS &/OR COLLEGES-PRIVATE &/OR PUBLIC	Morgan Street Primary School, Morgan St.. Broken Hill (N.S.W.)	169154	1991	Road Match	0m
	SCHOOLS, COLLEGES, ETC.	Morgan Street Infants School, Morgan St., Broken Hill	192205	1961	Road Match	0m
	MILK VENDORS & DAIRIES	Dreyer, B., Morgan St. Broken Hill	152485	1950	Road Match	0m
25	MILK VENDORS & DAIRIES	Reid, E. F., Thomas Lane Broken Hill	152525	1950	Road Match	30m
26	GOVERNMENT DEPARTMENTS.	Agriculture. Dept. of, Sulphide St.. Broken Hill (N.S.W.)	168656	1991	Road Match	31m
	HEALTH CENTRES &/OR CLINICS.	Central Baby Health Centre, Sulphide St., Broken Hill (N.S.W.)	168745	1991	Road Match	31m
	LOCAL BODIES.	City Council Administrative Centre, Sulphide St. Broken Hill (N.S.W.)	168877	1991	Road Match	31m
	SWIMMING POOLS.	City Pool, Sulphide St., Broken Hill (N.S.W.)	169205	1991	Road Match	31m
	GOVERNMENT DEPARTMENTS.	Corrective Services. Dept. of, Sulphide St.. Broken Hill (N.S.W.)	168666	1991	Road Match	31m
	GOVERNMENT DEPARTMENTS.	Education. Dept. of, Sulphide St.. Broken Hill (N.S.W.)	168668	1991	Road Match	31m
	LOCAL BODIES.	Electricity Dept, Sulphide St, Broken Hill (N.S.W.)	168880	1991	Road Match	31m
	LOCAL BODIES.	Engineers, Dept. of, Sulphide St. Broken Hill (N.S.W.)	168881	1991	Road Match	31m
	LOCAL BODIES.	Far Western Region Advisory Council, Sulphide St, Broken Hill (N.S.W.)	168882	1991	Road Match	31m
	LOCAL BODIES.	Health. Dept. of, Sulphide St, Broken Hill (N.S.W.)	168884	1991	Road Match	31m
	GOVERNMENT DEPARTMENTS.	Housing Commission of NSW, Sulphide St.. Broken Hill (N.S.W.)	168670	1991	Road Match	31m
	GOVERNMENT DEPARTMENTS.	Industrial Development & Decentrilisation, Dept. of. Sulphide St., Broken Hill (N.S.W.)	168671	1991	Road Match	31m
	GOVERNMENT DEPARTMENTS.	Mineral Resources, Dept. of, Sulphide St.. Broken Hill (N.S.W.)	168673	1991	Road Match	31m
	GOVERNMENT DEPARTMENTS.	N S W. Youth & Community Services. Dept. of, Sulphide St.. Broken Hill (N.S.W.)	168675	1991	Road Match	31m
	GOVERNMENT DEPARTMENTS.	National Parks & Wildlife Service, Sulphide St.. Broken Hill (N.S.W.)	168676	1991	Road Match	31m
	GOVERNMENT DEPARTMENTS.	Public Trust Office. Courthouse, Sulphide St., Broken Hill (N.S.W.)	168681	1991	Road Match	31m
	GOVERNMENT DEPARTMENTS.	Public Works. Dept. of, Sulphide St.. Broken Hill (N.S.W.)	168682	1991	Road Match	31m

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
26	GOVERNMENT DEPARTMENTS.	Soil Conservation Service of N.S.W, Sulphide St.. Broken Hill (N.S.W.)	168684	1991	Road Match	31m
	GOVERNMENT DEPARTMENTS	State Emergency Services Administration Centre, Sulphide St., Broken Hill (N.S.W.)	168685	1991	Road Match	31m
	GOVERNMENT DEPARTMENTS	Tourism, Dept. of, Sulphide St.. Broken Hill (N.S.W.)	168687	1991	Road Match	31m
	GOVERNMENT DEPARTMENTS	Western Lands Commission, Sulphide St Broken Hill (N.S.W.)	168688	1991	Road Match	31m
	NEWSPAPERS, JOURNALS, ETC.	Barrier Miner, Sulphide St., Broken Hill	192068	1961	Road Match	31m
	PRINTERS & PUBLISHERS	Barrier Miner, Sulphide St., Broken Hill	192153	1961	Road Match	31m
	HEALTH CENTRES	Baby Clinics: Sulphide St., Broken Hill	152309	1950	Road Match	31m
	NEWSPAPERS	Barrier Miner, Sulphide St. Broken Hill	153924	1950	Road Match	31m
	PRINTERS & BOOKBINDERS	Barrier Miner, Sulphide St. Broken Hill	153978	1950	Road Match	31m
	OFFICE SUPPLIES	Chartres Ltd., Sulphide St. Broken Hill	153926	1950	Road Match	31m
	TYPEWRITER DEALERS & REPAIRERS	Chartres Ltd., Sulphide St. Broken Hill	154204	1950	Road Match	31m
	SEWING MACHINE SALES & SERVICE	DobbiesSewing Machines, Sulphide St. Broken Hill	154046	1950	Road Match	31m
	MILK VENDORS & DAIRIES	Gardener, T. J., Sulphide St Broken Hill	152493	1950	Road Match	31m
	DRESSMAKERS	Hill, D. M., Sulphide St. Broken Hill	152012	1950	Road Match	31m
	MILK VENDORS & DAIRIES	King, E. M., Sulphide St. Broken Hill	152508	1950	Road Match	31m
	GROCERS & GENERAL STOREKEEPERS	Krantz's Big Grocery Store, Sulphide St. Broken Hill	152216	1950	Road Match	31m
	HARDWARE MERCHANTS	Krantz's Store, Sulphide St. Broken Hill	152292	1950	Road Match	31m
	LEATHER GOODS	Krantz's Store, Sulphide St. Broken Hill	152400	1950	Road Match	31m
	TRAVEL GOODS-RETAIL	Krantz's Store, Sulphide St. Broken Hill	154191	1950	Road Match	31m
	WINE & SPIRIT MERCHANTS	Krantz's Store, Sulphide St. Broken Hill	154226	1950	Road Match	31m
	HOTELS	Masonic Hotel, Opp. Sulphide St. Station Broken Hill	152344	1950	Road Match	31m
27	HOSTELS.	Aboriginal Girts Hostel, 102 Morgan La., Broken Hill (N.S.W.)	168774	1991	Road Match	126m
	BUTCHERS	Conroy, P. K. Pty. Ltd., Morgan Lane Broken Hill	366413	1961	Road Match	126m
	SMALLGOODS MANUFACTURERS	Conroy, P. K. Pty. Ltd., Morgan Lane, Broken Hill	366467	1961	Road Match	126m
	FUEL MERCHANTS	Wilson, L., 100 Morgan Lane Broken Hill	152145	1950	Road Match	126m
28	JUSTICES OF THE PEACE	Hulbert, A., 162 William Lane, Broken Hill	191661	1961	Road Match	132m

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Dry Cleaners, Motor Garages & Service Stations

Broken Hill Hospital, 176 Thomas Street, Broken Hill, NSW 2880



Legend

- Site Boundary
- Buffer 500m
- Property Boundary
- Business directory records mapped to a specific premise
- Business directory records mapped to a road intersection
- Business directory records mapped to a road corridor
- Business directory records mapped to a general area

Scale: 0 120 240 360 480 Meters

Coordinate System: GDA 1994 MGA Zone 56

Date: 29 November 2022

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Property Boundaries © NSW Department Finance, Services & Innovation 2022

Historical Business Directories

Broken Hill Hospital, 176 Thomas Street, Broken Hill, NSW 2880

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.

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
1	MOTOR GARAGES & SERVICE STATIONS.	R.J.O. Automotive & General Engineering, 331 Morgan St.. Broken Hill (N.S.W.)	169007	1991	Premise Match	119m	North East
2	MOTOR GARAGES & SERVICE STATIONS.	Kees Hille Motors, 342 Thomas St. Broken Hill (N.S.W.)	169004	1991	Premise Match	205m	North East
3	MOTOR GARAGES & SERVICE STATIONS.	Shell Memorial Service Station, 164 William St.. Broken Hill (N.S.W.)	169010	1991	Premise Match	225m	South
	MOTOR GARAGES, ENGINEERS & SERVICE STATIONS	Nelson's Service Station, 164 William St., Broken Hill	191983	1961	Premise Match	225m	South
	MOTOR GARAGES & ENGINEERS	Gear's Service Station, 164 William St. Broken Hill	152693	1950	Premise Match	225m	South
4	MOTOR GARAGES, ENGINEERS & SERVICE STATIONS	Ford's, John, Commercial Service Station, Thomas St., Cnr. Oxide St., Broken Hill	191975	1961	Road Intersection	251m	North East
5	MOTOR GARAGES, ENGINEERS & SERVICE STATIONS	Quinn Motors, 111 Cummins La. Broken Hill 2880	601413	1970	Premise Match	353m	West

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

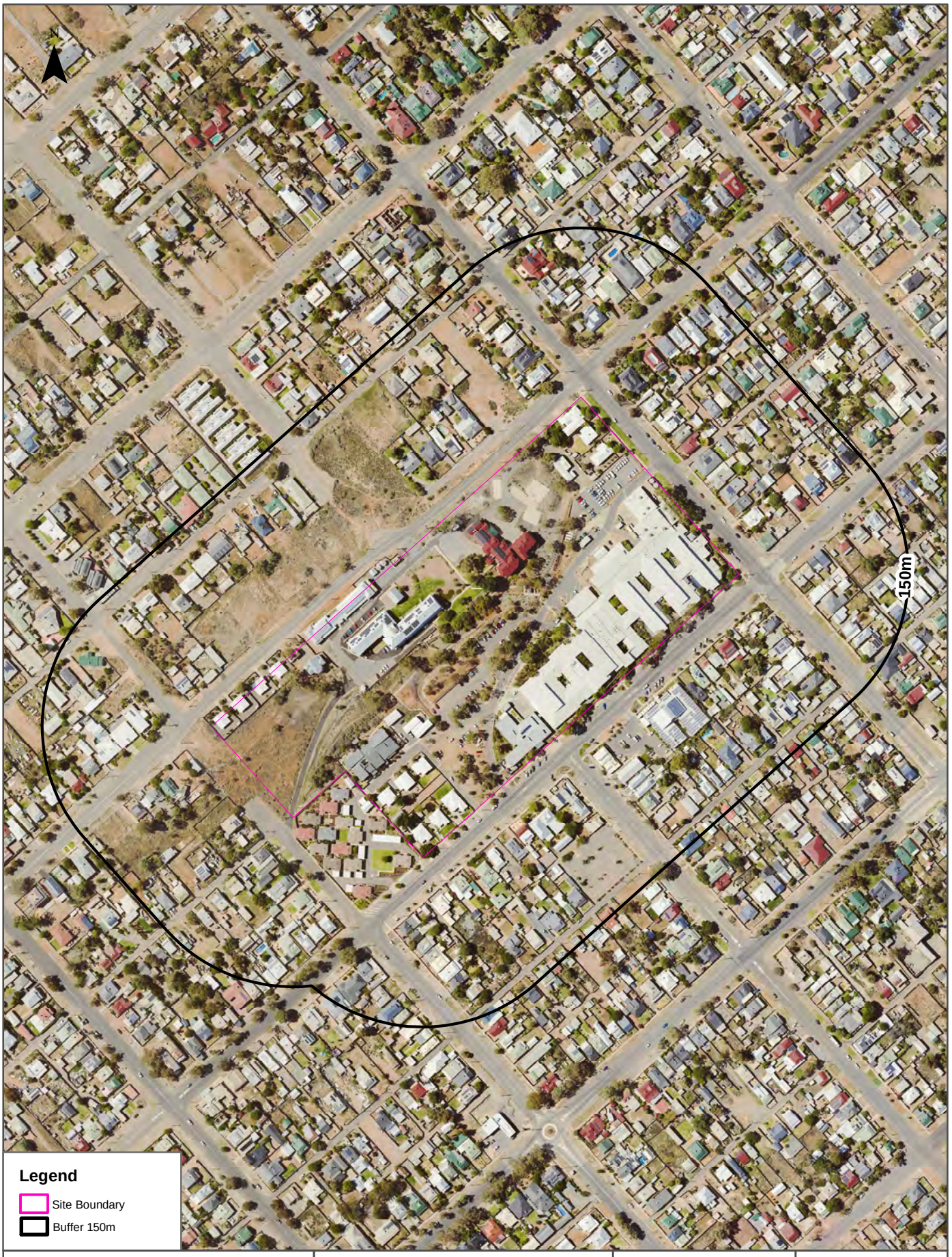
Dry Cleaners, Motor Garages & Service Stations from UBD Business Directories, mapped to a road or an area, within the dataset buffer. Records are mapped to the road when a building number is not supplied, cannot be found, or the road has been renumbered since the directory was published.

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
6	MOTOR GARAGES, ENGINEERS & SERVICE STATIONS	Ford's, J. Commercial Service Station, Thomas St. Broken Hill 2880	601401	1970	Road Match	0m
7	DRY CLEANERS, DYERS & PRESSERS	Valetta Dry Cleaners, 6 Chloride St., Broken Hill	191122	1961	Road Match	0m
8	DRY CLEANERS, DYERS & PRESSERS	Bally's Dry Cleaners, Main Office and Works: Oxide St., Broken Hill	366572	1961	Road Match	236m
	MOTOR GARAGES, ENGINEERS & SERVICE STATIONS	Chalmers' Service Station, Oxide St., Broken Hill	191971	1961	Road Match	236m
	DRY CLEANERS, DYERS & PRESSERS	Modern Dyers and Dry Cleaners, 239 Oxide St., Broken Hill	366573	1961	Road Match	236m
	DRY CLEANERS & DYERS	Broken Hill Dry Cleaners (J. Angell, Propr.), 109 Oxide St. Broken Hill	152036	1950	Road Match	236m
	MOTOR GARAGES & ENGINEERS	Co-op. Service Station, Oxide St. Broken Hill	152691	1950	Road Match	236m
	MOTOR GARAGES & ENGINEERS	Picken's Garage, Oxide St. Broken Hill	152702	1950	Road Match	236m
	DRY CLEANERS & DYERS	Valetta Dry Cleaners, 22 Oxide St. Broken Hill	152041	1950	Road Match	236m
	MOTOR GARAGES & ENGINEERS	Welsh's Service Station, Oxide St. Broken Hill	152706	1950	Road Match	236m
9	MOTOR GARAGES, ENGINEERS & SERVICE STATIONS	Memorial Service Station, William St. Broken Hill 2880	601411	1970	Road Match	241m

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Aerial Imagery 2021

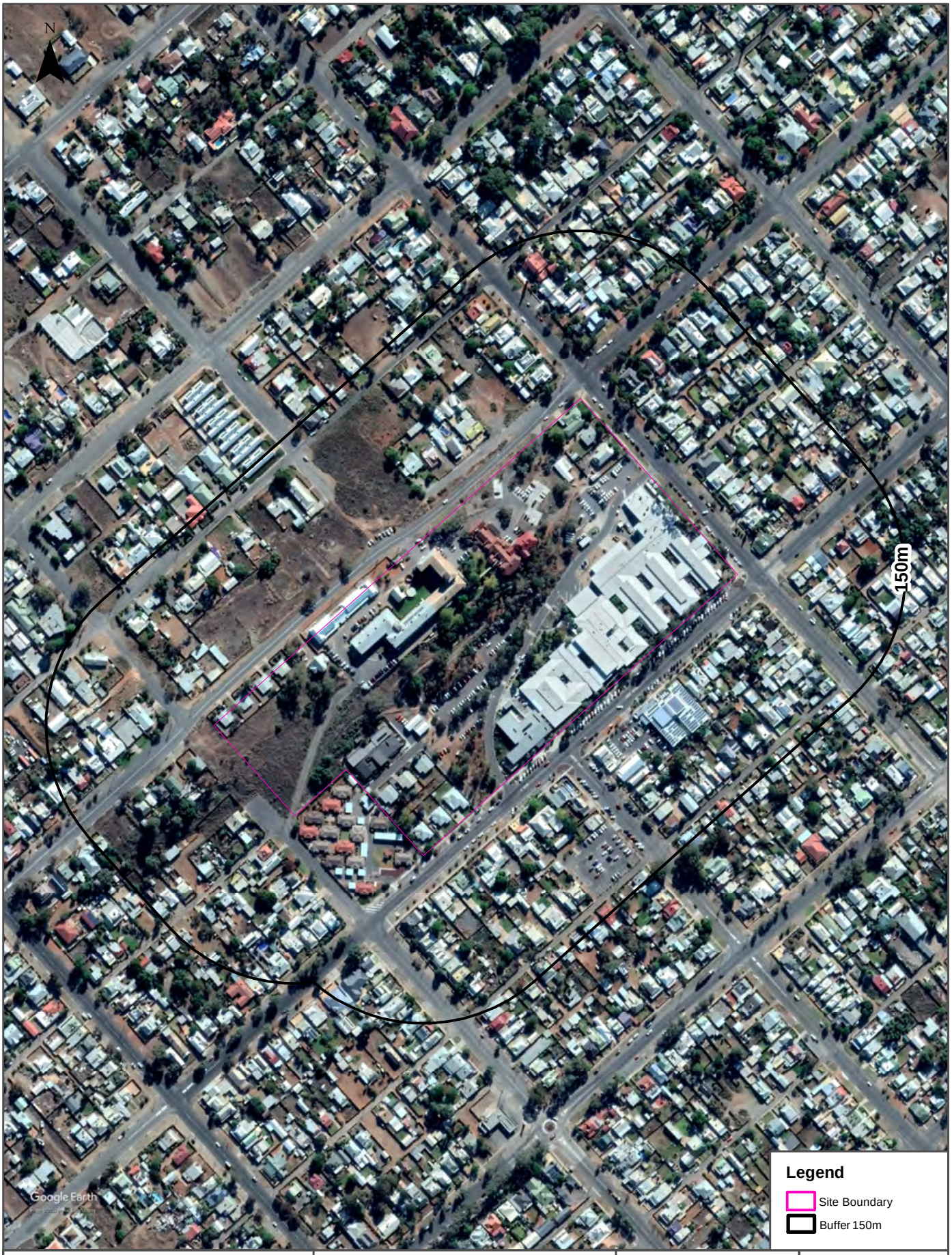
Broken Hill Hospital, 176 Thomas Street, Broken Hill, NSW 2880



Scale: 0 50 100 150 200 Meters	Data Source Aerial Imagery: © Aerometrex Pty Ltd	Coordinate System: GDA 1994 MGA Zone 56	Date: 29 November 2022

Aerial Imagery 2017

Broken Hill Hospital, 176 Thomas Street, Broken Hill, NSW 2880



Scale: 0 50 100 150 200 Meters	Data Source Aerial Imagery: © 2022 Google Inc, used with permission. Google and the Google logo are registered trademarks of Google Inc.	Coordinate System: GDA 1994 MGA Zone 56	Date: 28 November 2022

Aerial Imagery 2010

Broken Hill Hospital, 176 Thomas Street, Broken Hill, NSW 2880



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Aerial Imagery 2004

Broken Hill Hospital, 176 Thomas Street, Broken Hill, NSW 2880



Scale:
0 50 100 150 200
Meters

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Coordinate System:
GDA 1994 MGA Zone 56

Date: 29 November 2022

Aerial Imagery 1995

Broken Hill Hospital, 176 Thomas Street, Broken Hill, NSW 2880



Aerial Imagery 1981

Broken Hill Hospital, 176 Thomas Street, Broken Hill, NSW 2880



Aerial Imagery 1975

Broken Hill Hospital, 176 Thomas Street, Broken Hill, NSW 2880



Aerial Imagery 1965

Broken Hill Hospital, 176 Thomas Street, Broken Hill, NSW 2880



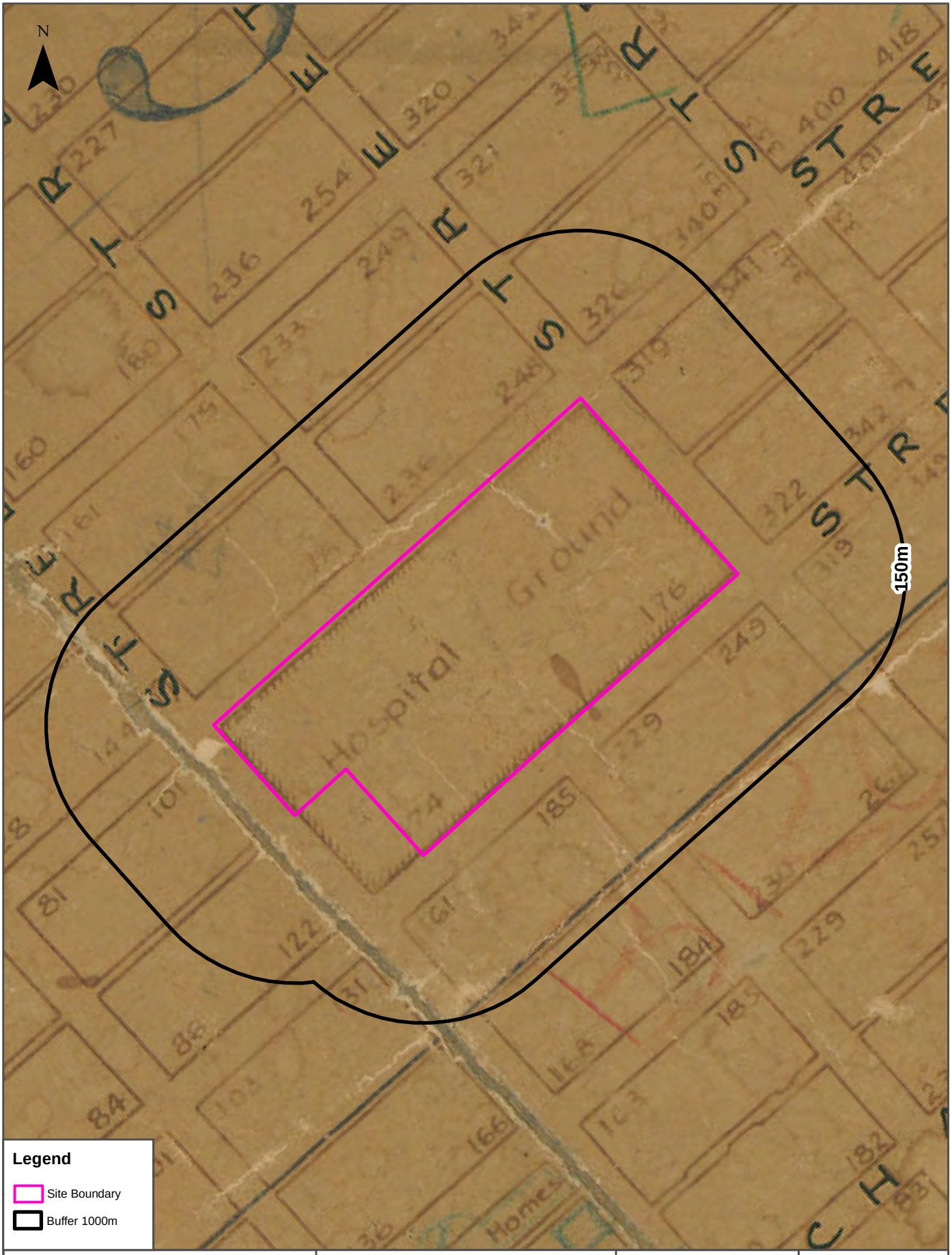
Aerial Imagery 1954

Broken Hill Hospital, 176 Thomas Street, Broken Hill, NSW 2880



Historical Map Year Unknown

Broken Hill Hospital, 176 Thomas Street, Broken Hill, NSW 2880



Topographic Map 2015

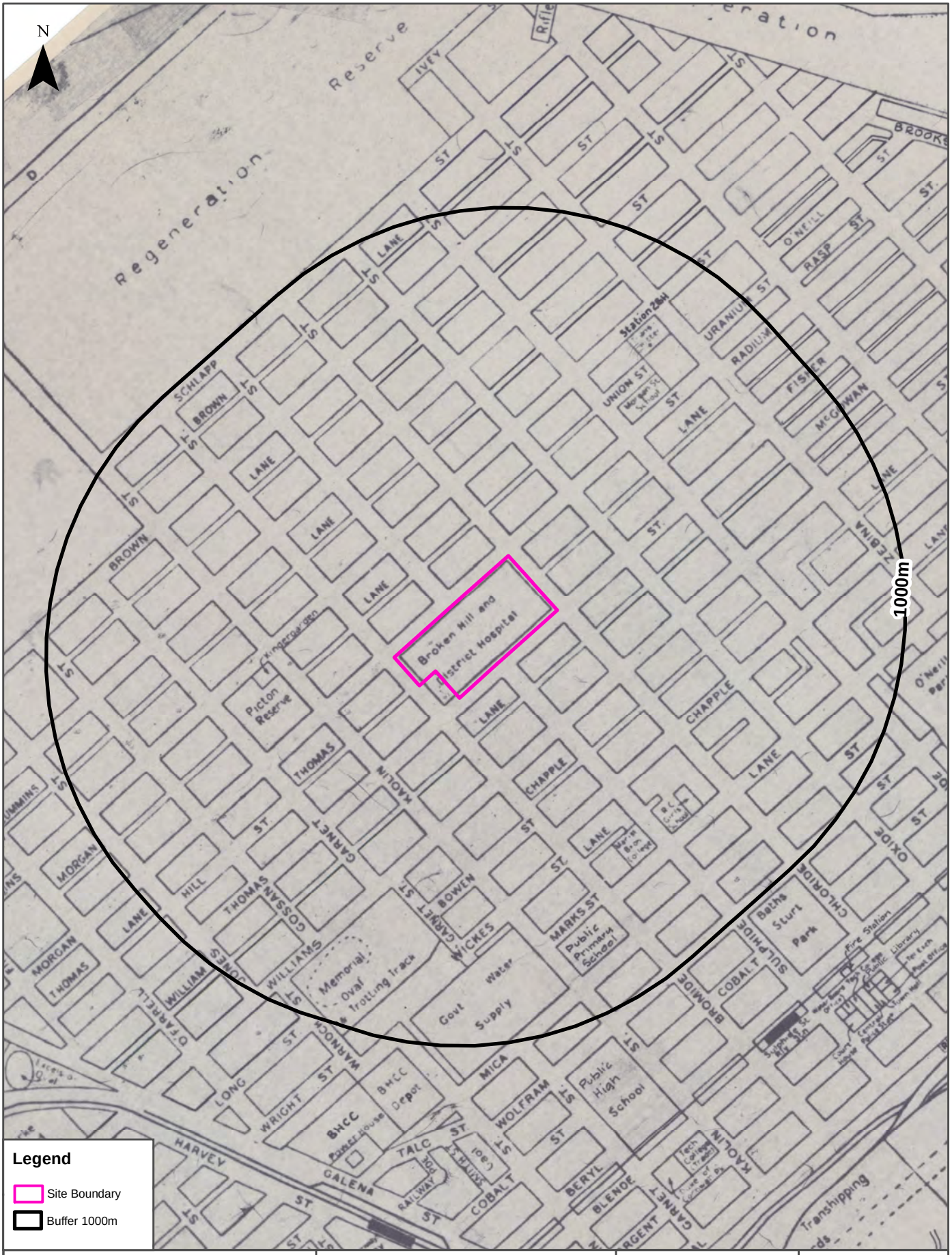
Broken Hill Hospital, 176 Thomas Street, Broken Hill, NSW 2880



Scale: 0 175 350 525 700 Meters	Data Sources: Topographic Map Data © NSW Land and Property Information	Coordinate System: GDA 1994 MGA Zone 56	Date: 29 November 2022

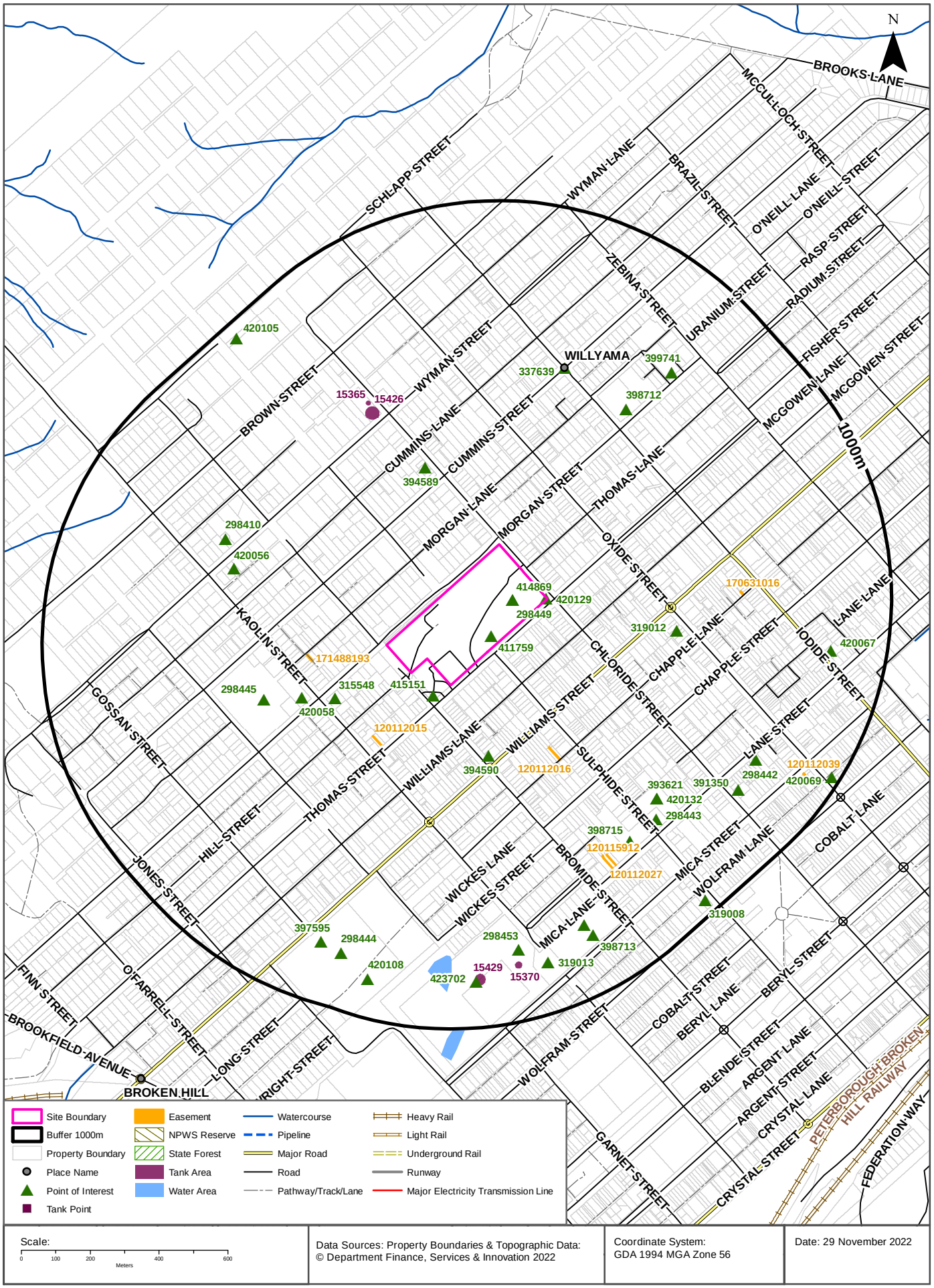
Historical Map 1960

Broken Hill Hospital, 176 Thomas Street, Broken Hill, NSW 2880



Topographic Features

Broken Hill Hospital, 176 Thomas Street, Broken Hill, NSW 2880



Site Boundary | Buffer 1000m | Property Boundary | Place Name | Point of Interest | Tank Point

Easement | NPWS Reserve | State Forest | Tank Area | Water Area

Watercourse | Pipeline | Major Road | Road | Pathway/Track/Lane

Heavy Rail | Light Rail | Underground Rail | Runway | Major Electricity Transmission Line

Scale: 0 100 200 400 600 Meters

Data Sources: Property Boundaries & Topographic Data: © Department Finance, Services & Innovation 2022

Coordinate System: GDA 1994 MGA Zone 56

Date: 29 November 2022

Topographic Features

Broken Hill Hospital, 176 Thomas Street, Broken Hill, NSW 2880

Points of Interest

What Points of Interest exist within the dataset buffer?

Map Id	Feature Type	Label	Distance	Direction
411759	Community Medical Centre	BROKEN HILL COMMUNITY HEALTH	0m	On-site
414869	Nursing Home	BROKEN HILL TRANSITIONAL AGED CARE SERVICE	0m	On-site
420129	Monument	SISTER DRUMMOND MEMORIAL PARK	0m	On-site
298449	General Hospital	BROKEN HILL HOSPITAL	0m	On-site
415151	Retirement Village	WAR VETS RETIREMENT LIVING	58m	South West
315548	Art Gallery	ROXANNE MINCHIN GALLERY	214m	South West
394590	Art Gallery	HORIZON ART GALLERY	232m	South
420058	Picnic Area	PLAYGROUND	289m	South West
394589	Art Gallery	HOMESTEAD GALLERY	310m	North
319012	Place Of Worship	UNITING CHURCH	386m	East
298445	Picnic Area	PICTON SPORTSGROUND	390m	West
420056	Tourist Attraction	PRO HART SCULPTURE PARK	495m	West
398712	Primary School	MORGAN STREET PUBLIC SCHOOL	540m	North East
337639	Rural Place	WILLYAMA	547m	North
298410	Art Gallery	PRO HART ART GALLERY	560m	West
393621	Place Of Worship	ST JOSEPHS CONVENT CHAPEL & SITE FORMER	646m	South East
420132	Historic Site	ST JOSEPHS CONVENT CHAPEL AND SITE	646m	South East
398715	Primary School	SACRED HEART PARISH SCHOOL	687m	South East
298443	Place Of Worship	SACRED HEART CATHOLIC CATHEDRAL	689m	South East
399741	Primary School	MORGAN STREET PUBLIC SCHOOL	709m	North East
298442	Place Of Worship	ANGLICAN CHURCH	766m	South East
391350	Gaol	BROKEN HILL JUVENILE JUSTICE CENTRE	786m	South East
298453	Filtration Plant	MICA STREET WATER TREATMENT PLANT	794m	South
415105	Preschool	BROKEN HILL PUBLIC SCHOOL PRESCHOOL	798m	South
397595	Trotting Track	MEMORIAL OVAL PACEWAY	824m	South West
398713	Primary School	BROKEN HILL PUBLIC SCHOOL	835m	South
420067	Community Facility	3RD BROKEN HILL SCOUT HALL	837m	East
298444	Park	MEMORIAL OVAL	839m	South
319013	Lookout	J P KEENAN LOOKOUT	854m	South
423702	Filtration Plant	BROKEN HILL WATER TREATMENT PLANT	865m	South
420108	Monument	BROKEN HILL WAR MEMORIAL	887m	South

Map Id	Feature Type	Label	Distance	Direction
420105	Park	WHITE ROCKS HISTORICAL SITE	955m	North West
319008	Place Of Worship	SALVATION ARMY CHURCH	959m	South East
420069	Community Facility	BROKEN HILL SCOUT HALL	976m	South East

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Topographic Features

Broken Hill Hospital, 176 Thomas Street, Broken Hill, NSW 2880

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
15426	Water	Operational		01/01/2008	509m	North West
15365	Water	Operational		23/02/2000	553m	North West
15370	Water	Operational		23/02/2000	828m	South
15429	Water	Operational		12/04/2005	844m	South

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
N/A	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
120112015	Primary	Undefined		213m	South West
171488193	Primary	Right of way		217m	West
120112016	Primary	Undefined		325m	South East
170631016	Primary	Right of way		560m	East
120115912	Primary	Undefined		663m	South East
120112027	Primary	Undefined		669m	South East
120112039	Primary	Undefined		900m	South East

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

Broken Hill Hospital, 176 Thomas Street, Broken Hill, NSW 2880

State Forest

What State Forest exist within the dataset buffer?

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

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National Parks and Wildlife Service Reserves

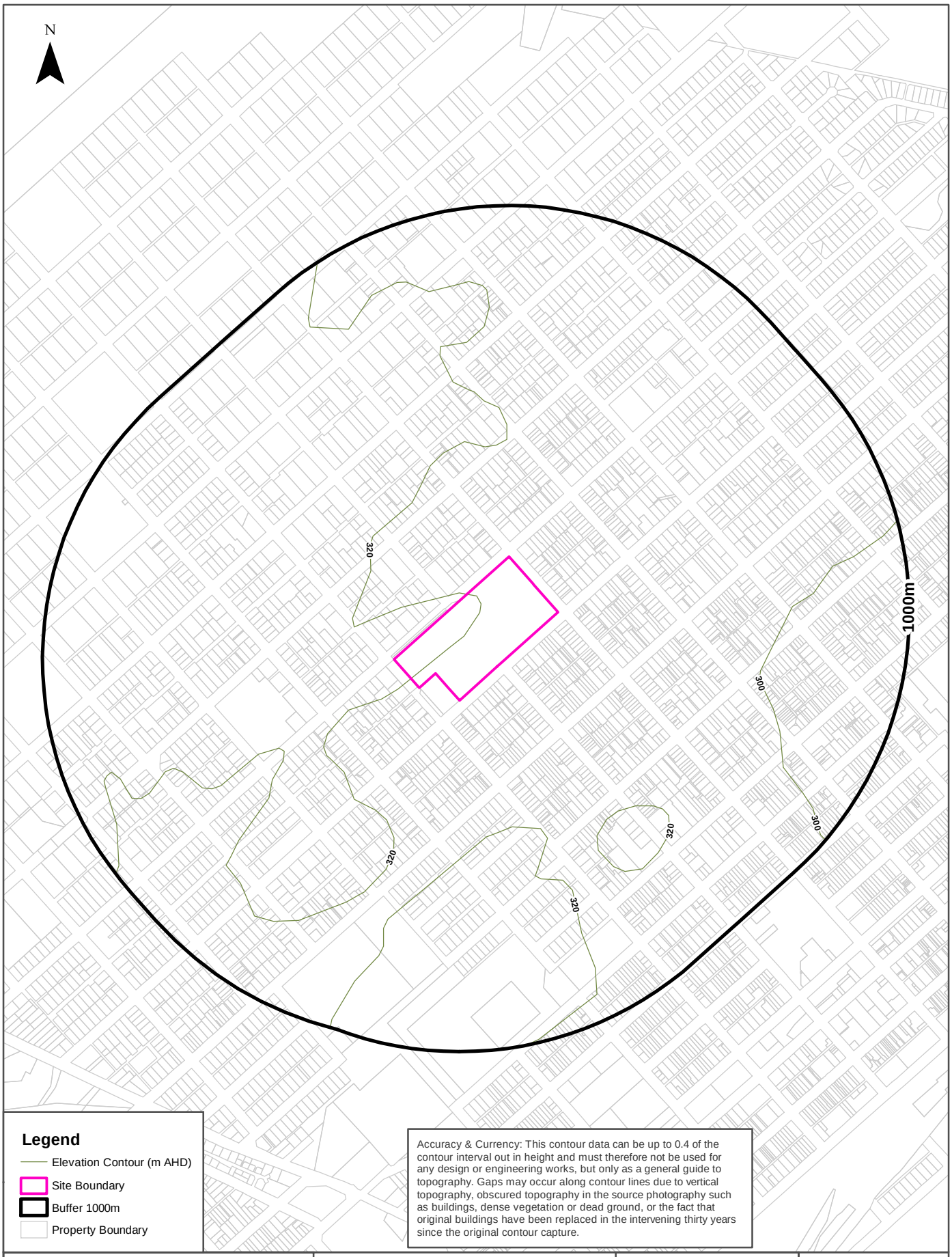
What NPWS Reserves exist within the dataset buffer?

Reserve Number	Reserve Type	Reserve Name	Gazetted Date	Distance	Direction
N/A	No records in buffer				

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Elevation Contours (m AHD)

Broken Hill Hospital, 176 Thomas Street, Broken Hill, NSW 2880



Hydrogeology & Groundwater

Broken Hill Hospital, 176 Thomas Street, Broken Hill, NSW 2880

Hydrogeology

Description of aquifers within the dataset buffer:

Description	Distance	Direction
Local aquifers, of generally low productivity	0m	On-site

Hydrogeology Map of Australia : Commonwealth of Australia (Geoscience Australia)
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Temporary Water Restriction (Botany Sands Groundwater Source) Order 2018

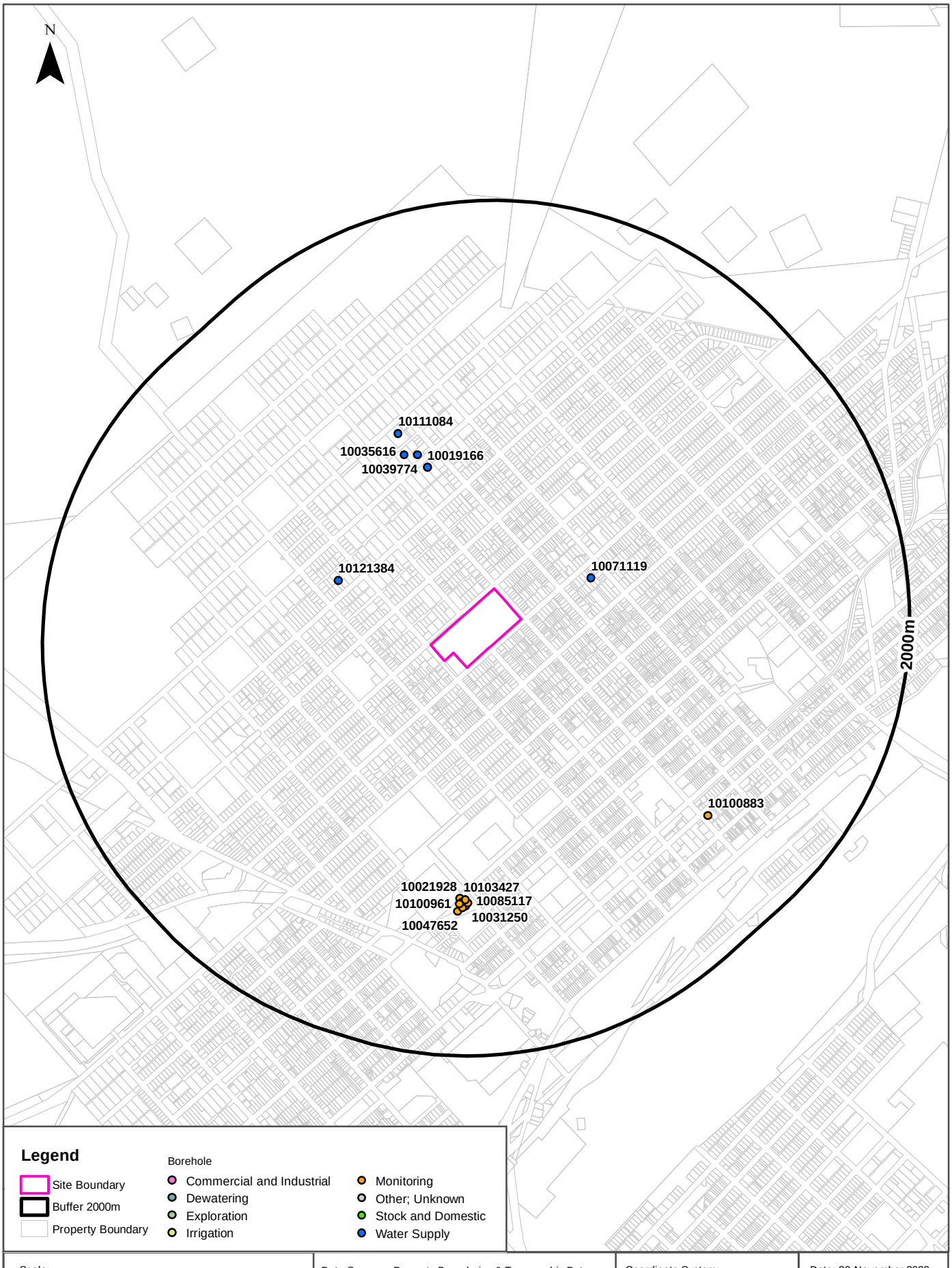
Temporary water restrictions relating to the Botany Sands aquifer within the dataset buffer:

Prohibition Area No.	Prohibition	Distance	Direction
N/A	No records in buffer		

Temporary Water Restriction (Botany Sands Groundwater Source) Order 2018 Data Source : NSW Department of Primary Industries

Groundwater Boreholes

Broken Hill Hospital, 176 Thomas Street, Broken Hill, NSW 2880



Hydrogeology & Groundwater

Broken Hill Hospital, 176 Thomas Street, Broken Hill, NSW 2880

Groundwater Boreholes

Boreholes within the dataset buffer:

NGIS Bore ID	NSW Bore ID	Bore Type	Status	Drill Date	Bore Depth (m)	Reference Elevation	Height Datum	Salinity (mg/L)	Yield (L/s)	SWL (mbgl)	Distance	Direction
10071119	GW600132	Water Supply	Functional	06/07/2006	17.50		AHD		0.015	9.00	417m	North East
10121384	GW600171	Water Supply	Functioning	05/05/2009	30.00		AHD	5814	1.250	15.70	579m	West
10019166	GW803404	Water Supply	Functioning	06/10/2007	31.00		AHD	Good	0.150	22.00	710m	North
10039774	GW600160	Water Supply	Functioning	12/01/2009	30.00		AHD			16.80	792m	North
10035616	GW600162	Water Supply	Functioning	12/01/2009	54.00		AHD			14.00	829m	North West
10111084	GW600163	Water Supply	Functioning	12/01/2009	30.00		AHD				938m	North
10021928	GW600301	Monitoring	Functional	13/07/2011	20.40		AHD			10.95	1191m	South
10103427	GW600304	Monitoring	Functional	13/07/2011	16.00		AHD			7.10	1196m	South
10053889	GW600303	Monitoring	Functional	11/07/2011	12.00		AHD			6.46	1211m	South
10085117	GW600307	Monitoring	Functional	05/07/2011	18.90		AHD				1214m	South
10100961	GW600302	Monitoring	Functional	10/07/2011	20.54		AHD			6.60	1220m	South
10031250	GW600306	Monitoring	Functional	07/07/2011	23.20		AHD			3.62	1227m	South
10062401	GW600305	Monitoring	Functional	08/07/2011	16.00		AHD			3.85	1236m	South
10047652	GW600308	Monitoring	Functional	13/07/2011	12.80		AHD			8.45	1258m	South
10100883	GW500071	Monitoring	Unknown	26/06/1995	7.50		AHD				1398m	South East

Borehole Data Source: Bureau of Meteorology; Water NSW. Creative Commons 3.0 © Commonwealth of Australia http://creativecommons.org/licenses/by/3.0/au/deed.en

Hydrogeology & Groundwater

Broken Hill Hospital, 176 Thomas Street, Broken Hill, NSW 2880

Driller's Logs

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

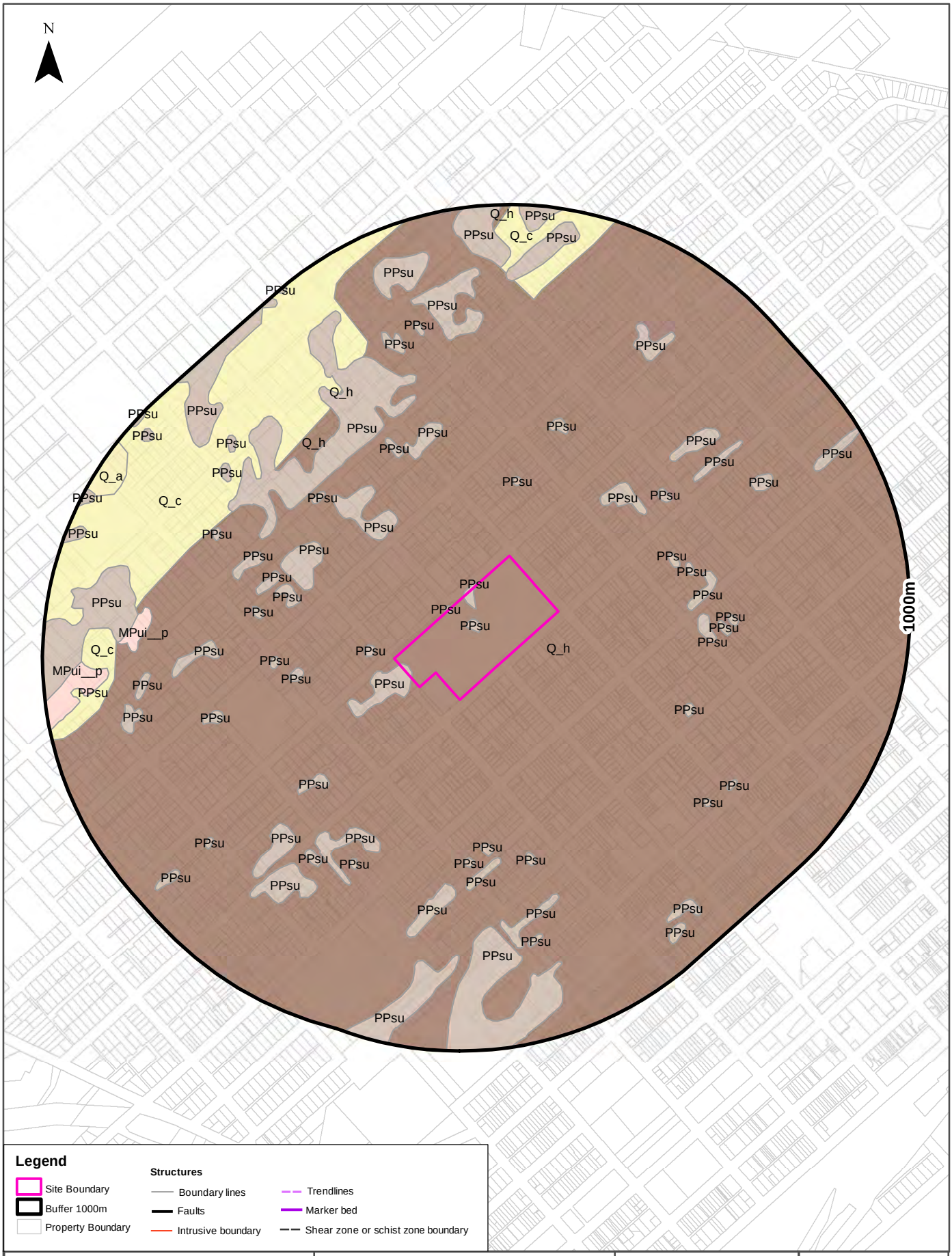
NGIS Bore ID	Drillers Log	Distance	Direction
10071119	0.00m-2.00m Red Clay 2.00m-4.00m Blue Gravelly Slate 4.00m-6.00m Blue Slate 6.00m-9.00m Yellow Clay 9.00m-10.00m Yellow Sand 10.00m-14.00m Blue Shaley Clay 14.00m-14.30m Blue Stone 14.30m-15.50m Brown Conglomerate 15.50m-17.50m Bluestone sump	417m	North East
10121384	0.00m-0.40m Soil Red fg loose 0.40m-26.50m Quartzite light brown fg hard 26.50m-30.00m Quartzite/Pegmatite light brown fg fractured	579m	West
10019166	0.00m-0.50m Clay, red 0.50m-2.00m Granite & Quartz 2.00m-6.00m Decomposed Granite 6.00m-8.00m Granite & basalt 8.00m-10.00m Limestone 10.00m-24.00m Basalt 24.00m-25.50m Basalt, fine white Sand mix (water bearing) 25.50m-31.00m Basalt	710m	North
10039774	0.00m-6.00m Top soil 6.00m-8.00m Mica 8.00m-18.00m Basalt 18.00m-19.00m Basalt, traces of quartz 19.00m-24.00m Basalt, traces of Garnite Mica 24.00m-30.00m Broken Basalt, water bearing	792m	North
10035616	0.00m-1.00m Top soil and fill 1.00m-6.00m Basalt, Mica and Gypsum 6.00m-23.00m Basalt 23.00m-26.00m Broken Basalt 26.00m-54.00m Basalt	829m	North West
10111084	0.00m-1.80m Top Soil 1.80m-16.00m Basalt 16.00m-24.00m Basalt, broken ground 24.00m-30.00m Basalt	938m	North
10021928	0.00m-0.20m Fill 0.20m-20.40m Amphibolite/Granite	1191m	South
10103427	0.00m-0.50m Fill 0.50m-16.00m Amphibolite/Granite	1196m	South
10053889	0.00m-0.05m Asphalt 0.05m-0.40m Fill 0.40m-12.00m Amphibolite/Granite	1211m	South
10085117	0.00m-0.20m Clayey Sand 0.20m-18.90m Amphibolite/Granite	1214m	South
10100961	0.00m-0.35m Asphalt 0.35m-1.00m Fill 1.00m-20.54m Amphobolite/Granite	1220m	South
10031250	0.00m-0.30m Clayey Sand 0.30m-23.20m Amphibolite/Granite	1227m	South
10062401	0.00m-0.30m Clayey Sand 0.30m-16.00m Amphibolite/Granite	1236m	South
10047652	0.00m-0.10m Clayey Sand 0.10m-12.80m Amphibolite/Granite	1258m	South

NGIS Bore ID	Drillers Log	Distance	Direction
10100883	0.00m-0.20m CONCRETE FORECOURT 0.20m-0.40m CLAYEY SAND: GREY BROWN, MOIST MED GRAINED, OCCASIONALLY COARSE (QUARTZ GRAINS- SUBANGULAR) NOTICEABLE HYDROCARBON ODOUR 0.40m-2.10m SANDY SILTY CLAY: GREENY GREY, MOIST, MED TO HIGH PLASTICITY, MOISTURE CONTENT IS GREATER THAN PLASTIC LIMIT, FINE SAND, MICACEOUS, SOME CALCRETE AND QUARTZ GRAVEL TO 10MM, NOTICEABLE HYDROCARBON ODOU 2.10m-4.00m SANDY SILT: ORANGE BROWN, MOIST, TRACE PLASTICITY, FINE TO MED SAND, MICACEOUS, WEATHERED (FRIABLE) SCHISTOSE GRAVEL TO10MM, NOTICEABLE HYDROCARBON ODOUR 4.00m-6.50m GRAVELLY SANDY SILT: PALE GREENY BROWN, SLIGHTLY MOIST, FINE TO MED SAND, MICACEOUS, LOW/TRACE PLASTICITY, SCHISTOSE GRAVEL (GRIABLE) TO10MM THROUGHOUT, HYDROCARBON ODOUR. 6.50m-7.50m SANDY SILT: GREENY BROWN MOIST TO VERY MOIST, LOW PLASTICITY, FINE SAND, SOME WEATHERED SCHISTOSE FRAGMENT FRIABLE 5MM	1398m	South East

Drill Log Data Source: Bureau of Meteorology; Water NSW. Creative Commons 3.0 © Commonwealth of Australia http://creativecommons.org/licenses/by/3.0/au/deed.en

Geology

Broken Hill Hospital, 176 Thomas Street, Broken Hill, NSW 2880



Geological Units

What are the Geological Units within the dataset buffer?

Unit Code	Unit Name	Description	Unit Stratigraphy	Age	Dominant Lithology	Distance
Q_h	Anthropogenic deposits	Anthropocene deposits varying from large man-made clasts (concrete blocks to building demolition rubble) to quarried natural boulders, with interstitial sand-sized to clay matrix.	/Anthropogenic deposits////	Quaternary (base) to Now (top)	Anthropogenic material	0m
PPsu	Sundown Group	Abundant pelite - psammopelite rocks, thin pelitic units common (lower half); thin pelite and psammite - psammopelite (upper half); sporadic composite gneiss, grading to metasediment. Small basic gneiss and quartz-gahnite bodies also at base.	Willyama Supergroup/Sundown Group////	Statherian (base) to Statherian (top)	Siliciclastic sedimentary rock	0m
Q_c	Colluvium	Poorly sorted, weakly cemented to unconsolidated colluvial lenses of polymictic conglomerate with medium- to very coarse-grained sand matrix; interspersed with unconsolidated clayey and silty red-brown (aeolian) sand layers, modified by pedogenesis.	/Colluvium////	Quaternary (base) to Now (top)	Clastic sediment	622m
MPui__p	Unassigned Mesoproterozoic intrusions - pegmatite	Pegmatite, deformed leucogranite, or mixtures of these.	/Unassigned Mesoproterozoic intrusions//Unassigned Mesoproterozoic intrusions - pegmatite//	Mesoproterozoic (base) to Mesoproterozoic (top)	Pegmatite	698m
Q_a	Alluvium	Unconsolidated grey to brown to beige humic (±)micaceous silty clay, quartz-(±)lithic silt, fine- to medium-grained quartz-rich to quartz-lithic sand, polymictic pebble to cobble gravel (as sporadic lenses); sporadic palaeosol horizons.	/Alluvium////	Quaternary (base) to Now (top)	Clastic sediment	920m

Linear Geological Structures

What are the Dyke, Sill, Fracture, Lineament and Vein trendlines within the dataset buffer?

Map ID	Feature Description	Map Sheet Name	Distance
No Features			

What are the Faults, Shear zones or Schist zones, Intrusive boundaries & Marker beds within the dataset buffer?

Map ID	Boundary Type	Description	Map Sheet Name	Distance
No Features				

Geological Data Source: Statewide Seamless Geology v2.1, Department of Regional NSW
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Naturally Occurring Asbestos Potential

Broken Hill Hospital, 176 Thomas Street, Broken Hill, NSW 2880

Naturally Occurring Asbestos Potential

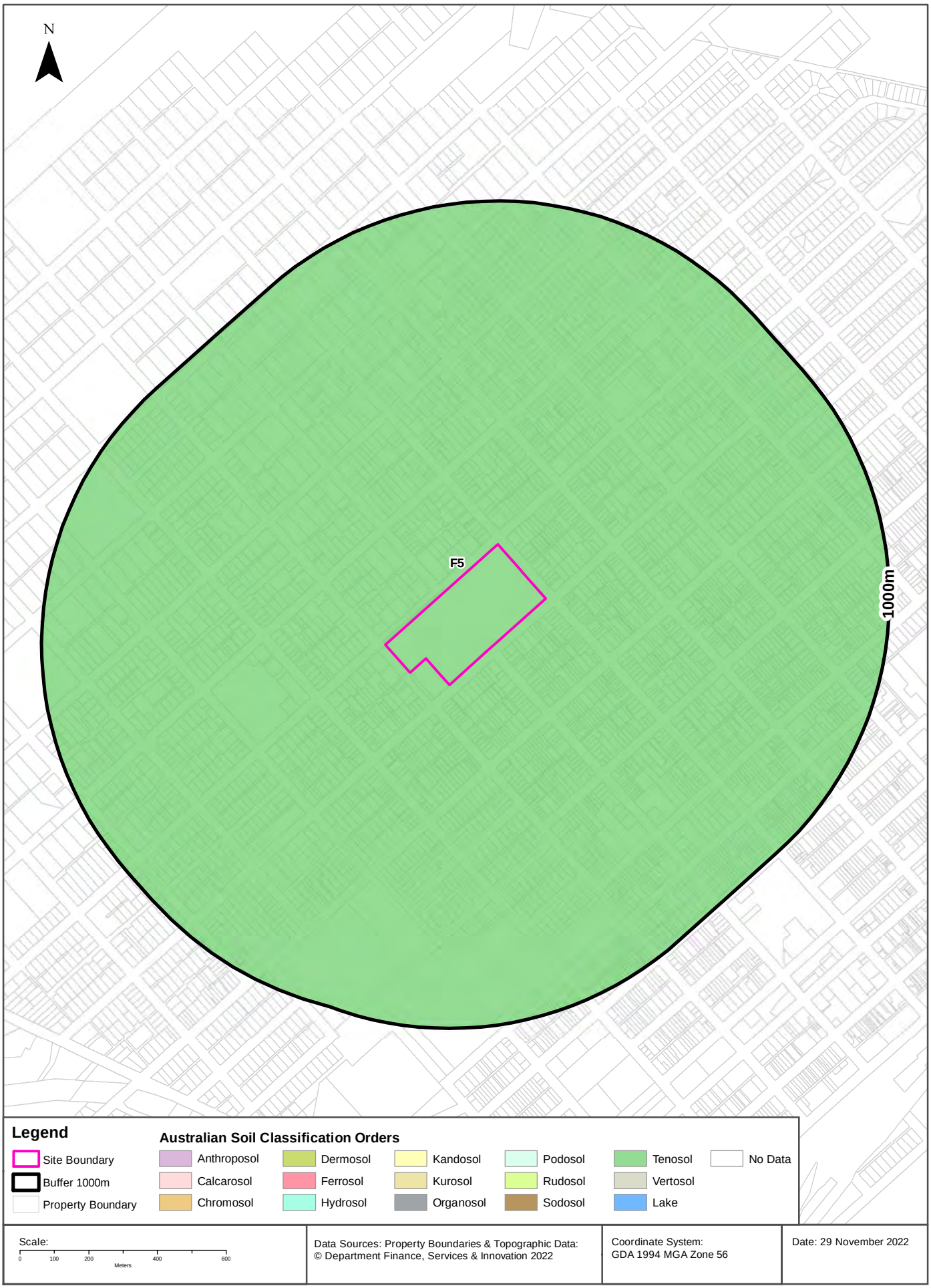
Naturally Occurring Asbestos Potential within the dataset buffer:

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

Naturally Occurring Asbestos Potential Data Source: © State of New South Wales through NSW Department of Industry, Resources & Energy

Atlas of Australian Soils

Broken Hill Hospital, 176 Thomas Street, Broken Hill, NSW 2880



Soils

Broken Hill Hospital, 176 Thomas Street, Broken Hill, NSW 2880

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	Direction
F5	Tenosol	Hilly with small valley plains: shallow dense loamy soils (Um5.41); shallow calcareous loamy soils (Um5.11); and shallow loams (Um1.43) and sands (Uc1.43) occur on the hills. Associated are crusty loamy soils (Dr1.13) and (Dr1.33) and highly calcareous loamy earths (Gc1.12) on pediments, slopes, and in the small valleys. This description is expanded slightly from that given in Sheet 1.	0m	On-site

Atlas of Australian Soils Data Source: CSIRO
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Acid Sulfate Soils

Broken Hill Hospital, 176 Thomas Street, Broken Hill, NSW 2880

Environmental Planning Instrument - Acid Sulfate Soils

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

Soil Class	Description	EPI Name
N/A		

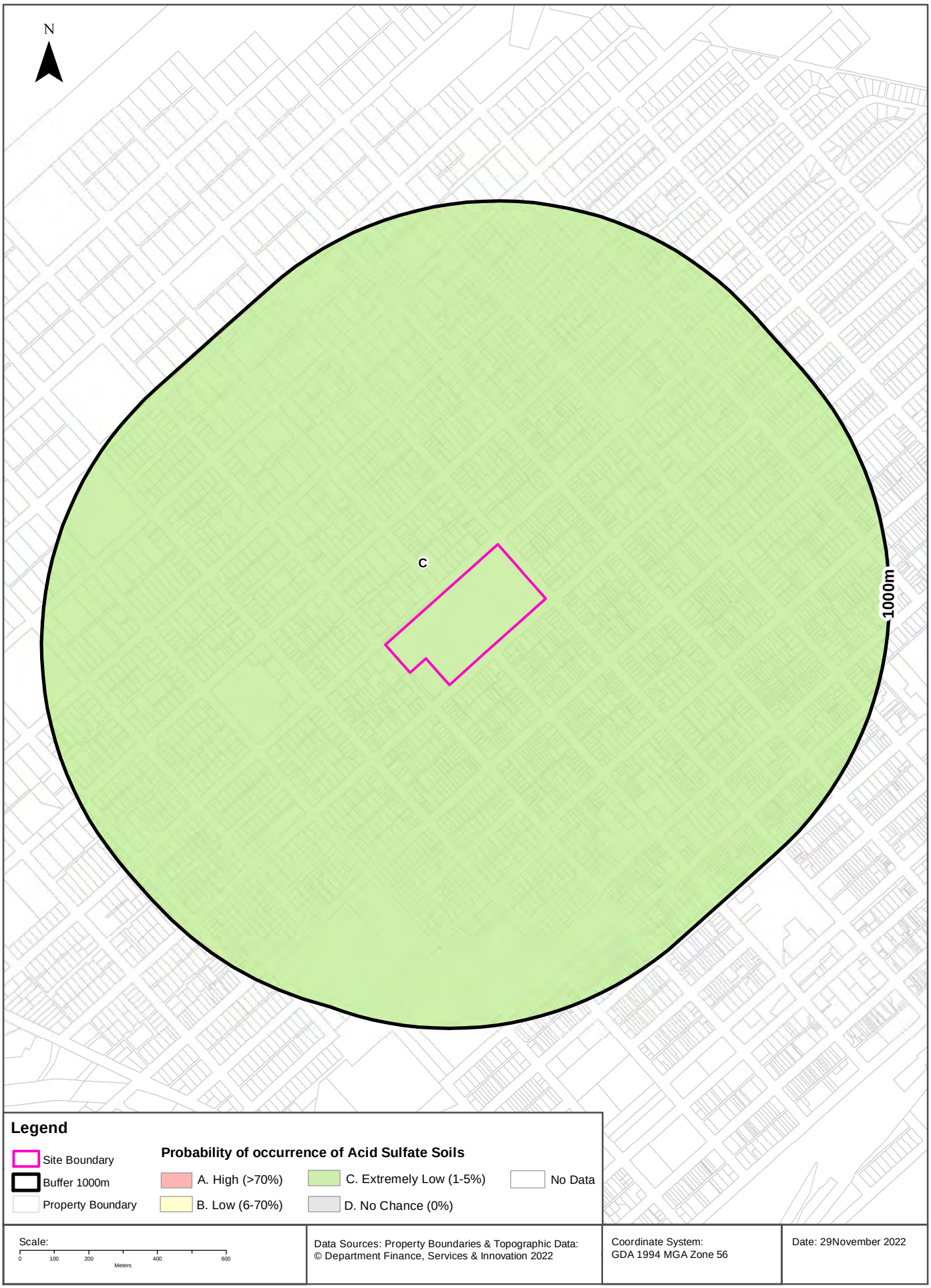
If the on-site Soil Class is 5, what other soil classes exist within 500m?

Soil Class	Description	EPI Name	Distance	Direction
N/A				

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Atlas of Australian Acid Sulfate Soils

Broken Hill Hospital, 176 Thomas Street, Broken Hill, NSW 2880



Acid Sulfate Soils

Broken Hill Hospital, 176 Thomas Street, Broken Hill, NSW 2880

Atlas of Australian Acid Sulfate Soils

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

Class	Description	Distance	Direction
C	Extremely low probability of occurrence. 1-5% chance of occurrence with occurrences in small localised areas.	0m	On-site

Atlas of Australian Acid Sulfate Soils Data Source: CSIRO
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Dryland Salinity

Broken Hill Hospital, 176 Thomas Street, Broken Hill, NSW 2880

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		

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.

Mining

Broken Hill Hospital, 176 Thomas Street, Broken Hill, NSW 2880

Mining Subsidence Districts

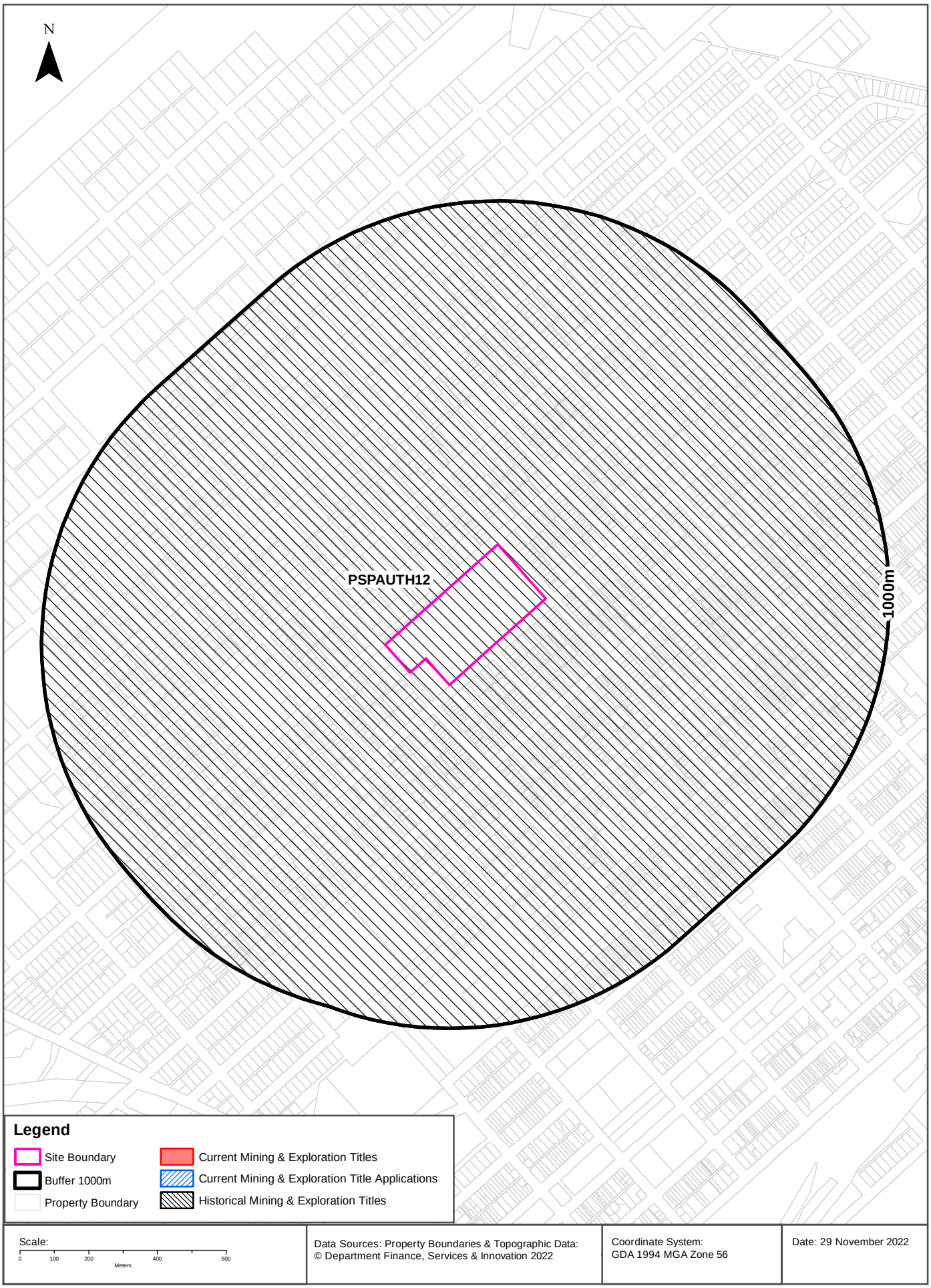
Mining Subsidence Districts within the dataset buffer:

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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Mining & Exploration Titles

Broken Hill Hospital, 176 Thomas Street, Broken Hill, NSW 2880



Mining

Broken Hill Hospital, 176 Thomas Street, Broken Hill, NSW 2880

Current Mining & Exploration Titles

Current Mining & Exploration Titles within the dataset buffer:

Title Ref	Holder	Grant Date	Expiry Date	Last Renewed	Operation	Resource	Minerals	Dist	Dir
N/A	No records in buffer								

Current Mining & Exploration Titles Data Source: © State of New South Wales through NSW Department of Industry

Current Mining & Exploration Title Applications

Current Mining & Exploration Title Applications within the dataset buffer:

Application Ref	Applicant	Application Date	Operation	Resource	Minerals	Dist	Dir
N/A	No records in buffer						

Current Mining & Exploration Title Applications Data Source: © State of New South Wales through NSW Department of Industry

Mining

Broken Hill Hospital, 176 Thomas Street, Broken Hill, NSW 2880

Historical Mining & Exploration Titles

Historical Mining & Exploration Titles within the dataset buffer:

Title Ref	Holder	Start Date	End Date	Resource	Minerals	Dist	Dir
PSPAUTH12	HARDIE INFRASTRUCTURE PTY LTD	20060410	20091007	PETROLEUM	Petroleum	0m	On-site

Historical Mining & Exploration Titles Data Source: © State of New South Wales through NSW Department of Industry

State Environmental Planning Policy

Broken Hill Hospital, 176 Thomas Street, Broken Hill, NSW 2880

State Significant Precincts

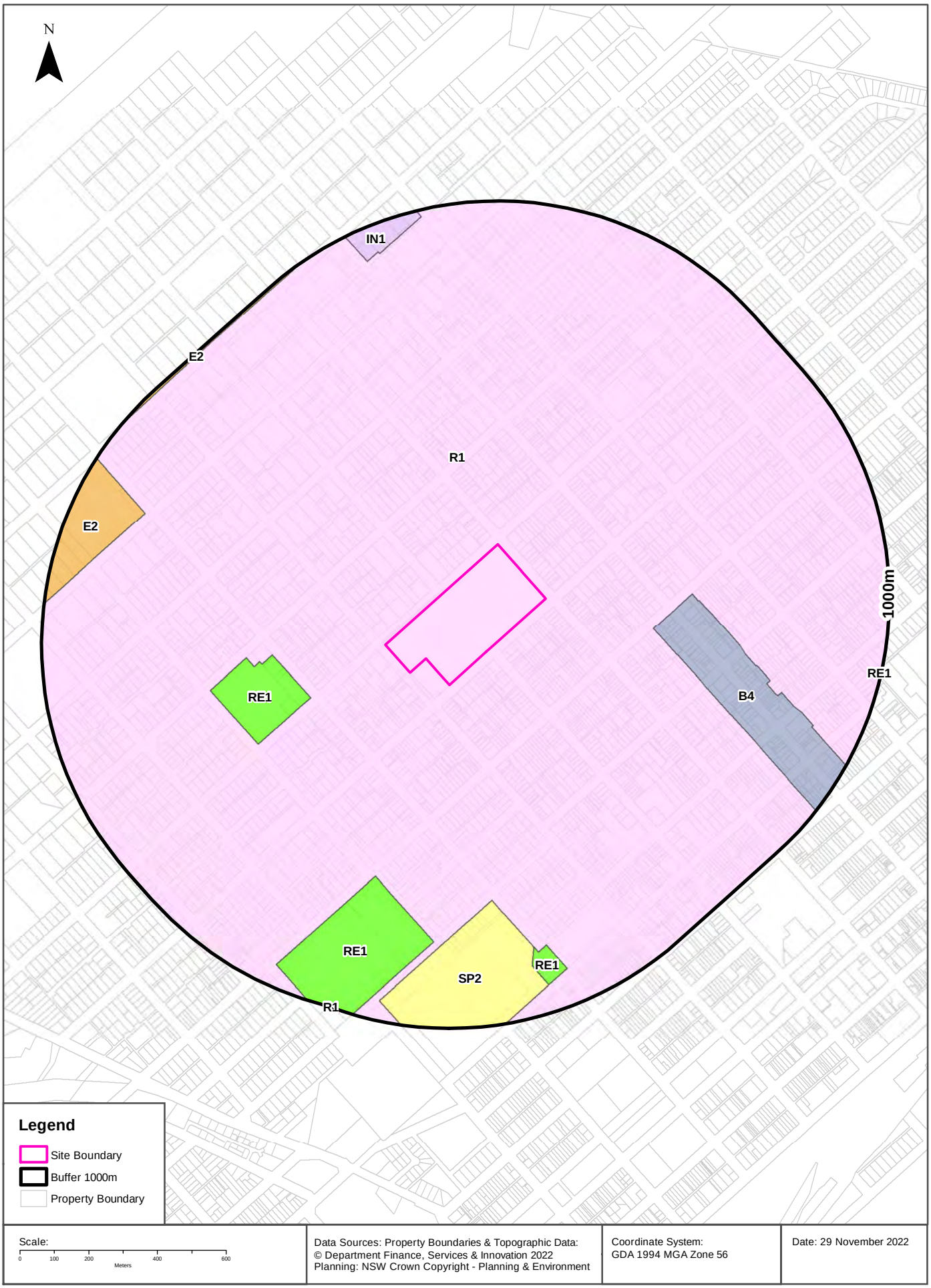
What SEPP State Significant Precincts exist within the dataset buffer?

Map Id	Precinct	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
N/A	No records in buffer							

State Environment Planning Policy Data Source: NSW Crown Copyright - Planning & Environment
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EPI Planning Zones

Broken Hill Hospital, 176 Thomas Street, Broken Hill, NSW 2880



Environmental Planning Instrument

Broken Hill Hospital, 176 Thomas Street, Broken Hill, NSW 2880

Land Zoning

What EPI Land Zones exist within the dataset buffer?

Zone	Description	Purpose	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
R1	General Residential		Broken Hill Local Environmental Plan 2013	30/08/2013	30/08/2013	19/12/2014		0m	On-site
RE1	Public Recreation		Broken Hill Local Environmental Plan 2013	30/08/2013	30/08/2013	19/12/2014		267m	West
B4	Mixed Use		Broken Hill Local Environmental Plan 2013	30/08/2013	30/08/2013	19/12/2014		323m	East
RE1	Public Recreation		Broken Hill Local Environmental Plan 2013	30/08/2013	30/08/2013	19/12/2014		598m	South
SP2	Infrastructure	Water Supply System	Broken Hill Local Environmental Plan 2013	30/08/2013	30/08/2013	19/12/2014		639m	South
E2	Environmental Conservation		Broken Hill Local Environmental Plan 2013	30/08/2013	30/08/2013	19/12/2014		797m	West
RE1	Public Recreation		Broken Hill Local Environmental Plan 2013	30/08/2013	30/08/2013	19/12/2014		801m	South
IN1	General Industrial		Broken Hill Local Environmental Plan 2013	30/08/2013	30/08/2013	19/12/2014		907m	North
RE1	Public Recreation		Broken Hill Local Environmental Plan 2013	30/08/2013	30/08/2013	19/12/2014		984m	East

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Heritage Items

Broken Hill Hospital, 176 Thomas Street, Broken Hill, NSW 2880



Heritage

Broken Hill Hospital, 176 Thomas Street, Broken Hill, NSW 2880

Commonwealth Heritage List

What are the Commonwealth Heritage List Items located within the dataset buffer?

Place Id	Name	Address	Place File No	Class	Status	Register Date	Distance	Direction
N/A	No records in buffer							

Heritage Data Source: Australian Government Department of the Environment and Energy - Heritage Branch
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National Heritage List

What are the National Heritage List Items located within the dataset buffer?
Note. Please click on Place Id to activate a hyperlink to online website.

Place Id	Name	Address	Place File No	Class	Status	Register Date	Distance	Direction
105861	City of Broken Hill	Silver City Hwy, Broken Hill NSW	1/04/370/0044	Historic	Minister considering decision within extended period		0m	On-site

Heritage Data Source: Australian Government Department of the Environment and Energy - Heritage Branch
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State Heritage Register - Curtilages

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

Map Id	Name	Address	LGA	Listing Date	Listing No	Plan No	Distance	Direction
5045407	St Josephs Convent, Chapel & Site (former)	Sulphide Street, Broken Hill	BROKEN HILL	02/04/1999	00484	1212	609m	South East
5063675	1915 Picnic Train Attack and White Rocks Reserve	Broken Hill	BROKEN HILL	29/06/2018	02002	3156	949m	North West

Heritage Data Source: NSW Crown Copyright - Office of Environment & Heritage
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Environmental Planning Instrument - Heritage

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

Map Id	Name	Classification	Significance	EPI Name	Published Date	Commenced Date	Currency Date	Distance	Direction
I25	Old areas of Broken Hill Hospital	Item - General	Local	Broken Hill Local Environmental Plan 2013	30/08/2013	30/08/2013	30/08/2013	0m	On-site

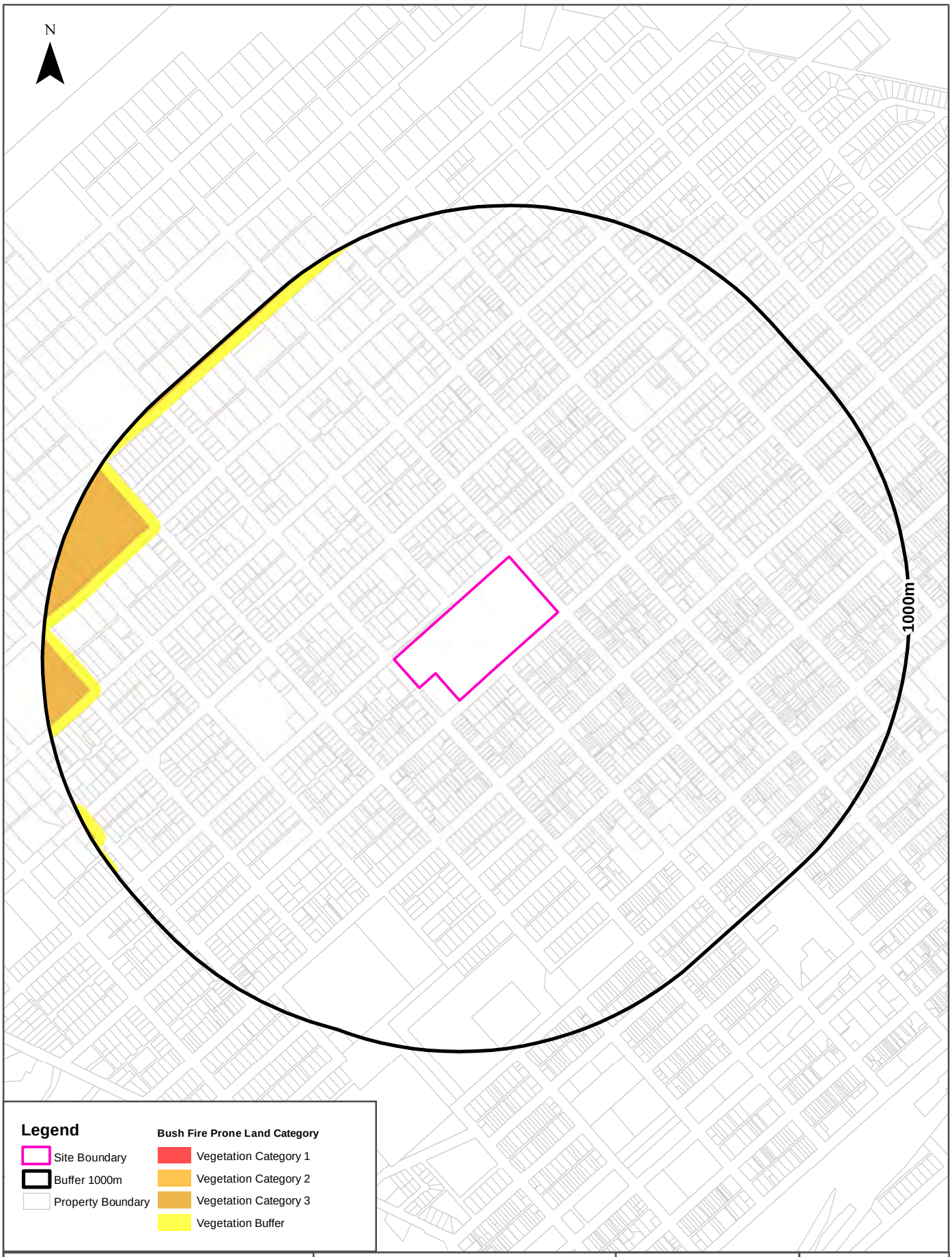
Map Id	Name	Classification	Significance	EPI Name	Published Date	Commenced Date	Currency Date	Distance	Direction
C2	Oxide Street Heritage Conservation Area and Willyama Precinct	Conservation Area - General	Local	Broken Hill Local Environmental Plan 2013	30/08/2013	30/08/2013	30/08/2013	0m	East
I78	House and shop	Item - General	Local	Broken Hill Local Environmental Plan 2013	30/08/2013	30/08/2013	30/08/2013	31m	East
I80	House	Item - General	Local	Broken Hill Local Environmental Plan 2013	30/08/2013	30/08/2013	30/08/2013	72m	South East
I218	Thomas Street Methodist Church (former)	Item - General	Local	Broken Hill Local Environmental Plan 2013	30/08/2013	30/08/2013	30/08/2013	216m	South West
I217	Thomas Bakery (former)	Item - General	Local	Broken Hill Local Environmental Plan 2013	30/08/2013	30/08/2013	30/08/2013	274m	East
I73	House	Item - General	Local	Broken Hill Local Environmental Plan 2013	30/08/2013	30/08/2013	30/08/2013	287m	North
I79	Houses	Item - General	Local	Broken Hill Local Environmental Plan 2013	30/08/2013	30/08/2013	30/08/2013	314m	South East
I72	House	Item - General	Local	Broken Hill Local Environmental Plan 2013	30/08/2013	30/08/2013	30/08/2013	340m	North
I104	Miraga Day Care Centre (former Oxide Street Methodist Church)	Item - General	Local	Broken Hill Local Environmental Plan 2013	30/08/2013	30/08/2013	30/08/2013	369m	East
I36	Allison House Student Accommodation (former Bush Children's Hostel)	Item - General	Local	Broken Hill Local Environmental Plan 2013	30/08/2013	30/08/2013	30/08/2013	374m	East
I94	Mulga Hill Tavern	Item - General	Local	Broken Hill Local Environmental Plan 2013	30/08/2013	30/08/2013	30/08/2013	381m	East
I74	House	Item - General	Local	Broken Hill Local Environmental Plan 2013	30/08/2013	30/08/2013	30/08/2013	514m	North West
I71	House	Item - General	Local	Broken Hill Local Environmental Plan 2013	30/08/2013	30/08/2013	30/08/2013	536m	East
I56	Sacred Heart Parish Primary School (former Marist Brothers College)	Item - General	Local	Broken Hill Local Environmental Plan 2013	30/08/2013	30/08/2013	30/08/2013	555m	South East
I200	St Joseph's Convent, Chapel and site (former)	Item - General	State	Broken Hill Local Environmental Plan 2013	30/08/2013	30/08/2013	30/08/2013	609m	South East
I120	Reservoir, Mica Street Filtration Plant	Item - General	Local	Broken Hill Local Environmental Plan 2013	30/08/2013	30/08/2013	30/08/2013	639m	South
I123	Sacred Heart Cathedral	Item - General	Local	Broken Hill Local Environmental Plan 2013	30/08/2013	30/08/2013	30/08/2013	660m	South East
I22	Broken Hill Baptist Church	Item - General	Local	Broken Hill Local Environmental Plan 2013	30/08/2013	30/08/2013	30/08/2013	704m	East
I16	Bishop's House	Item - General	Local	Broken Hill Local Environmental Plan 2013	30/08/2013	30/08/2013	30/08/2013	742m	South East
I204	St Peters Anglican Church	Item - General	Local	Broken Hill Local Environmental Plan 2013	30/08/2013	30/08/2013	30/08/2013	752m	South East
I124	Hall (former Sacred Heart Church)	Item - General	Local	Broken Hill Local Environmental Plan 2013	30/08/2013	30/08/2013	30/08/2013	772m	South East
I76	House - ZC-NBHC Bachelors Quarters (former)	Item - General	Local	Broken Hill Local Environmental Plan 2013	30/08/2013	30/08/2013	30/08/2013	792m	South East

Map Id	Name	Classification	Significance	EPI Name	Published Date	Commenced Date	Currency Date	Distance	Direction
I37	Caledonian Hotel (former)	Item - General	Local	Broken Hill Local Environmental Plan 2013	30/08/2013	30/08/2013	30/08/2013	806m	South East
I101	Old Royal Hotel	Item - General	Local	Broken Hill Local Environmental Plan 2013	30/08/2013	30/08/2013	30/08/2013	865m	East
I111	Police House	Item - General	Local	Broken Hill Local Environmental Plan 2013	30/08/2013	30/08/2013	30/08/2013	931m	South East
I215	The Towers	Item - General	Local	Broken Hill Local Environmental Plan 2013	30/08/2013	30/08/2013	30/08/2013	932m	South East
I233	White Rocks Reserve	Item - General	Local	Broken Hill Local Environmental Plan 2013	30/08/2013	30/08/2013	30/08/2013	949m	North West
I128	Scout hall	Item - General	Local	Broken Hill Local Environmental Plan 2013	30/08/2013	30/08/2013	30/08/2013	970m	South East

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Natural Hazards - Bush Fire Prone Land

Broken Hill Hospital, 176 Thomas Street, Broken Hill, NSW 2880



Data Sources: Bush Fire Prone Land: © NSW Rural Fire Service 2022. Property Boundaries: © Department Finance, Services & Innovation 2022

Coordinate System: GDA 1994 MGA Zone 56

Date: 29 November 2022

Natural Hazards

Broken Hill Hospital, 176 Thomas Street, Broken Hill, NSW 2880

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
Vegetation Buffer	761m	West
Vegetation Category 3	791m	West

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

Ecological Constraints

Broken Hill Hospital, 176 Thomas Street, Broken Hill, NSW 2880

Ramsar Wetlands

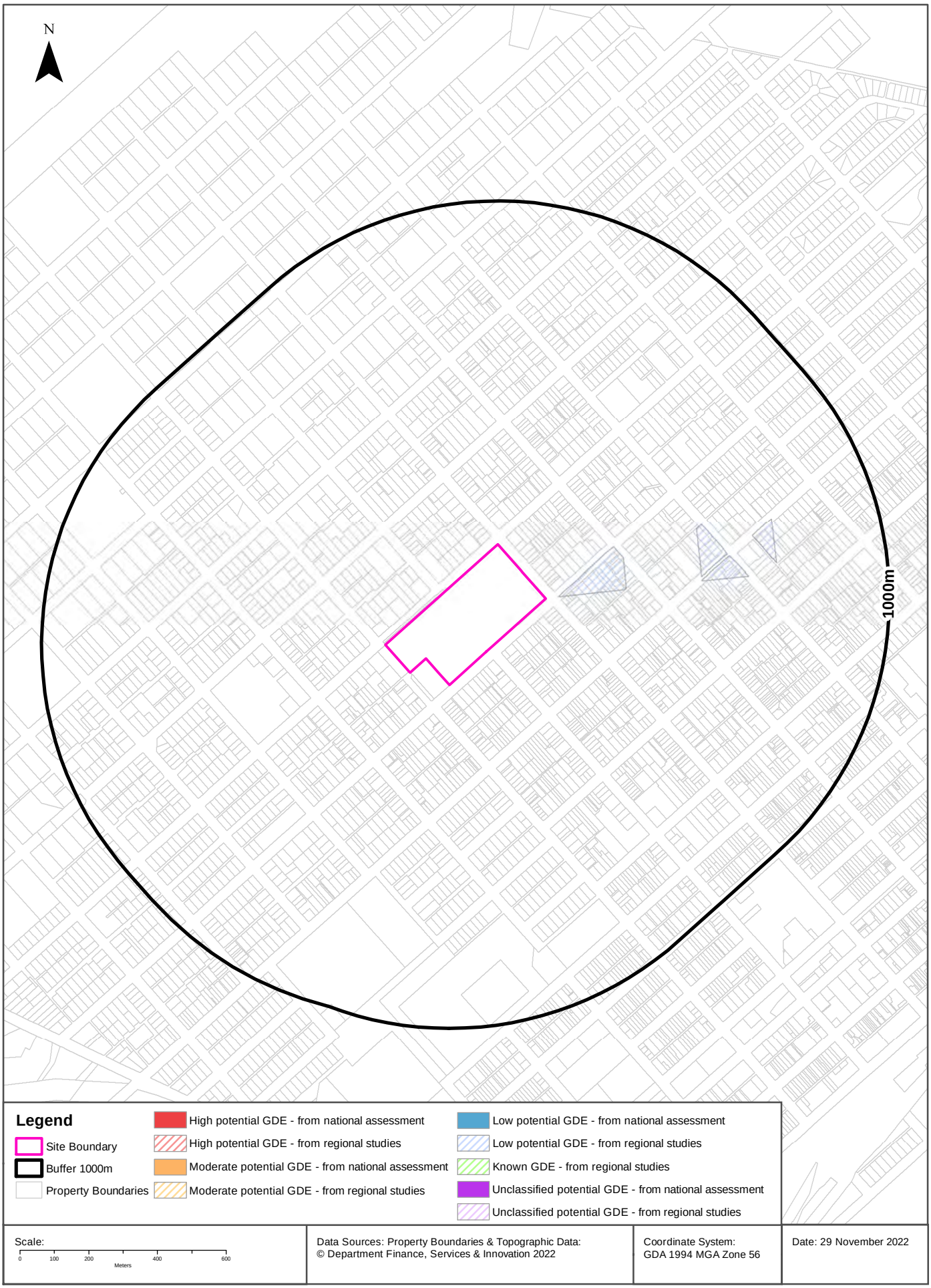
What Ramsar Wetland areas exist within the dataset buffer?

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 Agriculture, Water and the Environment

Ecological Constraints - Groundwater Dependent Ecosystems Atlas

Broken Hill Hospital, 176 Thomas Street, Broken Hill, NSW 2880



Ecological Constraints

Broken Hill Hospital, 176 Thomas Street, Broken Hill, NSW 2880

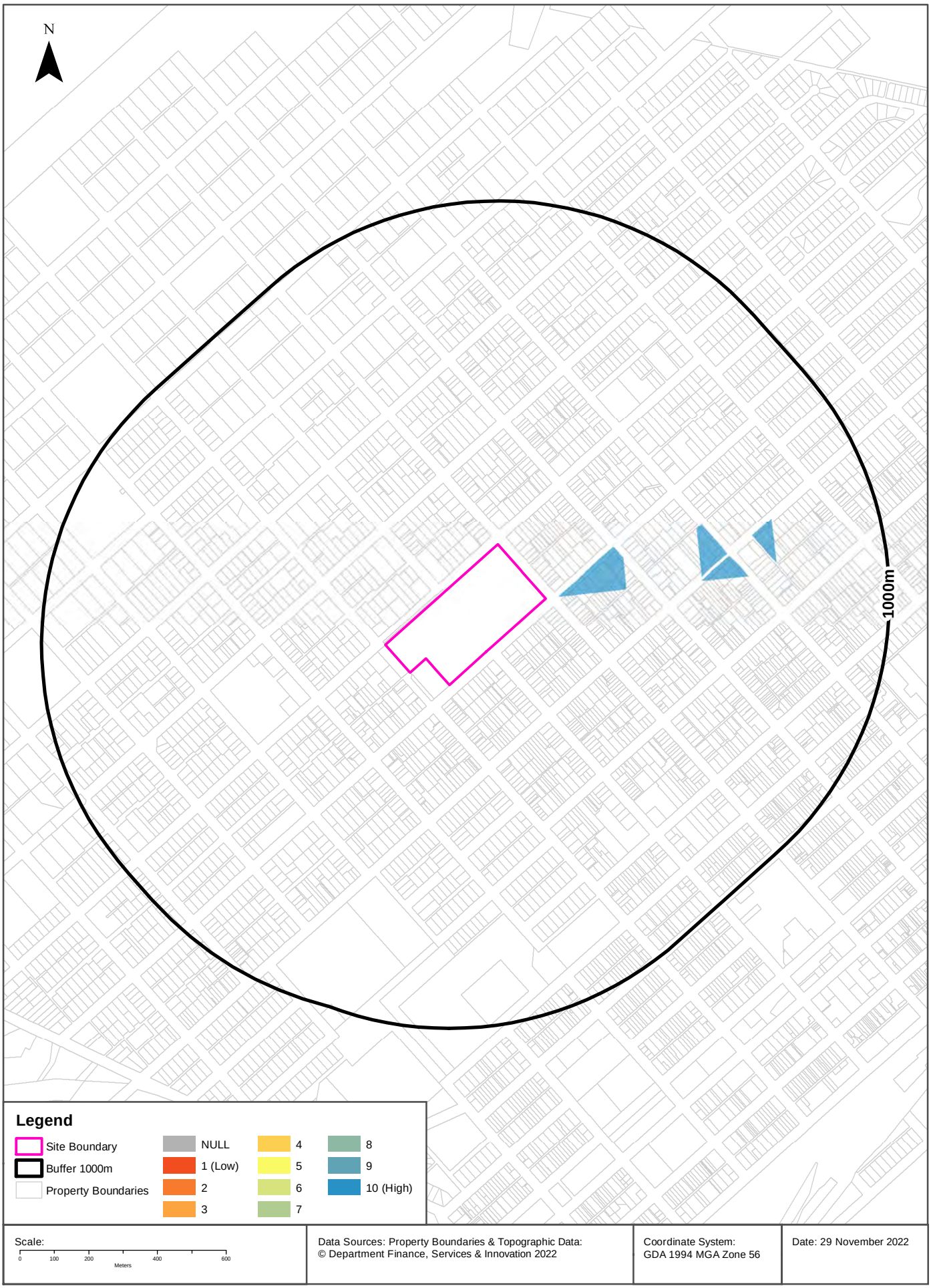
Groundwater Dependent Ecosystems Atlas

Type	GDE Potential	Geomorphology	Ecosystem Type	Aquifer Geology	Distance	Direction
Terrestrial	Low potential GDE - from regional studies	Ranges and undulating lowlands of granite and metamorphics.	Vegetation		34m	East

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

Broken Hill Hospital, 176 Thomas Street, Broken Hill, NSW 2880



Ecological Constraints

Broken Hill Hospital, 176 Thomas Street, Broken Hill, NSW 2880

Inflow Dependent Ecosystems Likelihood

Type	IDE Likelihood	Geomorphology	Ecosystem Type	Aquifer Geology	Distance	Direction
Terrestrial	10	Ranges and undulating lowlands of granite and metamorphics.	Vegetation		34m	East

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

Broken Hill Hospital, 176 Thomas Street, Broken Hill, NSW 2880

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	Aves	Actitis hypoleucos	Common Sandpiper	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Apus pacificus	Fork-tailed Swift	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Arenaria interpres	Ruddy Turnstone	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Artamus cyanopterus cyanopterus	Dusky Woodswallow	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Burhinus grallarius	Bush Stone-curlew	Endangered	Not Sensitive	Not Listed	
Animalia	Aves	Calamanthus campestris	Rufous Fieldwren	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Calidris ferruginea	Curlew Sandpiper	Endangered	Not Sensitive	Critically Endangered	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Certhionyx variegatus	Pied Honeyeater	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Circus assimilis	Spotted Harrier	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Climacteris picumnus victoriae	Brown Treecreeper (eastern subspecies)	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Epthianura albifrons	White-fronted Chat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Falco hypoleucos	Grey Falcon	Endangered	Category 2	Not Listed	
Animalia	Aves	Falco subniger	Black Falcon	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Hamirostra melanosternon	Black-breasted Buzzard	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Hieraaetus morphnoides	Little Eagle	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Hydroprogne caspia	Caspian Tern	Not Listed	Not Sensitive	Not Listed	JAMBA
Animalia	Aves	Lophochroa leadbeateri	Major Mitchell's Cockatoo	Vulnerable	Category 2	Not Listed	
Animalia	Aves	Melanodryas cucullata cucullata	Hooded Robin (south-eastern form)	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Oxyura australis	Blue-billed Duck	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Pezoporus occidentalis	Night Parrot	Extinct	Not Sensitive	Endangered	
Animalia	Aves	Pyrrholaemus brunneus	Redthroat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Rostratula australis	Australian Painted Snipe	Endangered	Not Sensitive	Endangered	
Animalia	Aves	Tringa nebularia	Common Greenshank	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Mammalia	Chalinolobus picatus	Little Pied Bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Leporillus conditor	Greater Stick-nest Rat	Extinct	Not Sensitive	Vulnerable	
Animalia	Mammalia	Notomys fuscus	Dusky Hopping-mouse	Endangered	Not Sensitive	Vulnerable	

Kingdom	Class	Scientific	Common	NSW Conservation Status	NSW Sensitivity Class	Federal Conservation Status	Migratory Species Agreements
Animalia	Mammalia	Pseudomys bolami	Bolam's Mouse	Endangered	Not Sensitive	Not Listed	
Animalia	Mammalia	Sminthopsis macroura	Stripe-faced Dunnart	Vulnerable	Not Sensitive	Not Listed	
Animalia	Reptilia	Ctenophorus mirrityana	Barrier Range Dragon	Endangered	Not Sensitive	Not Listed	
Animalia	Reptilia	Pseudonaja modesta	Ringed Brown Snake	Endangered	Not Sensitive	Not Listed	
Animalia	Reptilia	Tiliqua occipitalis	Western Blue-tongued Lizard	Vulnerable	Not Sensitive	Not Listed	
Animalia	Reptilia	Tympanocryptis lineata	Canberra Grassland Earless Dragon	Critically Endangered	Not Sensitive	Endangered	
Plantae	Flora	Acacia carneorum	Purple-wood Wattle	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Acacia notabilis	Mallee Golden Wattle	Endangered	Not Sensitive	Not Listed	
Plantae	Flora	Acacia rivalis	Creek Wattle	Endangered	Not Sensitive	Not Listed	
Plantae	Flora	Eucalyptus leucoxylon subsp. pruinosa	Yellow Gum	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

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 code is given under the field heading “LC” or “LocConf”. These codes lookup to the following location confidences:

LC Code	Location Confidence
Premise Match	Georeferenced to the site location / premise or part of site
Area Match	Georeferenced to an approximate or general area
Road Match	Georeferenced to a road or rail corridor
Road Intersection	Georeferenced to a road intersection
Buffered Point	A point feature buffered to x metres
Adjacent Match	Land adjacent to a georeferenced feature
Network of Features	Georeferenced to a network of features
Suburb Match	Georeferenced to a suburb boundary
As Supplied	Spatial data supplied by provider

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    irrespective of how that liability arises including in contract or tort, liability under indemnity or for any other common law, equitable or statutory cause of action or otherwise.
12. These Terms are subject to New South Wales law.

Appendix G Council Section 10.7 Certificates

BROKEN HILL
CITY COUNCIL

Quote No 18225

Telephone / Personal Enquiries
Ask for Tracey Stephens

Please address all communications to:
The General Manager
240 Blende Street
PO Box 448
Broken Hill NSW 2880
Phone 08 8080 3300
Fax 08 8080 3424
council@brokenhill.nsw.gov.au
www.brokenhill.nsw.gov.au

ABN 84 873 116 132

Planning Certificate No 18225
Environmental Planning And Assessment Act 1979

OFFICE USE ONLY	
Receipt No	
Applicant Ref	Lotsearch
Owner	Health Admin Corp c/-Far West Local Health District

Applicants Name	Lotsearch
Postal Address	Level 3 68 Alfred Street South MILSONS POINT NSW 2061
DESCRIPTION OF LAND	
Property Address	170-320 Thomas Street BROKEN HILL 2880
Property Description	Lot: 4376 DP: 757298

A. As at the date of this certificate the abovementioned land is land to which an environmental planning instrument applies. Where an environmental planning instrument applies to the land, details are set out as follows:

Name of Planning Instrument and Date When It Took Effect	Yes /No	Effect of Planning Instrument on Abovementioned Land
Broken Hill Local Environmental Plan 2013 – 30/08/2013	Yes	The land is zoned R1 General Residential under the existing planning instrument (See development control table – Attachment 2)
State & Regional Environmental Planning Policies	Yes	(see Attachment 1)
Draft State Environmental Planning Policy submitted to the Minister*	No	
Draft Regional Environmental Plan*	No	
Exhibited Draft Environmental Planning Instrument	No	
Draft Development Control Plan	No	

B. For the purposes of Section 10.7(2) it is advised that as at the date of this certificate the abovementioned land is affected by the matters referred to in Column 1 of the following table:

Column 1	Yes/No	Identification Of The Matter Referred To In Column 1 And The Manner In Which It Applies To Or Affects The Land
Development Control Plan	Yes	City of Broken Hill Development Control Plan 2016.
Whether additional permitted uses apply to the land.	Yes	Development for the purpose of retail premises associated with art galleries is permitted, subject to development consent.
Whether a contributions plan applies to the land.	Yes	Council has adopted the Broken Hill City Council Section 7.12 Developer Contributions Plan.
Whether any development standards applying to the land fix minimum land dimensions for the erection of a dwelling-house on the land.	Yes	Minimum lot size of 230m².
Whether the land is in an area of outstanding biodiversity value under the *Biodiversity Conservation Act 2016.*	No	
Whether the land is in a heritage conservation area.	No	
Whether an item of environmental heritage is situated on the land.	Yes	Schedule 5 of Broken Hill LEP - ''old areas of the Broken Hill Hospital''.
Whether the subject land is land on which complying development may be carried out under SEPP (Exempt and Complying Development Codes) 2008.		Council does not have sufficient information to ascertain the extent to which complying development may or may not be carried out on the land.
Rural Housing Code	No	
General Housing Code	No	
Demolition Code	No	
General Development Code	No	
Housing Alterations Code	No	
General Commercial & Industrial Code	No	
Subdivisions Code	No	
Inland Code	Yes	
Whether the land is land on which Exempt development may be carried out.	Yes	Council does not have sufficient information to ascertain the extent to which exempt development may or may not be carried out on the land. (refer to SEPP Exempt and Complying development codes.)
Affected building notices and building product rectification orders.	No	
Whether any Environmental Planning Instrument, deemed or draft instrument applying to the land provides for the acquisition of the land by a public	No	

authority, under Section 27 of the Act.		
Whether or not the land is affected by any road widening or road realignment under- i) Part 3 Division 2 of the *Roads Act 1993*; ii) any environmental planning instrument; or iii) any resolution of the Council	No	
Whether the land or part of the land is within the flood planning area and subject to flood related development controls.	No	
Whether or not the land is affected by a policy: (a) Adopted by the Council; or (b) Adopted by any other public authority and notified to the Council for the express purpose of its adoption by that authority being referred to in planning certificates issued by the Council, that restricts the development of the land because of the likelihood of land slip, bushfire, tidal inundation, subsidence, acid sulphate soils or any other risk (other than flooding).	No	
Whether some, or all, of the land is bushfire prone.	No	
Loose-fill asbestos insulation	See Notation	Council strongly recommends that any potential purchaser obtain advice from a licensed asbestos assessor to determine whether loose-fill asbestos is present in any building on the land and, if so, the health risks (if any) this may pose for the building's occupants. Contact NSW Fair Trading for further information.
Section 15 of *the Mines Subsidence Compensation Act 1961*	No	Whether the land has been proclaimed a mine subsidence district.
Whether a development plan has been adopted by a relevant authority that applies to the land.	No	
Whether the land is land to which a property vegetation plan under the *Native Vegetation Act 2003* applies.	No	
Whether the land is a Biodiversity stewardship site under a Biodiversity stewardship agreement.	No	
Whether the land is Biodiversity certified land.	No	
Whether Council has been notified of an order being made under *the Trees*	No	Council has not been notified of an order under this Act in relation to this land.

(Disputes Between Neighbours) Act 2006 to carry out work in relation to a tree on the land.		
Whether the *Coastal Management Act 2016* applies.	No	
Whether any development consent conditions for Seniors Housing under SEPP (Housing) 2021 applies.	No	
Whether there is a current Site Compatibility Certificate (Affordable Rental Housing), of which Council is aware in respect of proposed development on the land.	No	
Whether there is a valid Site Compatibility Certificate (Infrastructure), of which Council is aware in respect of proposed development on the land.	No	
Contaminated Land: Whether Council is aware that, at the date of issuing this certificate, the land is:		
Declared to be significantly contaminated (under the *Contaminated Land Management Act 1997*).	No	
Subject to a Management Order (under the *Contaminated Land Management Act 1997*).	No	
Subject to an approved voluntary management proposal (under the *Contaminated Land Management Act 1997*).	No	
Subject to an ongoing maintenance order (under the *Contaminated Land Management Act 1997*).	No	
Subject to a site audit statement (under the *Contaminated Land Management Act 1997*).	No	

* Information is provided only to the extent that the Council has been notified by the Department of Commerce or the Department of Planning.

C. Additional information provided in accordance with Section 10.7(5):

Information	Reply
(a) Has any development consent with respect to the land been granted within the previous two years?	No
(b) What is the current approved use of the property?	Hospital (health services facililty) and associated residences
(c) Is the current use of the property in accordance with such approval?	Yes
(d) Is the land affected by any resolution of the Council to seek amendment to any environmental planning or draft environmental instrument applying to the land?	No
(e) Is the land affected by any Interim or Permanent Conservation Order?	No
(f) Additional contamination information.	This land may contain levels of heavy metals associated with Broken Hill being a mining town. Council has not undertaken testing specific to this property in relation to this matter.
(g) Clearing of native vegetation.	Under the provisions of the *Native Vegetation Act 2003* No 103 approval may be required under the *Environmental Planning and Assessment Act 1979* for the clearing of native vegetation within the Broken Hill Local Government Area.
(h) Other matters affecting the property.	There is the possibility that structures on the parcel of land being purchased may not have been constructed entirely upon or within the relevant boundaries.

The above information has been taken from Council's records, but Council cannot accept responsibility for any omissions or inaccuracy.

The information contained in this certificate needs to be read in conjunction with the provisions of the:

- *Environmental Planning and Assessment Act 1979* and Regulations.

Date: 2/12/2022 *General Manager per:*



Any request for further information in connection with the above should be directed to

Customer Relations - Telephone No. (08) 8080 3300

Or

Council@brokenhill.nsw.gov.au

ATTACHMENT 1 - **S.E.P.P.'S - R.E.P.P.'s**

The name of each State & Regional Environmental Planning Policy that applies to the carrying out of development on the land.

State Environmental Planning Policy (Biodiversity and Conservation) 2021

State Environmental Planning Policy (Building Sustainability Index: BASIX) 2004

State Environmental Planning Policy (Exempt and Complying Development Codes) 2008

State Environmental Planning Policy (Housing) 2021

State Environmental Planning Policy (Industry and Employment) 2021

State Environmental Planning Policy No 65—Design Quality of Residential Apartment Development

State Environmental Planning Policy (Planning Systems) 2021

State Environmental Planning Policy (Precincts—Regional) 2021

State Environmental Planning Policy (Primary Production) 2021

State Environmental Planning Policy (Resilience and Hazards) 2021

State Environmental Planning Policy (Resources and Energy) 2021

State Environmental Planning Policy (Transport and Infrastructure) 2021

ATTACHMENT 2 - DEVELOPMENT CONTROL TABLE

ZONE R1 – General Residential

1 Objectives of zone

- To provide for the housing needs of the community.
- To provide for a variety of housing types and densities.
- To enable other land uses which provide facilities or services to meet the day to day needs of residents.

2 Permitted without consent

Environmental protection works; Home-based child care; Home occupations; Roads.

3 Permitted with consent

Attached dwellings; Boarding houses; Building identification signs; Business identification signs; Child care centres; Community facilities; Dwelling houses; Food and drink premises; Group homes; Hostels; Home industries; Kiosks; Multi dwelling housing; Neighbourhood shops; Places of public worship; Residential flat buildings; Respite day care centres; Semi-detached dwellings; Seniors housing; Shop top housing; Waste or resource transfer stations; Water recycling facilities.

Any development not specified in item 2 or 4.

4 Prohibited

Agriculture; Animal boarding or training establishments; Air transport facilities; Airstrips; Amusement centres; Boat building and repair facilities; Car parks; Charter & tourism boating facilities; Commercial premises; Correctional centres; Crematoria; Depots; Extractive industries; Farm buildings; Farm stay accommodation; Forestry; Freight transport facilities; Heavy industrial storage establishments; Helipads; Highway service centres; Industrial retail outlets; Industrial training facilities; Industries; Jetties; Marinas; Moorings; Mooring pens; Mortuaries; Open cut mining; Port facilities; Public administration buildings; Recreation facilities (major); Research stations; Restricted premises; Rural industries; Rural worker's dwellings; Service stations; Sewerage systems; Sex services premises; Signage; Storage premises; Transport depots; Truck depots; Vehicle body repair workshops; Vehicle repair stations; Warehouse or distribution centres; Waste or resource management facilities; Water treatment facilities; Wharf or boating facilities; Wholesale supplies.

Appendix H Dangerous Goods Search

Lotsearch Support

From: Licensing <licensing@safework.nsw.gov.au>
Sent: Wednesday, 14 December 2022 9:28 AM
To: Lotsearch Support
Subject: SafeWork NSW: 00779823 –Site Search application – Result not found [ref:_ 00D281hl6J._5004aA0IHV:ref]

Security Classification: Sensitive Personal
Please do not amend the subject line of this email

Dear Emily

Re: Site Search for Schedule 11 Hazardous Chemicals on premises Application – Result not found

I refer to your application for a Site Search for Schedule 11 Hazardous Chemicals on premises, received by SafeWork NSW on 29 November 2022 for the following site: 176 Thomas Street Broken Hill NSW.

A search of the records held by SafeWork NSW has not located any records pertaining to the above-mentioned premises.

If you have any further information or if you have any questions, please use one of the following options, quoting the SafeWork NSW enquiry reference number: 00779823

- Email: licensing@safework.nsw.gov.au
- Phone: 13 10 50

Kind regards

Kim Brearley
Licensing Representative
SafeWork NSW | Better Regulation Division
Department of Customer Service
p- 13 10 50
e- licensing@safework.nsw.gov.au | www.customerservice.nsw.gov.au
Level 3, 32 Mann Street, Gosford, NSW 2250



We are always looking for ways that we can improve our services. You may be contacted by email in the next few weeks to complete a short survey and provide us with your feedback on what we did well and where we can improve. If you do not wish to participate in our surveys, please email us at: licensingQA@customerservice.nsw.gov.au and we will ensure that you are not contacted.

Tax Invoice.pdf 

ref:_00D281hl6J._5004aA0IHV:ref

Appendix I Loose Fill Asbestos Register

Loose-fill asbestos insulation register

Listen (https://app-oc.readspeaker.com/cgi-bin/rsent?customerid=7371&lang=en_au&readid=page-content&url=https://www.fairtrading.nsw.gov.au/loose-fill-asbestos-insulation-register)

Look up the premises address

Please enter exact address information (including street type) of the address you wish to search (Note, the search fields are not case sensitive).

If a match is found, the premises has been identified as containing loose-fill asbestos insulation.

Results will only appear if an exact match of an address is found.

(The fields marked with * are required.)

No Match Found - A search match was not found in the Loose-fill Asbestos Insulation Register

Address searched: 176 thomas Street Broken hill 2880

This information is correct at the time of the search

Unit	
Street number*	
Street name*	
Street type*	Alley
Suburb*	
Postcode	

Submit

Appendix J Calibration records and Field Data Sheets

FIELD GAUGING SHEET

JBS&G

Job Number: 63879

Date: 5/2/23

Gauging By: AJ

~~Dipper~~ / IP: Geotech

Well ID	DTP (m)	SWL (m)	Total Depth (m)	Product Depth (m)
MH-B3 (GW01)	-	1.885	11.96	-
MH-B8 (GW02)	-	1.200	11.98	-
ED-B2 (GW03)	-	2.105	11.90	-

GROUNDWATER WELL FIELD SAMPLING SHEET

Project Number:	63879	WELL ID	GW01
Client:	HI	Purging date:	5/2/23
Site Location:	BHHR	Sampling date:	5/2/23
Field Sampler(s):	(A) JA JB	Stick up (m):	
Casing Diameter (mm):	50mm / 100mm / 150mm	Depth to NAPL (mBTOC):	
Well completion:	Gatic / Standpipe	Depth to SWL (mBTOC):	1.885
Cap type:	Envirocap / PVC End cap	NAPL thickness (m):	
Well condition:	Comprimised / Good	Well Depth (mBTOC):	11.96
Sampling method:	Purge / Low Flow / Manifold	Water Column Depth (m)	
	Low Flow: Pump submersion depth (mBTOC): 10.5		Sampling SWL (mBTOC):

Volume Purged	Dissolved Oxygen	Electrical Conductivity	pH	Redox Potential	Temperature	Comments	Time
L	ppm	µS/cm @25°C	pH units	mV	°C	SWL for low flow (mBTOC)	
0.5	0.95	7062	6.72	111	25.5	2.070	11.12
0.8	0.75	7110	6.80	105	25.8	2.110	11.15
1.0	0.73	7077	6.83	101	25.6	2.110	11.18
1.3	0.80	7095	6.83	100	25.8	2.110	11.21
1.6	0.79	7103	6.84	99	25.6	2.110	11.24
1.9	0.76	7090	6.84	98	25.5	2.110	11.27
2.2	0.79	7099	6.84	98	25.6	2.110	11.30
Acceptable Variation	+/-10%	+/-5%	+/- 0.1pH unit	+/- 10mV	+/- 0.1 °C	Field results acceptable:	YES / NO

LOW FLOW: Max. flow rate = 0.5 L/min - Max. drawdown = 0.1 m - Well stable when 3 consecutive readings of 3 parameters (either 3min apart or 1L apart)

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

Turbidity	High / Medium / (Low)	Hydrocarbon sheen?	YES / (NO)
Colour:	Clear	Odour:	No
Shaker Test:	yes	Foam Observed	~~No~~ Low

Primary sample ID:	GW01	*Analyte*	*No.*	*Bottle/label colour (Eurofins)*
Duplicate (intra) sample ID:	—	Metals	1	plastic - red/orange (preserved) ~60ml
Triplicate (inter) sample ID:	—	Inorganic	1	plastic - green (unpreserved) ~500ml
Rinse blank after?	(YES) / NO ID:	Semi Vols.	2x500	Amber Glass - orange (unpreserved) ~ 200ml
Samples filtered for metals?	(YES) / NO	Volitiles	4	Glass Vials (x2) - pink (preserved) ~ 40ml
Filter Method:	0.45um stericup filter	Nutrients		plastic - purple (preserved) ~60ml
Water Quality Meter:	YSI	Cyanide/ Cr6+		plastic - aqua blue (preserved) ~60ml
Dipper / Interface probe:	Geotech	Microbiological		plastic - black/red (preserved) ~500ml
Pump:	QED	PFAS	1	plastic - blue (unpreserved) ~600ml

Notes: screened 12-6m

55:5 too fast, slowed to 85:5, then recharge increased & 55:5 was ok

GROUNDWATER WELL FIELD SAMPLING SHEET

JBS&G

Project Number:	53879	WELL ID	GW02
Client:	HI	Purging date:	5/2/23
Site Location:	BHHR	Sampling date:	5/2/23
Field Sampler(s):	AJ (A) JB	Stick up (m):	-
Casing Diameter (mm):	50mm / 100mm / 150mm	Depth to NAPL (mBTOC):	-
Well completion:	Gatic / Standpipe	Depth to SWL (mBTOC):	1.200
Cap type:	Enviroplug / PVC End cap	NAPL thickness (m):	-
Well condition:	Comprimised / Good	Well Depth (mBTOC):	11.98
Sampling method:	Purge / Low Flow / Manifold	Water Column Depth (m)	
	Low Flow: Pump submersion depth (mBTOC): 10.5	Sampling SWL (mBTOC):	

Volume Purged	Dissolved Oxygen	Electrical Conductivity	pH	Redox Potential	Temperature	Comments	Time
L	ppm	µS/cm @25°C	pH units	mV	°C	SWL for low flow (mBTOC)	
0.5	0.73	5834	6.17	126	24.4	1.440	9.57
0.8	0.82	5788	5.90	133	24.3	1.530	10.00
1.0	0.70	5819	5.75	136	24.5	1.540	10.03
1.2	0.67	5805	5.71	137	24.4	1.550	10.06
1.4	0.65	5803	5.66	136	24.5	1.560	10.09
1.6	1.00	5886	5.68	139	24.6	1.560	10.12
1.8	1.10	5930	5.66	140	25.1	1.560	10.15
Acceptable Variation	+/-10%	+/-5%	+/- 0.1pH unit	+/- 10mV	+/- 0.1 °C	Field results acceptable:	YES / NO

LOW FLOW: Max. flow rate = 0.5 L/min - Max. drawdown = 0.1 m - Well stable when 3 consecutive readings of 3 parameters (either 3min apart or 1L apart)

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

moved flow cell with readings

2.0	1.09	5898	5.63	140	24.9	1.560	10.18
2.2	1.12	5881	5.63	140	24.9	1.560	10.21

Turbidity	High / Medium / Low	Hydrocarbon sheen?	YES / NO
Colour:	clear	Odour:	No
Shaker Test:	yes	Foam Observed	~~PRESENT~~ Low

		Analyte	No.	Bottle/label colour (Eurofins)
Primary sample ID:	GW02	Metals	1	plastic - red/orange (preserved) ~60ml
Duplicate (intra) sample ID:	-	Inorganic	1	plastic - green (unpreserved) ~500ml
Triplicate (inter) sample ID:	-	Semi Vols.	2x500	Amber Glass - orange (unpreserved) ~ 200ml
Rinse blank after?	YES / NO ID:	Volitiles	4	Glass Vials (x2) - pink (preserved) ~ 40ml
Samples filtered for metals?	YES / NO	Nutrients		plastic - purple (preserved) ~60ml
Filter Method:	0.45um stericup filter	Cyanide/ Cr6+		plastic - aqua blue (preserved) ~60ml
Water Quality Meter:	YSI	Microbiological		plastic - black/red (preserved) ~500ml
Dipper / Interface probe:	Geotech	PFAS	1	plastic - blue (unpreserved) ~600ml
Pump:	QED			

Notes: screened 12-3m

1 CM (55:5) too fast, slowed to 85:5 for more stable level

GROUNDWATER WELL FIELD SAMPLING SHEET

JBS&G

Project Number:	63879	WELL ID	GW03
Client:	HI	Purging date:	5/2/23
Site Location:	BMAR	Sampling date:	5/2/23
Field Sampler(s):	(AJ) A JB	Stick up (m):	-
Casing Diameter (mm):	(50mm) / 100mm / 150mm	Depth to NAPL (mBTOC):	-
Well completion:	(Gatic) / Standpipe	Depth to SWL (mBTOC):	2.105
Cap type:	Envirocap / (PVC End cap)	NAPL thickness (m):	-
Well condition:	Comprimised / (Good)	Well Depth (mBTOC):	11.90
Sampling method:	Purge / (Low Flow) / Manifold	Water Column Depth (m)	
	Low Flow: Pump submersion depth (mBTOC): 10.5		Sampling SWL (mBTOC):

Volume Purged	Dissolved Oxygen	Electrical Conductivity	pH	Redox Potential	Temperature	Comments	Time
L	ppm	µS/cm @25°C	pH units	mV	°C	SWL for low flow (mBTOC)	
0.5	2.42	4225	7.25	92	25.0	2.180	8.04
0.8	1.99	4269	7.20	91	25.3	2.180	8.07
1.1	1.94	4257	7.16	90	25.5	2.180	8.11
1.4	1.83	4262	7.14	89	25.4	2.180	8.14
1.7	1.81	4268	7.14	89	25.3	2.180	8.17
2.0	1.80	4265	7.13	88	25.4	2.180	8.20
Acceptable Variation	+/-10%	+/-5%	+/- 0.1pH unit	+/- 10mV	+/- 0.1 °C	Field results acceptable:	(YES) / NO

LOW FLOW: Max. flow rate = 0.5 L/min - Max. drawdown = 0.1 m - Well stable when 3 consecutive readings of 3 parameters (either 3min apart or 1L apart)

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

Turbidity	High / Medium / (Low)	Hydrocarbon sheen?	YES / (NO)
Colour:	clear	Odour:	NO
Shaker Test:	yes	Foam Observed	Nil

Primary sample ID:	GW03	*Analyte*	*No.*	*Bottle/label colour (Eurofins)*
Duplicate (intra) sample ID:	DUP01	Metals	1	plastic - red/orange (preserved) ~60ml
Triplicate (inter) sample ID:	SPLIT01	Inorganic	1	plastic - green (unpreserved) ~500ml
Rinse blank after?	YES / (NO) ID:	Semi Vols.	2 + 500	Amber Glass - orange (unpreserved) ~ 200ml
Samples filtered for metals?	(YES) / NO	Volitiles	4	Glass Vials (x2) - pink (preserved) ~ 40ml
Filter Method:	0.45um stericup filter	Nutrients		plastic - purple (preserved) ~60ml
Water Quality Meter:	451	Cyanide/ Cr6+		plastic - aqua blue (preserved) ~60ml
Dipper / Interface probe:	Geotech	Microbiological		plastic - black/red (preserved) ~500ml
Pump:	QED	PFAS	1	plastic - blue (unpreserved) ~600ml

Notes: screened 12-3m

QED 1CPM (55:5), 40 psi

Multi Parameter Water Meter

Instrument **YSI Quatro Pro Plus**
Serial No. **10E101054**

airmet
Air-Met Scientific Pty Ltd
1300 137 067

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

Certificate of Calibration

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

Diffusion mode Aspirated mode

Sensor	Serial no	Standard Solutions	Certified	Solution Bottle Number	Instrument Reading
1. pH 7.00		pH 7.00		386467	pH 7.00
2. pH 4.00		pH 4.00		389384	pH 4.00
3. mV		225.10 mV		355024/355023	229.2 mV
4. EC		2.76ms		385407	2.71mS
6. D.O		0 ppm		10640	0 ppm
7. Temp		25		MultiThem	25.2

Calibrated by: **Anthony Marafioti**

Calibration date: **1-Feb-23**

Calibration Due: **4-Mar-23**

Appendix K Borehole Logs

BOREHOLE ED-B1

PROJECT NUMBER 63879	**DRILLING COMPANY** GTE	**EASTING** N/A
PROJECT NAME Broken Hill Hospital Redevelopr	**DRILLING DATE** 02-Feb-23	**NORTHING** N/A
CLIENT Health Infrastructure	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS 176 Thomas Street, Broken Hill, NSW	**DRILLING METHOD** Solid Flight Auger	**COORD SOURCE**
	DIMENSIONS x m	**LOGGED BY** AJ

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
SFA		0.1 – 1.4		Fill	Fill - Clayey, gravelly SAND, brown damp, medium plasticity well graded, medium sand	DP	ED-B1_0.0-1.0 ED-B1_0.20-0.30 ED-B1_0.40-0.50 ED-B1_0.9-1.0		No odour, staining or ACM. 20L AQ completed from 0.0-0.1 mbgs. DUP/SPLIT02 collected from 0.4-0.5 mbgs.
		1.4 – 2		SG	Natural - Gravelly SAND, grey/brown moist, well graded, medium sand	M	ED-B1_1.40-1.50 ED-B1_1.90-2.00		No odour, staining or ACM
		2 – 2.5			Termination Depth at: 2.00 m.				End of Hole @ 2.0 mbgs. Programmed depth.

BOREHOLE ED-B2

PROJECT NUMBER 63879
PROJECT NAME Broken Hill Hospital Redevelopr
CLIENT Health Infrastructure
ADDRESS 176 Thomas Street, Broken Hill, NSW

DRILLING COMPANY MacGeo
DRILLING DATE 04-Feb-23
DRILL RIG N/A
DRILLING METHOD Solid Flight Auger
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_54
COORD SOURCE
LOGGED BY AJ

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
SFA		0.1		Bitumen	Fill - BITUMEN		ED-B2_0.0-0.3		No odour, staining or ACM
				Fill	Fill - ROADBASE, grey dry, medium gravel	DR			No odour, staining or ACM. 5L AQ completed from 0.0-0.3 mbgs
		0.2		Fill	Fill - Silty SAND, yellow/brown dry, low plasticity fine sand trace fine gravel (<5%), refusal with auger at 0.6 m, inferred natural bedrock beneath	DR	ED-B2_0.20-0.30		No odour, staining or ACM
		0.3							
		0.4							
		0.5					ED-B2_0.50-0.60		
		0.6			Termination Depth at: 0.60 m.				End of Hole @ 0.6 mbgs. Refusal on rock.
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							
		2.2							
		2.3							
		2.4							
		2.5							

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BOREHOLE ED-B3

PROJECT NUMBER 63879
PROJECT NAME Broken Hill Hospital Redevelopr
CLIENT Health Infrastructure
ADDRESS 176 Thomas Street, Broken Hill, NSW

DRILLING COMPANY MacGeo
DRILLING DATE 04-Feb-23
DRILL RIG N/A
DRILLING METHOD Solid Flight Auger
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_54
COORD SOURCE
LOGGED BY AJ

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
SFA		0.1		Bitumen	Fill - BITUMEN		ED-B3_0.0-0.7		No odour, staining or ACM
		0.2		Fill	Fill - ROADBASE, grey dry, well graded, medium sand	DR	ED-B3_0.20-0.30		No odour, staining or ACM. 5L AQ completed from 0.0-0.7 mbgs
		0.3							
		0.4							
		0.5					ED-B3_0.50-0.60		
		0.6							
		0.7							
		0.8		SG	Natural - Crushed, gravelly SAND, yellow/brown/grey dry, well graded, fine sand	DR	ED-B3_0.70-0.80		No odour, staining or ACM
		0.9			Termination Depth at: 0.80 m.				End of Hole @ 0.8.
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							
		2.2							
		2.3							
		2.4							
		2.5							

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BOREHOLE ED-B4

PROJECT NUMBER 63879	**DRILLING COMPANY** JBS&G	**EASTING** N/A
PROJECT NAME Broken Hill Hospital Redevelopr	**DRILLING DATE** 04-Feb-23	**NORTHING** N/A
CLIENT Health Infrastructure	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS 176 Thomas Street, Broken Hill, NSW	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIMENSIONS x m	**LOGGED BY** AJ

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - GRAVEL dry, medium gravel	DR			No odour, staining or ACM
		0.2		RWN	Fill - SAND, red/brown dry, well graded, fine sand	DR	ED-B4_0.1-0.5		No odour, staining or ACM. 10L AQ completed from 0.1-0.5
		0.3							
		0.4					ED-B4_0.40-0.50		
		0.5		SG	Natural - Crushed/weathered, gravelly SAND, grey dry, well graded, medium sand	DR	ED-B4_0.50-0.60		No odour, staining or ACM
		0.6			Termination Depth at: 0.60 m.				End of Hole @ 0.6 mbgs. Refusal on rock.
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							
		2.2							
		2.3							
		2.4							
		2.5							

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BOREHOLE ED-B5

PROJECT NUMBER 63879
PROJECT NAME Broken Hill Hospital Redevelopr
CLIENT Health Infrastructure
ADDRESS 176 Thomas Street, Broken Hill, NSW

DRILLING COMPANY GTE
DRILLING DATE 02-Feb-23
DRILL RIG N/A
DRILLING METHOD Solid Flight Auger
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_54
COORD SOURCE
LOGGED BY AJ

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
SFA		0.1		Fill	Fill - SAND, red/brown damp, well graded, fine sand	DP	ED-B5_0.0-0.3		Thin grey layer on surface, no odour, staining or ACM
		0.2					ED-B5_0.20-0.30		
		0.3		GC-GS	Natural - Clayey, sandy GRAVEL, grey/brown damp, low plasticity well graded, medium gravel	DP	ED-B5_0.30-0.40		No odour, staining or ACM
		0.4							
		0.5							
		0.6							
		0.7							
		0.8							
		0.9					ED-B5_0.90-1.00		
		1			Termination Depth at: 1.00 m.				End of Hole @ 1.0 mbgs. Programmed depth.
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							
		2.2							
		2.3							
		2.4							
		2.5							

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BOREHOLE ED-B6

PROJECT NUMBER 63879
PROJECT NAME Broken Hill Hospital Redevelopr
CLIENT Health Infrastructure
ADDRESS 176 Thomas Street, Broken Hill, NSW

DRILLING COMPANY GTE
DRILLING DATE 02-Feb-23
DRILL RIG N/A
DRILLING METHOD Solid Flight Auger
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_54
COORD SOURCE
LOGGED BY AJ

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
SFA		0.1		Fill	Fill - GRAVEL, white dry, medium gravel	DR			No odour, staining or ACM
		0.2		Fill	Fill - SAND, red/brown damp, well graded, fine sand	DP	ED-B6_0.1-0.3		No odour, staining or ACM
		0.3					ED-B6_0.20-0.30		
		0.4		Fill	Fill - Gravelly, clayey SAND, grey damp, medium plasticity well graded, fine sand with water pipe at base of hole (1.0 - 1.1)	DR	ED-B6_0.30-0.40		No odour, staining or ACM
		0.5							
		0.6							
		0.7							
		0.8							
		0.9					ED-B6_0.90-1.00		
		1			Termination Depth at: 1.00 m.				End of Hole @ 1.0 mbgs. PVC pipe encountered at EOH.
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							
		2.2							
		2.3							
		2.4							
		2.5							

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BOREHOLE ED-B7

PROJECT NUMBER 63879
PROJECT NAME Broken Hill Hospital Redevelopr
CLIENT Health Infrastructure
ADDRESS 176 Thomas Street, Broken Hill, NSW

DRILLING COMPANY JBS&G
DRILLING DATE 04-Feb-23
DRILL RIG N/A
DRILLING METHOD Hand Auger
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_54
COORD SOURCE
LOGGED BY AJ

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Bitumen	Fill - BITUMEN		ED-B7_0.00-0.20		No odour, staining or ACM
				Fill	Fill - ROADBASE, grey dry, medium gravel	DR			No odour, staining or ACM. 10L AQ completed from 0.0-0.2
		0.2		RWN	Fill - Gravelly CLAY, red/brown damp, high plasticity fine gravel	DP	ED-B7_0.20-0.30		
		0.3		CL-GM-ML	Natural - Gravelly, silty CLAY, pale brown/red moist, low plasticity fine gravel	M	ED-B7_0.30-0.40		No odour, staining or ACM
		0.4							No odour, staining or ACM
		0.5			Natural - Sandy SILT, pale grey moist, low plasticity medium sand inclusions of medium gravel (<10%), refusal with hand auger at 0.65 m, inferred natural bedrock/hard ground beneath				
		0.6		ML-SM		M	ED-B7_0.50-0.65		No odour, staining or ACM
		0.7			Termination Depth at: 0.65 m.				End of Hole @ 0.65. Refusal on rock/hard ground
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							
		2.2							
		2.3							
		2.4							
		2.5							

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produced by ESlog.ESdat.net on 08 Mar 2023

BOREHOLE ED-B8

PROJECT NUMBER 63879
PROJECT NAME Broken Hill Hospital Redevelopr
CLIENT Health Infrastructure
ADDRESS 176 Thomas Street, Broken Hill, NSW

DRILLING COMPANY JBS&G
DRILLING DATE 04-Feb-23
DRILL RIG N/A
DRILLING METHOD Hand Auger
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_54
COORD SOURCE
LOGGED BY AJ

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Bitumen		DR	ED-B8_0.0-0.6		No odour, staining or ACM
		0.2		Fill	Fill - ROADBASE, grey dry, well graded, medium sand inclusions of fine gravels (<10%) and trace cobbles (<5%)	DR			No odour, staining or ACM. 15L AQ completed from 0.0-0.6 mbgs
		0.3					ED-B8_0.30-0.40		
		0.4							
		0.5					ED-B8_0.50-0.60		
		0.6							
		0.7							
		0.8		GC-GS	Natural - Clayey, sandy GRAVEL, red/brown/grey moist, medium plasticity well graded, medium gravel	M	ED-B8_0.8-1.0		No odour, staining or ACM
		0.9							
		1			Termination Depth at: 1.00 m.				End of Hole @ 1.0 mbgs. Programmed depth.
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							
		2.2							
		2.3							
		2.4							
		2.5							

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BOREHOLE ED-B9

PROJECT NUMBER 63879
PROJECT NAME Broken Hill Hospital Redevelopr
CLIENT Health Infrastructure
ADDRESS 176 Thomas Street, Broken Hill, NSW

DRILLING COMPANY JBS&G
DRILLING DATE 04-Feb-23
DRILL RIG N/A
DRILLING METHOD Hand Auger
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_54
COORD SOURCE
LOGGED BY AJ

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - Clayey, sandy GRAVEL, grey/brown dry, low plasticity well graded, fine gravel	DR	ED-B9_0.00-0.10		No odour, staining or ACM. Damaged brown irrigation pipe at top of hole, was repaired.
		0.2		Fill	Fill - SAND, red/brown damp, well graded, fine gravel	DP	ED-B9_0.1-0.5		No odour, staining or ACM
		0.3							
		0.4							
		0.5			Natural - Gravelly SAND, grey damp, well graded, medium sand refusal with hand auger at 0.6 m, inferred natural bedrock beneath				
		0.6		SG		DP	ED-B9_0.50-0.60		No odour, staining or ACM
		0.7			Termination Depth at: 0.60 m.				End of Hole @ 0.6 m. Refusal on rock.
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							
		2.2							
		2.3							
		2.4							
		2.5							

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TEST PIT MH-B1

PROJECT NUMBER 63879	**DRILLING COMPANY** JBS&G	**EASTING** N/A
PROJECT NAME Broken Hill Hospital Redevelopr	**DRILLING DATE** 03-Feb-23	**NORTHING** N/A
CLIENT Health Infrastructure	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS 176 Thomas Street, Broken Hill, NSW	**DRILLING METHOD** Hand Excavation (Shovel)	**COORD SOURCE**
	DIMENSIONS x m	**LOGGED BY** AJ

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HE		0.1		Fill	Fill - Silty SAND, brown wet, low plasticity well graded, fine sand	W	MH-B1_0.00-0.10		No odour, staining or ACM. Sample too wet to sieve.
		0.2		Fill	Fill - Gravelly SAND, grey/brown wet, well graded, medium sand	W	MH-B1_0.10-0.20		No odour, staining or ACM. Sample too wet to sieve.
		0.3		Fill	Fill - Sandy CLAY, red/brown wet, medium plasticity	W	MH-B1_0.20-0.30		No odour, staining or ACM. Sample too wet to sieve.
		0.4			Termination Depth at: 0.30 m.				End of Hole @ 0.3 mbgs upon suspected service.
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							
		2.2							
		2.3							
		2.4							
		2.5							

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BOREHOLE MH-B2

PROJECT NUMBER 63879	**DRILLING COMPANY** GTE	**EASTING** N/A
PROJECT NAME Broken Hill Hospital Redevelopr	**DRILLING DATE** 03-Feb-23	**NORTHING** N/A
CLIENT Health Infrastructure	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS 176 Thomas Street, Broken Hill, NSW	**DRILLING METHOD** Solid Flight Auger	**COORD SOURCE**
	DIMENSIONS x m	**LOGGED BY** AJ

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
SFA		0.1		Concrete	Fill - CONCRETE				No odour, staining or ACM
		0.2		Fill	Fill - ROADBASE, grey/brown dry, well graded, fine gravel	DR	MH-B2_0.2-0.8		No odour, staining or ACM. 20L AQ completed from 0.2-0.8 mbgs.
		0.3							
		0.4					MH-B2_0.40-0.50		
		0.5							
		0.6							
		0.7							
		0.8		CL-ML	Natural - Silty CLAY, red/brown damp, medium plasticity trace medium gravels (<5%)	DP	MH-B2_0.80-0.90		No odour, staining or ACM
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4					MH-B2_1.40-1.50		
		1.5			Termination Depth at: 1.50 m.				End of Hole @ 1.5 mbgs. Programmed depth.
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							
		2.2							
		2.3							
		2.4							
		2.5							

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BOREHOLE MH-B3

PROJECT NUMBER 63879	**DRILLING COMPANY** JBS&G	**EASTING** N/A
PROJECT NAME Broken Hill Hospital Redevelopr	**DRILLING DATE** 03-Feb-23	**NORTHING** N/A
CLIENT Health Infrastructure	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS 176 Thomas Street, Broken Hill, NSW	**DRILLING METHOD** Hand Auger	**COORD SOURCE**
	DIMENSIONS x m	**LOGGED BY** AJ

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - SAND, red/brown damp, well graded, fine sand	DP	MH-B3_0.0-0.6		No odour, staining or ACM. 20L AQ completed from 0.0-0.6 mbgs.
		0.2					MH-B3_0.20-0.30		
		0.3							
		0.4							
		0.5					MH-B3_0.50-0.60		
		0.6		Fill	Fill - GRAVEL, black/grey dry, medium sand	DR			No odour, staining or ACM
		0.7							No odour, staining or ACM. 5L AQ completed from 0.8-1.0 mbgs. DUP/SPLIT03 collected from 0.8-1.0 mbgs.
		0.8		Fill	Fill - Gravelly SAND, grey/red/brown damp, coarse sand with clay fines (<10%)	DP	MH-B3_0.8-1.0		
		0.9							
		1			Termination Depth at: 1.00 m.				End of Hole @ 1.0 mbgs. Proximal to service.
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							
		2.2							
		2.3							
		2.4							
		2.5							

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BOREHOLE MH-B4

PROJECT NUMBER 63879	**DRILLING COMPANY** MacGeo	**EASTING** N/A
PROJECT NAME Broken Hill Hospital Redevelopr	**DRILLING DATE** 03-Feb-23	**NORTHING** N/A
CLIENT Health Infrastructure	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS 176 Thomas Street, Broken Hill, NSW	**DRILLING METHOD** Solid Flight Auger	**COORD SOURCE**
	DIMENSIONS x m	**LOGGED BY** AJ

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
SFA		0.1		Bitumen	Fill - BITUMEN		MH-B4_0.0-0.6		No odour, staining or ACM
		0.2		Fill	Fill - ROADBASE, grey dry, medium gravel	DR			No odour, staining or ACM
		0.3					MH-B4_0.20-0.30		
		0.4							
		0.5							
		0.6		CL-ML-GM	Natural - Silty, gravelly CLAY, red/grey		MH-B4_0.60-0.70		No odour, staining or ACM
		0.7							
		0.8		Bedrock	Natural - Gravelly BEDROCK, grey				No odour, staining or ACM
		0.9							
		1			Termination Depth at: 1.00 m.				End of Hole @ 1.0 mbgs. Programmed depth.
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							
		2.2							
		2.3							
		2.4							
		2.5							

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BOREHOLE MH-B5

PROJECT NUMBER 63879
PROJECT NAME Broken Hill Hospital Redevelopr
CLIENT Health Infrastructure
ADDRESS 176 Thomas Street, Broken Hill, NSW

DRILLING COMPANY GTE
DRILLING DATE 02-Feb-23
DRILL RIG N/A
DRILLING METHOD Solid Flight Auger
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_54
COORD SOURCE
LOGGED BY AJ

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
SFA		0.1		Bitumen	Fill - BITUMEN	DR	MH-B5_0.0-0.9		No odour, staining or ACM
				Fill	Fill - Sandy GRAVEL, grey dry, medium gravel	DR			
		0.2		Fill	Fill - Gravelly CLAY, red/brown dry, medium plasticity inclusions of cobbles, medium sand (<10%), red brick pieces, tile, ceramic pipe (<5%)	DR	MH-B5_0.10-0.20		No odour, staining or ACM
		0.3							No odour, staining or ACM. 20L AQ completed from 0.0-0.9 mbgs.
		0.4					MH-B5_0.40-0.50		
		0.5							
		0.6							
		0.7							
		0.8					MH-B5_0.80-0.90		
		0.9			Termination Depth at: 0.90 m.				End of Hole @ 0.9 mbgs. Refusal on gravels.
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							
		2.2							
		2.3							
		2.4							
		2.5							

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BOREHOLE MH-B6

PROJECT NUMBER 63879
PROJECT NAME Broken Hill Hospital Redevelopr
CLIENT Health Infrastructure
ADDRESS 176 Thomas Street, Broken Hill, NSW

DRILLING COMPANY GTE
DRILLING DATE 02-Feb-23
DRILL RIG N/A
DRILLING METHOD Solid Flight Auger
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_54
COORD SOURCE
LOGGED BY AJ

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
SFA		0.1		Bitumen	Fill - BITUMEN		MH-B6_0.0-0.6		No odour, staining or ACM
		0.2		Fill	Fill - Clayey, gravelly SAND, grey/red/brown dry, medium plasticity well graded, medium sand inclusions of red brick fragments (<10%)	DR	MH-B6_0.20-0.30		No odour, staining or ACM. 20L AQ completed from 0.0-0.6 mbgs.
		0.3							
		0.4					MH-B6_0.40-0.50		
		0.5							
		0.6			Natural - Clayey, gravelly, weathered SAND, grey damp, medium plasticity fine sand with natural bedrock at base of hole				
		0.7		SC		DP	MH-B6_0.60-0.70		No odour, staining or ACM
		0.8			Termination Depth at: 0.70 m.				End of Hole @ 0.7 mbgs. Refusal on hard rock.
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							
		2.2							
		2.3							
		2.4							
		2.5							

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BOREHOLE MH-B7

PROJECT NUMBER 63879
PROJECT NAME Broken Hill Hospital Redevelopr
CLIENT Health Infrastructure
ADDRESS 176 Thomas Street, Broken Hill, NSW

DRILLING COMPANY GTE
DRILLING DATE 02-Feb-23
DRILL RIG N/A
DRILLING METHOD Solid Flight Auger
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_54
COORD SOURCE
LOGGED BY AJ

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
SFA		0.1		Bitumen	Fill - BITUMEN		MH-B7_0.0-1.0		No odour, staining or ACM
		0.2		Fill	Fill - Gravelly SAND, grey/brown dry, well graded, medium sand inclusions of roadbase, weathered natural rock and fine clay	DR	MH-B7_0.20-0.30		No odour, staining or ACM. 20L AQ completed from 0.0-0.1 mbgs. DUP/SPLIT01 collected from 0.9-1.0 mbgs.
		0.3							
		0.4					MH-B7_0.40-0.50		
		0.5							
		0.6							
		0.7							
		0.8							
		0.9					MH-B7_0.9-1.0		
		1							
		1.1					MH-B7_1.10-1.20		
		1.2			Termination Depth at: 1.20 m.				End of Hole @ 1.2 mbgs.
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							
		2.2							
		2.3							
		2.4							
		2.5							

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BOREHOLE MH-B8

PROJECT NUMBER 63879
PROJECT NAME Broken Hill Hospital Redevelopr
CLIENT Health Infrastructure
ADDRESS 176 Thomas Street, Broken Hill, NSW

DRILLING COMPANY GTE
DRILLING DATE 02-Feb-23
DRILL RIG N/A
DRILLING METHOD Solid Flight Auger
DIMENSIONS x m

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_54
COORD SOURCE
LOGGED BY AJ

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
SFA		0.1		Asphalt	Fill - ASPHALT				No odour, staining or ACM
		0.2		Fill	Fill - Silty GRAVEL, grey dry, medium gravel	DR	MH-B8_0.1-0.3		No odour, staining or ACM. 10L AQ completed from 0.1-0.3 mbgs.
		0.3		RWN	Fill - Silty, gravelly CLAY, red damp, medium plasticity	DP	MH-B8_0.3-0.5		No odour, staining or ACM. 10L AQ completed from 0.3-0.5 mbgs.
		0.4					MH-B8_0.40-0.50		
		0.5		CL-ML	Natural - CLAY, red damp, high plasticity	DP	MH-B8_0.50-0.60		No odour, staining or ACM
		0.6							
		0.7							
		0.8							
		0.9							
		1					MH-B8_0.90-1.00		
		1.1			Termination Depth at: 1.00 m.				End of Hole @ 1.0 mbgs. Programmed depth.
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							
		2.2							
		2.3							
		2.4							
		2.5							

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BOREHOLE MH-B9

PROJECT NUMBER 63879	**DRILLING COMPANY** GTE	**EASTING** N/A
PROJECT NAME Broken Hill Hospital Redevelopr	**DRILLING DATE** 02-Feb-23	**NORTHING** N/A
CLIENT Health Infrastructure	**DRILL RIG** N/A	**COORD SYS** GDA94_MGA_zone_54
ADDRESS 176 Thomas Street, Broken Hill, NSW	**DRILLING METHOD** Solid Flight Auger	**COORD SOURCE**
	DIMENSIONS x m	**LOGGED BY** AJ

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
SFA		0.1		Bitumen	Fill - BITUMEN		MH-B9_0.0-0.5		No odour, staining or ACM
				Fill	Fill - ROADBASE, grey dry, well graded, medium sand	DR			No odour, staining or ACM
		0.2		Fill	Fill - Gravelly, clayey SAND, gre/red/brown damp, medium plasticity fine sand	DP	MH-B9_0.20-0.30		No odour, staining or ACM
		0.3							
		0.4							
		0.5		CL-ML	Natural - Silty CLAY, red/brown damp, medium plasticity	DP	MH-B9_0.50-0.60		No odour, staining or ACM
		0.6							
		0.7							
		0.8							
		0.9					MH-B9_0.9-1.0		
		1			Termination Depth at: 1.00 m.				End of Hole @ 1.0 mbgs. Programmed depth.
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							
		2.2							
		2.3							
		2.4							
		2.5							

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TEST PIT MH-B10

PROJECT NUMBER 63879	**DRILLING COMPANY** GTE	**EASTING** N/A
PROJECT NAME Broken Hill Hospital Redevelopr	**DRILLING DATE** 02-Feb-23	**NORTHING** N/A
CLIENT Health Infrastructure	**DRILL RIG** Excavator	**COORD SYS** GDA94_MGA_zone_54
ADDRESS 176 Thomas Street, Broken Hill, NSW	**DRILLING METHOD** Bucket Excavation	**COORD SOURCE**
	DIMENSIONS x m	**LOGGED BY** AJ

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
BE		0.1		Fill	Fill - Sandy CLAY, brown dry, medium plasticity fine sand inclusions of medium gravel, cobbles, red brick fragments, glass, tile, ACM, slag, charcoal, metal, bitumen	DR	MH-B10_0.00-0.20		No odour or staining. 2pc ACM found on surface. AQ completed from 0.0-0.2 mbgs. 1pc ACM in AQ.
		0.2		Fill	Fill - Sandy CLAY, brown dry, low plasticity fine sand inclusions of medium gravel, cobbles, bitumen chunks, ceramic pipe, bricks, poly, ACM, two incactive ceramic pipes at 0.3 m	DR	MH-B10_0.2-1.0A		No odour or staining. AQ completed from 0.2-1.0. 1pc ACM found.
		0.3							
		0.4							
		0.5					MH-B10_0.50-0.60		
		0.6							
		0.7							
		0.8							
		0.9							
		1		CL	Natural - CLAY, red/brown damp, high plasticity	DP	MH-B10_1.00-1.20		No odour, staining or ACM
		1.1							
		1.2							
		1.3							
		1.4					MH-B10_1.40-1.50		
		1.5		CL	Natural - CLAY, red/brown with calcareous mottling damp, medium plasticity fine sand	DP			No odour, staining or ACM
		1.6							
		1.7							
		1.8							
		1.9							
		2		CL-SG	Natural - Sandy, gravelly CLAY, dark red/brown moist, low plasticity fine sand black mica/schist	M			No odour, staining or ACM
		2.1							
		2.2							
		2.3							
		2.4							
		2.5			Termination Depth at: 2.50 m.				End of Hole @ 2.5 mbgs. Programmed

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PSM
Engineering Consultants
Rock - Soil - Water

JOB no.: PSM4951

PROJECT: Broken Hill Hospital

PIEZOMETER CONSTRUCTION RECORD

HOLE NUMBER: BH01
PIEZOMETER: 1
COLLAR EASTING: 542900 m
COLLAR NORTHING: 6465200 m
COLLAR RL(m): 309 m
DATUM: MGA2020 Zone 54

DRILLING CONTRACTOR: MacGeo
RIG: Comacchio Geo 305
DEPTH OF HOLE (m): 12 m
BOREHOLE INCLINATION: -90
PIEZO INSTALLATION DATE: 2/02/2023
SUPERVISED BY: HZ

DRAFT

Tick boxes

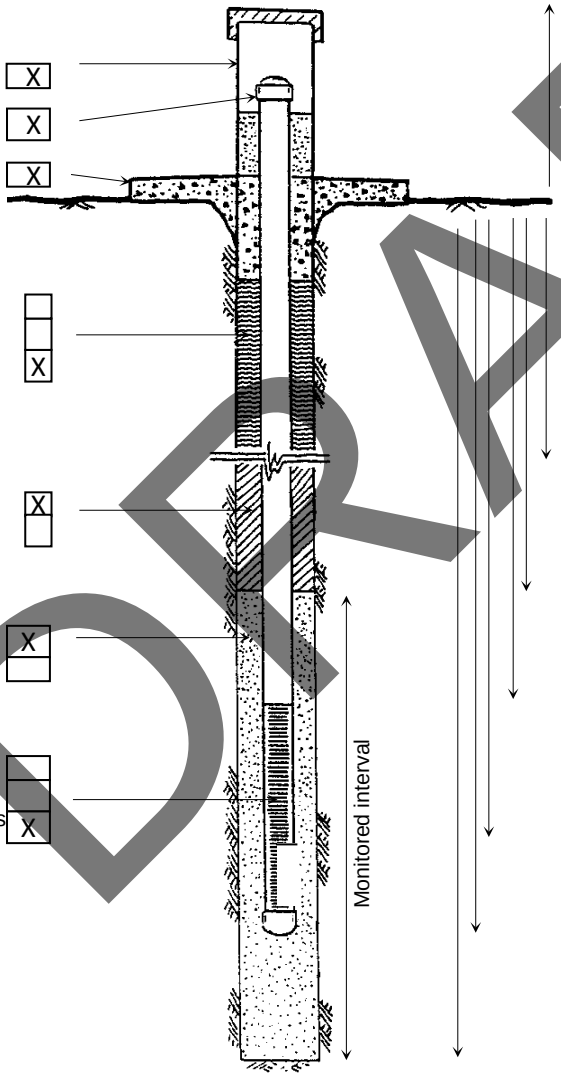
Steel protective well cover [X]
PVC cap [X]
Concrete colar [X]

Back fill type:
Cement bentonite [ ]
Soil [ ]
None [X]

Seal:
Bentonite pellets [X]
Other [ ]

Gravel type:
2-5mm gravel [X]
Other [ ]

Perforation type:
Drill holes [ ]
Hack saw cuts [ ]
40um machine slots [X]



Complete dimensions if appropriate

Height of stickup (m)	0
Diameter of PVC (mm)	50
Depth to top of seal	0
Depth to top of gravel pack	2
Depth to top of screen	3
Depth to base of screen	12
Depth to base of piezo	12
Depth to base of gravel	12

COMMENTS:

PSM
Engineering Consultants
Rock - Soil - Water

JOB no.: PSM4951

PROJECT: Broken Hill Hospital

PIEZOMETER CONSTRUCTION RECORD

HOLE NUMBER: BH03
PIEZOMETER: 2
COLLAR EASTING: 542920 m
COLLAR NORTHING: 6465240 m
COLLAR RL(m): 309 m
DATUM: MGA2020 Zone 54

DRILLING CONTRACTOR: MacGeo
RIG: Comacchio Geo 305
DEPTH OF HOLE (m): 12 m
BOREHOLE INCLINATION: -90
PIEZO INSTALLATION DATE: 1/02/2023
SUPERVISED BY: HZ

DRAFT

Tick boxes

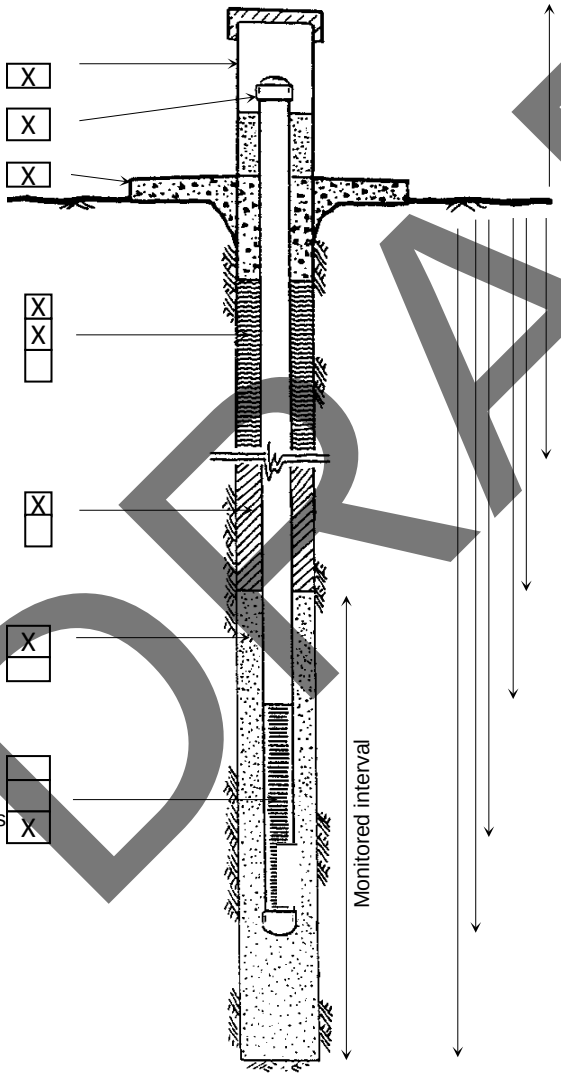
Steel protective well cover [X]
PVC cap [X]
Concrete colar [X]

Back fill type:
Cement bentonite [X]
Soil [X]
None [ ]

Seal:
Bentonite pellets [X]
Other [ ]

Gravel type:
2-5mm gravel [X]
Other [ ]

Perforation type:
Drill holes [ ]
Hack saw cuts [ ]
40um machine slots [X]



Complete dimensions if appropriate

Height of stickup (m)	0
Diameter of PVC (mm)	50
Depth to top of seal	7
Depth to top of gravel pack	8
Depth to top of screen	9
Depth to base of screen	12
Depth to base of piezo	12
Depth to base of gravel	12

COMMENTS:

PSM
Engineering Consultants
Rock - Soil - Water

JOB no.: PSM4951

PROJECT: Broken Hill Hospital

PIEZOMETER CONSTRUCTION RECORD

HOLE NUMBER: BH05
PIEZOMETER: 3
COLLAR EASTING: 543000 m
COLLAR NORTHING: 6465315 m
COLLAR RL(m): 309 m
DATUM: MGA2020 Zone 54

DRILLING CONTRACTOR: MacGeo
RIG: Comacchio Geo 305
DEPTH OF HOLE (m): 12 m
BOREHOLE INCLINATION: -90
PIEZO INSTALLATION DATE: 4/02/2023
SUPERVISED BY: HZ

DRAFT

Tick boxes

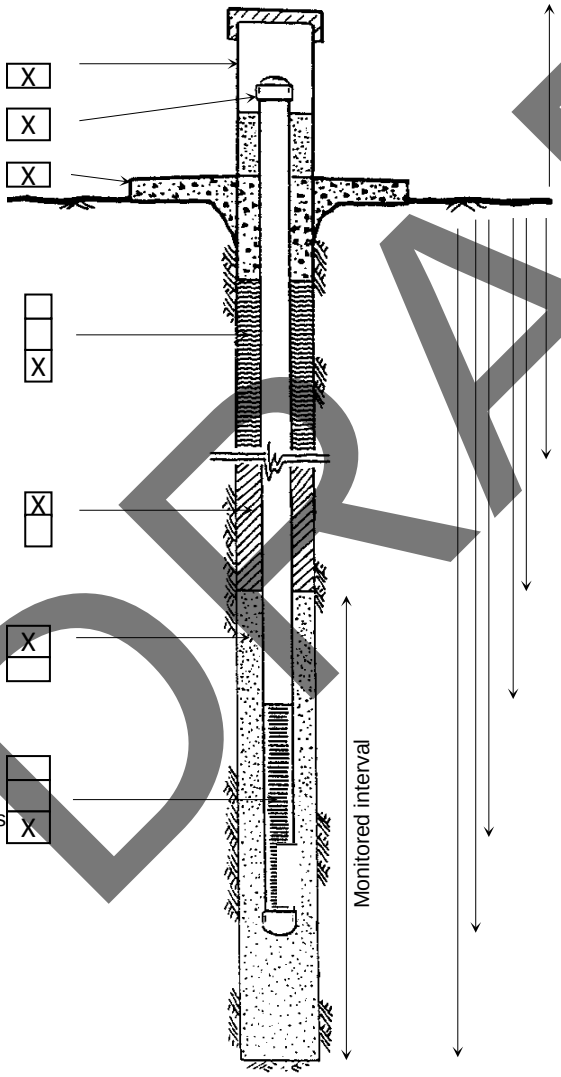
Steel protective well cover [X]
PVC cap [X]
Concrete colar [X]

Back fill type:
Cement bentonite [ ]
Soil [ ]
None [X]

Seal:
Bentonite pellets [X]
Other [ ]

Gravel type:
2-5mm gravel [X]
Other [ ]

Perforation type:
Drill holes [ ]
Hack saw cuts [ ]
40um machine slots [X]



Complete dimensions if appropriate

Height of stickup (m)	0
Diameter of PVC (mm)	50
Depth to top of seal	0
Depth to top of gravel pack	2
Depth to top of screen	6
Depth to base of screen	12
Depth to base of piezo	12
Depth to base of gravel	12

COMMENTS:

Appendix L Laboratory Certificates of Analysis

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

NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: **Mitch Hodgins**

Report **962621-S**
Project name BHHR
Project ID 63879
Received Date Feb 09, 2023

Client Sample ID			**KW-B1_0.0-0.1**	**KW-B1_0.2-0.3**	**KW-B2_0.0-0.1**	**KW-B2_0.3-0.4**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M23-Fe0023564**	**M23-Fe0023565**	**M23-Fe0023567**	**M23-Fe0023570**
Date Sampled			**Feb 03, 2023**	**Feb 03, 2023**	**Feb 03, 2023**	**Feb 03, 2023**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	-	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	-	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	-	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	-	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	-	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	-	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	-	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	-	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	< 100	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	-	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	81	-	98	90
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			KW-B1_0.0-0.1	KW-B1_0.2-0.3	KW-B2_0.0-0.1	KW-B2_0.3-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023564	M23-Fe0023565	M23-Fe0023567	M23-Fe0023570
Date Sampled			Feb 03, 2023	Feb 03, 2023	Feb 03, 2023	Feb 03, 2023
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	0.6	1.1	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	0.6	0.9	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	1.2	2.0	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	70	76	90	93
p-Terphenyl-d14 (surr.)	1	%	75	62	92	104
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	64	-	80	105
Tetrachloro-m-xylene (surr.)	1	%	77	-	99	109
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	64	-	80	105
Tetrachloro-m-xylene (surr.)	1	%	77	-	99	109

Client Sample ID			KW-B1_0.0-0.1	KW-B1_0.2-0.3	KW-B2_0.0-0.1	KW-B2_0.3-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023564	M23-Fe0023565	M23-Fe0023567	M23-Fe0023570
Date Sampled			Feb 03, 2023	Feb 03, 2023	Feb 03, 2023	Feb 03, 2023
Test/Reference	LOR	Unit				
% Clay	1	%	1.0	-	-	-
Conductivity (1:5 aqueous extract at 25 °C as rec.)	10	uS/cm	830	-	-	-
pH (units)(1:5 soil:CaCl2 extract at 25 °C as rec.)	0.1	pH Units	7.5	-	-	-
Total Organic Carbon	0.1	%	0.5	-	-	-
% Moisture	1	%	6.3	6.3	2.3	4.7
Heavy Metals						
Arsenic	2	mg/kg	8.8	6.8	< 2	4.7
Cadmium	0.4	mg/kg	0.6	0.5	< 0.4	< 0.4
Chromium	5	mg/kg	28	28	19	22
Copper	5	mg/kg	29	27	12	21
Iron	20	mg/kg	36000	-	-	-
Lead	5	mg/kg	130	220	28	84
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	22	20	12	19
Zinc	5	mg/kg	210	180	110	170
Heavy Metals						
Iron (%)	0.01	%	3.6	-	-	-
Cation Exchange Capacity						
Cation Exchange Capacity	0.05	meq/100g	34	-	-	-

Client Sample ID			KW-B3_0.1-0.2	KW-B3_0.25-0.3	KW-B4_0.0-0.1	KW-B4_0.1-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023571	M23-Fe0023572	M23-Fe0023575	M23-Fe0023577
Date Sampled			Feb 03, 2023	Feb 03, 2023	Feb 03, 2023	Feb 03, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	-	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	-	< 20
TRH C15-C28	50	mg/kg	160	57	-	< 50
TRH C29-C36	50	mg/kg	53	< 50	-	< 50
TRH C10-C36 (Total)	50	mg/kg	213	57	-	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	-	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	-	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	-	< 50
TRH >C16-C34	100	mg/kg	220	< 100	-	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	220	< 100	-	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	124	95	-	55

Client Sample ID			KW-B3_0.1-0.2	KW-B3_0.25-0.3	KW-B4_0.0-0.1	KW-B4_0.1-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023571	M23-Fe0023572	M23-Fe0023575	M23-Fe0023577
Date Sampled			Feb 03, 2023	Feb 03, 2023	Feb 03, 2023	Feb 03, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	2.3	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	2.5	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	2.8	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	1.3	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	1.8	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	0.9	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	1.1	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	1.4	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	1.6	< 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	0.7	2.7	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	1.1	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	1.0	< 0.5	< 0.5
Pyrene	0.5	mg/kg	0.7	2.9	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	1.4	16	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	72	98	88	54
p-Terphenyl-d14 (surr.)	1	%	76	108	91	56
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05

Client Sample ID			KW-B3_0.1-0.2	KW-B3_0.25-0.3	KW-B4_0.0-0.1	KW-B4_0.1-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023571	M23-Fe0023572	M23-Fe0023575	M23-Fe0023577
Date Sampled			Feb 03, 2023	Feb 03, 2023	Feb 03, 2023	Feb 03, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Dibutylchlorendate (surr.)	1	%	92	106	-	73
Tetrachloro-m-xylene (surr.)	1	%	63	122	-	59
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Dibutylchlorendate (surr.)	1	%	92	106	-	73
Tetrachloro-m-xylene (surr.)	1	%	63	122	-	59
% Moisture	1	%	7.0	8.0	5.5	5.2
Heavy Metals						
Arsenic	2	mg/kg	63	2.5	2.9	5.0
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	1.3
Chromium	5	mg/kg	32	13	16	27
Copper	5	mg/kg	130	51	14	20
Lead	5	mg/kg	16000	160	75	360
Mercury	0.1	mg/kg	0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	88	12	11	13
Zinc	5	mg/kg	320	170	130	380
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dibromoethane	0.5	mg/kg	< 0.5	-	-	-
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	-	-	-
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	-
1.4-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	-	-	-
4-Chlorotoluene	0.5	mg/kg	< 0.5	-	-	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	-	-	-
Allyl chloride	0.5	mg/kg	< 0.5	-	-	-

Client Sample ID			KW-B3_0.1-0.2	KW-B3_0.25-0.3	KW-B4_0.0-0.1	KW-B4_0.1-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023571	M23-Fe0023572	M23-Fe0023575	M23-Fe0023577
Date Sampled			Feb 03, 2023	Feb 03, 2023	Feb 03, 2023	Feb 03, 2023
Test/Reference	LOR	Unit				
Volatile Organics						
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-1.3-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	-	-	-
Isopropyl benzene (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*	0.3	mg/kg	< 0.3	-	-	-
Total MAH*	0.5	mg/kg	< 0.5	-	-	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	-	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	-	-	-
4-Bromofluorobenzene (surr.)	1	%	124	-	-	-
Toluene-d8 (surr.)	1	%	109	-	-	-

Client Sample ID			KW-B5_0.1-0.2	KW-B5_0.4-0.5	KW-B6_0.0-0.1	KW-B6_0.5-0.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023580	M23-Fe0023581	M23-Fe0023584	M23-Fe0023585
Date Sampled			Feb 03, 2023	Feb 03, 2023	Feb 03, 2023	Feb 03, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	-	< 20
TRH C10-C14	20	mg/kg	< 20	-	-	< 20
TRH C15-C28	50	mg/kg	< 50	-	-	< 50
TRH C29-C36	50	mg/kg	< 50	-	-	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	-	-	< 50
TRH C6-C10	20	mg/kg	< 20	-	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	-	< 20
TRH >C10-C16	50	mg/kg	< 50	-	-	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	-	< 50
TRH >C16-C34	100	mg/kg	< 100	-	-	< 100
TRH >C34-C40	100	mg/kg	< 100	-	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	-	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	-	< 0.1
Toluene	0.1	mg/kg	< 0.1	-	-	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	-	-	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	-	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	81	-	-	81
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	-	< 0.5
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.6
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.9
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.6
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	1.0
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	1.2
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	3.8
2-Fluorobiphenyl (surr.)	1	%	72	82	56	81
p-Terphenyl-d14 (surr.)	1	%	60	82	91	78

Client Sample ID			KW-B5_0.1-0.2	KW-B5_0.4-0.5	KW-B6_0.0-0.1	KW-B6_0.5-0.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023580	M23-Fe0023581	M23-Fe0023584	M23-Fe0023585
Date Sampled			Feb 03, 2023	Feb 03, 2023	Feb 03, 2023	Feb 03, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	-	-	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	-	-	0.05
4.4'-DDT	0.05	mg/kg	< 0.05	-	-	0.15
a-HCH	0.05	mg/kg	< 0.05	-	-	< 0.05
Aldrin	0.05	mg/kg	< 0.05	-	-	< 0.05
b-HCH	0.05	mg/kg	< 0.05	-	-	< 0.05
d-HCH	0.05	mg/kg	< 0.05	-	-	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	-	-	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	-	-	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	-	-	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	-	-	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-	0.2
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	-	0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	-	< 0.1
Dibutylchlorendate (surr.)	1	%	68	-	-	118
Tetrachloro-m-xylene (surr.)	1	%	52	-	-	65
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	-	-	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	-	-	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	-	-	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	-	-	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	-	-	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1	-	-	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1	-	-	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	-	-	< 0.1
Dibutylchlorendate (surr.)	1	%	68	-	-	118
Tetrachloro-m-xylene (surr.)	1	%	52	-	-	65
% Clay	1	%	1.2	-	-	-
Conductivity (1:5 aqueous extract at 25 °C as rec.)	10	uS/cm	210	-	-	-
pH (units)(1:5 soil:CaCl2 extract at 25 °C as rec.)	0.1	pH Units	7.8	-	-	-
Total Organic Carbon	0.1	%	1.1	-	-	-
% Moisture	1	%	9.4	9.4	6.1	5.5
Heavy Metals						
Arsenic	2	mg/kg	4.6	2.4	9.0	10
Cadmium	0.4	mg/kg	0.7	< 0.4	1.1	0.8
Chromium	5	mg/kg	19	21	28	21
Copper	5	mg/kg	17	13	29	22

Client Sample ID			KW-B5_0.1-0.2	KW-B5_0.4-0.5	KW-B6_0.0-0.1	KW-B6_0.5-0.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023580	M23-Fe0023581	M23-Fe0023584	M23-Fe0023585
Date Sampled			Feb 03, 2023	Feb 03, 2023	Feb 03, 2023	Feb 03, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Iron	20	mg/kg	17000	-	-	-
Lead	5	mg/kg	380	41	200	250
Mercury	0.1	mg/kg	< 0.1	< 0.1	0.1	< 0.1
Nickel	5	mg/kg	7.8	10	28	14
Zinc	5	mg/kg	210	58	410	290
Heavy Metals						
Iron (%)	0.01	%	1.7	-	-	-
Cation Exchange Capacity						
Cation Exchange Capacity	0.05	meq/100g	4.5	-	-	-

Client Sample ID			KW-B7_0.2-0.3	KW-B7_0.5-0.6	KW-B8_0.0-0.1	KW-B8_0.2-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023586	M23-Fe0023587	M23-Fe0023590	M23-Fe0023591
Date Sampled			Feb 03, 2023	Feb 03, 2023	Feb 03, 2023	Feb 03, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	-	< 20	< 20
TRH C15-C28	50	mg/kg	91	-	58	< 50
TRH C29-C36	50	mg/kg	< 50	-	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	91	-	58	< 50
TRH C6-C10	20	mg/kg	< 20	-	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	-	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	< 50	< 50
TRH >C16-C34	100	mg/kg	120	-	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	-	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	120	-	< 100	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	-	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	65	-	80	102
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	1.3	0.8	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	1.5	1.1	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.8	1.4	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	0.8	0.6	< 0.5	< 0.5

Client Sample ID			KW-B7_0.2-0.3	KW-B7_0.5-0.6	KW-B8_0.0-0.1	KW-B8_0.2-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023586	M23-Fe0023587	M23-Fe0023590	M23-Fe0023591
Date Sampled			Feb 03, 2023	Feb 03, 2023	Feb 03, 2023	Feb 03, 2023
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene	0.5	mg/kg	0.9	0.7	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	1.3	0.6	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	0.7	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	1.0	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	0.9	0.7	< 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	2.2	1.3	0.6	0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	1.5	0.8	< 0.5	< 0.5
Pyrene	0.5	mg/kg	2.1	1.2	0.7	0.5
Total PAH*	0.5	mg/kg	12	5.9	1.3	1.0
2-Fluorobiphenyl (surr.)	1	%	24	61	23	93
p-Terphenyl-d14 (surr.)	1	%	28	94	22	85
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	42	-	62	97
Tetrachloro-m-xylene (surr.)	1	%	26	-	26	54
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1

Client Sample ID			KW-B7_0.2-0.3	KW-B7_0.5-0.6	KW-B8_0.0-0.1	KW-B8_0.2-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023586	M23-Fe0023587	M23-Fe0023590	M23-Fe0023591
Date Sampled			Feb 03, 2023	Feb 03, 2023	Feb 03, 2023	Feb 03, 2023
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1254	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	42	-	62	97
Tetrachloro-m-xylene (surr.)	1	%	26	-	26	54
% Moisture	1	%	6.2	5.9	9.8	11
Heavy Metals						
Arsenic	2	mg/kg	6.4	6.4	16	5.0
Cadmium	0.4	mg/kg	0.9	0.9	1.2	1.0
Chromium	5	mg/kg	22	20	29	21
Copper	5	mg/kg	26	24	41	23
Lead	5	mg/kg	330	250	350	250
Mercury	0.1	mg/kg	0.1	0.1	0.1	0.1
Nickel	5	mg/kg	15	15	27	13
Zinc	5	mg/kg	390	370	490	490
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dibromoethane	0.5	mg/kg	-	-	-	< 0.5
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
1.2.3-Trichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	-	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.3-Dichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	-	< 0.5
1.4-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
4-Chlorotoluene	0.5	mg/kg	-	-	-	< 0.5
4-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

Client Sample ID			KW-B7_0.2-0.3	KW-B7_0.5-0.6	KW-B8_0.0-0.1	KW-B8_0.2-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023586	M23-Fe0023587	M23-Fe0023590	M23-Fe0023591
Date Sampled			Feb 03, 2023	Feb 03, 2023	Feb 03, 2023	Feb 03, 2023
Test/Reference	LOR	Unit				
Volatile Organics						
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
Isopropyl benzene (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*	0.3	mg/kg	-	-	-	< 0.3
Total MAH*	0.5	mg/kg	-	-	-	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	-	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	-	< 0.5
4-Bromofluorobenzene (surr.)	1	%	-	-	-	102
Toluene-d8 (surr.)	1	%	-	-	-	114

Client Sample ID			MH-B1_0.0-0.1	MH-B1_0.1-0.2	MH-B1_0.2-0.3	MH-B2_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023594	M23-Fe0023596	M23-Fe0023598	M23-Fe0023600
Date Sampled			Feb 03, 2023	Feb 03, 2023	Feb 03, 2023	Feb 03, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	< 20	-	-
TRH C10-C14	20	mg/kg	-	< 20	-	-
TRH C15-C28	50	mg/kg	-	< 50	-	-
TRH C29-C36	50	mg/kg	-	< 50	-	-
TRH C10-C36 (Total)	50	mg/kg	-	< 50	-	-
TRH C6-C10	20	mg/kg	-	< 20	-	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	-	-
TRH >C10-C16	50	mg/kg	-	< 50	-	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	-	-
TRH >C16-C34	100	mg/kg	-	< 100	-	-
TRH >C34-C40	100	mg/kg	-	< 100	-	-
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	-	-

Client Sample ID			MH-B1_0.0-0.1	MH-B1_0.1-0.2	MH-B1_0.2-0.3	MH-B2_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023594	M23-Fe0023596	M23-Fe0023598	M23-Fe0023600
Date Sampled			Feb 03, 2023	Feb 03, 2023	Feb 03, 2023	Feb 03, 2023
Test/Reference	LOR	Unit				
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	-	-
Toluene	0.1	mg/kg	-	< 0.1	-	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	-
o-Xylene	0.1	mg/kg	-	< 0.1	-	-
Xylenes - Total*	0.3	mg/kg	-	< 0.3	-	-
4-Bromofluorobenzene (surr.)	1	%	-	74	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	-	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	-	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	-	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	-	-
Acenaphthene	0.5	mg/kg	-	< 0.5	-	-
Acenaphthylene	0.5	mg/kg	-	< 0.5	-	-
Anthracene	0.5	mg/kg	-	< 0.5	-	-
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	-	-
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	-	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	-	-
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	-	-
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	-	-
Chrysene	0.5	mg/kg	-	< 0.5	-	-
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	-	-
Fluoranthene	0.5	mg/kg	-	< 0.5	-	-
Fluorene	0.5	mg/kg	-	< 0.5	-	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	-	-
Naphthalene	0.5	mg/kg	-	< 0.5	-	-
Phenanthrene	0.5	mg/kg	-	< 0.5	-	-
Pyrene	0.5	mg/kg	-	< 0.5	-	-
Total PAH*	0.5	mg/kg	-	< 0.5	-	-
2-Fluorobiphenyl (surr.)	1	%	-	90	-	-
p-Terphenyl-d14 (surr.)	1	%	-	51	-	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	-
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	-
a-HCH	0.05	mg/kg	-	< 0.05	-	-
Aldrin	0.05	mg/kg	-	< 0.05	-	-
b-HCH	0.05	mg/kg	-	< 0.05	-	-
d-HCH	0.05	mg/kg	-	< 0.05	-	-
Dieldrin	0.05	mg/kg	-	< 0.05	-	-
Endosulfan I	0.05	mg/kg	-	< 0.05	-	-
Endosulfan II	0.05	mg/kg	-	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	-
Endrin	0.05	mg/kg	-	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	-
Endrin ketone	0.05	mg/kg	-	< 0.05	-	-
g-HCH (Lindane)	0.05	mg/kg	-	< 0.05	-	-

Client Sample ID			MH-B1_0.0-0.1	MH-B1_0.1-0.2	MH-B1_0.2-0.3	MH-B2_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023594	M23-Fe0023596	M23-Fe0023598	M23-Fe0023600
Date Sampled			Feb 03, 2023	Feb 03, 2023	Feb 03, 2023	Feb 03, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Heptachlor	0.05	mg/kg	-	< 0.05	-	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	-
Methoxychlor	0.05	mg/kg	-	< 0.05	-	-
Toxaphene	0.5	mg/kg	-	< 0.5	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	-	119	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	51	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1232	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1242	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1248	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1254	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1260	0.1	mg/kg	-	< 0.1	-	-
Total PCB*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	-	119	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	51	-	-
% Moisture	1	%	24	16	14	7.5
Heavy Metals						
Arsenic	2	mg/kg	3.5	2.7	8.9	11
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	26	27	34	51
Copper	5	mg/kg	23	59	35	74
Lead	5	mg/kg	42	35	140	120
Mercury	0.1	mg/kg	< 0.1	< 0.1	0.2	< 0.1
Nickel	5	mg/kg	14	19	24	36
Zinc	5	mg/kg	120	110	150	180
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1-Dichloroethene	0.5	mg/kg	-	< 0.5	-	-
1.1.1-Trichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.2-Trichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dibromoethane	0.5	mg/kg	-	< 0.5	-	-
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	-	-
1.2.3-Trichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	-
1.3-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
1.3-Dichloropropane	0.5	mg/kg	-	< 0.5	-	-

Client Sample ID			MH-B1_0.0-0.1	MH-B1_0.1-0.2	MH-B1_0.2-0.3	MH-B2_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023594	M23-Fe0023596	M23-Fe0023598	M23-Fe0023600
Date Sampled			Feb 03, 2023	Feb 03, 2023	Feb 03, 2023	Feb 03, 2023
Test/Reference	LOR	Unit				
Volatile Organics						
1.3.5-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	-
1.4-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	-	-
4-Chlorotoluene	0.5	mg/kg	-	< 0.5	-	-
4-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-1.3-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	-	-
Isopropyl benzene (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*	0.3	mg/kg	-	< 0.3	-	-
Total MAH*	0.5	mg/kg	-	< 0.5	-	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	< 0.5	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	< 0.5	-	-
4-Bromofluorobenzene (surr.)	1	%	-	74	-	-
Toluene-d8 (surr.)	1	%	-	83	-	-

Client Sample ID			MH-B2_0.4-0.5	MH-B3_0.0-0.1	MH-B3_0.2-0.3	MH-B3_0.8-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023601	M23-Fe0023603	M23-Fe0023604	M23-Fe0023605
Date Sampled			Feb 03, 2023	Feb 03, 2023	Feb 03, 2023	Feb 03, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	-	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	-	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	-	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	-	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	-	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	-	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	-	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	-	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	-	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	-	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	90	88	-	81
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	-	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	50	52	-	52
p-Terphenyl-d14 (surr.)	1	%	98	94	-	89

Client Sample ID			MH-B2_0.4-0.5	MH-B3_0.0-0.1	MH-B3_0.2-0.3	MH-B3_0.8-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023601	M23-Fe0023603	M23-Fe0023604	M23-Fe0023605
Date Sampled			Feb 03, 2023	Feb 03, 2023	Feb 03, 2023	Feb 03, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Dibutylchlorendate (surr.)	1	%	90	52	-	52
Tetrachloro-m-xylene (surr.)	1	%	55	52	-	52
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Dibutylchlorendate (surr.)	1	%	90	52	-	52
Tetrachloro-m-xylene (surr.)	1	%	55	52	-	52
% Moisture	1	%	7.7	3.2	5.0	4.1
Heavy Metals						
Arsenic	2	mg/kg	7.9	< 2	< 2	3.0
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	48	10	9.3	47
Copper	5	mg/kg	44	13	< 5	9.3
Lead	5	mg/kg	100	14	< 5	14
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	33	5.6	< 5	26
Zinc	5	mg/kg	180	47	12	49

Client Sample ID			MH-B4_0.2-0.3	MH-B4_0.6-0.7	MH-B5_0.0-0.1	MH-B5_0.1-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023608	M23-Fe0023609	M23-Fe0023611	M23-Fe0023612
Date Sampled			Feb 03, 2023	Feb 03, 2023	Feb 02, 2023	Feb 02, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	-	< 20
TRH C10-C14	20	mg/kg	< 20	-	-	< 20
TRH C15-C28	50	mg/kg	< 50	-	-	< 50
TRH C29-C36	50	mg/kg	< 50	-	-	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	-	-	< 50
TRH C6-C10	20	mg/kg	< 20	-	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	-	< 20
TRH >C10-C16	50	mg/kg	< 50	-	-	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	-	< 50
TRH >C16-C34	100	mg/kg	< 100	-	-	< 100
TRH >C34-C40	100	mg/kg	< 100	-	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	-	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	-	< 0.1
Toluene	0.1	mg/kg	< 0.1	-	-	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	-	-	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	-	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	76	-	-	66
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	-	< 0.5
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	-	1.2
Acenaphthene	0.5	mg/kg	< 0.5	-	-	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	-	-	< 0.5
Anthracene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	-	< 0.5
Chrysene	0.5	mg/kg	< 0.5	-	-	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-	-	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	-	-	< 0.5
Fluorene	0.5	mg/kg	< 0.5	-	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	-	-	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Pyrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	-	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	50	-	-	72
p-Terphenyl-d14 (surr.)	1	%	90	-	-	83

Client Sample ID			MH-B4_0.2-0.3	MH-B4_0.6-0.7	MH-B5_0.0-0.1	MH-B5_0.1-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023608	M23-Fe0023609	M23-Fe0023611	M23-Fe0023612
Date Sampled			Feb 03, 2023	Feb 03, 2023	Feb 02, 2023	Feb 02, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	-	-	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	-	-	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	-	-	< 0.05
a-HCH	0.05	mg/kg	< 0.05	-	-	< 0.05
Aldrin	0.05	mg/kg	< 0.05	-	-	< 0.05
b-HCH	0.05	mg/kg	< 0.05	-	-	< 0.05
d-HCH	0.05	mg/kg	< 0.05	-	-	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	-	-	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	-	-	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	-	-	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	-	-	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	-	< 0.1
Dibutylchlorendate (surr.)	1	%	86	-	-	84
Tetrachloro-m-xylene (surr.)	1	%	88	-	-	58
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	-	-	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	-	-	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	-	-	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	-	-	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	-	-	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1	-	-	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1	-	-	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	-	-	< 0.1
Dibutylchlorendate (surr.)	1	%	86	-	-	84
Tetrachloro-m-xylene (surr.)	1	%	88	-	-	58
% Moisture	1	%	5.6	3.0	7.3	8.9
Heavy Metals						
Arsenic	2	mg/kg	71	11	32	22
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	26	28	19	21
Copper	5	mg/kg	46	< 5	42	45
Lead	5	mg/kg	24	11	24	24
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	35	15	24	26
Zinc	5	mg/kg	87	61	59	59

Client Sample ID			MH-B5_0.4-0.5	MH-B5_0.8-0.9	MH-B6_0.0-0.1	MH-B6_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023613	M23-Fe0023614	M23-Fe0023616	M23-Fe0023617
Date Sampled			Feb 02, 2023	Feb 02, 2023	Feb 02, 2023	Feb 02, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	< 20	-
TRH C10-C14	20	mg/kg	< 20	-	< 20	-
TRH C15-C28	50	mg/kg	< 50	-	< 50	-
TRH C29-C36	50	mg/kg	< 50	-	< 50	-
TRH C10-C36 (Total)	50	mg/kg	< 50	-	< 50	-
TRH C6-C10	20	mg/kg	< 20	-	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	< 20	-
TRH >C10-C16	50	mg/kg	< 50	-	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	< 50	-
TRH >C16-C34	100	mg/kg	< 100	-	< 100	-
TRH >C34-C40	100	mg/kg	< 100	-	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	< 100	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	-
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	-
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	62	-	76	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	< 0.5	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	69	-	50	71
p-Terphenyl-d14 (surr.)	1	%	83	-	92	87

Client Sample ID			MH-B5_0.4-0.5	MH-B5_0.8-0.9	MH-B6_0.0-0.1	MH-B6_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023613	M23-Fe0023614	M23-Fe0023616	M23-Fe0023617
Date Sampled			Feb 02, 2023	Feb 02, 2023	Feb 02, 2023	Feb 02, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	< 0.1	-
4.4'-DDD	0.05	mg/kg	< 0.05	-	< 0.05	-
4.4'-DDE	0.05	mg/kg	< 0.05	-	< 0.05	-
4.4'-DDT	0.05	mg/kg	< 0.05	-	< 0.05	-
a-HCH	0.05	mg/kg	< 0.05	-	< 0.05	-
Aldrin	0.05	mg/kg	< 0.05	-	< 0.05	-
b-HCH	0.05	mg/kg	< 0.05	-	< 0.05	-
d-HCH	0.05	mg/kg	< 0.05	-	< 0.05	-
Dieldrin	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan I	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan II	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin ketone	0.05	mg/kg	< 0.05	-	< 0.05	-
g-HCH (Lindane)	0.05	mg/kg	< 0.05	-	< 0.05	-
Heptachlor	0.05	mg/kg	< 0.05	-	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	< 0.05	-
Methoxychlor	0.05	mg/kg	< 0.05	-	< 0.05	-
Toxaphene	0.5	mg/kg	< 0.5	-	< 0.5	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	< 0.1	-
Dibutylchlorendate (surr.)	1	%	81	-	98	-
Tetrachloro-m-xylene (surr.)	1	%	55	-	55	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1221	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1232	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1242	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1248	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1254	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1260	0.1	mg/kg	< 0.1	-	< 0.1	-
Total PCB*	0.1	mg/kg	< 0.1	-	< 0.1	-
Dibutylchlorendate (surr.)	1	%	81	-	98	-
Tetrachloro-m-xylene (surr.)	1	%	55	-	55	-
% Clay	1	%	-	-	-	6.7
Conductivity (1:5 aqueous extract at 25 °C as rec.)	10	uS/cm	-	-	-	350
pH (units)(1:5 soil:CaCl2 extract at 25 °C as rec.)	0.1	pH Units	-	-	-	8.5
Total Organic Carbon	0.1	%	-	-	-	0.4
% Moisture	1	%	11	7.2	6.0	8.0
Heavy Metals						
Arsenic	2	mg/kg	6.7	8.4	15	4.9
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	24	21	29	30
Copper	5	mg/kg	28	21	35	24

Client Sample ID			MH-B5_0.4-0.5	MH-B5_0.8-0.9	MH-B6_0.0-0.1	MH-B6_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023613	M23-Fe0023614	M23-Fe0023616	M23-Fe0023617
Date Sampled			Feb 02, 2023	Feb 02, 2023	Feb 02, 2023	Feb 02, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Iron	20	mg/kg	-	-	-	27000
Lead	5	mg/kg	19	20	25	22
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	16	14	24	17
Zinc	5	mg/kg	53	44	99	72
Heavy Metals						
Iron (%)	0.01	%	-	-	-	2.7
Cation Exchange Capacity						
Cation Exchange Capacity	0.05	meq/100g	-	-	-	26
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
1.1.1-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dibromoethane	0.5	mg/kg	-	-	< 0.5	-
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	-
1.2.3-Trichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.4-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	-
4-Chlorotoluene	0.5	mg/kg	-	-	< 0.5	-
4-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-1.3-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	-

Client Sample ID			MH-B5_0.4-0.5	MH-B5_0.8-0.9	MH-B6_0.0-0.1	MH-B6_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023613	M23-Fe0023614	M23-Fe0023616	M23-Fe0023617
Date Sampled			Feb 02, 2023	Feb 02, 2023	Feb 02, 2023	Feb 02, 2023
Test/Reference	LOR	Unit				
Volatile Organics						
Iodomethane	0.5	mg/kg	-	-	< 0.5	-
Isopropyl benzene (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*	0.3	mg/kg	-	-	< 0.3	-
Total MAH*	0.5	mg/kg	-	-	< 0.5	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	< 0.5	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	< 0.5	-
4-Bromofluorobenzene (surr.)	1	%	-	-	76	-
Toluene-d8 (surr.)	1	%	-	-	89	-

Client Sample ID			MH-B6_0.4-0.5	MH-B7_0.0-0.1	MH-B7_0.2-0.3	MH-B7_0.9-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023618	M23-Fe0023620	M23-Fe0023621	M23-Fe0023622
Date Sampled			Feb 02, 2023	Feb 02, 2023	Feb 02, 2023	Feb 02, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	-	< 20	< 20
TRH C10-C14	20	mg/kg	-	-	< 20	< 20
TRH C15-C28	50	mg/kg	-	-	< 50	< 50
TRH C29-C36	50	mg/kg	-	-	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	-	-	< 50	< 50
TRH C6-C10	20	mg/kg	-	-	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	-	< 20	< 20
TRH >C10-C16	50	mg/kg	-	-	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	-	< 50	< 50
TRH >C16-C34	100	mg/kg	-	-	< 100	< 100
TRH >C34-C40	100	mg/kg	-	-	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	-	< 100	< 100
BTEX						
Benzene	0.1	mg/kg	-	-	< 0.1	< 0.1
Toluene	0.1	mg/kg	-	-	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	-	-	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	-	-	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	-	72	96
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	-	< 0.5	< 0.5

Client Sample ID			MH-B6_0.4-0.5	MH-B7_0.0-0.1	MH-B7_0.2-0.3	MH-B7_0.9-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023618	M23-Fe0023620	M23-Fe0023621	M23-Fe0023622
Date Sampled			Feb 02, 2023	Feb 02, 2023	Feb 02, 2023	Feb 02, 2023
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	71	67	53
p-Terphenyl-d14 (surr.)	1	%	-	83	82	60
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	-	-	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	-	-	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	-	-	< 0.05	< 0.05
a-HCH	0.05	mg/kg	-	-	< 0.05	< 0.05
Aldrin	0.05	mg/kg	-	-	< 0.05	< 0.05
b-HCH	0.05	mg/kg	-	-	< 0.05	< 0.05
d-HCH	0.05	mg/kg	-	-	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	-	-	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	-	-	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	-	-	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	-	< 0.05	< 0.05
Endrin	0.05	mg/kg	-	-	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	-	-	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	-	-	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	-	-	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	-	-	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	-	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	-	-	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	-	-	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	-	-	73	62
Tetrachloro-m-xylene (surr.)	1	%	-	-	53	54

Client Sample ID			MH-B6_0.4-0.5	MH-B7_0.0-0.1	MH-B7_0.2-0.3	MH-B7_0.9-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023618	M23-Fe0023620	M23-Fe0023621	M23-Fe0023622
Date Sampled			Feb 02, 2023	Feb 02, 2023	Feb 02, 2023	Feb 02, 2023
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	-	< 0.1	< 0.1
Aroclor-1221	0.1	mg/kg	-	-	< 0.1	< 0.1
Aroclor-1232	0.1	mg/kg	-	-	< 0.1	< 0.1
Aroclor-1242	0.1	mg/kg	-	-	< 0.1	< 0.1
Aroclor-1248	0.1	mg/kg	-	-	< 0.1	< 0.1
Aroclor-1254	0.1	mg/kg	-	-	< 0.1	< 0.1
Aroclor-1260	0.1	mg/kg	-	-	< 0.1	< 0.1
Total PCB*	0.1	mg/kg	-	-	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	-	-	73	62
Tetrachloro-m-xylene (surr.)	1	%	-	-	53	54
% Moisture	1	%	8.5	5.3	5.8	4.6
Heavy Metals						
Arsenic	2	mg/kg	2.6	3.5	3.5	2.3
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	29	29	30	27
Copper	5	mg/kg	11	9.4	9.0	8.6
Lead	5	mg/kg	13	11	13	9.8
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	13	16	17	15
Zinc	5	mg/kg	54	51	54	47

Client Sample ID			MH-B8_0.1-0.2	MH-B8_0.4-0.5	MH-B8_0.5-0.6	MH-B9_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023624	M23-Fe0023625	M23-Fe0023626	M23-Fe0023629
Date Sampled			Feb 02, 2023	Feb 02, 2023	Feb 02, 2023	Feb 02, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	< 20	-	-
TRH C10-C14	20	mg/kg	-	< 20	-	-
TRH C15-C28	50	mg/kg	-	< 50	-	-
TRH C29-C36	50	mg/kg	-	< 50	-	-
TRH C10-C36 (Total)	50	mg/kg	-	< 50	-	-
TRH C6-C10	20	mg/kg	-	< 20	-	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	-	-
TRH >C10-C16	50	mg/kg	-	< 50	-	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	-	-
TRH >C16-C34	100	mg/kg	-	< 100	-	-
TRH >C34-C40	100	mg/kg	-	< 100	-	-
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	-	-
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	-	-
Toluene	0.1	mg/kg	-	< 0.1	-	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	-
o-Xylene	0.1	mg/kg	-	< 0.1	-	-
Xylenes - Total*	0.3	mg/kg	-	< 0.3	-	-
4-Bromofluorobenzene (surr.)	1	%	-	65	-	-

Client Sample ID			MH-B8_0.1-0.2	MH-B8_0.4-0.5	MH-B8_0.5-0.6	MH-B9_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023624	M23-Fe0023625	M23-Fe0023626	M23-Fe0023629
Date Sampled			Feb 02, 2023	Feb 02, 2023	Feb 02, 2023	Feb 02, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	-	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	-	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	71	55	-	52
p-Terphenyl-d14 (surr.)	1	%	53	60	-	57
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	-
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	-
a-HCH	0.05	mg/kg	-	< 0.05	-	-
Aldrin	0.05	mg/kg	-	< 0.05	-	-
b-HCH	0.05	mg/kg	-	< 0.05	-	-
d-HCH	0.05	mg/kg	-	< 0.05	-	-
Dieldrin	0.05	mg/kg	-	< 0.05	-	-
Endosulfan I	0.05	mg/kg	-	< 0.05	-	-
Endosulfan II	0.05	mg/kg	-	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	-
Endrin	0.05	mg/kg	-	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	-
Endrin ketone	0.05	mg/kg	-	< 0.05	-	-
g-HCH (Lindane)	0.05	mg/kg	-	< 0.05	-	-
Heptachlor	0.05	mg/kg	-	< 0.05	-	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	-
Methoxychlor	0.05	mg/kg	-	< 0.05	-	-
Toxaphene	0.5	mg/kg	-	< 0.5	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-

Client Sample ID			MH-B8_0.1-0.2	MH-B8_0.4-0.5	MH-B8_0.5-0.6	MH-B9_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023624	M23-Fe0023625	M23-Fe0023626	M23-Fe0023629
Date Sampled			Feb 02, 2023	Feb 02, 2023	Feb 02, 2023	Feb 02, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	-	66	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	53	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1232	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1242	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1248	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1254	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1260	0.1	mg/kg	-	< 0.1	-	-
Total PCB*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	-	66	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	53	-	-
% Moisture	1	%	2.7	13	15	4.7
Heavy Metals						
Arsenic	2	mg/kg	42	5.6	16	34
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	20	37	38	20
Copper	5	mg/kg	44	22	27	53
Lead	5	mg/kg	22	18	16	25
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	31	21	25	27
Zinc	5	mg/kg	71	55	60	72

Client Sample ID			MH-B9_0.2-0.3	MH-B9_0.9-1.0	MH-B10_0.0-0.2	MH-B10_0.2-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023630	M23-Fe0023631	M23-Fe0023633	M23-Fe0023636
Date Sampled			Feb 02, 2023	Feb 02, 2023	Feb 02, 2023	Feb 02, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100

Client Sample ID			MH-B9_0.2-0.3	MH-B9_0.9-1.0	MH-B10_0.0-0.2	MH-B10_0.2-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023630	M23-Fe0023631	M23-Fe0023633	M23-Fe0023636
Date Sampled			Feb 02, 2023	Feb 02, 2023	Feb 02, 2023	Feb 02, 2023
Test/Reference	LOR	Unit				
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	87	81	89	107
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	51	149	53	58
p-Terphenyl-d14 (surr.)	1	%	58	52	58	59
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05

Client Sample ID			MH-B9_0.2-0.3	MH-B9_0.9-1.0	MH-B10_0.0-0.2	MH-B10_0.2-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023630	M23-Fe0023631	M23-Fe0023633	M23-Fe0023636
Date Sampled			Feb 02, 2023	Feb 02, 2023	Feb 02, 2023	Feb 02, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	69	66	69	71
Tetrachloro-m-xylene (surr.)	1	%	68	54	52	106
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	69	66	69	71
Tetrachloro-m-xylene (surr.)	1	%	68	54	52	106
% Moisture	1	%	5.6	21	7.4	11
Heavy Metals						
Arsenic	2	mg/kg	30	6.3	4.4	5.8
Cadmium	0.4	mg/kg	< 0.4	< 0.4	0.8	1.0
Chromium	5	mg/kg	22	41	23	26
Copper	5	mg/kg	38	27	32	34
Lead	5	mg/kg	100	15	260	310
Mercury	0.1	mg/kg	< 0.1	< 0.1	1.6	0.8
Nickel	5	mg/kg	24	25	15	17
Zinc	5	mg/kg	75	68	330	490

Client Sample ID			MH-B10_0.5-0.6	ED-B1_0.0-0.1	ED-B1_0.4-0.5	ED-B1_0.9-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023637	M23-Fe0023640	M23-Fe0023641	M23-Fe0023642
Date Sampled			Feb 02, 2023	Feb 02, 2023	Feb 02, 2023	Feb 02, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	< 20	-	-
TRH C10-C14	20	mg/kg	-	< 20	-	-
TRH C15-C28	50	mg/kg	-	< 50	-	-
TRH C29-C36	50	mg/kg	-	< 50	-	-
TRH C10-C36 (Total)	50	mg/kg	-	< 50	-	-

Client Sample ID			MH-B10_0.5-0.6	ED-B1_0.0-0.1	ED-B1_0.4-0.5	ED-B1_0.9-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023637	M23-Fe0023640	M23-Fe0023641	M23-Fe0023642
Date Sampled			Feb 02, 2023	Feb 02, 2023	Feb 02, 2023	Feb 02, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C10	20	mg/kg	-	< 20	-	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	-	-
TRH >C10-C16	50	mg/kg	-	< 50	-	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	-	-
TRH >C16-C34	100	mg/kg	-	< 100	-	-
TRH >C34-C40	100	mg/kg	-	< 100	-	-
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	-	-
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	-	-
Toluene	0.1	mg/kg	-	< 0.1	-	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	-
o-Xylene	0.1	mg/kg	-	< 0.1	-	-
Xylenes - Total*	0.3	mg/kg	-	< 0.3	-	-
4-Bromofluorobenzene (surr.)	1	%	-	85	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	-	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	1.2	-
Acenaphthene	0.5	mg/kg	-	< 0.5	< 0.5	-
Acenaphthylene	0.5	mg/kg	-	< 0.5	< 0.5	-
Anthracene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	-
Chrysene	0.5	mg/kg	-	< 0.5	< 0.5	-
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	-
Fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	-
Fluorene	0.5	mg/kg	-	< 0.5	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Naphthalene	0.5	mg/kg	-	< 0.5	< 0.5	-
Phenanthrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Pyrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Total PAH*	0.5	mg/kg	-	< 0.5	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	-	58	68	-
p-Terphenyl-d14 (surr.)	1	%	-	63	60	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	-
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	-
a-HCH	0.05	mg/kg	-	< 0.05	-	-
Aldrin	0.05	mg/kg	-	< 0.05	-	-
b-HCH	0.05	mg/kg	-	< 0.05	-	-

Client Sample ID			MH-B10_0.5-0.6	ED-B1_0.0-0.1	ED-B1_0.4-0.5	ED-B1_0.9-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023637	M23-Fe0023640	M23-Fe0023641	M23-Fe0023642
Date Sampled			Feb 02, 2023	Feb 02, 2023	Feb 02, 2023	Feb 02, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
d-HCH	0.05	mg/kg	-	< 0.05	-	-
Dieldrin	0.05	mg/kg	-	< 0.05	-	-
Endosulfan I	0.05	mg/kg	-	< 0.05	-	-
Endosulfan II	0.05	mg/kg	-	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	-
Endrin	0.05	mg/kg	-	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	-
Endrin ketone	0.05	mg/kg	-	< 0.05	-	-
g-HCH (Lindane)	0.05	mg/kg	-	< 0.05	-	-
Heptachlor	0.05	mg/kg	-	< 0.05	-	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	-
Methoxychlor	0.05	mg/kg	-	< 0.05	-	-
Toxaphene	0.5	mg/kg	-	< 0.5	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	-	72	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	54	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1232	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1242	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1248	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1254	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1260	0.1	mg/kg	-	< 0.1	-	-
Total PCB*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	-	72	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	54	-	-
% Clay	1	%	-	6.1	-	-
Conductivity (1:5 aqueous extract at 25 °C as rec.)	10	uS/cm	-	410	-	-
pH (units)(1:5 soil:CaCl2 extract at 25 °C as rec.)	0.1	pH Units	-	9.1	-	-
Total Organic Carbon	0.1	%	-	0.3	-	-
% Moisture	1	%	10	8.5	11	9.4
Heavy Metals						
Arsenic	2	mg/kg	6.1	2.1	2.7	2.1
Cadmium	0.4	mg/kg	1.2	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	27	16	21	18
Copper	5	mg/kg	36	26	30	37
Iron	20	mg/kg	-	31000	-	-
Lead	5	mg/kg	470	11	14	13
Mercury	0.1	mg/kg	0.8	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	19	14	13	12
Zinc	5	mg/kg	510	46	39	36
Heavy Metals						
Iron (%)	0.01	%	-	3.1	-	-

Client Sample ID			MH-B10_0.5-0.6	ED-B1_0.0-0.1	ED-B1_0.4-0.5	ED-B1_0.9-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023637	M23-Fe0023640	M23-Fe0023641	M23-Fe0023642
Date Sampled			Feb 02, 2023	Feb 02, 2023	Feb 02, 2023	Feb 02, 2023
Test/Reference	LOR	Unit				
Cation Exchange Capacity						
Cation Exchange Capacity	0.05	meq/100g	-	26	-	-

Client Sample ID			ED-B2_0.0-0.1	ED-B2_0.2-0.3	ED-B3_0.0-0.1	ED-B3_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023644	M23-Fe0023645	M23-Fe0023647	M23-Fe0023648
Date Sampled			Feb 04, 2023	Feb 04, 2023	Feb 04, 2023	Feb 04, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	< 20	< 20	-
TRH C10-C14	20	mg/kg	-	< 20	< 20	-
TRH C15-C28	50	mg/kg	-	< 50	< 50	-
TRH C29-C36	50	mg/kg	-	< 50	< 50	-
TRH C10-C36 (Total)	50	mg/kg	-	< 50	< 50	-
TRH C6-C10	20	mg/kg	-	< 20	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	< 20	-
TRH >C10-C16	50	mg/kg	-	< 50	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	< 50	-
TRH >C16-C34	100	mg/kg	-	< 100	< 100	-
TRH >C34-C40	100	mg/kg	-	< 100	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	< 100	-
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	< 0.1	-
Toluene	0.1	mg/kg	-	< 0.1	< 0.1	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	< 0.1	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	< 0.2	-
o-Xylene	0.1	mg/kg	-	< 0.1	< 0.1	-
Xylenes - Total*	0.3	mg/kg	-	< 0.3	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	-	94	92	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	< 0.5	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	-
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-

Client Sample ID			ED-B2_0.0-0.1	ED-B2_0.2-0.3	ED-B3_0.0-0.1	ED-B3_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023644	M23-Fe0023645	M23-Fe0023647	M23-Fe0023648
Date Sampled			Feb 04, 2023	Feb 04, 2023	Feb 04, 2023	Feb 04, 2023
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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	%	110	81	101	-
p-Terphenyl-d14 (surr.)	1	%	127	97	97	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	< 0.1	-
4.4'-DDD	0.05	mg/kg	-	< 0.05	< 0.05	-
4.4'-DDE	0.05	mg/kg	-	< 0.05	< 0.05	-
4.4'-DDT	0.05	mg/kg	-	< 0.05	< 0.05	-
a-HCH	0.05	mg/kg	-	< 0.05	< 0.05	-
Aldrin	0.05	mg/kg	-	< 0.05	< 0.05	-
b-HCH	0.05	mg/kg	-	< 0.05	< 0.05	-
d-HCH	0.05	mg/kg	-	< 0.05	< 0.05	-
Dieldrin	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan I	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan II	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin ketone	0.05	mg/kg	-	< 0.05	< 0.05	-
g-HCH (Lindane)	0.05	mg/kg	-	< 0.05	< 0.05	-
Heptachlor	0.05	mg/kg	-	< 0.05	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	< 0.05	-
Methoxychlor	0.05	mg/kg	-	< 0.05	< 0.05	-
Toxaphene	0.5	mg/kg	-	< 0.5	< 0.5	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	< 0.1	-
Dibutylchlorendate (surr.)	1	%	-	91	92	-
Tetrachloro-m-xylene (surr.)	1	%	-	130	126	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1232	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1242	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1248	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1254	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1260	0.1	mg/kg	-	< 0.1	< 0.1	-
Total PCB*	0.1	mg/kg	-	< 0.1	< 0.1	-
Dibutylchlorendate (surr.)	1	%	-	91	92	-
Tetrachloro-m-xylene (surr.)	1	%	-	130	126	-
% Moisture	1	%	5.6	7.0	4.9	6.7

Client Sample ID			ED-B2_0.0-0.1	ED-B2_0.2-0.3	ED-B3_0.0-0.1	ED-B3_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023644	M23-Fe0023645	M23-Fe0023647	M23-Fe0023648
Date Sampled			Feb 04, 2023	Feb 04, 2023	Feb 04, 2023	Feb 04, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	11	4.5	5.9	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	17	18	17	14
Copper	5	mg/kg	25	16	9.0	< 5
Lead	5	mg/kg	16	12	9.0	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	19	21	11	7.9
Zinc	5	mg/kg	53	52	41	31

Client Sample ID			ED-B4_0.1-0.2	ED-B4_0.4-0.5	ED-B5_0.0-0.1	ED-B5_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023650	M23-Fe0023651	M23-Fe0023653	M23-Fe0023654
Date Sampled			Feb 04, 2023	Feb 04, 2023	Feb 02, 2023	Feb 02, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	< 20	< 20	-
TRH C10-C14	20	mg/kg	-	< 20	< 20	-
TRH C15-C28	50	mg/kg	-	< 50	< 50	-
TRH C29-C36	50	mg/kg	-	< 50	< 50	-
TRH C10-C36 (Total)	50	mg/kg	-	< 50	< 50	-
TRH C6-C10	20	mg/kg	-	< 20	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	< 20	-
TRH >C10-C16	50	mg/kg	-	< 50	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	< 50	-
TRH >C16-C34	100	mg/kg	-	< 100	< 100	-
TRH >C34-C40	100	mg/kg	-	< 100	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	< 100	-
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	< 0.1	-
Toluene	0.1	mg/kg	-	< 0.1	< 0.1	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	< 0.1	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	< 0.2	-
o-Xylene	0.1	mg/kg	-	< 0.1	< 0.1	-
Xylenes - Total*	0.3	mg/kg	-	< 0.3	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	-	81	95	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	< 0.5	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	1.2	-
Acenaphthene	0.5	mg/kg	-	< 0.5	< 0.5	-
Acenaphthylene	0.5	mg/kg	-	< 0.5	< 0.5	-
Anthracene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	< 0.5	-

Client Sample ID			ED-B4_0.1-0.2	ED-B4_0.4-0.5	ED-B5_0.0-0.1	ED-B5_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023650	M23-Fe0023651	M23-Fe0023653	M23-Fe0023654
Date Sampled			Feb 04, 2023	Feb 04, 2023	Feb 02, 2023	Feb 02, 2023
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	-
Chrysene	0.5	mg/kg	-	< 0.5	< 0.5	-
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	-
Fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	-
Fluorene	0.5	mg/kg	-	< 0.5	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Naphthalene	0.5	mg/kg	-	< 0.5	< 0.5	-
Phenanthrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Pyrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Total PAH*	0.5	mg/kg	-	< 0.5	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	-	85	71	-
p-Terphenyl-d14 (surr.)	1	%	-	108	89	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	< 0.1	-
4.4'-DDD	0.05	mg/kg	-	< 0.05	< 0.05	-
4.4'-DDE	0.05	mg/kg	-	< 0.05	< 0.05	-
4.4'-DDT	0.05	mg/kg	-	< 0.05	< 0.05	-
a-HCH	0.05	mg/kg	-	< 0.05	< 0.05	-
Aldrin	0.05	mg/kg	-	< 0.05	< 0.05	-
b-HCH	0.05	mg/kg	-	< 0.05	< 0.05	-
d-HCH	0.05	mg/kg	-	< 0.05	< 0.05	-
Dieldrin	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan I	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan II	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin ketone	0.05	mg/kg	-	< 0.05	< 0.05	-
g-HCH (Lindane)	0.05	mg/kg	-	< 0.05	< 0.05	-
Heptachlor	0.05	mg/kg	-	< 0.05	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	< 0.05	-
Methoxychlor	0.05	mg/kg	-	< 0.05	< 0.05	-
Toxaphene	0.5	mg/kg	-	< 0.5	< 0.5	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	< 0.1	-
Dibutylchlorendate (surr.)	1	%	-	81	56	-
Tetrachloro-m-xylene (surr.)	1	%	-	108	82	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1232	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1242	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1248	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1254	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1260	0.1	mg/kg	-	< 0.1	< 0.1	-

Client Sample ID			ED-B4_0.1-0.2	ED-B4_0.4-0.5	ED-B5_0.0-0.1	ED-B5_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023650	M23-Fe0023651	M23-Fe0023653	M23-Fe0023654
Date Sampled			Feb 04, 2023	Feb 04, 2023	Feb 02, 2023	Feb 02, 2023
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Total PCB*	0.1	mg/kg	-	< 0.1	< 0.1	-
Dibutylchlorendate (surr.)	1	%	-	81	56	-
Tetrachloro-m-xylene (surr.)	1	%	-	108	82	-
% Moisture	1	%	3.8	2.9	4.7	5.2
Heavy Metals						
Arsenic	2	mg/kg	< 2	< 2	< 2	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	7.7	7.4	7.7	7.6
Copper	5	mg/kg	< 5	< 5	< 5	< 5
Lead	5	mg/kg	< 5	< 5	< 5	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	< 5	< 5	< 5
Zinc	5	mg/kg	9.9	7.4	9.2	10

Client Sample ID			ED-B6_0.1-0.2	ED-B6_0.2-0.3	ED-B7_0.0-0.2	ED-B7_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023656	M23-Fe0023657	M23-Fe0023659	M23-Fe0023661
Date Sampled			Feb 02, 2023	Feb 02, 2023	Feb 04, 2023	Feb 04, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	< 20	< 20	-
TRH C10-C14	20	mg/kg	-	< 20	< 20	-
TRH C15-C28	50	mg/kg	-	< 50	< 50	-
TRH C29-C36	50	mg/kg	-	< 50	< 50	-
TRH C10-C36 (Total)	50	mg/kg	-	< 50	< 50	-
TRH C6-C10	20	mg/kg	-	< 20	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	< 20	-
TRH >C10-C16	50	mg/kg	-	< 50	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	< 50	-
TRH >C16-C34	100	mg/kg	-	< 100	< 100	-
TRH >C34-C40	100	mg/kg	-	< 100	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	< 100	-
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	< 0.1	-
Toluene	0.1	mg/kg	-	< 0.1	< 0.1	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	< 0.1	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	< 0.2	-
o-Xylene	0.1	mg/kg	-	< 0.1	< 0.1	-
Xylenes - Total*	0.3	mg/kg	-	< 0.3	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	-	87	97	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	< 0.5	-

Client Sample ID			ED-B6_0.1-0.2	ED-B6_0.2-0.3	ED-B7_0.0-0.2	ED-B7_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023656	M23-Fe0023657	M23-Fe0023659	M23-Fe0023661
Date Sampled			Feb 02, 2023	Feb 02, 2023	Feb 04, 2023	Feb 04, 2023
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	72	62	70
p-Terphenyl-d14 (surr.)	1	%	-	87	80	76
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	< 0.1	-
4.4'-DDD	0.05	mg/kg	-	< 0.05	< 0.05	-
4.4'-DDE	0.05	mg/kg	-	< 0.05	< 0.05	-
4.4'-DDT	0.05	mg/kg	-	< 0.05	< 0.05	-
a-HCH	0.05	mg/kg	-	< 0.05	< 0.05	-
Aldrin	0.05	mg/kg	-	< 0.05	< 0.05	-
b-HCH	0.05	mg/kg	-	< 0.05	< 0.05	-
d-HCH	0.05	mg/kg	-	< 0.05	< 0.05	-
Dieldrin	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan I	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan II	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin ketone	0.05	mg/kg	-	< 0.05	< 0.05	-
g-HCH (Lindane)	0.05	mg/kg	-	< 0.05	< 0.05	-
Heptachlor	0.05	mg/kg	-	< 0.05	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	< 0.05	-
Methoxychlor	0.05	mg/kg	-	< 0.05	< 0.05	-
Toxaphene	0.5	mg/kg	-	< 0.5	< 0.5	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	< 0.1	-
Dibutylchlorendate (surr.)	1	%	-	86	85	-
Tetrachloro-m-xylene (surr.)	1	%	-	64	53	-

Client Sample ID			ED-B6_0.1-0.2	ED-B6_0.2-0.3	ED-B7_0.0-0.2	ED-B7_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023656	M23-Fe0023657	M23-Fe0023659	M23-Fe0023661
Date Sampled			Feb 02, 2023	Feb 02, 2023	Feb 04, 2023	Feb 04, 2023
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1232	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1242	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1248	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1254	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1260	0.1	mg/kg	-	< 0.1	< 0.1	-
Total PCB*	0.1	mg/kg	-	< 0.1	< 0.1	-
Dibutylchlorendate (surr.)	1	%	-	86	85	-
Tetrachloro-m-xylene (surr.)	1	%	-	64	53	-
% Moisture	1	%	5.1	5.6	4.2	11
Heavy Metals						
Arsenic	2	mg/kg	< 2	3.4	69	4.7
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	1.1
Chromium	5	mg/kg	7.4	8.5	25	24
Copper	5	mg/kg	< 5	6.0	40	17
Lead	5	mg/kg	< 5	< 5	17	25
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	6.0	28	18
Zinc	5	mg/kg	11	14	77	130

Client Sample ID			ED-B8_0.0-0.2	ED-B8_0.3-0.4	ED-B8_0.8-1.0	ED-B9_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023662	M23-Fe0023663	M23-Fe0023665	M23-Fe0023667
Date Sampled			Feb 04, 2023	Feb 04, 2023	Feb 04, 2023	Feb 04, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	< 20	< 20	-
TRH C10-C14	20	mg/kg	-	< 20	< 20	-
TRH C15-C28	50	mg/kg	-	< 50	< 50	-
TRH C29-C36	50	mg/kg	-	150	< 50	-
TRH C10-C36 (Total)	50	mg/kg	-	150	< 50	-
TRH C6-C10	20	mg/kg	-	< 20	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	< 20	-
TRH >C10-C16	50	mg/kg	-	< 50	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	< 50	-
TRH >C16-C34	100	mg/kg	-	130	< 100	-
TRH >C34-C40	100	mg/kg	-	170	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	-	300	< 100	-
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	< 0.1	-
Toluene	0.1	mg/kg	-	< 0.1	< 0.1	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	< 0.1	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	< 0.2	-
o-Xylene	0.1	mg/kg	-	< 0.1	< 0.1	-
Xylenes - Total*	0.3	mg/kg	-	< 0.3	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	-	93	91	-

Client Sample ID			ED-B8_0.0-0.2	ED-B8_0.3-0.4	ED-B8_0.8-1.0	ED-B9_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023662	M23-Fe0023663	M23-Fe0023665	M23-Fe0023667
Date Sampled			Feb 04, 2023	Feb 04, 2023	Feb 04, 2023	Feb 04, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	< 0.5	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	66	74	78	75
p-Terphenyl-d14 (surr.)	1	%	84	76	82	81
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	0.3	< 0.1	-
4.4'-DDD	0.05	mg/kg	-	< 0.05	< 0.05	-
4.4'-DDE	0.05	mg/kg	-	< 0.05	< 0.05	-
4.4'-DDT	0.05	mg/kg	-	< 0.05	< 0.05	-
a-HCH	0.05	mg/kg	-	< 0.05	< 0.05	-
Aldrin	0.05	mg/kg	-	< 0.05	< 0.05	-
b-HCH	0.05	mg/kg	-	< 0.05	< 0.05	-
d-HCH	0.05	mg/kg	-	< 0.05	< 0.05	-
Dieldrin	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan I	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan II	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin ketone	0.05	mg/kg	-	< 0.05	< 0.05	-
g-HCH (Lindane)	0.05	mg/kg	-	< 0.05	< 0.05	-
Heptachlor	0.05	mg/kg	-	0.13	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	< 0.05	-
Methoxychlor	0.05	mg/kg	-	< 0.05	< 0.05	-
Toxaphene	0.5	mg/kg	-	< 0.5	< 0.5	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	0.43	< 0.1	-

Client Sample ID			ED-B8_0.0-0.2	ED-B8_0.3-0.4	ED-B8_0.8-1.0	ED-B9_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023662	M23-Fe0023663	M23-Fe0023665	M23-Fe0023667
Date Sampled			Feb 04, 2023	Feb 04, 2023	Feb 04, 2023	Feb 04, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	0.43	< 0.1	-
Dibutylchlorendate (surr.)	1	%	-	89	92	-
Tetrachloro-m-xylene (surr.)	1	%	-	57	94	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1232	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1242	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1248	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1254	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1260	0.1	mg/kg	-	< 0.1	< 0.1	-
Total PCB*	0.1	mg/kg	-	< 0.1	< 0.1	-
Dibutylchlorendate (surr.)	1	%	-	89	92	-
Tetrachloro-m-xylene (surr.)	1	%	-	57	94	-
% Moisture	1	%	3.6	8.1	12	5.1
Heavy Metals						
Arsenic	2	mg/kg	110	7.7	3.9	2.5
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	17	29	35	12
Copper	5	mg/kg	24	26	16	12
Lead	5	mg/kg	12	37	19	33
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	22	19	27	7.1
Zinc	5	mg/kg	60	89	43	72

Client Sample ID			ED-B9_0.1-0.2	DUP01	DUP02	DUP03
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023669	M23-Fe0023674	M23-Fe0023675	M23-Fe0023676
Date Sampled			Feb 04, 2023	Feb 02, 2023	Feb 02, 2023	Feb 03, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	-	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	-	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	-	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	-	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	-	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	-	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	-	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	-	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	-	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	-	< 100

Client Sample ID			ED-B9_0.1-0.2	DUP01	DUP02	DUP03
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023669	M23-Fe0023674	M23-Fe0023675	M23-Fe0023676
Date Sampled			Feb 04, 2023	Feb 02, 2023	Feb 02, 2023	Feb 03, 2023
Test/Reference	LOR	Unit				
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	97	91	-	79
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	76	73	66	70
p-Terphenyl-d14 (surr.)	1	%	83	84	79	73
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05

Client Sample ID			ED-B9_0.1-0.2	DUP01	DUP02	DUP03
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023669	M23-Fe0023674	M23-Fe0023675	M23-Fe0023676
Date Sampled			Feb 04, 2023	Feb 02, 2023	Feb 02, 2023	Feb 03, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Dibutylchlorendate (surr.)	1	%	82	85	-	67
Tetrachloro-m-xylene (surr.)	1	%	53	58	-	53
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Dibutylchlorendate (surr.)	1	%	82	85	-	67
Tetrachloro-m-xylene (surr.)	1	%	53	58	-	53
% Moisture	1	%	4.3	6.1	8.5	5.5
Heavy Metals						
Arsenic	2	mg/kg	< 2	5.5	< 2	2.7
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	8.7	26	11	43
Copper	5	mg/kg	5.5	9.3	51	8.3
Lead	5	mg/kg	< 5	16	10.0	14
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	15	7.1	23
Zinc	5	mg/kg	11	47	18	44

Client Sample ID			DUP04	DUP06	Sspk3973	ED-B8_0.5-0.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023677	M23-Fe0023678	M23-Fe0023680	M23-Fe0024143
Date Sampled			Feb 03, 2023	Feb 03, 2023	Not Provided[I12]	Feb 02, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	-	-
TRH C10-C14	20	mg/kg	< 20	< 20	-	-
TRH C15-C28	50	mg/kg	< 50	59	-	-
TRH C29-C36	50	mg/kg	< 50	61	-	-
TRH C10-C36 (Total)	50	mg/kg	< 50	120	-	-
TRH C6-C10	20	mg/kg	< 20	< 20	-	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	-	-

Client Sample ID			DUP04	DUP06	Sspk3973	ED-B8_0.5-0.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023677	M23-Fe0023678	M23-Fe0023680	M23-Fe0024143
Date Sampled			Feb 03, 2023	Feb 03, 2023	Not Provided[I12]	Feb 02, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH >C10-C16	50	mg/kg	< 50	< 50	-	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	-	-
TRH >C16-C34	100	mg/kg	< 100	110	-	-
TRH >C34-C40	100	mg/kg	< 100	< 100	-	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	110	-	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	31	-
Toluene	0.1	mg/kg	< 0.1	< 0.1	37	-
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	28	-
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	30	-
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	50	-
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	37	-
4-Bromofluorobenzene (surr.)	1	%	82	70	95	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	-	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	-	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	-	-
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	-	-
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	-	-
Anthracene	0.5	mg/kg	< 0.5	< 0.5	-	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	-
Chrysene	0.5	mg/kg	< 0.5	< 0.5	-	-
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	-
Fluoranthene	0.5	mg/kg	< 0.5	0.8	-	-
Fluorene	0.5	mg/kg	< 0.5	< 0.5	-	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	-	-
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Pyrene	0.5	mg/kg	< 0.5	0.8	-	-
Total PAH*	0.5	mg/kg	< 0.5	1.6	-	-
2-Fluorobiphenyl (surr.)	1	%	97	100	-	-
p-Terphenyl-d14 (surr.)	1	%	91	86	-	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	-	-
4.4'-DDD	0.05	mg/kg	< 0.05	0.08	-	-
4.4'-DDE	0.05	mg/kg	< 0.05	0.07	-	-
4.4'-DDT	0.05	mg/kg	< 0.05	0.11	-	-
a-HCH	0.05	mg/kg	< 0.05	< 0.05	-	-
Aldrin	0.05	mg/kg	< 0.05	< 0.05	-	-
b-HCH	0.05	mg/kg	< 0.05	< 0.05	-	-
d-HCH	0.05	mg/kg	< 0.05	< 0.05	-	-
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	-	-

Client Sample ID			DUP04	DUP06	Sspk3973	ED-B8_0.5-0.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023677	M23-Fe0023678	M23-Fe0023680	M23-Fe0024143
Date Sampled			Feb 03, 2023	Feb 03, 2023	Not Provided[112]	Feb 02, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	-	-
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	-	-
Endrin	0.05	mg/kg	< 0.05	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	-	-
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	-	-
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	-	-
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	-	-
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	-	-
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	0.26	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	0.26	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	96	86	-	-
Tetrachloro-m-xylene (surr.)	1	%	119	99	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1	-	-
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	-	-
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1	-	-
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1	-	-
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	-	-
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	-	-
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	-	-
Total PCB*	0.1	mg/kg	< 0.1	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	96	86	-	-
Tetrachloro-m-xylene (surr.)	1	%	119	99	-	-
% Moisture	1	%	5.0	10	-	11
Heavy Metals						
Arsenic	2	mg/kg	4.8	7.6	-	4.3
Cadmium	0.4	mg/kg	1.3	3.0	-	< 0.4
Chromium	5	mg/kg	17	21	-	52
Copper	5	mg/kg	17	27	-	28
Lead	5	mg/kg	500	240	-	43
Mercury	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Nickel	5	mg/kg	12	16	-	31
Zinc	5	mg/kg	350	880	-	95
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1-Dichloroethene	0.5	mg/kg	-	< 0.5	-	-
1.1.1-Trichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.2-Trichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dibromoethane	0.5	mg/kg	-	< 0.5	-	-

Client Sample ID			DUP04	DUP06	Sspk3973	ED-B8_0.5-0.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023677	M23-Fe0023678	M23-Fe0023680	M23-Fe0024143
Date Sampled			Feb 03, 2023	Feb 03, 2023	Not Provided[I12]	Feb 02, 2023
Test/Reference	LOR	Unit				
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	-	-
1.2.3-Trichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	-
1.3-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
1.3-Dichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	-
1.4-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	-	-
4-Chlorotoluene	0.5	mg/kg	-	< 0.5	-	-
4-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-1.3-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	-	-
Isopropyl benzene (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*	0.3	mg/kg	-	< 0.3	-	-
Total MAH*	0.5	mg/kg	-	< 0.5	-	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	< 0.5	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	< 0.5	-	-

Client Sample ID			DUP04	DUP06	Sspk3973	ED-B8_0.5-0.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023677	M23-Fe0023678	M23-Fe0023680	M23-Fe0024143
Date Sampled			Feb 03, 2023	Feb 03, 2023	Not Provided[I12]	Feb 02, 2023
Test/Reference	LOR	Unit				
Volatile Organics						
4-Bromofluorobenzene (surr.)	1	%	-	70	-	-
Toluene-d8 (surr.)	1	%	-	76	-	-

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
JBS&G Suite 2			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	Feb 14, 2023	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Feb 14, 2023	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Feb 14, 2023	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Melbourne	Feb 16, 2023	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			
Polycyclic Aromatic Hydrocarbons	Melbourne	Feb 14, 2023	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Organochlorine Pesticides	Melbourne	Feb 14, 2023	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8270)			
Polychlorinated Biphenyls	Melbourne	Feb 14, 2023	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8082)			
Metals M8	Melbourne	Feb 17, 2023	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
NEPM Screen for Soil Classification			
% Clay	Brisbane	Feb 16, 2023	14 Days
- Method: LTM-GEN-7040			
Conductivity (1:5 aqueous extract at 25 °C as rec.)	Melbourne	Feb 14, 2023	7 Days
- Method: LTM-INO-4030 Conductivity			
pH (units)(1:5 soil:CaCl2 extract at 25 °C as rec.)	Melbourne	Feb 14, 2023	7 Days
- Method: LTM-GEN-7090 pH in soil by ISE			
Total Organic Carbon	Melbourne	Feb 15, 2023	28 Days
- Method: LTM-INO-4060 Total Organic Carbon in water and soil			
Heavy Metals	Melbourne	Feb 14, 2023	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Cation Exchange Capacity	Melbourne	Feb 15, 2023	28 Days
- Method: LTM-MET-3060 Cation Exchange Capacity by bases & Exchangeable Sodium Percentage			
% Moisture	Melbourne	Feb 10, 2023	14 Days
- Method: LTM-GEN-7080 Moisture			
Eurofins Suite B8 (filtered metals)			
Volatile Organics	Melbourne	Feb 14, 2023	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices (USEPA 8260)			

eurofins

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

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261 Site# 25403

Sydney
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261 Site# 18217

Canberra
Unit 1,2 Dacre Street
Mitchell
ACT 2911
Tel: +61 2 6113 8091
NATA# 1261 Site# 25466

Brisbane
1/21 Smallwood Place
Murarrie
QLD 4172
Tel: +61 7 3902 4600
NATA# 1261 Site# 20794

Newcastle
1/2 Frost Drive
Mayfield West NSW 2304
Tel: +61 2 4968 8448
NATA# 1261
Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

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

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

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

Project Name: BHHR
Project ID: 63879

Order No.:
Report #: 962621
Phone: 02 8245 0300
Fax:

Received: Feb 9, 2023 10:22 AM
Due: Feb 16, 2023
Priority: 5 Day
Contact Name: Mitch Hodgins

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Hardness Set	Volatile Organics	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B8 (filtered metals)	JBS&G Suite 2	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
External Laboratory																		
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**													
1	KW-B1_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023564									X	X		X	
2	KW-B1_0.2-0.3	Feb 03, 2023		Soil	M23-Fe0023565				X	X				X				
3	KW-B1_0.0-0.5	Feb 03, 2023		Soil	M23-Fe0023566	X												
4	KW-B2_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023567									X			X	
5	KW-B2_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023568	X												
6	KW-B2_0.1-0.3	Feb 03, 2023		Soil	M23-Fe0023569			X										
7	KW-B2_0.3-	Feb 03, 2023		Soil	M23-Fe0023570									X			X	

eurofins

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

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261 Site# 25403

Sydney
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261 Site# 18217

Canberra
Unit 1,2 Dacre Street
Mitchell
ACT 2911
Tel: +61 2 6113 8091
NATA# 1261 Site# 25466

Brisbane
1/21 Smallwood Place
Murarrie
QLD 4172
Tel: +61 7 3902 4600
NATA# 1261 Site# 20794

Newcastle
1/2 Frost Drive
Mayfield West NSW 2304
Tel: +61 2 4968 8448
NATA# 1261
Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

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

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

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

Project Name: BHHR
Project ID: 63879

Order No.:
Report #: 962621
Phone: 02 8245 0300
Fax:

Received: Feb 9, 2023 10:22 AM
Due: Feb 16, 2023
Priority: 5 Day
Contact Name: Mitch Hodgins

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Hardness Set	Volatile Organics	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B8 (filtered metals)	JBS&G Suite 2	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	0.4																	
8	KW-B3_0.1-0.2	Feb 03, 2023		Soil	M23-Fe0023571								X	X			X	
9	KW-B3_0.25-0.3	Feb 03, 2023		Soil	M23-Fe0023572									X			X	
10	KW-B3_0.0-0.4	Feb 03, 2023		Soil	M23-Fe0023573	X												
11	KW-B3_0.0-0.4A	Feb 03, 2023		Building Materials	M23-Fe0023574		X											
12	KW-B4_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023575				X	X				X				
13	KW-B4_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023576	X												
14	KW-B4_0.1-0.3	Feb 03, 2023		Soil	M23-Fe0023577									X			X	
15	KW-B4_0.1-	Feb 03, 2023		Soil	M23-Fe0023578	X												

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

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261 Site# 25403

Sydney
179 Magowar Road
Girraween
NSW 2145
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NATA# 1261 Site# 18217

Canberra
Unit 1,2 Dacre Street
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ACT 2911
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Brisbane
1/21 Smallwood Place
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QLD 4172
Tel: +61 7 3902 4600
NATA# 1261 Site# 20794

Newcastle
1/2 Frost Drive
Mayfield West NSW 2304
Tel: +61 2 4968 8448
NATA# 1261
Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

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

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

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Address: Level 1, 50 Margaret St
Sydney
NSW 2000

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Project ID: 63879

Order No.:
Report #: 962621
Phone: 02 8245 0300
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Received: Feb 9, 2023 10:22 AM
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Contact Name: Mitch Hodgins

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Hardness Set	Volatile Organics	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B8 (filtered metals)	JBS&G Suite 2	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	0.3																	
16	KW-B4_0.1-0.3A	Feb 03, 2023		Building Materials	M23-Fe0023579		X											
17	KW-B5_0.1-0.2	Feb 03, 2023		Soil	M23-Fe0023580									X	X		X	
18	KW-B5_0.4-0.5	Feb 03, 2023		Soil	M23-Fe0023581				X	X				X				
19	KW-B5_0.1-0.4	Feb 03, 2023		Soil	M23-Fe0023582	X												
20	KW-B5_0.4-1.0	Feb 03, 2023		Soil	M23-Fe0023583	X												
21	KW-B6_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023584				X	X				X				
22	KW-B6_0.5-0.6	Feb 03, 2023		Soil	M23-Fe0023585									X			X	
23	KW-B7_0.2-	Feb 03, 2023		Soil	M23-Fe0023586									X			X	

eurofins

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

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261 Site# 25403

Sydney
179 Magowar Road
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Perth
46-48 Banksia Road
Welshpool
WA 6106
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Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
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Received: Feb 9, 2023 10:22 AM
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Contact Name: Mitch Hodgins

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Hardness Set	Volatile Organics	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B8 (filtered metals)	JBS&G Suite 2	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	0.3																	
24	KW-B7_0.5-0.6	Feb 03, 2023		Soil	M23-Fe0023587				X	X				X				
25	KW-B7_0.0-0.6	Feb 03, 2023		Soil	M23-Fe0023588	X												
26	KW-B7_0.0-0.6A	Feb 03, 2023		Building Materials	M23-Fe0023589		X											
27	KW-B8_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023590									X			X	
28	KW-B8_0.2-0.4	Feb 03, 2023		Soil	M23-Fe0023591								X	X			X	
29	KW-B8_0.0-0.4	Feb 03, 2023		Soil	M23-Fe0023592	X												
30	MH-B1_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023594					X				X				
31	MH-B1_0.0-	Feb 03, 2023		Soil	M23-Fe0023595	X												

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

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261 Site# 25403

Sydney
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261 Site# 18217

Canberra
Unit 1,2 Dacre Street
Mitchell
ACT 2911
Tel: +61 2 6113 8091
NATA# 1261 Site# 25466

Brisbane
1/21 Smallwood Place
Murarrie
QLD 4172
Tel: +61 7 3902 4600
NATA# 1261 Site# 20794

Newcastle
1/2 Frost Drive
Mayfield West NSW 2304
Tel: +61 2 4968 8448
NATA# 1261
Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

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

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

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

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Fax:

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Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Hardness Set	Volatile Organics	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B8 (filtered metals)	JBS&G Suite 2	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	0.1																	
32	MH-B1_0.1-0.2	Feb 03, 2023		Soil	M23-Fe0023596								X	X			X	
33	MH-B1_0.1-0.2	Feb 03, 2023		Soil	M23-Fe0023597	X												
34	MH-B1_0.2-0.3	Feb 03, 2023		Soil	M23-Fe0023598					X				X				
35	MH-B1_0.2-0.3	Feb 03, 2023		Soil	M23-Fe0023599	X												
36	MH-B2_0.2-0.3	Feb 03, 2023		Soil	M23-Fe0023600					X				X				
37	MH-B2_0.4-0.5	Feb 03, 2023		Soil	M23-Fe0023601									X			X	
38	MH-B2_0.2-0.8	Feb 03, 2023		Soil	M23-Fe0023602	X												
39	MH-B3_0.0-	Feb 03, 2023		Soil	M23-Fe0023603									X			X	

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

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ABN: 50 005 085 521

Melbourne
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Dandenong South
VIC 3175
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NATA# 1261 Site# 1254

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Mayfield West NSW 2304
Tel: +61 2 4968 8448
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ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
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NATA# 2377 Site# 2370

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
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Tel: 0800 856 450
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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	0.1																	
40	MH-B3_0.2-0.3	Feb 03, 2023		Soil	M23-Fe0023604					X				X				
41	MH-B3_0.8-1.0	Feb 03, 2023		Soil	M23-Fe0023605									X			X	
42	MH-B3_0.0-0.6	Feb 03, 2023		Soil	M23-Fe0023606	X												
43	MH-B3_0.8-1.0	Feb 03, 2023		Soil	M23-Fe0023607	X												
44	MH-B4_0.2-0.3	Feb 03, 2023		Soil	M23-Fe0023608									X			X	
45	MH-B4_0.6-0.7	Feb 03, 2023		Soil	M23-Fe0023609					X				X				
46	MH-B4_0.0-0.6	Feb 03, 2023		Soil	M23-Fe0023610	X												
47	MH-B5_0.0-	Feb 02, 2023		Soil	M23-Fe0023611					X				X				

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

Melbourne
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Perth
46-48 Banksia Road
Welshpool
WA 6106
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NZBN: 9429046024954

Auckland
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Penrose,
Auckland 1061
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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	0.1																	
48	MH-B5_0.1-0.2	Feb 02, 2023		Soil	M23-Fe0023612									X			X	
49	MH-B5_0.4-0.5	Feb 02, 2023		Soil	M23-Fe0023613									X			X	
50	MH-B5_0.8-0.9	Feb 02, 2023		Soil	M23-Fe0023614					X				X				
51	MH-B5_0.0-0.9	Feb 02, 2023		Soil	M23-Fe0023615	X												
52	MH-B6_0.0-0.1	Feb 02, 2023		Soil	M23-Fe0023616								X	X			X	
53	MH-B6_0.2-0.3	Feb 02, 2023		Soil	M23-Fe0023617				X	X				X	X			
54	MH-B6_0.4-0.5	Feb 02, 2023		Soil	M23-Fe0023618					X				X				
55	MH-B6_0.0-	Feb 02, 2023		Soil	M23-Fe0023619	X												

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

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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

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Grovedale
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Newcastle
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Mayfield West NSW 2304
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ABN: 91 05 0159 898

Perth
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Welshpool
WA 6106
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NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

Christchurch
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Rolleston,
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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	0.6																	
56	MH-B7_0.0-0.1	Feb 02, 2023		Soil	M23-Fe0023620				X	X				X				
57	MH-B7_0.2-0.3	Feb 02, 2023		Soil	M23-Fe0023621									X			X	
58	MH-B7_0.9-1.0	Feb 02, 2023		Soil	M23-Fe0023622									X			X	
59	MH-B7_0.0-1.0	Feb 02, 2023		Soil	M23-Fe0023623	X												
60	MH-B8_0.1-0.2	Feb 02, 2023		Soil	M23-Fe0023624				X	X				X				
61	MH-B8_0.4-0.5	Feb 02, 2023		Soil	M23-Fe0023625									X			X	
62	MH-B8_0.5-0.6	Feb 02, 2023		Soil	M23-Fe0023626					X				X				
63	MH-B8_0.1-	Feb 02, 2023		Soil	M23-Fe0023627	X												

eurofins

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

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261 Site# 25403

Sydney
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
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Canberra
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Mitchell
ACT 2911
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NATA# 1261 Site# 25466

Brisbane
1/21 Smallwood Place
Murarrie
QLD 4172
Tel: +61 7 3902 4600
NATA# 1261 Site# 20794

Newcastle
1/2 Frost Drive
Mayfield West NSW 2304
Tel: +61 2 4968 8448
NATA# 1261
Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

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

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NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	0.3																	
64	MH-B8_0.3-0.5	Feb 02, 2023		Soil	M23-Fe0023628	X												
65	MH-B9_0.0-0.1	Feb 02, 2023		Soil	M23-Fe0023629				X	X				X				
66	MH-B9_0.2-0.3	Feb 02, 2023		Soil	M23-Fe0023630									X			X	
67	MH-B9_0.9-1.0	Feb 02, 2023		Soil	M23-Fe0023631									X			X	
68	MH-B9_0.0-0.5	Feb 02, 2023		Soil	M23-Fe0023632	X												
69	MH-B10_0.0-0.2	Feb 02, 2023		Soil	M23-Fe0023633									X			X	
70	MH-B10_0.0-0.2	Feb 02, 2023		Soil	M23-Fe0023634	X												
71	MH-B10_0.0-	Feb 02, 2023		Building	M23-Fe0023635		X											

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

Melbourne
6 Monterey Road
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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	0.2A			Materials														
72	MH-B10_0.2-0.4	Feb 02, 2023		Soil	M23-Fe0023636									X			X	
73	MH-B10_0.5-0.6	Feb 02, 2023		Soil	M23-Fe0023637					X				X				
74	MH-B10_0.2-1.0	Feb 02, 2023		Soil	M23-Fe0023638	X												
75	MH-B10_0.2-1.0A	Feb 02, 2023		Building Materials	M23-Fe0023639		X											
76	ED-B1_0.0-0.1	Feb 02, 2023		Soil	M23-Fe0023640									X	X		X	
77	ED-B1_0.4-0.5	Feb 02, 2023		Soil	M23-Fe0023641				X	X				X				
78	ED-B1_0.9-1.0	Feb 02, 2023		Soil	M23-Fe0023642					X				X				
79	ED-B1_0.0-1.0	Feb 02, 2023		Soil	M23-Fe0023643	X												
80	ED-B2_0.0-0.1	Feb 04, 2023		Soil	M23-Fe0023644				X	X				X				
81	ED-B2_0.2-0.3	Feb 04, 2023		Soil	M23-Fe0023645									X			X	

eurofins

web: www.eurofins.com.au
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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
82	ED-B2_0.0-0.3	Feb 04, 2023		Soil	M23-Fe0023646	X												
83	ED-B3_0.0-0.1	Feb 04, 2023		Soil	M23-Fe0023647									X			X	
84	ED-B3_0.2-0.3	Feb 04, 2023		Soil	M23-Fe0023648					X				X				
85	ED-B3_0.0-0.7	Feb 04, 2023		Soil	M23-Fe0023649	X												
86	ED-B4_0.1-0.2	Feb 04, 2023		Soil	M23-Fe0023650					X				X				
87	ED-B4_0.4-0.5	Feb 04, 2023		Soil	M23-Fe0023651									X			X	
88	ED-B4_0.1-0.5	Feb 04, 2023		Soil	M23-Fe0023652	X												
89	ED-B5_0.0-0.1	Feb 02, 2023		Soil	M23-Fe0023653									X			X	
90	ED-B5_0.2-0.3	Feb 02, 2023		Soil	M23-Fe0023654					X				X				
91	ED-B5_0.0-0.3	Feb 02, 2023		Soil	M23-Fe0023655	X												
92	ED-B6_0.1-0.2	Feb 02, 2023		Soil	M23-Fe0023656					X				X				
93	ED-B6_0.2-0.3	Feb 02, 2023		Soil	M23-Fe0023657									X			X	
94	ED-B6_0.1-0.3	Feb 02, 2023		Soil	M23-Fe0023658	X												
95	ED-B7_0.0-0.2	Feb 04, 2023		Soil	M23-Fe0023659									X			X	

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

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261 Site# 25403

Sydney
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261 Site# 18217

Canberra
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Mitchell
ACT 2911
Tel: +61 2 6113 8091
NATA# 1261 Site# 25466

Brisbane
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Murarrie
QLD 4172
Tel: +61 7 3902 4600
NATA# 1261 Site# 20794

Newcastle
1/2 Frost Drive
Mayfield West NSW 2304
Tel: +61 2 4968 8448
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Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

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

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
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Sydney
NSW 2000

Project Name: BHHR
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Order No.:
Report #: 962621
Phone: 02 8245 0300
Fax:

Received: Feb 9, 2023 10:22 AM
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Priority: 5 Day
Contact Name: Mitch Hodgins

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Hardness Set	Volatile Organics	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B8 (filtered metals)	JBS&G Suite 2	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
96	ED-B7_0.0-0.2	Feb 04, 2023		Soil	M23-Fe0023660	X												
97	ED-B7_0.2-0.3	Feb 04, 2023		Soil	M23-Fe0023661				X	X				X				
98	ED-B8_0.0-0.2	Feb 04, 2023		Soil	M23-Fe0023662				X	X				X				
99	ED-B8_0.3-0.4	Feb 04, 2023		Soil	M23-Fe0023663									X			X	
100	ED-B8_0.8-1.0	Feb 04, 2023		Soil	M23-Fe0023665									X			X	
101	ED-B8_0.0-0.6	Feb 04, 2023		Soil	M23-Fe0023666	X												
102	ED-B9_0.0-0.1	Feb 04, 2023		Soil	M23-Fe0023667				X	X				X				
103	ED-B9_0.0-0.1	Feb 04, 2023		Soil	M23-Fe0023668	X												
104	ED-B9_0.1-0.2	Feb 04, 2023		Soil	M23-Fe0023669									X			X	
105	ED-B9_0.1-0.5	Feb 04, 2023		Soil	M23-Fe0023670	X												
106	GW01	Feb 05, 2023		Water	M23-Fe0023671							X				X		X
107	GW02	Feb 05, 2023		Water	M23-Fe0023672							X				X		X
108	GW03	Feb 05, 2023		Water	M23-Fe0023673							X				X		X
109	DUP01	Feb 02, 2023		Soil	M23-Fe0023674									X			X	

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

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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

Geelong
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Grovedale
VIC 3216
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Sydney
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Girraween
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Brisbane
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Murarrie
QLD 4172
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Newcastle
1/2 Frost Drive
Mayfield West NSW 2304
Tel: +61 2 4968 8448
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Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

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

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
110	DUP02	Feb 02, 2023		Soil	M23-Fe0023675				X	X				X				
111	DUP03	Feb 03, 2023		Soil	M23-Fe0023676									X			X	
112	DUP04	Feb 03, 2023		Soil	M23-Fe0023677									X			X	
113	DUP06	Feb 03, 2023		Soil	M23-Fe0023678								X	X			X	
114	DUP01	Feb 05, 2023		Water	M23-Fe0023679											X		X
115	Sspk3973	Not Provided		Soil	M23-Fe0023680						X							
116	Wsp8872	Not Provided		Water	M23-Fe0023681						X							
117	WTB01	Feb 05, 2023		Water	M23-Fe0023682						X							
118	STB01	Feb 05, 2023		Water	M23-Fe0023683						X							
119	KW-B1_0.4-0.5	Feb 03, 2023		Soil	M23-Fe0023684			X										
120	KW-B2_0.1-0.3	Feb 03, 2023		Soil	M23-Fe0023685	X												
121	KW-B3_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023686			X										

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

Melbourne
6 Monterey Road
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Welshpool
WA 6106
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NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

Christchurch
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Rolleston,
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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
122	KW-B3_0.3-0.4	Feb 03, 2023		Soil	M23-Fe0023687			X										
123	KW-B3_0.4-0.5	Feb 03, 2023		Soil	M23-Fe0023688			X										
124	KW-B4_0.3-0.4	Feb 03, 2023		Soil	M23-Fe0023689			X										
125	KW-B5_0.9-1.0	Feb 03, 2023		Soil	M23-Fe0023691			X										
126	KW-B6_0.2-0.3	Feb 03, 2023		Soil	M23-Fe0023692			X										
127	KW-B6_0.0-0.6	Feb 03, 2023		Soil	M23-Fe0023693			X										
128	KW-B7_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023694			X										
129	MH-B2_0.8-0.9	Feb 03, 2023		Soil	M23-Fe0023695			X										

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

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South
VIC 3175
Tel: +61 3 8564 5000
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Newcastle
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ABN: 91 05 0159 898

Perth
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Welshpool
WA 6106
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NATA# 2377 Site# 2370

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

Christchurch
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Rolleston,
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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
130	MH-B2_1.4-1.5	Feb 03, 2023		Soil	M23-Fe0023696			X										
131	MH-B3_0.5-0.6	Feb 03, 2023		Soil	M23-Fe0023697			X										
132	MH-B6_0.6-0.7	Feb 02, 2023		Soil	M23-Fe0023698			X										
133	MH-B7_0.4-0.5	Feb 02, 2023		Soil	M23-Fe0023699			X										
134	MH-B7_1.1-1.2	Feb 02, 2023		Soil	M23-Fe0023700			X										
135	MH-B8_0.9-1.0	Feb 02, 2023		Soil	M23-Fe0023701			X										
136	MH-B9_0.5-0.6	Feb 02, 2023		Soil	M23-Fe0023702			X										
137	MH-B10_1.0-1.1	Feb 02, 2023		Soil	M23-Fe0023703			X										

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

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261 Site# 25403

Sydney
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
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Brisbane
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Welshpool
WA 6106
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Auckland
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Penrose,
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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
138	MH-B10_1.4-1.5	Feb 02, 2023		Soil	M23-Fe0023704			X										
139	ED-B1_0.2-0.3	Feb 02, 2023		Soil	M23-Fe0023705			X										
140	ED-B1_1.4-1.5	Feb 02, 2023		Soil	M23-Fe0023706			X										
141	ED-B1_1.9-2.0	Feb 02, 2023		Soil	M23-Fe0023707			X										
142	ED-B2_0.5-0.6	Feb 04, 2023		Soil	M23-Fe0023708			X										
143	ED-B3_0.5-0.6	Feb 04, 2023		Soil	M23-Fe0023709			X										
144	ED-B3_0.7-0.8	Feb 04, 2023		Soil	M23-Fe0023710			X										
145	ED-B4_0.5-0.6	Feb 04, 2023		Soil	M23-Fe0023711			X										
146	ED-B5_0.3-0.4	Feb 02, 2023		Soil	M23-Fe0023712			X										
147	ED-B5_0.9-1.0	Feb 02, 2023		Soil	M23-Fe0023713			X										
148	ED-B6_0.3-0.4	Feb 02, 2023		Soil	M23-Fe0023714			X										
149	ED-B6_0.9-1.0	Feb 02, 2023		Soil	M23-Fe0023715			X										
150	ED-B7_0.3-0.4	Feb 04, 2023		Soil	M23-Fe0023716			X										

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ABN: 50 005 085 521

Melbourne
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Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
151	ED-B7_0.5-0.65	Feb 04, 2023		Soil	M23-Fe0023717			X										
152	ED-B9_0.5-0.6	Feb 04, 2023		Soil	M23-Fe0023718			X										
153	DUP05	Feb 03, 2023		Soil	M23-Fe0023719			X										
154	DUP07	Feb 04, 2023		Soil	M23-Fe0023720			X										
155	DUP08	Feb 04, 2023		Soil	M23-Fe0023721			X										
156	WRB01	Not Provided		Water	M23-Fe0023722												X	
157	SRB01	Not Provided		Water	M23-Fe0023723												X	
158	SRB02	Not Provided		Water	M23-Fe0023724			X										
159	SRB03	Not Provided		Water	M23-Fe0023725			X										
160	ED_B6_0.3-1.0	Not Provided		Soil	M23-Fe0023726			X										
161	KW_B8_0.4-0.5	Not Provided		Building Materials	M23-Fe0023727			X										
162	UNLABELLED	Not Provided		Building	M23-Fe0023728			X										

eurofins

web: www.eurofins.com.au
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Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Hardness Set	Volatile Organics	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B8 (filtered metals)	JBS&G Suite 2	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	ASB BAG			Materials														
163	MH_B4_0.4-0.5	Not Provided		Soil	M23-Fe0023729			X										
164	KW_B2_0.5-0.7	Not Provided		Soil	M23-Fe0024121			X										
165	ED-B8_0.5-0.6	Feb 02, 2023		Soil	M23-Fe0024143					X				X				
Test Counts						35	5	44	15	31	4	3	5	71	4	4	42	4

Internal Quality Control Review and Glossary

General

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

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

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

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

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
µg/L: micrograms per litre
ppm: parts per million
ppb: parts per billion
%: Percentage
org/100 mL: Organisms per 100 millilitres
NTU: Nephelometric Turbidity Units
MPN/100 mL: Most Probable Number of organisms per 100 millilitres
CFU: Colony forming unit

Terms

APHA	American Public Health Association
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 5.4
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-HCH	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-HCH	mg/kg	< 0.05			0.05	Pass	
d-HCH	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-HCH (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.05			0.05	Pass	
Toxaphene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.1			0.1	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	Pass	
Aroclor-1232	mg/kg	< 0.1			0.1	Pass	
Aroclor-1242	mg/kg	< 0.1			0.1	Pass	
Aroclor-1248	mg/kg	< 0.1			0.1	Pass	
Aroclor-1254	mg/kg	< 0.1			0.1	Pass	
Aroclor-1260	mg/kg	< 0.1			0.1	Pass	
Total PCB*	mg/kg	< 0.1			0.1	Pass	
Method Blank							
Total Organic Carbon	%	< 0.1			0.1	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Iron	mg/kg	< 20			20	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
Method Blank							
Cation Exchange Capacity							
Cation Exchange Capacity	meq/100g	< 0.05			0.05	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
1.1.1-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.1.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dibromoethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichlorobenzene	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	
1.2.3-Trichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.4-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.3.5-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
2-Butanone (MEK)	mg/kg	< 0.5			0.5	Pass	
2-Propanone (Acetone)	mg/kg	< 0.5			0.5	Pass	
4-Chlorotoluene	mg/kg	< 0.5			0.5	Pass	
4-Methyl-2-pentanone (MIBK)	mg/kg	< 0.5			0.5	Pass	
Allyl chloride	mg/kg	< 0.5			0.5	Pass	
Benzene	mg/kg	< 0.1			0.1	Pass	
Bromobenzene	mg/kg	< 0.5			0.5	Pass	
Bromochloromethane	mg/kg	< 0.5			0.5	Pass	
Bromodichloromethane	mg/kg	< 0.5			0.5	Pass	
Bromoform	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 Tetrachloride	mg/kg	< 0.5			0.5	Pass	
Chlorobenzene	mg/kg	< 0.5			0.5	Pass	
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	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
Iodomethane	mg/kg	< 0.5			0.5	Pass	
Isopropyl benzene (Cumene)	mg/kg	< 0.5			0.5	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
Methylene Chloride	mg/kg	< 0.5			0.5	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Styrene	mg/kg	< 0.5			0.5	Pass	
Tetrachloroethene	mg/kg	< 0.5			0.5	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
trans-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Trichloroethene	mg/kg	< 0.5			0.5	Pass	
Trichlorofluoromethane	mg/kg	< 0.5			0.5	Pass	
Vinyl chloride	mg/kg	< 0.5			0.5	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	93			70-130	Pass	
TRH C10-C14	%	103			70-130	Pass	
TRH C6-C10	%	92			70-130	Pass	
TRH >C10-C16	%	104			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	90			70-130	Pass	
Toluene	%	89			70-130	Pass	
Ethylbenzene	%	89			70-130	Pass	
m&p-Xylenes	%	94			70-130	Pass	
Xylenes - Total*	%	92			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	96			70-130	Pass	
LCS - % Recovery							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	103			70-130	Pass	
Acenaphthylene	%	98			70-130	Pass	
Anthracene	%	91			70-130	Pass	
Benz(a)anthracene	%	113			70-130	Pass	
Benzo(a)pyrene	%	93			70-130	Pass	
Benzo(b&j)fluoranthene	%	100			70-130	Pass	
Benzo(g.h.i)perylene	%	103			70-130	Pass	
Benzo(k)fluoranthene	%	106			70-130	Pass	
Chrysene	%	118			70-130	Pass	
Dibenz(a.h)anthracene	%	72			70-130	Pass	
Fluoranthene	%	89			70-130	Pass	
Fluorene	%	97			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	86			70-130	Pass	
Naphthalene	%	130			70-130	Pass	
Phenanthrene	%	84			70-130	Pass	
Pyrene	%	101			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	105			70-130	Pass	
4.4'-DDD	%	124			70-130	Pass	
4.4'-DDE	%	124			70-130	Pass	
4.4'-DDT	%	79			70-130	Pass	
a-HCH	%	106			70-130	Pass	
Aldrin	%	127			70-130	Pass	
b-HCH	%	79			70-130	Pass	
d-HCH	%	97			70-130	Pass	
Dieldrin	%	93			70-130	Pass	
Endosulfan I	%	112			70-130	Pass	
Endosulfan II	%	111			70-130	Pass	
Endosulfan sulphate	%	96			70-130	Pass	
Endrin	%	102			70-130	Pass	
Endrin aldehyde	%	117			70-130	Pass	
Endrin ketone	%	109			70-130	Pass	
g-HCH (Lindane)	%	115			70-130	Pass	
Heptachlor	%	92			70-130	Pass	
Heptachlor epoxide	%	97			70-130	Pass	
Hexachlorobenzene	%	125			70-130	Pass	
Methoxychlor	%	80			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1260	%	87			70-130	Pass	
LCS - % Recovery							
% Clay	%	90			70-130	Pass	
Conductivity (1:5 aqueous extract at 25 °C as rec.)	%	95			70-130	Pass	
Total Organic Carbon	%	94			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	82			80-120	Pass	
Cadmium	%	105			80-120	Pass	
Chromium	%	89			80-120	Pass	
Copper	%	86			80-120	Pass	
Iron	%	97			80-120	Pass	
Lead	%	85			80-120	Pass	

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Mercury			%	105			80-120	Pass	
Nickel			%	85			80-120	Pass	
Zinc			%	89			80-120	Pass	
LCS - % Recovery									
Volatile Organics									
1.1-Dichloroethene			%	75			70-130	Pass	
1.1.1-Trichloroethane			%	77			70-130	Pass	
1.2-Dichlorobenzene			%	91			70-130	Pass	
1.2-Dichloroethane			%	89			70-130	Pass	
Trichloroethene			%	82			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	M23-Fe0028227	NCP	%	78			70-130	Pass	
4.4'-DDD	M23-Fe0028227	NCP	%	97			70-130	Pass	
4.4'-DDE	M23-Fe0028227	NCP	%	86			70-130	Pass	
4.4'-DDT	M23-Fe0028227	NCP	%	72			70-130	Pass	
a-HCH	M23-Fe0028227	NCP	%	87			70-130	Pass	
Aldrin	M23-Fe0028227	NCP	%	78			70-130	Pass	
b-HCH	M23-Fe0028227	NCP	%	92			70-130	Pass	
d-HCH	M23-Fe0028227	NCP	%	84			70-130	Pass	
Dieldrin	M23-Fe0028227	NCP	%	80			70-130	Pass	
Endosulfan I	M23-Fe0028227	NCP	%	89			70-130	Pass	
Endosulfan II	M23-Fe0028227	NCP	%	94			70-130	Pass	
Endosulfan sulphate	M23-Fe0028227	NCP	%	75			70-130	Pass	
Endrin	M23-Fe0028227	NCP	%	89			70-130	Pass	
Endrin aldehyde	M23-Fe0028227	NCP	%	82			70-130	Pass	
Endrin ketone	M23-Fe0028227	NCP	%	95			70-130	Pass	
g-HCH (Lindane)	M23-Fe0028227	NCP	%	86			70-130	Pass	
Heptachlor	M23-Fe0028227	NCP	%	80			70-130	Pass	
Heptachlor epoxide	M23-Fe0028227	NCP	%	71			70-130	Pass	
Hexachlorobenzene	M23-Fe0028227	NCP	%	81			70-130	Pass	
Methoxychlor	M23-Fe0028227	NCP	%	79			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1016	M23-Fe0031570	NCP	%	86			70-130	Pass	
Aroclor-1260	M23-Fe0031570	NCP	%	79			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Iron	M23-Fe0021198	NCP	%	102			75-125	Pass	
Spike - % Recovery									
Volatile Organics				Result 1					
1.1-Dichloroethene	M23-Fe0021421	NCP	%	84			70-130	Pass	
1.1.1-Trichloroethane	M23-Fe0021421	NCP	%	81			70-130	Pass	
1.2-Dichlorobenzene	M23-Fe0021421	NCP	%	91			70-130	Pass	
1.2-Dichloroethane	M23-Fe0021421	NCP	%	92			70-130	Pass	
Trichloroethene	M23-Fe0021421	NCP	%	85			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C10-C14	M23-Fe0023580	CP	%	106			70-130	Pass	
TRH >C10-C16	M23-Fe0023580	CP	%	108			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M23-Fe0023594	CP	%	111			75-125	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Cadmium	M23-Fe0023594	CP	%	108			75-125	Pass	
Chromium	M23-Fe0023594	CP	%	109			75-125	Pass	
Copper	M23-Fe0023594	CP	%	112			75-125	Pass	
Lead	M23-Fe0023594	CP	%	123			75-125	Pass	
Mercury	M23-Fe0023594	CP	%	116			75-125	Pass	
Nickel	M23-Fe0023594	CP	%	107			75-125	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M23-Fe0023611	CP	%	110			75-125	Pass	
Cadmium	M23-Fe0023611	CP	%	108			75-125	Pass	
Chromium	M23-Fe0023611	CP	%	122			75-125	Pass	
Copper	M23-Fe0023611	CP	%	109			75-125	Pass	
Lead	M23-Fe0023611	CP	%	111			75-125	Pass	
Mercury	M23-Fe0023611	CP	%	122			75-125	Pass	
Nickel	M23-Fe0023611	CP	%	118			75-125	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C10-C14	M23-Fe0023640	CP	%	81			70-130	Pass	
TRH >C10-C16	M23-Fe0023640	CP	%	96			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	M23-Fe0023665	CP	%	85			70-130	Pass	
TRH C6-C10	M23-Fe0023665	CP	%	85			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	M23-Fe0023665	CP	%	74			70-130	Pass	
Toluene	M23-Fe0023665	CP	%	80			70-130	Pass	
Ethylbenzene	M23-Fe0023665	CP	%	84			70-130	Pass	
m&p-Xylenes	M23-Fe0023665	CP	%	94			70-130	Pass	
o-Xylene	M23-Fe0023665	CP	%	85			70-130	Pass	
Xylenes - Total*	M23-Fe0023665	CP	%	91			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	M23-Fe0023665	CP	%	91			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M23-Fe0023675	CP	%	108			75-125	Pass	
Cadmium	M23-Fe0023675	CP	%	106			75-125	Pass	
Chromium	M23-Fe0023675	CP	%	109			75-125	Pass	
Copper	M23-Fe0023675	CP	%	126			75-125	Fail	Q08
Lead	M23-Fe0023675	CP	%	114			75-125	Pass	
Mercury	M23-Fe0023675	CP	%	100			75-125	Pass	
Nickel	M23-Fe0023675	CP	%	104			75-125	Pass	
Zinc	M23-Fe0023675	CP	%	102			75-125	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	M23-Fe0023676	CP	%	119			70-130	Pass	
Acenaphthylene	M23-Fe0023676	CP	%	98			70-130	Pass	
Anthracene	M23-Fe0023676	CP	%	82			70-130	Pass	
Benz(a)anthracene	M23-Fe0023676	CP	%	77			70-130	Pass	
Benzo(a)pyrene	M23-Fe0023676	CP	%	110			70-130	Pass	
Benzo(b&j)fluoranthene	M23-Fe0023676	CP	%	79			70-130	Pass	
Benzo(g.h.i)perylene	M23-Fe0023676	CP	%	91			70-130	Pass	
Benzo(k)fluoranthene	M23-Fe0023676	CP	%	114			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Chrysene	M23-Fe0023676	CP	%	118			70-130	Pass	
Dibenz(a.h)anthracene	M23-Fe0023676	CP	%	91			70-130	Pass	
Fluoranthene	M23-Fe0023676	CP	%	81			70-130	Pass	
Fluorene	M23-Fe0023676	CP	%	92			70-130	Pass	
Indeno(1.2.3-cd)pyrene	M23-Fe0023676	CP	%	104			70-130	Pass	
Naphthalene	M23-Fe0023676	CP	%	120			70-130	Pass	
Phenanthrene	M23-Fe0023676	CP	%	78			70-130	Pass	
Pyrene	M23-Fe0023676	CP	%	84			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
				Result 1	Result 2	RPD			
Conductivity (1:5 aqueous extract at 25 °C as rec.)	M23-Ja0033651	NCP	uS/cm	21	21	<1	30%	Pass	
% Moisture	B23-Fe0018622	NCP	%	23	23	<1	30%	Pass	
Duplicate									
Cation Exchange Capacity				Result 1	Result 2	RPD			
Cation Exchange Capacity	M23-Fe0027652	NCP	meq/100g	7.6	7.5	1.5	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	M23-Fe0023570	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10	M23-Fe0023570	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	M23-Fe0023570	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	M23-Fe0023570	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	M23-Fe0023570	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	M23-Fe0023570	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	M23-Fe0023570	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	M23-Fe0023570	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	M23-Fe0023570	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1-Dichloroethene	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1-Trichloroethane	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2-Trichloroethane	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromoethane	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichlorobenzene	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloroethane	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloropropane	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3-Trichloropropane	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trimethylbenzene	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichlorobenzene	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichloropropane	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3.5-Trimethylbenzene	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.4-Dichlorobenzene	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Butanone (MEK)	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Propanone (Acetone)	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chlorotoluene	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
Allyl chloride	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromobenzene	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromochloromethane	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromodichloromethane	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromoform	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromomethane	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon disulfide	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon Tetrachloride	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chlorobenzene	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroethane	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroform	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloromethane	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.2-Dichloroethene	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.3-Dichloropropene	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromochloromethane	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromomethane	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorodifluoromethane	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Iodomethane	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Isopropyl benzene (Cumene)	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Methylene Chloride	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Styrene	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Tetrachloroethene	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.2-Dichloroethene	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.3-Dichloropropene	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichloroethene	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichlorofluoromethane	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Vinyl chloride	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C10-C14	M23-Fe0023577	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	M23-Fe0023577	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	M23-Fe0023577	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C10-C16	M23-Fe0023577	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	M23-Fe0023577	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	M23-Fe0023577	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	M23-Fe0023577	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	M23-Fe0023577	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	M23-Fe0023577	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	M23-Fe0023577	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	M23-Fe0023577	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	M23-Fe0023577	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	M23-Fe0023577	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	M23-Fe0023577	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	M23-Fe0023577	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	M23-Fe0023577	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	M23-Fe0023577	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	M23-Fe0023577	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	M23-Fe0023577	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	M23-Fe0023577	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	M23-Fe0023577	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	M23-Fe0023577	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	M23-Fe0023577	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	M23-Fe0023577	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	M23-Fe0023577	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	M23-Fe0023577	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	M23-Fe0023577	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	M23-Fe0023577	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	M23-Fe0023577	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	M23-Fe0023577	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	M23-Fe0023577	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	M23-Fe0023577	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	M23-Fe0023577	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	M23-Fe0023577	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	M23-Fe0023577	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	M23-Fe0023577	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	M23-Fe0023577	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-HCH (Lindane)	M23-Fe0023577	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	M23-Fe0023577	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	M23-Fe0023577	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	M23-Fe0023577	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	M23-Fe0023577	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Toxaphene	M23-Fe0023577	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	M23-Fe0023577	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1221	M23-Fe0023577	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	M23-Fe0023577	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1242	M23-Fe0023577	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1248	M23-Fe0023577	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1254	M23-Fe0023577	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1260	M23-Fe0023577	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Total PCB*	M23-Fe0023577	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Iron (%)	M23-Fe0022604	NCP	%	4.3	4.2	2.3	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M23-Fe0023591	CP	mg/kg	5.0	5.1	1.3	30%	Pass	
Cadmium	M23-Fe0023591	CP	mg/kg	1.0	1.1	3.6	30%	Pass	
Chromium	M23-Fe0023591	CP	mg/kg	21	22	5.1	30%	Pass	
Copper	M23-Fe0023591	CP	mg/kg	23	24	2.3	30%	Pass	
Iron	M23-Fe0023591	CP	mg/kg	23000	24000	4.6	30%	Pass	
Lead	M23-Fe0023591	CP	mg/kg	250	250	2.5	30%	Pass	
Mercury	M23-Fe0023591	CP	mg/kg	0.1	0.1	14	30%	Pass	
Nickel	M23-Fe0023591	CP	mg/kg	13	13	4.3	30%	Pass	
Zinc	M23-Fe0023591	CP	mg/kg	490	510	2.7	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M23-Fe0023594	CP	mg/kg	3.5	3.5	<1	30%	Pass	
Cadmium	M23-Fe0023594	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M23-Fe0023594	CP	mg/kg	26	27	2.2	30%	Pass	
Copper	M23-Fe0023594	CP	mg/kg	23	24	1.1	30%	Pass	
Iron	M23-Fe0023594	CP	mg/kg	18000	18000	2.3	30%	Pass	
Lead	M23-Fe0023594	CP	mg/kg	42	43	<1	30%	Pass	
Mercury	M23-Fe0023594	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Nickel	M23-Fe0023594	CP	mg/kg	14	14	1.3	30%	Pass	
Zinc	M23-Fe0023594	CP	mg/kg	120	120	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	M23-Fe0023601	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10	M23-Fe0023601	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	M23-Fe0023601	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	M23-Fe0023601	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	M23-Fe0023601	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	M23-Fe0023601	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	M23-Fe0023601	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	M23-Fe0023601	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	M23-Fe0023601	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	M23-Fe0023603	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10	M23-Fe0023603	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	M23-Fe0023603	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	M23-Fe0023603	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	M23-Fe0023603	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	M23-Fe0023603	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	M23-Fe0023603	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	M23-Fe0023603	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	M23-Fe0023603	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M23-Fe0023609	CP	mg/kg	11	11	1.2	30%	Pass	
Cadmium	M23-Fe0023609	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M23-Fe0023609	CP	mg/kg	28	30	4.6	30%	Pass	
Copper	M23-Fe0023609	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Iron	M23-Fe0023609	CP	mg/kg	25000	26000	4.1	30%	Pass	
Lead	M23-Fe0023609	CP	mg/kg	11	12	2.5	30%	Pass	
Mercury	M23-Fe0023609	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	M23-Fe0023609	CP	mg/kg	15	16	2.8	30%	Pass	
Zinc	M23-Fe0023609	CP	mg/kg	61	64	4.8	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M23-Fe0023611	CP	mg/kg	32	31	1.0	30%	Pass	
Cadmium	M23-Fe0023611	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M23-Fe0023611	CP	mg/kg	19	19	<1	30%	Pass	
Copper	M23-Fe0023611	CP	mg/kg	42	42	<1	30%	Pass	
Iron	M23-Fe0023611	CP	mg/kg	22000	22000	1.1	30%	Pass	
Lead	M23-Fe0023611	CP	mg/kg	24	24	<1	30%	Pass	
Mercury	M23-Fe0023611	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	M23-Fe0023611	CP	mg/kg	24	24	<1	30%	Pass	
Zinc	M23-Fe0023611	CP	mg/kg	59	59	<1	30%	Pass	

Duplicate									
				Result 1	Result 2	RPD			
Total Organic Carbon	M23-Fe0023617	CP	%	0.4	< 0.1	200	30%	Fail	Q15
Duplicate									
				Result 1	Result 2	RPD			
Total Organic Carbon	M23-Fe0023640	CP	%	0.3	0.8	88	30%	Fail	Q15
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	M23-Fe0023663	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10	M23-Fe0023663	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	M23-Fe0023663	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	M23-Fe0023663	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	M23-Fe0023663	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	M23-Fe0023663	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	M23-Fe0023663	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	M23-Fe0023663	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	M23-Fe0023663	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C10-C14	M23-Fe0023669	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	M23-Fe0023669	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	M23-Fe0023669	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C10-C16	M23-Fe0023669	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	M23-Fe0023669	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	M23-Fe0023669	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	M23-Fe0023669	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	M23-Fe0023669	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	M23-Fe0023669	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	M23-Fe0023669	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	M23-Fe0023669	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	M23-Fe0023669	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	M23-Fe0023669	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	M23-Fe0023669	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	M23-Fe0023669	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	M23-Fe0023669	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	M23-Fe0023669	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	M23-Fe0023669	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	M23-Fe0023669	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	M23-Fe0023669	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	M23-Fe0023669	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	M23-Fe0023669	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	M23-Fe0023669	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	M23-Fe0023669	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	M23-Fe0023669	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	M23-Fe0023669	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	M23-Fe0023669	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	M23-Fe0023669	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	M23-Fe0023669	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	

Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
d-HCH	M23-Fe0023669	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	M23-Fe0023669	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	M23-Fe0023669	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	M23-Fe0023669	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	M23-Fe0023669	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	M23-Fe0023669	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	M23-Fe0023669	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	M23-Fe0023669	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-HCH (Lindane)	M23-Fe0023669	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	M23-Fe0023669	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	M23-Fe0023669	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	M23-Fe0023669	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	M23-Fe0023669	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Toxaphene	M23-Fe0023669	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	M23-Fe0023669	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1221	M23-Fe0023669	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	M23-Fe0023669	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1242	M23-Fe0023669	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1248	M23-Fe0023669	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1254	M23-Fe0023669	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1260	M23-Fe0023669	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Total PCB*	M23-Fe0023669	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M23-Fe0023675	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Cadmium	M23-Fe0023675	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M23-Fe0023675	CP	mg/kg	11	11	2.9	30%	Pass	
Copper	M23-Fe0023675	CP	mg/kg	51	51	1.7	30%	Pass	
Iron	M23-Fe0023675	CP	mg/kg	18000	19000	2.9	30%	Pass	
Lead	M23-Fe0023675	CP	mg/kg	10.0	10	2.0	30%	Pass	
Mercury	M23-Fe0023675	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	M23-Fe0023675	CP	mg/kg	7.1	7.2	1.2	30%	Pass	
Zinc	M23-Fe0023675	CP	mg/kg	18	19	2.6	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	N/A
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
I12	Where sampling date has not been provided, Eurofins | Environment Testing is not able to determine whether analysis has been performed within recommended holding times.
Q08	The matrix spike recovery is outside of the recommended acceptance criteria. An acceptable recovery was obtained for the laboratory control sample indicating a sample matrix interference.
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised by:

Adam Bateup	Analytical Services Manager
Sayeed Abu	Senior Analyst-Asbestos
Chamath JHM Annakkage	Senior Analyst-Asbestos
Joseph Edouard	Senior Analyst-Volatile
Mary Makarios	Senior Analyst-Metal
Linda Chouman	Senior Analyst-Sample Properties
Rhys Thomas	Senior Analyst-Asbestos
Joseph Edouard	Senior Analyst-Organic
Edward Lee	Senior Analyst-Organic
Jonathon Angell	Senior Analyst-Inorganic
Harry Bacalis	Senior Analyst-Volatile
Scott Beddoes	Senior Analyst-Inorganic
Carroll Lee	Senior Analyst-Volatile



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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Certificate of Analysis

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025–Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

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

Attention:	Mitch Hodgins
Report	962621-AID
Project Name	BHHR
Project ID	63879
Received Date	Feb 09, 2023
Date Reported	Feb 22, 2023

Methodology:

Asbestos Fibre Identification	Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques. *NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.*
Unknown Mineral Fibres	Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity. *NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.*
Subsampling Soil Samples	The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed. *NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.*
Bonded asbestos-containing material (ACM)	The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination.The resultant material is then further examined in accordance with AS 4964 - 2004. *NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.*
Limit of Reporting	The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w). The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk). *NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos".This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.*

Project Name BHHR
Project ID 63879
Date Sampled Feb 02, 2023 to Feb 04, 2023
Report 962621-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
KW-B1_0.0-0.5	23-Fe0023566	Feb 03, 2023	Approximate Sample 627g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
KW-B2_0.0-0.1	23-Fe0023568	Feb 03, 2023	Approximate Sample 694g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
KW-B3_0.0-0.4	23-Fe0023573	Feb 03, 2023	Approximate Sample 763g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
KW-B3_0.0-0.4A	23-Fe0023574	Feb 03, 2023	Approximate Sample 4g / 20 x 20 x 3mm Sample consisted of: Vinyl tile	Chrysotile asbestos detected. Organic fibres detected.
KW-B4_0.0-0.1	23-Fe0023576	Feb 03, 2023	Approximate Sample 1077g Sample consisted of: Brown coarse-grained soil, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
KW-B4_0.1-0.3	23-Fe0023578	Feb 03, 2023	Approximate Sample 940g Sample consisted of: Brown coarse-grained soil, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
KW-B4_0.1-0.3A	23-Fe0023579	Feb 03, 2023	Approximate Sample 4g / 40 x 20 x 3mm Sample consisted of: Laminate sheet	No asbestos detected. Organic fibres detected. No trace asbestos detected.
KW-B5_0.1-0.4	23-Fe0023582	Feb 03, 2023	Approximate Sample 696g Sample consisted of: Brown coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
KW-B5_0.4-1.0	23-Fe0023583	Feb 03, 2023	Approximate Sample 558g Sample consisted of: Brown coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
KW-B7_0.0-0.6	23-Fe0023588	Feb 03, 2023	Approximate Sample 1137g Sample consisted of: Brown coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
KW-B7_0.0-0.6A	23-Fe0023589	Feb 03, 2023	Approximate Sample 16g / 50 x 50 x 5mm Sample consisted of: Vinyl tile	Chrysotile asbestos detected. Organic fibres detected.
KW-B8_0.0-0.4	23-Fe0023592	Feb 03, 2023	Approximate Sample 811g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
MH-B1_0.0-0.1	23-Fe0023595	Feb 03, 2023	Approximate Sample 509g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
MH-B1_0.1-0.2	23-Fe0023597	Feb 03, 2023	Approximate Sample 645g Sample consisted of: Brown coarse-grained soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
MH-B1_0.2-0.3	23-Fe0023599	Feb 03, 2023	Approximate Sample 631g Sample consisted of: Brown coarse-grained soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
MH-B2_0.2-0.8	23-Fe0023602	Feb 03, 2023	Approximate Sample 546g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
MH-B3_0.0-0.6	23-Fe0023606	Feb 03, 2023	Approximate Sample 589g Sample consisted of: Brown coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
MH-B3_0.8-1.0	23-Fe0023607	Feb 03, 2023	Approximate Sample 805g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
MH-B4_0.0-0.6	23-Fe0023610	Feb 03, 2023	Approximate Sample 984g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
MH-B5_0.0-0.9	23-Fe0023615	Feb 02, 2023	Approximate Sample 628g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
MH-B6_0.0-0.6	23-Fe0023619	Feb 02, 2023	Approximate Sample 588g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
MH-B7_0.0-1.0	23-Fe0023623	Feb 02, 2023	Approximate Sample 731g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
MH-B8_0.1-0.3	23-Fe0023627	Feb 02, 2023	Approximate Sample 1109g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
MH-B8_0.3-0.5	23-Fe0023628	Feb 02, 2023	Approximate Sample 819g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
MH-B9_0.0-0.5	23-Fe0023632	Feb 02, 2023	Approximate Sample 667g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
MH-B10_0.0-0.2	23-Fe0023634	Feb 02, 2023	Approximate Sample 634g Sample consisted of: Brown coarse- grained sandy clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
MH-B10_0.0-0.2A	23-Fe0023635	Feb 02, 2023	Approximate Sample 8g / 60 x 30 x 5mm Sample consisted of: Cement sheet	Chrysotile and crocidolite asbestos detected. Organic fibres detected.
MH-B10_0.2-1.0	23-Fe0023638	Feb 02, 2023	Approximate Sample 511g Sample consisted of: Brown coarse- grained sandy clayey soil, plaster and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
MH-B10_0.2-1.0A	23-Fe0023639	Feb 02, 2023	Approximate Sample 6g / 25 x 20 x 5mm Sample consisted of: Cement sheet	Chrysotile asbestos detected. Organic fibres detected.
ED-B1_0.0-1.0	23-Fe0023643	Feb 02, 2023	Approximate Sample 591g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
ED-B2_0.0-0.3	23-Fe0023646	Feb 04, 2023	Approximate Sample 1329g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
ED-B3_0.0-0.7	23-Fe0023649	Feb 04, 2023	Approximate Sample 1203g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
ED-B4_0.1-0.5	23-Fe0023652	Feb 04, 2023	Approximate Sample 998g Sample consisted of: Brown coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
ED-B5_0.0-0.3	23-Fe0023655	Feb 02, 2023	Approximate Sample 639g Sample consisted of: Brown coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
ED-B6_0.1-0.3	23-Fe0023658	Feb 02, 2023	Approximate Sample 629g Sample consisted of: Brown coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
ED-B7_0.0-0.2	23-Fe0023660	Feb 04, 2023	Approximate Sample 1003g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
ED-B8_0.0-0.6	23-Fe0023666	Feb 04, 2023	Approximate Sample 1080g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
ED-B9_0.0-0.1	23-Fe0023668	Feb 04, 2023	Approximate Sample 952g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
ED-B9_0.1-0.5	23-Fe0023670	Feb 04, 2023	Approximate Sample 846g Sample consisted of: Brown coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
KW-B2_0.1-0.3	23-Fe0023685	Feb 03, 2023	Approximate Sample 813g Sample consisted of: Brown fine-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	Feb 17, 2023	Indefinite
Asbestos - LTM-ASB-8020	Melbourne	Feb 17, 2023	Indefinite

eurofins

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

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261 Site# 25403

Sydney
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261 Site# 18217

Canberra
Unit 1,2 Dacre Street
Mitchell
ACT 2911
Tel: +61 2 6113 8091
NATA# 1261 Site# 25466

Brisbane
1/21 Smallwood Place
Murarrie
QLD 4172
Tel: +61 7 3902 4600
NATA# 1261 Site# 20794

Newcastle
1/2 Frost Drive
Mayfield West NSW 2304
Tel: +61 2 4968 8448
NATA# 1261
Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

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

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

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

Project Name: BHHR
Project ID: 63879

Order No.:
Report #: 962621
Phone: 02 8245 0300
Fax:

Received: Feb 9, 2023 10:22 AM
Due: Feb 16, 2023
Priority: 5 Day
Contact Name: Mitch Hodgins

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Hardness Set	Volatile Organics	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B8 (filtered metals)	JBS&G Suite 2	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
External Laboratory																		
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**													
1	KW-B1_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023564									X	X		X	
2	KW-B1_0.2-0.3	Feb 03, 2023		Soil	M23-Fe0023565				X	X				X				
3	KW-B1_0.0-0.5	Feb 03, 2023		Soil	M23-Fe0023566	X												
4	KW-B2_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023567									X			X	
5	KW-B2_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023568	X												
6	KW-B2_0.1-0.3	Feb 03, 2023		Soil	M23-Fe0023569			X										
7	KW-B2_0.3-	Feb 03, 2023		Soil	M23-Fe0023570									X			X	

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

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261 Site# 25403

Sydney
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
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Canberra
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Mitchell
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Tel: +61 2 6113 8091
NATA# 1261 Site# 25466

Brisbane
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Murarrie
QLD 4172
Tel: +61 7 3902 4600
NATA# 1261 Site# 20794

Newcastle
1/2 Frost Drive
Mayfield West NSW 2304
Tel: +61 2 4968 8448
NATA# 1261
Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

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

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
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Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
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Address: Level 1, 50 Margaret St
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NSW 2000

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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	0.4																	
8	KW-B3_0.1-0.2	Feb 03, 2023		Soil	M23-Fe0023571								X	X			X	
9	KW-B3_0.25-0.3	Feb 03, 2023		Soil	M23-Fe0023572									X			X	
10	KW-B3_0.0-0.4	Feb 03, 2023		Soil	M23-Fe0023573	X												
11	KW-B3_0.0-0.4A	Feb 03, 2023		Building Materials	M23-Fe0023574		X											
12	KW-B4_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023575				X	X				X				
13	KW-B4_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023576	X												
14	KW-B4_0.1-0.3	Feb 03, 2023		Soil	M23-Fe0023577									X			X	
15	KW-B4_0.1-	Feb 03, 2023		Soil	M23-Fe0023578	X												

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web: www.eurofins.com.au
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Melbourne
6 Monterey Road
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Sydney
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Newcastle
1/2 Frost Drive
Mayfield West NSW 2304
Tel: +61 2 4968 8448
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Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

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

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	0.3																	
16	KW-B4_0.1-0.3A	Feb 03, 2023		Building Materials	M23-Fe0023579		X											
17	KW-B5_0.1-0.2	Feb 03, 2023		Soil	M23-Fe0023580									X	X		X	
18	KW-B5_0.4-0.5	Feb 03, 2023		Soil	M23-Fe0023581				X	X				X				
19	KW-B5_0.1-0.4	Feb 03, 2023		Soil	M23-Fe0023582	X												
20	KW-B5_0.4-1.0	Feb 03, 2023		Soil	M23-Fe0023583	X												
21	KW-B6_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023584				X	X				X				
22	KW-B6_0.5-0.6	Feb 03, 2023		Soil	M23-Fe0023585									X			X	
23	KW-B7_0.2-	Feb 03, 2023		Soil	M23-Fe0023586									X			X	

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Welshpool
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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	0.3																	
24	KW-B7_0.5-0.6	Feb 03, 2023		Soil	M23-Fe0023587				X	X				X				
25	KW-B7_0.0-0.6	Feb 03, 2023		Soil	M23-Fe0023588	X												
26	KW-B7_0.0-0.6A	Feb 03, 2023		Building Materials	M23-Fe0023589		X											
27	KW-B8_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023590									X			X	
28	KW-B8_0.2-0.4	Feb 03, 2023		Soil	M23-Fe0023591								X	X			X	
29	KW-B8_0.0-0.4	Feb 03, 2023		Soil	M23-Fe0023592	X												
30	MH-B1_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023594					X				X				
31	MH-B1_0.0-	Feb 03, 2023		Soil	M23-Fe0023595	X												

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web: www.eurofins.com.au
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Melbourne
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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	0.1																	
32	MH-B1_0.1-0.2	Feb 03, 2023		Soil	M23-Fe0023596								X	X			X	
33	MH-B1_0.1-0.2	Feb 03, 2023		Soil	M23-Fe0023597	X												
34	MH-B1_0.2-0.3	Feb 03, 2023		Soil	M23-Fe0023598					X				X				
35	MH-B1_0.2-0.3	Feb 03, 2023		Soil	M23-Fe0023599	X												
36	MH-B2_0.2-0.3	Feb 03, 2023		Soil	M23-Fe0023600					X				X				
37	MH-B2_0.4-0.5	Feb 03, 2023		Soil	M23-Fe0023601									X			X	
38	MH-B2_0.2-0.8	Feb 03, 2023		Soil	M23-Fe0023602	X												
39	MH-B3_0.0-	Feb 03, 2023		Soil	M23-Fe0023603									X			X	

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

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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

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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	0.1																	
40	MH-B3_0.2-0.3	Feb 03, 2023		Soil	M23-Fe0023604					X				X				
41	MH-B3_0.8-1.0	Feb 03, 2023		Soil	M23-Fe0023605									X			X	
42	MH-B3_0.0-0.6	Feb 03, 2023		Soil	M23-Fe0023606	X												
43	MH-B3_0.8-1.0	Feb 03, 2023		Soil	M23-Fe0023607	X												
44	MH-B4_0.2-0.3	Feb 03, 2023		Soil	M23-Fe0023608									X			X	
45	MH-B4_0.6-0.7	Feb 03, 2023		Soil	M23-Fe0023609					X				X				
46	MH-B4_0.0-0.6	Feb 03, 2023		Soil	M23-Fe0023610	X												
47	MH-B5_0.0-	Feb 02, 2023		Soil	M23-Fe0023611					X				X				

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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	0.1																	
48	MH-B5_0.1-0.2	Feb 02, 2023		Soil	M23-Fe0023612									X			X	
49	MH-B5_0.4-0.5	Feb 02, 2023		Soil	M23-Fe0023613									X			X	
50	MH-B5_0.8-0.9	Feb 02, 2023		Soil	M23-Fe0023614					X				X				
51	MH-B5_0.0-0.9	Feb 02, 2023		Soil	M23-Fe0023615	X												
52	MH-B6_0.0-0.1	Feb 02, 2023		Soil	M23-Fe0023616								X	X			X	
53	MH-B6_0.2-0.3	Feb 02, 2023		Soil	M23-Fe0023617				X	X				X	X			
54	MH-B6_0.4-0.5	Feb 02, 2023		Soil	M23-Fe0023618					X				X				
55	MH-B6_0.0-	Feb 02, 2023		Soil	M23-Fe0023619	X												

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web: www.eurofins.com.au
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Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	0.6																	
56	MH-B7_0.0-0.1	Feb 02, 2023		Soil	M23-Fe0023620				X	X				X				
57	MH-B7_0.2-0.3	Feb 02, 2023		Soil	M23-Fe0023621									X			X	
58	MH-B7_0.9-1.0	Feb 02, 2023		Soil	M23-Fe0023622									X			X	
59	MH-B7_0.0-1.0	Feb 02, 2023		Soil	M23-Fe0023623	X												
60	MH-B8_0.1-0.2	Feb 02, 2023		Soil	M23-Fe0023624				X	X				X				
61	MH-B8_0.4-0.5	Feb 02, 2023		Soil	M23-Fe0023625									X			X	
62	MH-B8_0.5-0.6	Feb 02, 2023		Soil	M23-Fe0023626					X				X				
63	MH-B8_0.1-	Feb 02, 2023		Soil	M23-Fe0023627	X												

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

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261 Site# 25403

Sydney
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Girraween
NSW 2145
Tel: +61 2 9900 8400
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Canberra
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Mitchell
ACT 2911
Tel: +61 2 6113 8091
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Brisbane
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Murarrie
QLD 4172
Tel: +61 7 3902 4600
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Newcastle
1/2 Frost Drive
Mayfield West NSW 2304
Tel: +61 2 4968 8448
NATA# 1261
Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

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

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
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NSW 2000

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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	0.3																	
64	MH-B8_0.3-0.5	Feb 02, 2023		Soil	M23-Fe0023628	X												
65	MH-B9_0.0-0.1	Feb 02, 2023		Soil	M23-Fe0023629				X	X				X				
66	MH-B9_0.2-0.3	Feb 02, 2023		Soil	M23-Fe0023630									X			X	
67	MH-B9_0.9-1.0	Feb 02, 2023		Soil	M23-Fe0023631									X			X	
68	MH-B9_0.0-0.5	Feb 02, 2023		Soil	M23-Fe0023632	X												
69	MH-B10_0.0-0.2	Feb 02, 2023		Soil	M23-Fe0023633									X			X	
70	MH-B10_0.0-0.2	Feb 02, 2023		Soil	M23-Fe0023634	X												
71	MH-B10_0.0-	Feb 02, 2023		Building	M23-Fe0023635		X											

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

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
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VIC 3216
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Sydney
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Girraween
NSW 2145
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Newcastle
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Mayfield West NSW 2304
Tel: +61 2 4968 8448
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ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
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Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	0.2A			Materials														
72	MH-B10_0.2-0.4	Feb 02, 2023		Soil	M23-Fe0023636									X			X	
73	MH-B10_0.5-0.6	Feb 02, 2023		Soil	M23-Fe0023637					X				X				
74	MH-B10_0.2-1.0	Feb 02, 2023		Soil	M23-Fe0023638	X												
75	MH-B10_0.2-1.0A	Feb 02, 2023		Building Materials	M23-Fe0023639		X											
76	ED-B1_0.0-0.1	Feb 02, 2023		Soil	M23-Fe0023640									X	X		X	
77	ED-B1_0.4-0.5	Feb 02, 2023		Soil	M23-Fe0023641				X	X				X				
78	ED-B1_0.9-1.0	Feb 02, 2023		Soil	M23-Fe0023642					X				X				
79	ED-B1_0.0-1.0	Feb 02, 2023		Soil	M23-Fe0023643	X												
80	ED-B2_0.0-0.1	Feb 04, 2023		Soil	M23-Fe0023644				X	X				X				
81	ED-B2_0.2-0.3	Feb 04, 2023		Soil	M23-Fe0023645									X			X	

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web: www.eurofins.com.au
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Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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

Geelong
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Grovedale
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Girraween
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Newcastle
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Welshpool
WA 6106
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Penrose,
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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
82	ED-B2_0.0-0.3	Feb 04, 2023		Soil	M23-Fe0023646	X												
83	ED-B3_0.0-0.1	Feb 04, 2023		Soil	M23-Fe0023647									X			X	
84	ED-B3_0.2-0.3	Feb 04, 2023		Soil	M23-Fe0023648					X				X				
85	ED-B3_0.0-0.7	Feb 04, 2023		Soil	M23-Fe0023649	X												
86	ED-B4_0.1-0.2	Feb 04, 2023		Soil	M23-Fe0023650					X				X				
87	ED-B4_0.4-0.5	Feb 04, 2023		Soil	M23-Fe0023651									X			X	
88	ED-B4_0.1-0.5	Feb 04, 2023		Soil	M23-Fe0023652	X												
89	ED-B5_0.0-0.1	Feb 02, 2023		Soil	M23-Fe0023653									X			X	
90	ED-B5_0.2-0.3	Feb 02, 2023		Soil	M23-Fe0023654					X				X				
91	ED-B5_0.0-0.3	Feb 02, 2023		Soil	M23-Fe0023655	X												
92	ED-B6_0.1-0.2	Feb 02, 2023		Soil	M23-Fe0023656					X				X				
93	ED-B6_0.2-0.3	Feb 02, 2023		Soil	M23-Fe0023657									X			X	
94	ED-B6_0.1-0.3	Feb 02, 2023		Soil	M23-Fe0023658	X												
95	ED-B7_0.0-0.2	Feb 04, 2023		Soil	M23-Fe0023659									X			X	

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

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
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Sydney
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Girraween
NSW 2145
Tel: +61 2 9900 8400
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Murarrie
QLD 4172
Tel: +61 7 3902 4600
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Newcastle
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Tel: +61 2 4968 8448
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Site# 25079 & 25289

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ABN: 91 05 0159 898

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Welshpool
WA 6106
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NATA# 2377 Site# 2370

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35 O'Rorke Road
Penrose,
Auckland 1061
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Rolleston,
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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
96	ED-B7_0.0-0.2	Feb 04, 2023		Soil	M23-Fe0023660	X												
97	ED-B7_0.2-0.3	Feb 04, 2023		Soil	M23-Fe0023661				X	X				X				
98	ED-B8_0.0-0.2	Feb 04, 2023		Soil	M23-Fe0023662				X	X				X				
99	ED-B8_0.3-0.4	Feb 04, 2023		Soil	M23-Fe0023663									X			X	
100	ED-B8_0.8-1.0	Feb 04, 2023		Soil	M23-Fe0023665									X			X	
101	ED-B8_0.0-0.6	Feb 04, 2023		Soil	M23-Fe0023666	X												
102	ED-B9_0.0-0.1	Feb 04, 2023		Soil	M23-Fe0023667				X	X				X				
103	ED-B9_0.0-0.1	Feb 04, 2023		Soil	M23-Fe0023668	X												
104	ED-B9_0.1-0.2	Feb 04, 2023		Soil	M23-Fe0023669									X			X	
105	ED-B9_0.1-0.5	Feb 04, 2023		Soil	M23-Fe0023670	X												
106	GW01	Feb 05, 2023		Water	M23-Fe0023671							X				X		X
107	GW02	Feb 05, 2023		Water	M23-Fe0023672							X				X		X
108	GW03	Feb 05, 2023		Water	M23-Fe0023673							X				X		X
109	DUP01	Feb 02, 2023		Soil	M23-Fe0023674									X			X	

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

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

Geelong
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Grovedale
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Sydney
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Girraween
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Brisbane
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QLD 4172
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Newcastle
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ABN: 91 05 0159 898

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Welshpool
WA 6106
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Penrose,
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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
110	DUP02	Feb 02, 2023		Soil	M23-Fe0023675				X	X				X				
111	DUP03	Feb 03, 2023		Soil	M23-Fe0023676									X			X	
112	DUP04	Feb 03, 2023		Soil	M23-Fe0023677									X			X	
113	DUP06	Feb 03, 2023		Soil	M23-Fe0023678								X	X			X	
114	DUP01	Feb 05, 2023		Water	M23-Fe0023679											X		X
115	Sspk3973	Not Provided		Soil	M23-Fe0023680						X							
116	Wsp8872	Not Provided		Water	M23-Fe0023681						X							
117	WTB01	Feb 05, 2023		Water	M23-Fe0023682						X							
118	STB01	Feb 05, 2023		Water	M23-Fe0023683						X							
119	KW-B1_0.4-0.5	Feb 03, 2023		Soil	M23-Fe0023684			X										
120	KW-B2_0.1-0.3	Feb 03, 2023		Soil	M23-Fe0023685	X												
121	KW-B3_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023686			X										

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Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
122	KW-B3_0.3-0.4	Feb 03, 2023		Soil	M23-Fe0023687			X										
123	KW-B3_0.4-0.5	Feb 03, 2023		Soil	M23-Fe0023688			X										
124	KW-B4_0.3-0.4	Feb 03, 2023		Soil	M23-Fe0023689			X										
125	KW-B5_0.9-1.0	Feb 03, 2023		Soil	M23-Fe0023691			X										
126	KW-B6_0.2-0.3	Feb 03, 2023		Soil	M23-Fe0023692			X										
127	KW-B6_0.0-0.6	Feb 03, 2023		Soil	M23-Fe0023693			X										
128	KW-B7_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023694			X										
129	MH-B2_0.8-0.9	Feb 03, 2023		Soil	M23-Fe0023695			X										

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Due: Feb 16, 2023
Priority: 5 Day
Contact Name: Mitch Hodgins

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Hardness Set	Volatile Organics	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B8 (filtered metals)	JBS&G Suite 2	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
130	MH-B2_1.4-1.5	Feb 03, 2023		Soil	M23-Fe0023696			X										
131	MH-B3_0.5-0.6	Feb 03, 2023		Soil	M23-Fe0023697			X										
132	MH-B6_0.6-0.7	Feb 02, 2023		Soil	M23-Fe0023698			X										
133	MH-B7_0.4-0.5	Feb 02, 2023		Soil	M23-Fe0023699			X										
134	MH-B7_1.1-1.2	Feb 02, 2023		Soil	M23-Fe0023700			X										
135	MH-B8_0.9-1.0	Feb 02, 2023		Soil	M23-Fe0023701			X										
136	MH-B9_0.5-0.6	Feb 02, 2023		Soil	M23-Fe0023702			X										
137	MH-B10_1.0-1.1	Feb 02, 2023		Soil	M23-Fe0023703			X										

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

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
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Murarrie
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1/2 Frost Drive
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Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

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

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

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

Project Name: BHHR
Project ID: 63879

Order No.:
Report #: 962621
Phone: 02 8245 0300
Fax:

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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
138	MH-B10_1.4-1.5	Feb 02, 2023		Soil	M23-Fe0023704			X										
139	ED-B1_0.2-0.3	Feb 02, 2023		Soil	M23-Fe0023705			X										
140	ED-B1_1.4-1.5	Feb 02, 2023		Soil	M23-Fe0023706			X										
141	ED-B1_1.9-2.0	Feb 02, 2023		Soil	M23-Fe0023707			X										
142	ED-B2_0.5-0.6	Feb 04, 2023		Soil	M23-Fe0023708			X										
143	ED-B3_0.5-0.6	Feb 04, 2023		Soil	M23-Fe0023709			X										
144	ED-B3_0.7-0.8	Feb 04, 2023		Soil	M23-Fe0023710			X										
145	ED-B4_0.5-0.6	Feb 04, 2023		Soil	M23-Fe0023711			X										
146	ED-B5_0.3-0.4	Feb 02, 2023		Soil	M23-Fe0023712			X										
147	ED-B5_0.9-1.0	Feb 02, 2023		Soil	M23-Fe0023713			X										
148	ED-B6_0.3-0.4	Feb 02, 2023		Soil	M23-Fe0023714			X										
149	ED-B6_0.9-1.0	Feb 02, 2023		Soil	M23-Fe0023715			X										
150	ED-B7_0.3-0.4	Feb 04, 2023		Soil	M23-Fe0023716			X										

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ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South
VIC 3175
Tel: +61 3 8564 5000
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Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

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

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
151	ED-B7_0.5-0.65	Feb 04, 2023		Soil	M23-Fe0023717			X										
152	ED-B9_0.5-0.6	Feb 04, 2023		Soil	M23-Fe0023718			X										
153	DUP05	Feb 03, 2023		Soil	M23-Fe0023719			X										
154	DUP07	Feb 04, 2023		Soil	M23-Fe0023720			X										
155	DUP08	Feb 04, 2023		Soil	M23-Fe0023721			X										
156	WRB01	Not Provided		Water	M23-Fe0023722												X	
157	SRB01	Not Provided		Water	M23-Fe0023723												X	
158	SRB02	Not Provided		Water	M23-Fe0023724			X										
159	SRB03	Not Provided		Water	M23-Fe0023725			X										
160	ED_B6_0.3-1.0	Not Provided		Soil	M23-Fe0023726			X										
161	KW_B8_0.4-0.5	Not Provided		Building Materials	M23-Fe0023727			X										
162	UNLABELLED	Not Provided		Building	M23-Fe0023728			X										

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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	ASB BAG			Materials														
163	MH_B4_0.4-0.5	Not Provided		Soil	M23-Fe0023729			X										
164	KW_B2_0.5-0.7	Not Provided		Soil	M23-Fe0024121			X										
165	ED-B8_0.5-0.6	Feb 02, 2023		Soil	M23-Fe0024143					X				X				
Test Counts						35	5	44	15	31	4	3	5	71	4	4	42	4

Internal Quality Control Review and Glossary General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with the colour **blue** indicates data provided by customer that may have an impact on the results.
5. Information identified on this report with the colour **orange** indicates sections of the report not covered by the laboratory's scope of NATA accreditation.
6. This report replaces any interim results previously issued.

Holding Times

Please refer to the most recent version of the 'Sample Preservation and Container Guide' for holding times (QS3001).
If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

% w/w:	Percentage weight-for-weight basis, e.g. of asbestos in asbestos-containing finds in soil samples (**% w/w**)
F/fld	Airborne fibre filter loading as Fibres (**N**) per Fields counted (**n**)
F/mL	Airborne fibre reported concentration as Fibres per millilitre of air drawn over the sampler membrane (**C**)
g, kg	Mass, e.g. of whole sample (**M**) or asbestos-containing find within the sample (**m**)
g/kg	Concentration in grams per kilogram
L, mL	Volume, e.g. of air as measured in AFM (**V** = **r** x **t**)
L/min	Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (**r**)
min	Time (**t**), e.g. of air sample collection period

Calculations

Airborne Fibre Concentration: $C = \left(\frac{A}{a}\right) \times \left(\frac{N}{n}\right) \times \left(\frac{1}{r}\right) \times \left(\frac{1}{t}\right) = K \times \left(\frac{N}{n}\right) \times \left(\frac{1}{V}\right)$

Asbestos Content (as asbestos): $\%\, w/w = \frac{(m \times P_A)}{M}$

Weighted Average (of asbestos): $\%_{WA} = \sum \frac{(m \times P_A)_x}{x}$

Terms

%asbestos	Estimated percentage of asbestos in a given matrix. May be derived from knowledge or experience of the material, informed by HSG264 *Appendix 2*, else assumed to be 15% in accordance with WA DOH *Appendix 2* (**P_A**).
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded (non-friable) condition. For the purposes of the NEPM and WA DOH, ACM corresponds to material larger than 7 mm x 7 mm.
AF	Asbestos Fines. Asbestos contamination within a soil sample, as defined by WA DOH. Includes loose fibre bundles and small pieces of friable and non-friable material such as asbestos cement fragments mixed with soil. Considered under the NEPM as equivalent to "non-bonded / friable".
AFM	Airborne Fibre Monitoring, e.g. by the MFM.
Amosite	Amosite Asbestos Detected. Amosite may also refer to Fibrous Grunerite or Brown Asbestos. Identified in accordance with AS 4964-2004.
AS	Australian Standard.
Asbestos Content (as asbestos)	Total % w/w asbestos content in asbestos-containing finds in a soil sample (**% w/w)**.
Chrysotile	Chrysotile Asbestos Detected. Chrysotile may also refer to Fibrous Serpentine or White Asbestos. Identified in accordance with AS 4964-2004.
COC	Chain of Custody.
Crocidolite	Crocidolite Asbestos Detected. Crocidolite may also refer to Fibrous Riebeckite or Blue Asbestos. Identified in accordance with AS 4964-2004.
Dry	Sample is dried by heating prior to analysis.
DS	Dispersion Staining. Technique required for Unequivocal Identification of asbestos fibres by PLM.
FA	Fibrous Asbestos. Asbestos containing material that is wholly or in part friable, including materials with higher asbestos content with a propensity to become friable with handling, and any material that was previously non-friable and in a severely degraded condition. For the purposes of the NEPM and WA DOH, FA generally corresponds to material larger than 7 mm x 7 mm, although FA may be more difficult to visibly distinguish and may be assessed as AF.
Fibre Count	Total of all fibres (whether asbestos or not) meeting the counting criteria set out in the NOHSC:3003
Fibre ID	Fibre Identification. Unequivocal identification of asbestos fibres according to AS 4964-2004. Includes Chrysotile, Amosite (Grunerite) or Crocidolite asbestos.
Friable	Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory's remit to assess degree of friability.
HSG248	UK HSE HSG248, *Asbestos: The Analysts Guide*, 2nd Edition (2021).
HSG264	UK HSE HSG264, *Asbestos: The Survey Guide* (2012).
ISO (also ISO/IEC)	International Organization for Standardization / International Electrotechnical Commission.
K Factor	Microscope constant (**K**) as derived from the effective filter area of the given AFM membrane used for collecting the sample (**A**) and the projected eyepiece graticule area of the specific microscope used for the analysis (**a**).
LOR	Limit of Reporting.
MFM (also NOHSC:3003)	Membrane Filter Method. As described by the Australian Government National Occupational Health and Safety Commission, *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres*, 2nd Edition [NOHSC:3003(2005)].
NEPM (also ASC NEPM)	National Environment Protection (Assessment of Site Contamination) Measure, (2013, as amended).
Organic	Organic Fibres Detected. Organic may refer to Natural or Man-Made Polymeric Fibres. Identified in accordance with AS 4964-2004.
PCM	Phase Contrast Microscopy. As used for Fibre Counting according to the MFM.
PLM	Polarised Light Microscopy. As used for Fibre Identification and Trace Analysis according to AS 4964-2004.
SMF	Synthetic Mineral Fibre Detected. SMF may also refer to Man Made Vitreous Fibres. Identified in accordance with AS 4964-2004.
SRA	Sample Receipt Advice.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix.
UK HSE HSG	United Kingdom, Health and Safety Executive, Health and Safety Guidance, publication.
UMF	Unidentified Mineral Fibre Detected. Fibrous minerals that are detected but have not been unequivocally identified by PLM with DS according the AS 4964-2004. May include (but not limited to) Actinolite, Anthophyllite or Tremolite asbestos.
WA DOH	Reference document for the NEPM. Government of Western Australia, *Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia* (updated 2021), including Appendix Four: *Laboratory analysis*
Weighted Average	Combined average % w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample (**$\%_{WA}$**).

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	N/A
Some samples have been subcontracted	No

Asbestos Counter/Identifier:

Sayeed Abu	Senior Analyst-Asbestos
Laxman Dias	Senior Analyst-Asbestos
Hiren Patel	Senior Analyst-Asbestos

Authorised by:

Chamath JHM Annakkage	Senior Analyst-Asbestos
Sayeed Abu	Senior Analyst-Asbestos
Rhys Thomas	Senior Analyst-Asbestos



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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

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Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Mitch Hodgins
Project name:	BHHR
Project ID:	63879
Turnaround time:	5 Day
Date/Time received	Feb 9, 2023 10:22 AM
Eurofins reference	962621

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	Sample Temperature of chilled sample on the batch as recorded by Eurofins Sample Receipt : 10.4 degrees Celsius.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
X	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.
X	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Hardness not available on samples WTB01 and STB01. PFAS analysis not available on samples Sspk3973 and Wsp8872, samples placed on hold. Extra samples KW_B2_0.5-0.7, MH_B4_0.4-0.5, UNLABELLED ASB BAG, KW_B8_0.4-0.5, ED_B6_0.3-1.0, SRB03, SRB02, WRB01, SRB01. Missing KW-B8_0.0-0, KW_B4_0.5-0.7.

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

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

Results will be delivered electronically via email to Mitch Hodgins - mhodgins@jbsg.com.au.

Chain of Custody

JBS&G

PROJECT NO.: 63879	LABORATORY BATCH NO.:
PROJECT NAME: BHHR	SAMPLERS: AJ
DATE NEEDED BY: standard TAT	QC LEVEL: NEPM (2013)

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

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....mhodgins@jbsg.com.au; (3) .....gpinget@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos	JB2	8 Heavy Metals	PAHs	VOCs	R21		Water: B8	Water: 28 PFAS	Water: BTEX	Hardness							TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
KW-B1_0.0-0.1	Soil	3/2/23		1 Jar			X				X														
KW-B1_0.2-0.3	Soil	3/2/23		1 Jar				X	X																
KW-B1_0.4-0.5	Soil	3/2/23		1 Jar																					
KW-B1_0.0-0.5	Soil	3/2/23		1 Bag		X																		X	
KW-B2_0.0-0.1	Soil	3/2/23		1 Jar			X																		
KW-B2_0.0-0.1	Soil	3/2/23		1 Bag		X																		X	
KW-B2_0.1-0.3	Soil	3/2/23		1 Jar																					
KW-B2_0.1-0.3	Soil	3/2/23		1 Bag		X																		X	
KW-B2_0.3-0.4	Soil	3/2/23		1 Jar			X																		
KW-B3_0.0-0.1	Soil	3/2/23		1 Jar																					
KW-B3_0.1-0.2	Soil	3/2/23		1 Jar			X			X															
KW-B3_0.25-0.3	Soil	3/2/23		1 Jar			X																		
KW-B3_0.3-0.4	Soil	3/2/23		1 Jar																					
KW-B3_0.4-0.5	Soil	3/2/23		1 Jar																					
KW-B3_0.0-0.4	Soil	3/2/23		1 Bag		X																		X	
KW-B3_0.0-0.4A	Soil	3/2/23		1 Bag		X																			
KW-B4_0.0-0.1	Soil	3/2/23		1 Jar				X	X																
KW-B4_0.0-0.1	Soil	3/2/23		1 Bag		X																		X	
KW-B4_0.1-0.3	Soil	3/2/23		1 Jar			X																		
KW-B4_0.1-0.3	Soil	3/2/23		1 Bag		X																		X	
KW-B4_0.1-0.3A	Soil	3/2/23		1 Bag		X																			
KW-B4_0.3-0.4	Soil	3/2/23		1 Jar																					
KW-B4_0.5-0.7	Soil	3/2/23		1 Jar																					
KW-B5_0.1-0.2	Soil	3/2/23		1 Jar			X				X														
KW-B5_0.4-0.5	Soil	3/2/23		1 Jar				X	X																

#962621
10/4/23
F

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Chain of Custody

JBS&G

PROJECT NO.: 63879	LABORATORY BATCH NO.:
PROJECT NAME: BHHR	SAMPLERS: AJ
DATE NEEDED BY: standard TAT	QC LEVEL: NEPM (2013)

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

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....mhodgins@jbsg.com.au; (3) .....gpinget@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

#962621
10/4/23

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos	JB2	8 Heavy Metals	PAHs	VOCs	R21		Water: B8	Water: 28 PFAS	Water: BTEX	Hardness								TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
KW-B5_0.9-1.0	Soil	3/2/23		1 Jar																						
KW-B5_0.1-0.4	Soil	3/2/23		1 Bag		X																			X	
KW-B5_0.4-1.0	Soil	3/2/23		1 Bag		X																			X	
KW-B6_0.0-0.1	Soil	3/2/23		1 Jar				X	X																	
KW-B6_0.2-0.3	Soil	3/2/23		1 Jar																						
KW-B6_0.5-0.6	Soil	3/2/23		1 Jar			X																			
KW-B6_0.0-0.6	Soil	3/2/23		1 Bag		X																				
KW-B7_0.0-0.1	Soil	3/2/23		1 Jar																						
KW-B7_0.2-0.3	Soil	3/2/23		1 Jar			X																			
KW-B7_0.5-0.6	Soil	3/2/23		1 Jar				X	X																	
KW-B7_0.0-0.6	Soil	3/2/23		1 Bag		X																			X	
KW-B7_0.0-0.6A	Soil	3/2/23		1 Bag		X																		X		
KW-B8_0.0-0.1	Soil	3/2/23		1 Jar			X																			
KW-B8_0.2-0.4	Soil	3/2/23		1 Jar			X			X																
KW-B8_0.0-0.4	Soil	3/2/23		1 Bag		X																			X	
KW-B8_0.0-0	Soil	3/2/23		1 Bag		X																		X		
MH-B1_0.0-0.1	Soil	3/2/23		1 Jar				X																		
MH-B1_0.0-0.1	Soil	3/2/23		1 Bag		X																			X	
MH-B1_0.1-0.2	Soil	3/2/23		1 Jar			X			X																
MH-B1_0.1-0.2 •	Soil	3/2/23		1 Bag		X																			X	
MH-B1_0.2-0.3	Soil	3/2/23		1 Jar				X																		
MH-B1_0.2-0.3 •	Soil	3/2/23		1 Bag		X																			X	
MH-B2_0.2-0.3	Soil	3/2/23		1 Jar				X																		
MH-B2_0.4-0.5	Soil	3/2/23		1 Jar			X																			
MH-B2_0.8-0.9	Soil	3/2/23		1 Jar																						

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PROJECT NO.: 63879	LABORATORY BATCH NO.:
PROJECT NAME: BHHR	SAMPLERS: AJ
DATE NEEDED BY: standard TAT	QC LEVEL: NEPM (2013)

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

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....mhodgins@jbsg.com.au; (3) .....gpinget@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos	JB2	8 Heavy Metaks	PAHs	VOCs	R21		Water: B8	Water: 28 PFAS	Water: BTEX	Hardness								TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
MH-B2_1.4-1.5	Soil	3/2/23		1 Jar																						
MH-B2_0.2-0.8	Soil	3/2/23		1 Bag		X																			X	
MH-B3_0.0-0.1	Soil	3/2/23		1 Jar			X																			
MH-B3_0.2-0.3	Soil	3/2/23		1 Jar				X																		
MH-B3_0.5-0.6	Soil	3/2/23		1 Jar																						
MH-B3_0.8-1.0	Soil	3/2/23		1 Jar			X																			
MH-B3_0.0-0.6	Soil	3/2/23		1 Bag		X																			X	
MH-B3_0.8-1.0	Soil	3/2/23		1 Bag		X																			X	
MH-B4_0.2-0.3	Soil	3/2/23		1 Jar			X																			
MH-B4_0.6-0.7	Soil	3/2/23		1 Jar				X																		
MH-B4_0.0-0.6	Soil	3/2/23		1 Bag		X																			X	
MH-B5_0.0-0.1	Soil	2/2/23		1 Jar				X																		
MH-B5_0.1-0.2	Soil	2/2/23		1 Jar			X																			
MH-B5_0.4-0.5	Soil	2/2/23		1 Jar			X																			
MH-B5_0.8-0.9	Soil	2/2/23		1 Jar				X																		
MH-B5_0.0-0.9	Soil	2/2/23		1 Bag		X																			X	
MH-B6_0.0-0.1	Soil	2/2/23		1 Jar			X			X																
MH-B6_0.2-0.3	Soil	2/2/23		1 Jar				X	X		X															
MH-B6_0.4-0.5	Soil	2/2/23		1 Jar				X																		
MH-B6_0.6-0.7	Soil	2/2/23		1 Jar																						
MH-B6_0.0-0.6	Soil	2/2/23		1 Bag		X																			X	
MH-B7_0.0-0.1	Soil	2/2/23		1 Jar				X	X																	
MH-B7_0.2-0.3	Soil	2/2/23		1 Jar			X																			
MH-B7_0.4-0.5	Soil	2/2/23		1 Jar																						
MH-B7_0.9-1.0	Soil	2/2/23		1 Jar			X																			

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PROJECT NO.: 63879	LABORATORY BATCH NO.:
PROJECT NAME: BHHR	SAMPLERS: AJ
DATE NEEDED BY: standard TAT	QC LEVEL: NEPM (2013)
PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113	
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....mhodgins@jbsg.com.au; (3) .....gpinget@jbsg.com.au	

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos	JB2	8 Heavy Metaks	PAHs	VOCs	R21		Water: B8	Water: 28 PFAS	Water: BTEX	Hardness								TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
MH-B7_1.1-1.2	Soil	2/2/23		1 Jar																						
MH-B7_0.0-1.0	Soil	2/2/23		1 Bag		X																			X	
MH-B8_0.1-0.2	Soil	2/2/23		1 Jar				X	X																	
MH-B8_0.4-0.5	Soil	2/2/23		1 Jar			X																			
MH-B8_0.5-0.6	Soil	2/2/23		1 Jar				X																		
MH-B8_0.9-1.0	Soil	2/2/23		1 Jar																						
MH-B8_0.1-0.3	Soil	2/2/23		1 Bag		X																			X	
MH-B8_0.3-0.5	Soil	2/2/23		1 Bag		X																			X	
MH-B9_0.0-0.1	Soil	2/2/23		1 Jar				X	X																	
MH-B9_0.2-0.3	Soil	2/2/23		1 Jar			X																			
MH-B9_0.5-0.6	Soil	2/2/23		1 Jar																						
MH-B9_0.9-1.0	Soil	2/2/23		1 Jar			X																			
MH-B9_0.0-0.5	Soil	2/2/23		1 Bag		X																			X	
MH-B10_0.0-0.2	Soil	2/2/23		1 Jar			X																			
MH-B10_0.0-0.2	Soil	2/2/23		1 Bag		X																			X	
MH-B10_0.0-0.2A	Soil	2/2/23		1 Bag		X																		X		
MH-B10_0.2-0.4	Soil	2/2/23		1 Jar			X																			
MH-B10_0.5-0.6	Soil	2/2/23		1 Jar				X																		
MH-B10_1.0-1.1	Soil	2/2/23		1 Jar																						
MH-B10_1.4-1.5	Soil	2/2/23		1 Jar																						
MH-B10_0.2-1.0	Soil	2/2/23		1 Bag		X																			X	
MH-B10_0.2-1.0A	Soil	2/2/23		1 Bag		X																		X		
ED-B1_0.0-0.1	Soil	2/2/23		1 Jar			X				X															
ED-B1_0.2-0.3	Soil	2/2/23		1 Jar																						
ED-B1_0.4-0.5	Soil	2/2/23		1 Jar				X	X																	

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PROJECT NO.: 63879	LABORATORY BATCH NO.:
PROJECT NAME: BHHR	SAMPLERS: AJ
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COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos	JB2	8 Heavy Metaks	PAHs	VOCs	R21		Water: B8	Water: 28 PFAS	Water: BTEX	Hardness								TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
ED-B1_0.9-1.0	Soil	2/2/23		1 Jar				X																		
ED-B1_1.4-1.5	Soil	2/2/23		1 Jar																						
ED-B1_1.9-2.0	Soil	2/2/23		1 Jar																						
ED-B1_0.0-1.0	Soil	2/2/23		1 Bag		X																			X	
ED-B2_0.0-0.1	Soil	4/2/23		1 Jar				X	X																	
ED-B2_0.2-0.3	Soil	4/2/23		1 Jar			X																			
ED-B2_0.5-0.6	Soil	4/2/23		1 Jar																						
ED-B2_0.0-0.3	Soil	4/2/23		1 Bag		X																			X	
ED-B3_0.0-0.1	Soil	4/2/23		1 Jar			X																			
ED-B3_0.2-0.3	Soil	4/2/23		1 Jar				X																		
ED-B3_0.5-0.6	Soil	4/2/23		1 Jar																						
ED-B3_0.7-0.8	Soil	4/2/23		1 Jar																						
ED-B3_0.0-0.7	Soil	4/2/23		1 Bag		X																			X	
ED-B4_0.1-0.2	Soil	4/2/23		1 Jar				X																		
ED-B4_0.4-0.5	Soil	4/2/23		1 Jar			X																			
ED-B4_0.5-0.6	Soil	4/2/23		1 Jar																						
ED-B4_0.1-0.5	Soil	4/2/23		1 Bag		X																			X	
ED-B5_0.0-0.1	Soil	2/2/23		1 Jar			X																			
ED-B5_0.2-0.3	Soil	2/2/23		1 Jar				X																		
ED-B5_0.3-0.4	Soil	2/2/23		1 Jar																						
ED-B5_0.9-1.0	Soil	2/2/23		1 Jar																						
ED-B5_0.0-0.3	Soil	2/2/23		1 Bag		X																			X	
ED-B6_0.1-0.2	Soil	2/2/23		1 Jar				X																		
ED-B6_0.2-0.3	Soil	2/2/23		1 Jar			X																			
ED-B6_0.3-0.4	Soil	2/2/23		1 Jar																						

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Chain of Custody

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PROJECT NO.: 63879	LABORATORY BATCH NO.:
PROJECT NAME: BHHR	SAMPLERS: AJ
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PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113	
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COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos	JB2	8 Heavy Metaks	PAHs	VOCs	R21		Water: B8	Water: 28 PFAS	Water: BTEX	Hardness								TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
ED-B6_0.9-1.0	Soil	2/2/23		1 Jar																					
ED-B6_0.1-0.3	Soil	2/2/23		1 Bag		X																			X	
ED-B7_0.0-0.2	Soil	4/2/23		1 Jar			X																		
ED-B7_0.0-0.2	Soil	4/2/23		1 Bag		X																			X	
ED-B7_0.2-0.3	Soil	4/2/23		1 Jar				X	X																
ED-B7_0.3-0.4	Soil	4/2/23		1 Jar																					
ED-B7_0.5-0.65	Soil	4/2/23		1 Jar																					
ED-B8_0.0-0.2	Soil	4/2/23		1 Jar				X	X																
ED-B8_0.3-0.4	Soil	4/2/23		1 Jar			X																		
ED-B8_0.5-0.6	Soil	4/2/23		1 Jar				X																	
ED-B8_0.8-1.0	Soil	4/2/23		1 Jar			X																		
ED-B8_0.0-0.6	Soil	4/2/23		1 Bag		X																			X	
ED-B9_0.0-0.1	Soil	4/2/23		1 Jar				X	X																
ED-B9_0.0-0.1	Soil	4/2/23		1 Bag		X																			X	
ED-B9_0.1-0.2	Soil	4/2/23		1 Jar			X																		
ED-B9_0.5-0.6	Soil	4/2/23		1 Jar																					
ED-B9_0.1-0.5	Soil	4/2/23		1 Bag		X																			X	
GW01	Water	5/2/23		2A, 4V, 2P, 1PFAS									X	X		X										PAHs = low level
GW02	Water	5/2/23		2A, 4V, 2P, 1PFAS									X	X		X										PAHs = low level
GW03	Water	5/2/23		2A, 4V, 2P, 1PFAS									X	X		X										PAHs = low level
DUP01	Soil	2/2/23		1 Jar			X																		
DUP02	Soil	2/2/23		1 Jar				X	X																
DUP03	Soil	3/2/23		1 Jar			X																		
DUP04	Soil	3/2/23		1 Jar			X																		
DUP05	Soil	3/2/23		1 Bag		X																			

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PROJECT NO.: 63879	LABORATORY BATCH NO.:
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COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos	JB2	8 Heavy Metaks	PAHs	VOCs	R21		Water: B8	Water: 28 PFAS	Water: BTEX	Hardness								TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
DUP06	Soil	3/2/23		1 Jar			X			X																
DUP07	Soil	4/2/23		1 Jar																						
DUP08	Soil	4/2/23		1 Bag																						
DUP01	Water	5/2/23		2A, 4V, 2P, 1 PFAS									X	X												
Sspk3973				1 Vial										X												
Wsp8872	Water			1 Vial										X												
WTB01	Water	5/2/23		1 Vial											X	X										
STB01	Water	5/2/23		1 Vial											X	X										

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Chain of Custody

JBS&G

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COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos	JB2	8 Heavy Metaks	PAHs	VOCs	R21		Water: B8	Water: 28 PFAS	Water: BTEX	Hardness								TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA
SPLIT01	Soil	2/2/23		1 Jar			X																		
SPLIT02	Soil	2/2/23		1 Jar				X	X																
SPLIT03	Soil	3/2/23		1 Jar			X																		
SPLIT04	Soil	3/2/23		1 Jar			X																		
SPLIT05	Soil	3/2/23		1 Bag		X																			X
SPLIT06	Soil	3/2/23		1 Jar			X			X															
SPLIT07	Soil	4/2/23		1 Jar																					
SPLIT08	Soil	4/2/23		1 Bag		X																			X
SPLIT01	Water	5/2/23		2A, 4V, 2P, 1 PFAS									X	X											

NOTES:

SPLIT SAMPLES TO BE FORWARDED TO ENVIROLAB ASAP PLEASE

JB2 = Combo 5
Water B8 = 8 HM, PAHs (Trace), TRH and VOCs

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: MH DATE: 8/2/23 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C
NAME: DATE: OF:	CONSIGNMENT NOTE NO. TRANSPORT CO	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C

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

COPY

13

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Tyrone Gowans

From: Andrew James <ajames@jbsg.com.au>
Sent: Thursday, 9 February 2023 11:15 AM
To: Amy Meunier
Cc: #AU_CAU001_EnviroSampleVic; Parimal Acharya
Subject: Re: Samples Recieved: 63879
Attachments: 63879_COC.doc

Follow Up Flag: Follow up
Flag Status: Flagged

CAUTION: EXTERNAL EMAIL - Sent from an email domain that is not formally trusted by Eurofins.
Do not click on links or open attachments unless you recognise the sender and are certain that the content is safe.

Hi Amy and co, please see attached

Kind regards

Andrew James
0438 849 614

From: Amy Meunier <AmyMeunier@eurofins.com>
Sent: Thursday, February 9, 2023 10:22:55 AM
To: Andrew James <ajames@jbsg.com.au>
Cc: #AU_CAU001_EnviroSampleVic <EnviroSampleVic@eurofins.com>; Parimal Acharya <ParimalAcharya@eurofins.com>
Subject: Samples Recieved: 63879

[EXTERNAL EMAIL] Stop and think before opening attachments, clicking or responding.

Hi Andrew,

We have received samples for project 63879, please send through analysis when available.

Kind regards,

Amy Meunier

Analytical Services Manager
Mobile : +61 477 574 867
Email : AmyMeunier@eurofins.com

Eurofins
6 Monterey Road,
Dandenong VIC 3175
Australia

To see Eurofins full Field Services Capabilities click here

eurofins | Environment Testing

PROJECT INFORMATION

Date Received: 06/02/'23

Company: JBS&G

Contact person: Andrew. J

Contact Number:

Contact E-mail:

Project Name/site:

Project Number: 63879

COC: **Attached** ☐
E-mailed ☑
Not received ☐

10.1°C
+0.3°C
10.4°C
on ice/1B.

#962621
10/2/23

Last modified on: 16 October 2019	Approved on: 16 October 2019	Version: QS1039_R2
Last modified by: H. Le	Approver: M. Makarios	Page 1 of 1
Editorial Committee: T. Lakeland, F. Sanjaya, H. Le, M. Makarios		Next required review date: 16 October 2022

Tyrone Gowans

From: Rob Sharp <RSharp@jbsg.com.au>
Sent: Wednesday, 15 February 2023 1:53 PM
To: #AU_CAU001_EnviroSampleVic
Cc: Mitchell Hodgins; Gina Pinget; Andrew James
Subject: FW: Eurofins Sample Receipt Advice - Report 962621 : Site BHHR (63879)

Follow Up Flag: Follow up
Flag Status: Flagged

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Hi Jessica,

Can I please get the following scheduled for analysis for report 962621

WRB01 – JB2
SRB01 – JB2
WTB01 – Btex
STB01 – Btex
Sspk3972 – Btex
Wsp8872 – Btex

Thanks

Rob

Robert Sharp | Project Manager | JBS&G
Gadigal Country | 50 Margaret Street, Sydney, NSW
T: 02 8245 0300 | M: 0435 152 557 | E: rsharp@jbsg.com.au | W: jbsg.com.au | L: Conditions and Limitations

Exceptional Outcomes

From: EnviroSampleVic@eurofins.com <EnviroSampleVic@eurofins.com>
Sent: Friday, 10 February 2023 5:50 PM
To: Mitchell Hodgins <MHodgins@jbsg.com.au>
Cc: Gina Pinget <gpinget@jbsg.com.au>
Subject: Eurofins Sample Receipt Advice - Report 962621 : Site BHHR (63879)

[EXTERNAL EMAIL] Stop and think before opening attachments, clicking or responding.

Dear Valued Client,

Hardness not available on samples WTB01 and STB01. PFAS analysis not available on samples Sspk3973

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
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Sydney
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Murarrie
QLD 4172
Tel: +61 7 3902 4600
NATA# 1261 Site# 20794

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1/2 Frost Drive
Mayfield West NSW 2304
Tel: +61 2 4968 8448
NATA# 1261
Site# 25079 & 25289

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ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
Tel: +61 8 6253 4444
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Tel: 0800 856 450
IANZ# 1290

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

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

Project Name: BHHR
Project ID: 63879

Order No.:
Report #: 962621
Phone: 02 8245 0300
Fax:

Received: Feb 9, 2023 10:22 AM
Due: Feb 16, 2023
Priority: 5 Day
Contact Name: Mitch Hodgins

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Hardness Set	Volatile Organics	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B8 (filtered metals)	JBS&G Suite 2	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
External Laboratory																		
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**													
1	KW-B1_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023564									X	X		X	
2	KW-B1_0.2-0.3	Feb 03, 2023		Soil	M23-Fe0023565				X	X				X				
3	KW-B1_0.0-0.5	Feb 03, 2023		Soil	M23-Fe0023566	X												
4	KW-B2_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023567									X			X	
5	KW-B2_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023568	X												
6	KW-B2_0.1-0.3	Feb 03, 2023		Soil	M23-Fe0023569			X										
7	KW-B2_0.3-	Feb 03, 2023		Soil	M23-Fe0023570									X			X	

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web: www.eurofins.com.au
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WA 6106
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Auckland
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Auckland 1061
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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	0.4																	
8	KW-B3_0.1-0.2	Feb 03, 2023		Soil	M23-Fe0023571								X	X			X	
9	KW-B3_0.25-0.3	Feb 03, 2023		Soil	M23-Fe0023572									X			X	
10	KW-B3_0.0-0.4	Feb 03, 2023		Soil	M23-Fe0023573	X												
11	KW-B3_0.0-0.4A	Feb 03, 2023		Building Materials	M23-Fe0023574		X											
12	KW-B4_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023575				X	X				X				
13	KW-B4_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023576	X												
14	KW-B4_0.1-0.3	Feb 03, 2023		Soil	M23-Fe0023577									X			X	
15	KW-B4_0.1-	Feb 03, 2023		Soil	M23-Fe0023578	X												

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Welshpool
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35 O'Rorke Road
Penrose,
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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	0.3																	
16	KW-B4_0.1-0.3A	Feb 03, 2023		Building Materials	M23-Fe0023579		X											
17	KW-B5_0.1-0.2	Feb 03, 2023		Soil	M23-Fe0023580									X	X		X	
18	KW-B5_0.4-0.5	Feb 03, 2023		Soil	M23-Fe0023581				X	X				X				
19	KW-B5_0.1-0.4	Feb 03, 2023		Soil	M23-Fe0023582	X												
20	KW-B5_0.4-1.0	Feb 03, 2023		Soil	M23-Fe0023583	X												
21	KW-B6_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023584				X	X				X				
22	KW-B6_0.5-0.6	Feb 03, 2023		Soil	M23-Fe0023585									X			X	
23	KW-B7_0.2-	Feb 03, 2023		Soil	M23-Fe0023586									X			X	

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ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
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Murarrie
QLD 4172
Tel: +61 7 3902 4600
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Newcastle
1/2 Frost Drive
Mayfield West NSW 2304
Tel: +61 2 4968 8448
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ABN: 91 05 0159 898

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

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NZBN: 9429046024954

Auckland
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Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

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

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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	0.3																	
24	KW-B7_0.5-0.6	Feb 03, 2023		Soil	M23-Fe0023587				X	X				X				
25	KW-B7_0.0-0.6	Feb 03, 2023		Soil	M23-Fe0023588	X												
26	KW-B7_0.0-0.6A	Feb 03, 2023		Building Materials	M23-Fe0023589		X											
27	KW-B8_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023590									X			X	
28	KW-B8_0.2-0.4	Feb 03, 2023		Soil	M23-Fe0023591								X	X			X	
29	KW-B8_0.0-0.4	Feb 03, 2023		Soil	M23-Fe0023592	X												
30	MH-B1_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023594					X				X				
31	MH-B1_0.0-	Feb 03, 2023		Soil	M23-Fe0023595	X												

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

Melbourne
6 Monterey Road
Dandenong South
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NSW 2145
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Welshpool
WA 6106
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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	0.1																	
32	MH-B1_0.1-0.2	Feb 03, 2023		Soil	M23-Fe0023596								X	X			X	
33	MH-B1_0.1-0.2	Feb 03, 2023		Soil	M23-Fe0023597	X												
34	MH-B1_0.2-0.3	Feb 03, 2023		Soil	M23-Fe0023598					X				X				
35	MH-B1_0.2-0.3	Feb 03, 2023		Soil	M23-Fe0023599	X												
36	MH-B2_0.2-0.3	Feb 03, 2023		Soil	M23-Fe0023600					X				X				
37	MH-B2_0.4-0.5	Feb 03, 2023		Soil	M23-Fe0023601									X			X	
38	MH-B2_0.2-0.8	Feb 03, 2023		Soil	M23-Fe0023602	X												
39	MH-B3_0.0-	Feb 03, 2023		Soil	M23-Fe0023603									X			X	

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web: www.eurofins.com.au
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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	0.1																	
40	MH-B3_0.2-0.3	Feb 03, 2023		Soil	M23-Fe0023604					X				X				
41	MH-B3_0.8-1.0	Feb 03, 2023		Soil	M23-Fe0023605									X			X	
42	MH-B3_0.0-0.6	Feb 03, 2023		Soil	M23-Fe0023606	X												
43	MH-B3_0.8-1.0	Feb 03, 2023		Soil	M23-Fe0023607	X												
44	MH-B4_0.2-0.3	Feb 03, 2023		Soil	M23-Fe0023608									X			X	
45	MH-B4_0.6-0.7	Feb 03, 2023		Soil	M23-Fe0023609					X				X				
46	MH-B4_0.0-0.6	Feb 03, 2023		Soil	M23-Fe0023610	X												
47	MH-B5_0.0-	Feb 02, 2023		Soil	M23-Fe0023611					X				X				

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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	0.1																	
48	MH-B5_0.1-0.2	Feb 02, 2023		Soil	M23-Fe0023612									X			X	
49	MH-B5_0.4-0.5	Feb 02, 2023		Soil	M23-Fe0023613									X			X	
50	MH-B5_0.8-0.9	Feb 02, 2023		Soil	M23-Fe0023614					X				X				
51	MH-B5_0.0-0.9	Feb 02, 2023		Soil	M23-Fe0023615	X												
52	MH-B6_0.0-0.1	Feb 02, 2023		Soil	M23-Fe0023616								X	X			X	
53	MH-B6_0.2-0.3	Feb 02, 2023		Soil	M23-Fe0023617				X	X				X	X			
54	MH-B6_0.4-0.5	Feb 02, 2023		Soil	M23-Fe0023618					X				X				
55	MH-B6_0.0-	Feb 02, 2023		Soil	M23-Fe0023619	X												

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19/8 Lewalan Street
Grovedale
VIC 3216
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Sydney
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Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261 Site# 18217

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Mitchell
ACT 2911
Tel: +61 2 6113 8091
NATA# 1261 Site# 25466

Brisbane
1/21 Smallwood Place
Murarrie
QLD 4172
Tel: +61 7 3902 4600
NATA# 1261 Site# 20794

Newcastle
1/2 Frost Drive
Mayfield West NSW 2304
Tel: +61 2 4968 8448
NATA# 1261
Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

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

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

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Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: BHHR
Project ID: 63879

Order No.:
Report #: 962621
Phone: 02 8245 0300
Fax:

Received: Feb 9, 2023 10:22 AM
Due: Feb 16, 2023
Priority: 5 Day
Contact Name: Mitch Hodgins

Eurofins Analytical Services Manager : Andrew Black

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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	0.6																	
56	MH-B7_0.0-0.1	Feb 02, 2023		Soil	M23-Fe0023620				X	X				X				
57	MH-B7_0.2-0.3	Feb 02, 2023		Soil	M23-Fe0023621									X			X	
58	MH-B7_0.9-1.0	Feb 02, 2023		Soil	M23-Fe0023622									X			X	
59	MH-B7_0.0-1.0	Feb 02, 2023		Soil	M23-Fe0023623	X												
60	MH-B8_0.1-0.2	Feb 02, 2023		Soil	M23-Fe0023624				X	X				X				
61	MH-B8_0.4-0.5	Feb 02, 2023		Soil	M23-Fe0023625									X			X	
62	MH-B8_0.5-0.6	Feb 02, 2023		Soil	M23-Fe0023626					X				X				
63	MH-B8_0.1-	Feb 02, 2023		Soil	M23-Fe0023627	X												

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
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Dandenong South
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Tel: 0800 856 450
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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	0.3																	
64	MH-B8_0.3-0.5	Feb 02, 2023		Soil	M23-Fe0023628	X												
65	MH-B9_0.0-0.1	Feb 02, 2023		Soil	M23-Fe0023629				X	X				X				
66	MH-B9_0.2-0.3	Feb 02, 2023		Soil	M23-Fe0023630									X			X	
67	MH-B9_0.9-1.0	Feb 02, 2023		Soil	M23-Fe0023631									X			X	
68	MH-B9_0.0-0.5	Feb 02, 2023		Soil	M23-Fe0023632	X												
69	MH-B10_0.0-0.2	Feb 02, 2023		Soil	M23-Fe0023633									X			X	
70	MH-B10_0.0-0.2	Feb 02, 2023		Soil	M23-Fe0023634	X												
71	MH-B10_0.0-	Feb 02, 2023		Building	M23-Fe0023635		X											

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web: www.eurofins.com.au
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Melbourne
6 Monterey Road
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VIC 3175
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ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
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NZBN: 9429046024954

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35 O'Rorke Road
Penrose,
Auckland 1061
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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	0.2A			Materials														
72	MH-B10_0.2-0.4	Feb 02, 2023		Soil	M23-Fe0023636									X			X	
73	MH-B10_0.5-0.6	Feb 02, 2023		Soil	M23-Fe0023637					X				X				
74	MH-B10_0.2-1.0	Feb 02, 2023		Soil	M23-Fe0023638	X												
75	MH-B10_0.2-1.0A	Feb 02, 2023		Building Materials	M23-Fe0023639		X											
76	ED-B1_0.0-0.1	Feb 02, 2023		Soil	M23-Fe0023640									X	X		X	
77	ED-B1_0.4-0.5	Feb 02, 2023		Soil	M23-Fe0023641				X	X				X				
78	ED-B1_0.9-1.0	Feb 02, 2023		Soil	M23-Fe0023642					X				X				
79	ED-B1_0.0-1.0	Feb 02, 2023		Soil	M23-Fe0023643	X												
80	ED-B2_0.0-0.1	Feb 04, 2023		Soil	M23-Fe0023644				X	X				X				
81	ED-B2_0.2-0.3	Feb 04, 2023		Soil	M23-Fe0023645									X			X	

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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Dandenong South
VIC 3175
Tel: +61 3 8564 5000
NATA# 1261 Site# 1254

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
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Welshpool
WA 6106
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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
82	ED-B2_0.0-0.3	Feb 04, 2023		Soil	M23-Fe0023646	X												
83	ED-B3_0.0-0.1	Feb 04, 2023		Soil	M23-Fe0023647									X			X	
84	ED-B3_0.2-0.3	Feb 04, 2023		Soil	M23-Fe0023648					X				X				
85	ED-B3_0.0-0.7	Feb 04, 2023		Soil	M23-Fe0023649	X												
86	ED-B4_0.1-0.2	Feb 04, 2023		Soil	M23-Fe0023650					X				X				
87	ED-B4_0.4-0.5	Feb 04, 2023		Soil	M23-Fe0023651									X			X	
88	ED-B4_0.1-0.5	Feb 04, 2023		Soil	M23-Fe0023652	X												
89	ED-B5_0.0-0.1	Feb 02, 2023		Soil	M23-Fe0023653									X			X	
90	ED-B5_0.2-0.3	Feb 02, 2023		Soil	M23-Fe0023654					X				X				
91	ED-B5_0.0-0.3	Feb 02, 2023		Soil	M23-Fe0023655	X												
92	ED-B6_0.1-0.2	Feb 02, 2023		Soil	M23-Fe0023656					X				X				
93	ED-B6_0.2-0.3	Feb 02, 2023		Soil	M23-Fe0023657									X			X	
94	ED-B6_0.1-0.3	Feb 02, 2023		Soil	M23-Fe0023658	X												
95	ED-B7_0.0-0.2	Feb 04, 2023		Soil	M23-Fe0023659									X			X	

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

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
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Sydney
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Girraween
NSW 2145
Tel: +61 2 9900 8400
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Canberra
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Mitchell
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NATA# 1261 Site# 25466

Brisbane
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Murarrie
QLD 4172
Tel: +61 7 3902 4600
NATA# 1261 Site# 20794

Newcastle
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ABN: 91 05 0159 898

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Welshpool
WA 6106
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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
96	ED-B7_0.0-0.2	Feb 04, 2023		Soil	M23-Fe0023660	X												
97	ED-B7_0.2-0.3	Feb 04, 2023		Soil	M23-Fe0023661				X	X				X				
98	ED-B8_0.0-0.2	Feb 04, 2023		Soil	M23-Fe0023662				X	X				X				
99	ED-B8_0.3-0.4	Feb 04, 2023		Soil	M23-Fe0023663									X			X	
100	ED-B8_0.8-1.0	Feb 04, 2023		Soil	M23-Fe0023665									X			X	
101	ED-B8_0.0-0.6	Feb 04, 2023		Soil	M23-Fe0023666	X												
102	ED-B9_0.0-0.1	Feb 04, 2023		Soil	M23-Fe0023667				X	X				X				
103	ED-B9_0.0-0.1	Feb 04, 2023		Soil	M23-Fe0023668	X												
104	ED-B9_0.1-0.2	Feb 04, 2023		Soil	M23-Fe0023669									X			X	
105	ED-B9_0.1-0.5	Feb 04, 2023		Soil	M23-Fe0023670	X												
106	GW01	Feb 05, 2023		Water	M23-Fe0023671							X				X		X
107	GW02	Feb 05, 2023		Water	M23-Fe0023672							X				X		X
108	GW03	Feb 05, 2023		Water	M23-Fe0023673							X				X		X
109	DUP01	Feb 02, 2023		Soil	M23-Fe0023674									X			X	

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web: www.eurofins.com.au
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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
110	DUP02	Feb 02, 2023		Soil	M23-Fe0023675				X	X				X				
111	DUP03	Feb 03, 2023		Soil	M23-Fe0023676									X			X	
112	DUP04	Feb 03, 2023		Soil	M23-Fe0023677									X			X	
113	DUP06	Feb 03, 2023		Soil	M23-Fe0023678								X	X			X	
114	DUP01	Feb 05, 2023		Water	M23-Fe0023679											X		X
115	Sspk3973	Not Provided		Soil	M23-Fe0023680						X							
116	Wsp8872	Not Provided		Water	M23-Fe0023681						X							
117	WTB01	Feb 05, 2023		Water	M23-Fe0023682						X							
118	STB01	Feb 05, 2023		Water	M23-Fe0023683						X							
119	KW-B1_0.4-0.5	Feb 03, 2023		Soil	M23-Fe0023684			X										
120	KW-B2_0.1-0.3	Feb 03, 2023		Soil	M23-Fe0023685	X												
121	KW-B3_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023686			X										

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web: www.eurofins.com.au
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Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
122	KW-B3_0.3-0.4	Feb 03, 2023		Soil	M23-Fe0023687			X										
123	KW-B3_0.4-0.5	Feb 03, 2023		Soil	M23-Fe0023688			X										
124	KW-B4_0.3-0.4	Feb 03, 2023		Soil	M23-Fe0023689			X										
125	KW-B5_0.9-1.0	Feb 03, 2023		Soil	M23-Fe0023691			X										
126	KW-B6_0.2-0.3	Feb 03, 2023		Soil	M23-Fe0023692			X										
127	KW-B6_0.0-0.6	Feb 03, 2023		Soil	M23-Fe0023693			X										
128	KW-B7_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023694			X										
129	MH-B2_0.8-0.9	Feb 03, 2023		Soil	M23-Fe0023695			X										

eurofins

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

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261 Site# 25403

Sydney
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261 Site# 18217

Canberra
Unit 1,2 Dacre Street
Mitchell
ACT 2911
Tel: +61 2 6113 8091
NATA# 1261 Site# 25466

Brisbane
1/21 Smallwood Place
Murarrie
QLD 4172
Tel: +61 7 3902 4600
NATA# 1261 Site# 20794

Newcastle
1/2 Frost Drive
Mayfield West NSW 2304
Tel: +61 2 4968 8448
NATA# 1261
Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

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

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

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

Project Name: BHHR
Project ID: 63879

Order No.:
Report #: 962621
Phone: 02 8245 0300
Fax:

Received: Feb 9, 2023 10:22 AM
Due: Feb 16, 2023
Priority: 5 Day
Contact Name: Mitch Hodgins

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Hardness Set	Volatile Organics	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B8 (filtered metals)	JBS&G Suite 2	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
130	MH-B2_1.4-1.5	Feb 03, 2023		Soil	M23-Fe0023696			X										
131	MH-B3_0.5-0.6	Feb 03, 2023		Soil	M23-Fe0023697			X										
132	MH-B6_0.6-0.7	Feb 02, 2023		Soil	M23-Fe0023698			X										
133	MH-B7_0.4-0.5	Feb 02, 2023		Soil	M23-Fe0023699			X										
134	MH-B7_1.1-1.2	Feb 02, 2023		Soil	M23-Fe0023700			X										
135	MH-B8_0.9-1.0	Feb 02, 2023		Soil	M23-Fe0023701			X										
136	MH-B9_0.5-0.6	Feb 02, 2023		Soil	M23-Fe0023702			X										
137	MH-B10_1.0-1.1	Feb 02, 2023		Soil	M23-Fe0023703			X										

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
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Girraween
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Tel: +61 7 3902 4600
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Mayfield West NSW 2304
Tel: +61 2 4968 8448
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Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

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

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

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

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Address: Level 1, 50 Margaret St
Sydney
NSW 2000

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Order No.:
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Fax:

Received: Feb 9, 2023 10:22 AM
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Priority: 5 Day
Contact Name: Mitch Hodgins

Eurofins Analytical Services Manager : Andrew Black

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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
138	MH-B10_1.4-1.5	Feb 02, 2023		Soil	M23-Fe0023704			X										
139	ED-B1_0.2-0.3	Feb 02, 2023		Soil	M23-Fe0023705			X										
140	ED-B1_1.4-1.5	Feb 02, 2023		Soil	M23-Fe0023706			X										
141	ED-B1_1.9-2.0	Feb 02, 2023		Soil	M23-Fe0023707			X										
142	ED-B2_0.5-0.6	Feb 04, 2023		Soil	M23-Fe0023708			X										
143	ED-B3_0.5-0.6	Feb 04, 2023		Soil	M23-Fe0023709			X										
144	ED-B3_0.7-0.8	Feb 04, 2023		Soil	M23-Fe0023710			X										
145	ED-B4_0.5-0.6	Feb 04, 2023		Soil	M23-Fe0023711			X										
146	ED-B5_0.3-0.4	Feb 02, 2023		Soil	M23-Fe0023712			X										
147	ED-B5_0.9-1.0	Feb 02, 2023		Soil	M23-Fe0023713			X										
148	ED-B6_0.3-0.4	Feb 02, 2023		Soil	M23-Fe0023714			X										
149	ED-B6_0.9-1.0	Feb 02, 2023		Soil	M23-Fe0023715			X										
150	ED-B7_0.3-0.4	Feb 04, 2023		Soil	M23-Fe0023716			X										

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

Melbourne
6 Monterey Road
Dandenong South
VIC 3175
Tel: +61 3 8564 5000
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ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
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Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

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Eurofins Analytical Services Manager : Andrew Black

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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
151	ED-B7_0.5-0.65	Feb 04, 2023		Soil	M23-Fe0023717			X										
152	ED-B9_0.5-0.6	Feb 04, 2023		Soil	M23-Fe0023718			X										
153	DUP05	Feb 03, 2023		Soil	M23-Fe0023719			X										
154	DUP07	Feb 04, 2023		Soil	M23-Fe0023720			X										
155	DUP08	Feb 04, 2023		Soil	M23-Fe0023721			X										
156	WRB01	Not Provided		Water	M23-Fe0023722												X	
157	SRB01	Not Provided		Water	M23-Fe0023723												X	
158	SRB02	Not Provided		Water	M23-Fe0023724			X										
159	SRB03	Not Provided		Water	M23-Fe0023725			X										
160	ED_B6_0.3-1.0	Not Provided		Soil	M23-Fe0023726			X										
161	KW_B8_0.4-0.5	Not Provided		Building Materials	M23-Fe0023727			X										
162	UNLABELLED	Not Provided		Building	M23-Fe0023728			X										

eurofins

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

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ABN: 50 005 085 521

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6 Monterey Road
Dandenong South
VIC 3175
Tel: +61 3 8564 5000
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Penrose,
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IANZ# 1327

Christchurch
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IANZ# 1290

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Project ID: 63879

Order No.:
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Phone: 02 8245 0300
Fax:

Received: Feb 9, 2023 10:22 AM
Due: Feb 16, 2023
Priority: 5 Day
Contact Name: Mitch Hodgins

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Hardness Set	Volatile Organics	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B8 (filtered metals)	JBS&G Suite 2	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	ASB BAG			Materials														
163	MH_B4_0.4-0.5	Not Provided		Soil	M23-Fe0023729			X										
164	KW_B2_0.5-0.7	Not Provided		Soil	M23-Fe0024121			X										
165	ED-B8_0.5-0.6	Feb 02, 2023		Soil	M23-Fe0024143					X				X				
Test Counts						35	5	44	15	31	4	3	5	71	4	4	42	4

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

NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: **Mitch Hodgins**

Report **962621-W**
Project name BHHR
Project ID 63879
Received Date Feb 09, 2023

Client Sample ID			**GW01**	**GW02**	**GW03**	**DUP01**
Sample Matrix			**Water**	**Water**	**Water**	**Water**
Eurofins Sample No.			**M23-Fe0023671**	**M23-Fe0023672**	**M23-Fe0023673**	**M23-Fe0023679**
Date Sampled			**Feb 05, 2023**	**Feb 05, 2023**	**Feb 05, 2023**	**Feb 05, 2023**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	0.02	mg/L	< 0.02	0.09	< 0.04	0.22
TRH C10-C14	0.05	mg/L	< 0.05	0.11	0.12	0.13
TRH C15-C28	0.1	mg/L	< 0.1	0.1	< 0.1	< 0.1
TRH C29-C36	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH C10-C36 (Total)	0.1	mg/L	< 0.1	0.21	0.12	0.13
TRH C6-C10	0.02	mg/L	< 0.02	0.10	< 0.04	0.21
TRH C6-C10 less BTEX (F1)[N04]	0.02	mg/L	< 0.02	0.06	< 0.04	0.05
TRH >C10-C16	0.05	mg/L	< 0.05	0.09	0.07	0.07
TRH >C10-C16 less Naphthalene (F2)[N01]	0.05	mg/L	< 0.05	0.09	0.07	0.07
TRH >C16-C34	0.1	mg/L	< 0.1	0.1	0.1	< 0.1
TRH >C34-C40	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH >C10-C40 (total)*	0.1	mg/L	< 0.1	0.19	0.17	< 0.1
Volatile Organics						
1.1-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
1.1-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
1.1.1-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
1.1.1.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
1.1.2-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
1.1.2.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
1.2-Dibromoethane	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
1.2-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	0.014	0.27
1.2-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
1.2-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
1.2.3-Trichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
1.2.4-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
1.3-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
1.3-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
1.3.5-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
1.4-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.002	0.062
2-Butanone (MEK)	0.005	mg/L	< 0.005	< 0.005	< 0.01	< 0.01
2-Propanone (Acetone)	0.005	mg/L	< 0.005	< 0.005	< 0.01	< 0.01
4-Chlorotoluene	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
4-Methyl-2-pentanone (MIBK)	0.005	mg/L	< 0.005	< 0.005	< 0.01	< 0.01
Allyl chloride	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
Benzene	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002

Client Sample ID			GW01	GW02	GW03	DUP01
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M23-Fe0023671	M23-Fe0023672	M23-Fe0023673	M23-Fe0023679
Date Sampled			Feb 05, 2023	Feb 05, 2023	Feb 05, 2023	Feb 05, 2023
Test/Reference	LOR	Unit				
Volatile Organics						
Bromobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
Bromochloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
Bromodichloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
Bromoform	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
Bromomethane	0.005	mg/L	< 0.005	< 0.005	< 0.01	< 0.01
Carbon disulfide	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
Carbon Tetrachloride	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
Chlorobenzene	0.001	mg/L	< 0.001	< 0.001	0.002	0.045
Chloroethane	0.005	mg/L	< 0.005	< 0.005	< 0.01	< 0.01
Chloroform	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Chloromethane	0.005	mg/L	< 0.005	< 0.005	< 0.01	< 0.01
cis-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
cis-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
Dibromochloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
Dibromomethane	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
Dichlorodifluoromethane	0.005	mg/L	< 0.005	< 0.005	< 0.01	< 0.01
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
Iodomethane	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
Isopropyl benzene (Cumene)	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
m&p-Xylenes	0.002	mg/L	< 0.002	< 0.002	< 0.004	< 0.004
Methylene Chloride	0.005	mg/L	< 0.005	< 0.005	< 0.01	< 0.01
o-Xylene	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
Styrene	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
Tetrachloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
Toluene	0.001	mg/L	0.006	0.040	0.007	0.16
trans-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
trans-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
Trichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
Trichlorofluoromethane	0.005	mg/L	< 0.005	< 0.005	< 0.01	< 0.01
Vinyl chloride	0.005	mg/L	< 0.005	< 0.005	< 0.01	< 0.01
Xylenes - Total*	0.003	mg/L	< 0.003	< 0.003	< 0.006	< 0.006
Total MAH*	0.003	mg/L	0.006	0.04	0.007	0.16
Vic EPA IWRG 621 CHC (Total)*	0.005	mg/L	< 0.005	< 0.005	0.016	0.377
Vic EPA IWRG 621 Other CHC (Total)*	0.005	mg/L	< 0.005	< 0.005	0.016	0.377
4-Bromofluorobenzene (surr.)	1	%	106	109	115	102
Toluene-d8 (surr.)	1	%	98	101	108	108
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.01	mg/L	< 0.01	< 0.01	< 0.02	< 0.02
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Acenaphthylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benz(a)anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(a)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(g.h.i)perylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(k)fluoranthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chrysene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dibenz(a.h)anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001

Client Sample ID			GW01	GW02	GW03	DUP01
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M23-Fe0023671	M23-Fe0023672	M23-Fe0023673	M23-Fe0023679
Date Sampled			Feb 05, 2023	Feb 05, 2023	Feb 05, 2023	Feb 05, 2023
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Fluoranthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Fluorene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Naphthalene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Phenanthrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Total PAH*	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
2-Fluorobiphenyl (surr.)	1	%	54	65	71	56
p-Terphenyl-d14 (surr.)	1	%	63	76	93	62
Hardness mg equivalent CaCO3/L	5	mg/L	740	580	380	-
Alkali Metals						
Calcium	0.5	mg/L	110	110	67	-
Magnesium	0.5	mg/L	110	72	53	-
Heavy Metals						
Arsenic (filtered)	0.001	mg/L	< 0.001	0.003	< 0.001	< 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	0.017	0.085	0.008	0.008
Lead (filtered)	0.001	mg/L	< 0.001	0.002	< 0.001	< 0.001
Mercury (filtered)	0.0001	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nickel (filtered)	0.001	mg/L	0.017	0.20	0.012	0.012
Zinc (filtered)	0.005	mg/L	0.076	0.98	0.082	0.081
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	0.05	ug/L	0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA)[N11]	0.01	ug/L	0.02	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	[N09]0.01	< 0.01	< 0.01	< 0.01
Perfluorononanoic acid (PFNA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTrDA)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	62	91	73	75
13C5-PFPeA (surr.)	1	%	77	93	88	87
13C5-PFHxA (surr.)	1	%	84	97	94	99
13C4-PFHpA (surr.)	1	%	84	94	89	94
13C8-PFOA (surr.)	1	%	106	108	107	109
13C5-PFNA (surr.)	1	%	108	116	118	114
13C6-PFDA (surr.)	1	%	89	92	97	90
13C2-PFUnDA (surr.)	1	%	79	86	86	95
13C2-PFDoDA (surr.)	1	%	75	87	101	99
13C2-PFTeDA (surr.)	1	%	57	65	84	95

Client Sample ID			GW01	GW02	GW03	DUP01
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M23-Fe0023671	M23-Fe0023672	M23-Fe0023673	M23-Fe0023679
Date Sampled			Feb 05, 2023	Feb 05, 2023	Feb 05, 2023	Feb 05, 2023
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	112	100	111	115
D3-N-MeFOSA (surr.)	1	%	89	104	104	125
D5-N-EtFOSA (surr.)	1	%	90	104	120	134
D7-N-MeFOSE (surr.)	1	%	64	72	74	99
D9-N-EtFOSE (surr.)	1	%	77	96	107	120
D5-N-EtFOSAA (surr.)	1	%	54	59	69	63
D3-N-MeFOSAA (surr.)	1	%	55	68	71	75
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	0.03	0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.01	ug/L	0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	[N09]0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	[N09]0.07	[N09]0.04	[N09]0.02	[N09]0.03
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	[N09]0.07	[N09]0.04	[N09]0.13	[N09]0.28
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	90	97	100	100
18O2-PFHxS (surr.)	1	%	93	96	98	98
13C8-PFOS (surr.)	1	%	105	119	117	119
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	92	112	99	103
13C2-6:2 FTSA (surr.)	1	%	76	104	83	95
13C2-8:2 FTSA (surr.)	1	%	120	124	115	133
13C2-10:2 FTSA (surr.)	1	%	44	54	68	66
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	0.14	0.08	0.15	0.31
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	0.08	0.04	0.13	0.28
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	0.15	0.08	0.15	0.31
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	0.25	0.09	0.15	0.31
Sum of PFASs (n=30)*	0.1	ug/L	0.27	< 0.1	0.15	0.31

Client Sample ID			Wsp8872	WTB01	STB01	WRB01
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M23-Fe0023681	M23-Fe0023682	M23-Fe0023683	M23-Fe0023722
Date Sampled			Not Provided[I12]	Feb 05, 2023	Feb 05, 2023	Not Provided[I12]
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	0.02	mg/L	-	-	-	< 0.02
TRH C10-C14	0.05	mg/L	-	-	-	< 0.05
TRH C15-C28	0.1	mg/L	-	-	-	< 0.1
TRH C29-C36	0.1	mg/L	-	-	-	< 0.1
TRH C10-C36 (Total)	0.1	mg/L	-	-	-	< 0.1
TRH C6-C10	0.02	mg/L	-	-	-	< 0.02
TRH C6-C10 less BTEX (F1)[N04]	0.02	mg/L	-	-	-	< 0.02
TRH >C10-C16	0.05	mg/L	-	-	-	< 0.05
TRH >C10-C16 less Naphthalene (F2)[N01]	0.05	mg/L	-	-	-	< 0.05
TRH >C16-C34	0.1	mg/L	-	-	-	< 0.1
TRH >C34-C40	0.1	mg/L	-	-	-	< 0.1
TRH >C10-C40 (total)*	0.1	mg/L	-	-	-	< 0.1
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.01	mg/L	-	-	-	< 0.01
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.001	mg/L	-	-	-	< 0.001
Acenaphthylene	0.001	mg/L	-	-	-	< 0.001
Anthracene	0.001	mg/L	-	-	-	< 0.001
Benz(a)anthracene	0.001	mg/L	-	-	-	< 0.001
Benzo(a)pyrene	0.001	mg/L	-	-	-	< 0.001
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	-	-	-	< 0.001
Benzo(g.h.i)perylene	0.001	mg/L	-	-	-	< 0.001
Benzo(k)fluoranthene	0.001	mg/L	-	-	-	< 0.001
Chrysene	0.001	mg/L	-	-	-	< 0.001
Dibenz(a.h)anthracene	0.001	mg/L	-	-	-	< 0.001
Fluoranthene	0.001	mg/L	-	-	-	< 0.001
Fluorene	0.001	mg/L	-	-	-	< 0.001
Indeno(1.2.3-cd)pyrene	0.001	mg/L	-	-	-	< 0.001
Naphthalene	0.001	mg/L	-	-	-	< 0.001
Phenanthrene	0.001	mg/L	-	-	-	< 0.001
Pyrene	0.001	mg/L	-	-	-	< 0.001
Total PAH*	0.001	mg/L	-	-	-	< 0.001
2-Fluorobiphenyl (surr.)	1	%	-	-	-	56
p-Terphenyl-d14 (surr.)	1	%	-	-	-	68
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
BTEX						
Benzene	0.001	mg/L	75	< 0.001	< 0.001	< 0.001
Toluene	0.001	mg/L	67	< 0.001	< 0.001	< 0.001
Ethylbenzene	0.001	mg/L	60	< 0.001	< 0.001	< 0.001
m&p-Xylenes	0.002	mg/L	57	< 0.002	< 0.002	< 0.002

Client Sample ID			Wsp8872	WTB01	STB01	WRB01
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M23-Fe0023681	M23-Fe0023682	M23-Fe0023683	M23-Fe0023722
Date Sampled			Not Provided[I12]	Feb 05, 2023	Feb 05, 2023	Not Provided[I12]
Test/Reference	LOR	Unit				
BTEX						
o-Xylene	0.001	mg/L	71	< 0.001	< 0.001	< 0.001
Xylenes - Total*	0.003	mg/L	62	< 0.003	< 0.003	< 0.003
4-Bromofluorobenzene (surr.)	1	%	103	103	101	105
Organochlorine Pesticides						
Chlordanes - Total	0.002	mg/L	-	-	-	< 0.002
4.4'-DDD	0.0002	mg/L	-	-	-	< 0.0002
4.4'-DDE	0.0002	mg/L	-	-	-	< 0.0002
4.4'-DDT	0.0002	mg/L	-	-	-	< 0.0002
a-HCH	0.0002	mg/L	-	-	-	< 0.0002
Aldrin	0.0002	mg/L	-	-	-	< 0.0002
b-HCH	0.0002	mg/L	-	-	-	< 0.0002
d-HCH	0.0002	mg/L	-	-	-	< 0.0002
Dieldrin	0.0002	mg/L	-	-	-	< 0.0002
Endosulfan I	0.0002	mg/L	-	-	-	< 0.0002
Endosulfan II	0.0002	mg/L	-	-	-	< 0.0002
Endosulfan sulphate	0.0002	mg/L	-	-	-	< 0.0002
Endrin	0.0002	mg/L	-	-	-	< 0.0002
Endrin aldehyde	0.0002	mg/L	-	-	-	< 0.0002
Endrin ketone	0.0002	mg/L	-	-	-	< 0.0002
g-HCH (Lindane)	0.0002	mg/L	-	-	-	< 0.0002
Heptachlor	0.0002	mg/L	-	-	-	< 0.0002
Heptachlor epoxide	0.0002	mg/L	-	-	-	< 0.0002
Hexachlorobenzene	0.0002	mg/L	-	-	-	< 0.0002
Methoxychlor	0.0002	mg/L	-	-	-	< 0.0002
Toxaphene	0.005	mg/L	-	-	-	< 0.005
Aldrin and Dieldrin (Total)*	0.0002	mg/L	-	-	-	< 0.0002
DDT + DDE + DDD (Total)*	0.0002	mg/L	-	-	-	< 0.0002
Vic EPA IWRG 621 OCP (Total)*	0.002	mg/L	-	-	-	< 0.002
Vic EPA IWRG 621 Other OCP (Total)*	0.002	mg/L	-	-	-	< 0.002
Dibutylchlorendate (surr.)	1	%	-	-	-	50
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	67
Polychlorinated Biphenyls						
Aroclor-1016	0.005	mg/L	-	-	-	< 0.005
Aroclor-1221	0.005	mg/L	-	-	-	< 0.005
Aroclor-1232	0.005	mg/L	-	-	-	< 0.005
Aroclor-1242	0.005	mg/L	-	-	-	< 0.005
Aroclor-1248	0.005	mg/L	-	-	-	< 0.005
Aroclor-1254	0.005	mg/L	-	-	-	< 0.005
Aroclor-1260	0.005	mg/L	-	-	-	< 0.005
Total PCB*	0.005	mg/L	-	-	-	< 0.005
Dibutylchlorendate (surr.)	1	%	-	-	-	50
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	67

Client Sample ID			SRB01
Sample Matrix			Water
Eurofins Sample No.			M23-Fe0023723
Date Sampled			Not Provided[I12]
Test/Reference	LOR	Unit	
Total Recoverable Hydrocarbons			
TRH C6-C9	0.02	mg/L	< 0.02
TRH C10-C14	0.05	mg/L	< 0.05
TRH C15-C28	0.1	mg/L	< 0.1
TRH C29-C36	0.1	mg/L	< 0.1
TRH C10-C36 (Total)	0.1	mg/L	< 0.1
TRH C6-C10	0.02	mg/L	< 0.02
TRH C6-C10 less BTEX (F1)[N04]	0.02	mg/L	< 0.02
TRH >C10-C16	0.05	mg/L	< 0.05
TRH >C10-C16 less Naphthalene (F2)[N01]	0.05	mg/L	< 0.05
TRH >C16-C34	0.1	mg/L	< 0.1
TRH >C34-C40	0.1	mg/L	< 0.1
TRH >C10-C40 (total)*	0.1	mg/L	< 0.1
Total Recoverable Hydrocarbons - 2013 NEPM Fractions			
Naphthalene[N02]	0.01	mg/L	< 0.01
Polycyclic Aromatic Hydrocarbons			
Acenaphthene	0.001	mg/L	< 0.001
Acenaphthylene	0.001	mg/L	< 0.001
Anthracene	0.001	mg/L	< 0.001
Benz(a)anthracene	0.001	mg/L	< 0.001
Benzo(a)pyrene	0.001	mg/L	< 0.001
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	< 0.001
Benzo(g.h.i)perylene	0.001	mg/L	< 0.001
Benzo(k)fluoranthene	0.001	mg/L	< 0.001
Chrysene	0.001	mg/L	< 0.001
Dibenz(a.h)anthracene	0.001	mg/L	< 0.001
Fluoranthene	0.001	mg/L	< 0.001
Fluorene	0.001	mg/L	< 0.001
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001
Naphthalene	0.001	mg/L	< 0.001
Phenanthrene	0.001	mg/L	< 0.001
Pyrene	0.001	mg/L	< 0.001
Total PAH*	0.001	mg/L	< 0.001
2-Fluorobiphenyl (surr.)	1	%	58
p-Terphenyl-d14 (surr.)	1	%	73
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
BTEX			
Benzene	0.001	mg/L	< 0.001
Toluene	0.001	mg/L	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002

Client Sample ID			SRB01
Sample Matrix			Water
Eurofins Sample No.			M23-Fe0023723
Date Sampled			Not Provided[I12]
Test/Reference	LOR	Unit	
BTEX			
o-Xylene	0.001	mg/L	< 0.001
Xylenes - Total*	0.003	mg/L	< 0.003
4-Bromofluorobenzene (surr.)	1	%	83
Organochlorine Pesticides			
Chlordanes - Total	0.002	mg/L	< 0.002
4.4'-DDD	0.0002	mg/L	< 0.0002
4.4'-DDE	0.0002	mg/L	< 0.0002
4.4'-DDT	0.0002	mg/L	< 0.0002
a-HCH	0.0002	mg/L	< 0.0002
Aldrin	0.0002	mg/L	< 0.0002
b-HCH	0.0002	mg/L	< 0.0002
d-HCH	0.0002	mg/L	< 0.0002
Dieldrin	0.0002	mg/L	< 0.0002
Endosulfan I	0.0002	mg/L	< 0.0002
Endosulfan II	0.0002	mg/L	< 0.0002
Endosulfan sulphate	0.0002	mg/L	< 0.0002
Endrin	0.0002	mg/L	< 0.0002
Endrin aldehyde	0.0002	mg/L	< 0.0002
Endrin ketone	0.0002	mg/L	< 0.0002
g-HCH (Lindane)	0.0002	mg/L	< 0.0002
Heptachlor	0.0002	mg/L	< 0.0002
Heptachlor epoxide	0.0002	mg/L	< 0.0002
Hexachlorobenzene	0.0002	mg/L	< 0.0002
Methoxychlor	0.0002	mg/L	< 0.0002
Toxaphene	0.005	mg/L	< 0.005
Aldrin and Dieldrin (Total)*	0.0002	mg/L	< 0.0002
DDT + DDE + DDD (Total)*	0.0002	mg/L	< 0.0002
Vic EPA IWRG 621 OCP (Total)*	0.002	mg/L	< 0.002
Vic EPA IWRG 621 Other OCP (Total)*	0.002	mg/L	< 0.002
Dibutylchlorendate (surr.)	1	%	94
Tetrachloro-m-xylene (surr.)	1	%	72
Polychlorinated Biphenyls			
Aroclor-1016	0.005	mg/L	< 0.005
Aroclor-1221	0.005	mg/L	< 0.005
Aroclor-1232	0.005	mg/L	< 0.005
Aroclor-1242	0.005	mg/L	< 0.005
Aroclor-1248	0.005	mg/L	< 0.005
Aroclor-1254	0.005	mg/L	< 0.005
Aroclor-1260	0.005	mg/L	< 0.005
Total PCB*	0.005	mg/L	< 0.005
Dibutylchlorendate (surr.)	1	%	94
Tetrachloro-m-xylene (surr.)	1	%	72

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
JBS&G Suite 2			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	Feb 15, 2023	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Feb 15, 2023	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Feb 15, 2023	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons	Melbourne	Feb 15, 2023	7 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Metals M8	Melbourne	Feb 15, 2023	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
BTEX	Melbourne	Feb 15, 2023	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			
Organochlorine Pesticides	Melbourne	Feb 15, 2023	7 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8270)			
Polychlorinated Biphenyls	Melbourne	Feb 15, 2023	7 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8082)			
Eurofins Suite B8 (filtered metals)			
Volatile Organics	Melbourne	Feb 13, 2023	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices (USEPA 8260)			
Metals M8 filtered	Melbourne	Feb 13, 2023	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Hardness Set			
Hardness mg equivalent CaCO3/L	Melbourne	Feb 13, 2023	28 Days
- Method: APHA 2340B Hardness by Calculation			
Alkali Metals	Melbourne	Feb 13, 2023	180 Days
- Method: LTM-MET-3010 Alkali Metals Sulfur Silicon Phosphorus by ICP-AES			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Melbourne	Feb 13, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Melbourne	Feb 13, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Melbourne	Feb 13, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Melbourne	Feb 13, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
PFASs Summations	Melbourne	Feb 10, 2023	
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

eurofins

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

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261 Site# 25403

Sydney
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261 Site# 18217

Canberra
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Mitchell
ACT 2911
Tel: +61 2 6113 8091
NATA# 1261 Site# 25466

Brisbane
1/21 Smallwood Place
Murarrie
QLD 4172
Tel: +61 7 3902 4600
NATA# 1261 Site# 20794

Newcastle
1/2 Frost Drive
Mayfield West NSW 2304
Tel: +61 2 4968 8448
NATA# 1261
Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

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

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

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

Project Name: BHHR
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Phone: 02 8245 0300
Fax:

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Priority: 5 Day
Contact Name: Mitch Hodgins

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Hardness Set	Volatile Organics	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B8 (filtered metals)	JBS&G Suite 2	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
External Laboratory																		
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**													
1	KW-B1_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023564									X	X		X	
2	KW-B1_0.2-0.3	Feb 03, 2023		Soil	M23-Fe0023565				X	X				X				
3	KW-B1_0.0-0.5	Feb 03, 2023		Soil	M23-Fe0023566	X												
4	KW-B2_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023567									X			X	
5	KW-B2_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023568	X												
6	KW-B2_0.1-0.3	Feb 03, 2023		Soil	M23-Fe0023569			X										
7	KW-B2_0.3-	Feb 03, 2023		Soil	M23-Fe0023570									X			X	

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

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
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QLD 4172
Tel: +61 7 3902 4600
NATA# 1261 Site# 20794

Newcastle
1/2 Frost Drive
Mayfield West NSW 2304
Tel: +61 2 4968 8448
NATA# 1261
Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

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

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

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

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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	0.4																	
8	KW-B3_0.1-0.2	Feb 03, 2023		Soil	M23-Fe0023571								X	X			X	
9	KW-B3_0.25-0.3	Feb 03, 2023		Soil	M23-Fe0023572									X			X	
10	KW-B3_0.0-0.4	Feb 03, 2023		Soil	M23-Fe0023573	X												
11	KW-B3_0.0-0.4A	Feb 03, 2023		Building Materials	M23-Fe0023574		X											
12	KW-B4_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023575				X	X				X				
13	KW-B4_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023576	X												
14	KW-B4_0.1-0.3	Feb 03, 2023		Soil	M23-Fe0023577									X			X	
15	KW-B4_0.1-	Feb 03, 2023		Soil	M23-Fe0023578	X												

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

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261 Site# 25403

Sydney
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Girraween
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Murarrie
QLD 4172
Tel: +61 7 3902 4600
NATA# 1261 Site# 20794

Newcastle
1/2 Frost Drive
Mayfield West NSW 2304
Tel: +61 2 4968 8448
NATA# 1261
Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

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

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

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

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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	0.3																	
16	KW-B4_0.1-0.3A	Feb 03, 2023		Building Materials	M23-Fe0023579		X											
17	KW-B5_0.1-0.2	Feb 03, 2023		Soil	M23-Fe0023580									X	X		X	
18	KW-B5_0.4-0.5	Feb 03, 2023		Soil	M23-Fe0023581				X	X				X				
19	KW-B5_0.1-0.4	Feb 03, 2023		Soil	M23-Fe0023582	X												
20	KW-B5_0.4-1.0	Feb 03, 2023		Soil	M23-Fe0023583	X												
21	KW-B6_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023584				X	X				X				
22	KW-B6_0.5-0.6	Feb 03, 2023		Soil	M23-Fe0023585									X			X	
23	KW-B7_0.2-	Feb 03, 2023		Soil	M23-Fe0023586									X			X	

eurofins

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

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261 Site# 25403

Sydney
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Girraween
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Tel: +61 7 3902 4600
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Newcastle
1/2 Frost Drive
Mayfield West NSW 2304
Tel: +61 2 4968 8448
NATA# 1261
Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

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

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

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Address: Level 1, 50 Margaret St
Sydney
NSW 2000

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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	0.3																	
24	KW-B7_0.5-0.6	Feb 03, 2023		Soil	M23-Fe0023587				X	X				X				
25	KW-B7_0.0-0.6	Feb 03, 2023		Soil	M23-Fe0023588	X												
26	KW-B7_0.0-0.6A	Feb 03, 2023		Building Materials	M23-Fe0023589		X											
27	KW-B8_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023590									X			X	
28	KW-B8_0.2-0.4	Feb 03, 2023		Soil	M23-Fe0023591								X	X			X	
29	KW-B8_0.0-0.4	Feb 03, 2023		Soil	M23-Fe0023592	X												
30	MH-B1_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023594					X				X				
31	MH-B1_0.0-	Feb 03, 2023		Soil	M23-Fe0023595	X												

eurofins

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

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261 Site# 25403

Sydney
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261 Site# 18217

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NATA# 1261 Site# 25466

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Murarrie
QLD 4172
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NATA# 1261 Site# 20794

Newcastle
1/2 Frost Drive
Mayfield West NSW 2304
Tel: +61 2 4968 8448
NATA# 1261
Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
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NATA# 2377 Site# 2370

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

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NSW 2000

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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	0.1																	
32	MH-B1_0.1-0.2	Feb 03, 2023		Soil	M23-Fe0023596								X	X			X	
33	MH-B1_0.1-0.2	Feb 03, 2023		Soil	M23-Fe0023597	X												
34	MH-B1_0.2-0.3	Feb 03, 2023		Soil	M23-Fe0023598					X				X				
35	MH-B1_0.2-0.3	Feb 03, 2023		Soil	M23-Fe0023599	X												
36	MH-B2_0.2-0.3	Feb 03, 2023		Soil	M23-Fe0023600					X				X				
37	MH-B2_0.4-0.5	Feb 03, 2023		Soil	M23-Fe0023601									X			X	
38	MH-B2_0.2-0.8	Feb 03, 2023		Soil	M23-Fe0023602	X												
39	MH-B3_0.0-	Feb 03, 2023		Soil	M23-Fe0023603									X			X	

eurofins

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

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ABN: 50 005 085 521

Melbourne
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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	0.1																	
40	MH-B3_0.2-0.3	Feb 03, 2023		Soil	M23-Fe0023604					X				X				
41	MH-B3_0.8-1.0	Feb 03, 2023		Soil	M23-Fe0023605									X			X	
42	MH-B3_0.0-0.6	Feb 03, 2023		Soil	M23-Fe0023606	X												
43	MH-B3_0.8-1.0	Feb 03, 2023		Soil	M23-Fe0023607	X												
44	MH-B4_0.2-0.3	Feb 03, 2023		Soil	M23-Fe0023608									X			X	
45	MH-B4_0.6-0.7	Feb 03, 2023		Soil	M23-Fe0023609					X				X				
46	MH-B4_0.0-0.6	Feb 03, 2023		Soil	M23-Fe0023610	X												
47	MH-B5_0.0-	Feb 02, 2023		Soil	M23-Fe0023611					X				X				

eurofins

web: www.eurofins.com.au
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Eurofins Environment Testing Australia Pty Ltd
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Melbourne
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Dandenong South
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Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Hardness Set	Volatile Organics	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B8 (filtered metals)	JBS&G Suite 2	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	0.1																	
48	MH-B5_0.1-0.2	Feb 02, 2023		Soil	M23-Fe0023612									X			X	
49	MH-B5_0.4-0.5	Feb 02, 2023		Soil	M23-Fe0023613									X			X	
50	MH-B5_0.8-0.9	Feb 02, 2023		Soil	M23-Fe0023614					X				X				
51	MH-B5_0.0-0.9	Feb 02, 2023		Soil	M23-Fe0023615	X												
52	MH-B6_0.0-0.1	Feb 02, 2023		Soil	M23-Fe0023616								X	X			X	
53	MH-B6_0.2-0.3	Feb 02, 2023		Soil	M23-Fe0023617				X	X				X	X			
54	MH-B6_0.4-0.5	Feb 02, 2023		Soil	M23-Fe0023618					X				X				
55	MH-B6_0.0-	Feb 02, 2023		Soil	M23-Fe0023619	X												

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

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261 Site# 25403

Sydney
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261 Site# 18217

Canberra
Unit 1,2 Dacre Street
Mitchell
ACT 2911
Tel: +61 2 6113 8091
NATA# 1261 Site# 25466

Brisbane
1/21 Smallwood Place
Murarrie
QLD 4172
Tel: +61 7 3902 4600
NATA# 1261 Site# 20794

Newcastle
1/2 Frost Drive
Mayfield West NSW 2304
Tel: +61 2 4968 8448
NATA# 1261
Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

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

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

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

Project Name: BHHR
Project ID: 63879

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Fax:

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Due: Feb 16, 2023
Priority: 5 Day
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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	0.6																	
56	MH-B7_0.0-0.1	Feb 02, 2023		Soil	M23-Fe0023620				X	X				X				
57	MH-B7_0.2-0.3	Feb 02, 2023		Soil	M23-Fe0023621									X			X	
58	MH-B7_0.9-1.0	Feb 02, 2023		Soil	M23-Fe0023622									X			X	
59	MH-B7_0.0-1.0	Feb 02, 2023		Soil	M23-Fe0023623	X												
60	MH-B8_0.1-0.2	Feb 02, 2023		Soil	M23-Fe0023624				X	X				X				
61	MH-B8_0.4-0.5	Feb 02, 2023		Soil	M23-Fe0023625									X			X	
62	MH-B8_0.5-0.6	Feb 02, 2023		Soil	M23-Fe0023626					X				X				
63	MH-B8_0.1-	Feb 02, 2023		Soil	M23-Fe0023627	X												

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

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
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Sydney
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Girraween
NSW 2145
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QLD 4172
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Newcastle
1/2 Frost Drive
Mayfield West NSW 2304
Tel: +61 2 4968 8448
NATA# 1261
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Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

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

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	0.3																	
64	MH-B8_0.3-0.5	Feb 02, 2023		Soil	M23-Fe0023628	X												
65	MH-B9_0.0-0.1	Feb 02, 2023		Soil	M23-Fe0023629				X	X				X				
66	MH-B9_0.2-0.3	Feb 02, 2023		Soil	M23-Fe0023630									X			X	
67	MH-B9_0.9-1.0	Feb 02, 2023		Soil	M23-Fe0023631									X			X	
68	MH-B9_0.0-0.5	Feb 02, 2023		Soil	M23-Fe0023632	X												
69	MH-B10_0.0-0.2	Feb 02, 2023		Soil	M23-Fe0023633									X			X	
70	MH-B10_0.0-0.2	Feb 02, 2023		Soil	M23-Fe0023634	X												
71	MH-B10_0.0-	Feb 02, 2023		Building	M23-Fe0023635		X											

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web: www.eurofins.com.au
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Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261 Site# 25403

Sydney
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
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Canberra
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Brisbane
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Murarrie
QLD 4172
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Newcastle
1/2 Frost Drive
Mayfield West NSW 2304
Tel: +61 2 4968 8448
NATA# 1261
Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

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

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
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Tel: 0800 856 450
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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	0.2A			Materials														
72	MH-B10_0.2-0.4	Feb 02, 2023		Soil	M23-Fe0023636									X			X	
73	MH-B10_0.5-0.6	Feb 02, 2023		Soil	M23-Fe0023637					X				X				
74	MH-B10_0.2-1.0	Feb 02, 2023		Soil	M23-Fe0023638	X												
75	MH-B10_0.2-1.0A	Feb 02, 2023		Building Materials	M23-Fe0023639		X											
76	ED-B1_0.0-0.1	Feb 02, 2023		Soil	M23-Fe0023640									X	X		X	
77	ED-B1_0.4-0.5	Feb 02, 2023		Soil	M23-Fe0023641				X	X				X				
78	ED-B1_0.9-1.0	Feb 02, 2023		Soil	M23-Fe0023642					X				X				
79	ED-B1_0.0-1.0	Feb 02, 2023		Soil	M23-Fe0023643	X												
80	ED-B2_0.0-0.1	Feb 04, 2023		Soil	M23-Fe0023644				X	X				X				
81	ED-B2_0.2-0.3	Feb 04, 2023		Soil	M23-Fe0023645									X			X	

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

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261 Site# 25403

Sydney
179 Magowar Road
Girraween
NSW 2145
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Brisbane
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QLD 4172
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Newcastle
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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
82	ED-B2_0.0-0.3	Feb 04, 2023		Soil	M23-Fe0023646	X												
83	ED-B3_0.0-0.1	Feb 04, 2023		Soil	M23-Fe0023647									X			X	
84	ED-B3_0.2-0.3	Feb 04, 2023		Soil	M23-Fe0023648					X				X				
85	ED-B3_0.0-0.7	Feb 04, 2023		Soil	M23-Fe0023649	X												
86	ED-B4_0.1-0.2	Feb 04, 2023		Soil	M23-Fe0023650					X				X				
87	ED-B4_0.4-0.5	Feb 04, 2023		Soil	M23-Fe0023651									X			X	
88	ED-B4_0.1-0.5	Feb 04, 2023		Soil	M23-Fe0023652	X												
89	ED-B5_0.0-0.1	Feb 02, 2023		Soil	M23-Fe0023653									X			X	
90	ED-B5_0.2-0.3	Feb 02, 2023		Soil	M23-Fe0023654					X				X				
91	ED-B5_0.0-0.3	Feb 02, 2023		Soil	M23-Fe0023655	X												
92	ED-B6_0.1-0.2	Feb 02, 2023		Soil	M23-Fe0023656					X				X				
93	ED-B6_0.2-0.3	Feb 02, 2023		Soil	M23-Fe0023657									X			X	
94	ED-B6_0.1-0.3	Feb 02, 2023		Soil	M23-Fe0023658	X												
95	ED-B7_0.0-0.2	Feb 04, 2023		Soil	M23-Fe0023659									X			X	

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

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South
VIC 3175
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Grovedale
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Sydney
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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
96	ED-B7_0.0-0.2	Feb 04, 2023		Soil	M23-Fe0023660	X												
97	ED-B7_0.2-0.3	Feb 04, 2023		Soil	M23-Fe0023661				X	X				X				
98	ED-B8_0.0-0.2	Feb 04, 2023		Soil	M23-Fe0023662				X	X				X				
99	ED-B8_0.3-0.4	Feb 04, 2023		Soil	M23-Fe0023663									X			X	
100	ED-B8_0.8-1.0	Feb 04, 2023		Soil	M23-Fe0023665									X			X	
101	ED-B8_0.0-0.6	Feb 04, 2023		Soil	M23-Fe0023666	X												
102	ED-B9_0.0-0.1	Feb 04, 2023		Soil	M23-Fe0023667				X	X				X				
103	ED-B9_0.0-0.1	Feb 04, 2023		Soil	M23-Fe0023668	X												
104	ED-B9_0.1-0.2	Feb 04, 2023		Soil	M23-Fe0023669									X			X	
105	ED-B9_0.1-0.5	Feb 04, 2023		Soil	M23-Fe0023670	X												
106	GW01	Feb 05, 2023		Water	M23-Fe0023671							X				X		X
107	GW02	Feb 05, 2023		Water	M23-Fe0023672							X				X		X
108	GW03	Feb 05, 2023		Water	M23-Fe0023673							X				X		X
109	DUP01	Feb 02, 2023		Soil	M23-Fe0023674									X			X	

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web: www.eurofins.com.au
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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
110	DUP02	Feb 02, 2023		Soil	M23-Fe0023675				X	X				X				
111	DUP03	Feb 03, 2023		Soil	M23-Fe0023676									X			X	
112	DUP04	Feb 03, 2023		Soil	M23-Fe0023677									X			X	
113	DUP06	Feb 03, 2023		Soil	M23-Fe0023678								X	X			X	
114	DUP01	Feb 05, 2023		Water	M23-Fe0023679											X		X
115	Sspk3973	Not Provided		Soil	M23-Fe0023680						X							
116	Wsp8872	Not Provided		Water	M23-Fe0023681						X							
117	WTB01	Feb 05, 2023		Water	M23-Fe0023682						X							
118	STB01	Feb 05, 2023		Water	M23-Fe0023683						X							
119	KW-B1_0.4-0.5	Feb 03, 2023		Soil	M23-Fe0023684			X										
120	KW-B2_0.1-0.3	Feb 03, 2023		Soil	M23-Fe0023685	X												
121	KW-B3_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023686			X										

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

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

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

Project Name: BHHR
Project ID: 63879

Order No.:
Report #: 962621
Phone: 02 8245 0300
Fax:

Received: Feb 9, 2023 10:22 AM
Due: Feb 16, 2023
Priority: 5 Day
Contact Name: Mitch Hodgins

Eurofins Analytical Services Manager : Andrew Black

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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
122	KW-B3_0.3-0.4	Feb 03, 2023		Soil	M23-Fe0023687			X										
123	KW-B3_0.4-0.5	Feb 03, 2023		Soil	M23-Fe0023688			X										
124	KW-B4_0.3-0.4	Feb 03, 2023		Soil	M23-Fe0023689			X										
125	KW-B5_0.9-1.0	Feb 03, 2023		Soil	M23-Fe0023691			X										
126	KW-B6_0.2-0.3	Feb 03, 2023		Soil	M23-Fe0023692			X										
127	KW-B6_0.0-0.6	Feb 03, 2023		Soil	M23-Fe0023693			X										
128	KW-B7_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023694			X										
129	MH-B2_0.8-0.9	Feb 03, 2023		Soil	M23-Fe0023695			X										

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

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
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Girraween
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Tel: +61 2 4968 8448
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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
130	MH-B2_1.4-1.5	Feb 03, 2023		Soil	M23-Fe0023696			X										
131	MH-B3_0.5-0.6	Feb 03, 2023		Soil	M23-Fe0023697			X										
132	MH-B6_0.6-0.7	Feb 02, 2023		Soil	M23-Fe0023698			X										
133	MH-B7_0.4-0.5	Feb 02, 2023		Soil	M23-Fe0023699			X										
134	MH-B7_1.1-1.2	Feb 02, 2023		Soil	M23-Fe0023700			X										
135	MH-B8_0.9-1.0	Feb 02, 2023		Soil	M23-Fe0023701			X										
136	MH-B9_0.5-0.6	Feb 02, 2023		Soil	M23-Fe0023702			X										
137	MH-B10_1.0-1.1	Feb 02, 2023		Soil	M23-Fe0023703			X										

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web: www.eurofins.com.au
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Melbourne
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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
138	MH-B10_1.4-1.5	Feb 02, 2023		Soil	M23-Fe0023704			X										
139	ED-B1_0.2-0.3	Feb 02, 2023		Soil	M23-Fe0023705			X										
140	ED-B1_1.4-1.5	Feb 02, 2023		Soil	M23-Fe0023706			X										
141	ED-B1_1.9-2.0	Feb 02, 2023		Soil	M23-Fe0023707			X										
142	ED-B2_0.5-0.6	Feb 04, 2023		Soil	M23-Fe0023708			X										
143	ED-B3_0.5-0.6	Feb 04, 2023		Soil	M23-Fe0023709			X										
144	ED-B3_0.7-0.8	Feb 04, 2023		Soil	M23-Fe0023710			X										
145	ED-B4_0.5-0.6	Feb 04, 2023		Soil	M23-Fe0023711			X										
146	ED-B5_0.3-0.4	Feb 02, 2023		Soil	M23-Fe0023712			X										
147	ED-B5_0.9-1.0	Feb 02, 2023		Soil	M23-Fe0023713			X										
148	ED-B6_0.3-0.4	Feb 02, 2023		Soil	M23-Fe0023714			X										
149	ED-B6_0.9-1.0	Feb 02, 2023		Soil	M23-Fe0023715			X										
150	ED-B7_0.3-0.4	Feb 04, 2023		Soil	M23-Fe0023716			X										

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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
151	ED-B7_0.5-0.65	Feb 04, 2023		Soil	M23-Fe0023717			X										
152	ED-B9_0.5-0.6	Feb 04, 2023		Soil	M23-Fe0023718			X										
153	DUP05	Feb 03, 2023		Soil	M23-Fe0023719			X										
154	DUP07	Feb 04, 2023		Soil	M23-Fe0023720			X										
155	DUP08	Feb 04, 2023		Soil	M23-Fe0023721			X										
156	WRB01	Not Provided		Water	M23-Fe0023722												X	
157	SRB01	Not Provided		Water	M23-Fe0023723												X	
158	SRB02	Not Provided		Water	M23-Fe0023724			X										
159	SRB03	Not Provided		Water	M23-Fe0023725			X										
160	ED_B6_0.3-1.0	Not Provided		Soil	M23-Fe0023726			X										
161	KW_B8_0.4-0.5	Not Provided		Building Materials	M23-Fe0023727			X										
162	UNLABELLED	Not Provided		Building	M23-Fe0023728			X										

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web: www.eurofins.com.au
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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	ASB BAG			Materials														
163	MH_B4_0.4-0.5	Not Provided		Soil	M23-Fe0023729			X										
164	KW_B2_0.5-0.7	Not Provided		Soil	M23-Fe0024121			X										
165	ED-B8_0.5-0.6	Feb 02, 2023		Soil	M23-Fe0024143					X				X				
Test Counts						35	5	44	15	31	4	3	5	71	4	4	42	4

Internal Quality Control Review and Glossary

General

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

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

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

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

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

mg/kg: milligrams per kilogram	**mg/L:** milligrams per litre	**µg/L:** micrograms per litre
ppm: parts per million	**ppb:** parts per billion	**%:** Percentage
org/100 mL: Organisms per 100 millilitres	**NTU:** Nephelometric Turbidity Units	**MPN/100 mL:** Most Probable Number of organisms per 100 millilitres
CFU: Colony forming unit		

Terms

APHA	American Public Health Association
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 5.4
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/L	< 0.02			0.02	Pass	
TRH C10-C14	mg/L	< 0.05			0.05	Pass	
TRH C15-C28	mg/L	< 0.1			0.1	Pass	
TRH C29-C36	mg/L	< 0.1			0.1	Pass	
TRH C6-C10	mg/L	< 0.02			0.02	Pass	
TRH >C10-C16	mg/L	< 0.05			0.05	Pass	
TRH >C16-C34	mg/L	< 0.1			0.1	Pass	
TRH >C34-C40	mg/L	< 0.1			0.1	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/L	< 0.001			0.001	Pass	
1.1-Dichloroethene	mg/L	< 0.001			0.001	Pass	
1.1.1-Trichloroethane	mg/L	< 0.001			0.001	Pass	
1.1.1.2-Tetrachloroethane	mg/L	< 0.001			0.001	Pass	
1.1.2-Trichloroethane	mg/L	< 0.001			0.001	Pass	
1.1.2.2-Tetrachloroethane	mg/L	< 0.001			0.001	Pass	
1.2-Dibromoethane	mg/L	< 0.001			0.001	Pass	
1.2-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
1.2-Dichloroethane	mg/L	< 0.001			0.001	Pass	
1.2-Dichloropropane	mg/L	< 0.001			0.001	Pass	
1.2.3-Trichloropropane	mg/L	< 0.001			0.001	Pass	
1.2.4-Trimethylbenzene	mg/L	< 0.001			0.001	Pass	
1.3-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
1.3-Dichloropropane	mg/L	< 0.001			0.001	Pass	
1.3.5-Trimethylbenzene	mg/L	< 0.001			0.001	Pass	
1.4-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
2-Butanone (MEK)	mg/L	< 0.005			0.005	Pass	
2-Propanone (Acetone)	mg/L	< 0.005			0.005	Pass	
4-Chlorotoluene	mg/L	< 0.001			0.001	Pass	
4-Methyl-2-pentanone (MIBK)	mg/L	< 0.005			0.005	Pass	
Allyl chloride	mg/L	< 0.001			0.001	Pass	
Benzene	mg/L	< 0.001			0.001	Pass	
Bromobenzene	mg/L	< 0.001			0.001	Pass	
Bromochloromethane	mg/L	< 0.001			0.001	Pass	
Bromodichloromethane	mg/L	< 0.001			0.001	Pass	
Bromoform	mg/L	< 0.001			0.001	Pass	
Bromomethane	mg/L	< 0.005			0.005	Pass	
Carbon disulfide	mg/L	< 0.001			0.001	Pass	
Carbon Tetrachloride	mg/L	< 0.001			0.001	Pass	
Chlorobenzene	mg/L	< 0.001			0.001	Pass	
Chloroethane	mg/L	< 0.005			0.005	Pass	
Chloroform	mg/L	< 0.005			0.005	Pass	
Chloromethane	mg/L	< 0.005			0.005	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	< 0.005			0.005	Pass	
Ethylbenzene	mg/L	< 0.001			0.001	Pass	
Iodomethane	mg/L	< 0.001			0.001	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Isopropyl benzene (Cumene)	mg/L	< 0.001			0.001	Pass	
m&p-Xylenes	mg/L	< 0.002			0.002	Pass	
Methylene Chloride	mg/L	< 0.005			0.005	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	< 0.005			0.005	Pass	
Vinyl chloride	mg/L	< 0.005			0.005	Pass	
Xylenes - Total*	mg/L	< 0.003			0.003	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/L	< 0.01			0.01	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/L	< 0.001			0.001	Pass	
Acenaphthylene	mg/L	< 0.001			0.001	Pass	
Anthracene	mg/L	< 0.001			0.001	Pass	
Benz(a)anthracene	mg/L	< 0.001			0.001	Pass	
Benzo(a)pyrene	mg/L	< 0.001			0.001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.001			0.001	Pass	
Benzo(g.h.i)perylene	mg/L	< 0.001			0.001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.001			0.001	Pass	
Chrysene	mg/L	< 0.001			0.001	Pass	
Dibenz(a.h)anthracene	mg/L	< 0.001			0.001	Pass	
Fluoranthene	mg/L	< 0.001			0.001	Pass	
Fluorene	mg/L	< 0.001			0.001	Pass	
Indeno(1.2.3-cd)pyrene	mg/L	< 0.001			0.001	Pass	
Naphthalene	mg/L	< 0.001			0.001	Pass	
Phenanthrene	mg/L	< 0.001			0.001	Pass	
Pyrene	mg/L	< 0.001			0.001	Pass	
Method Blank							
Alkali Metals							
Calcium	mg/L	< 0.5			0.5	Pass	
Magnesium	mg/L	< 0.5			0.5	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.001			0.001	Pass	
Arsenic (filtered)	mg/L	< 0.001			0.001	Pass	
Cadmium	mg/L	< 0.0002			0.0002	Pass	
Cadmium (filtered)	mg/L	< 0.0002			0.0002	Pass	
Chromium	mg/L	< 0.001			0.001	Pass	
Chromium (filtered)	mg/L	< 0.001			0.001	Pass	
Copper	mg/L	< 0.001			0.001	Pass	
Copper (filtered)	mg/L	< 0.001			0.001	Pass	
Lead	mg/L	< 0.001			0.001	Pass	
Lead (filtered)	mg/L	< 0.001			0.001	Pass	
Mercury (filtered)	mg/L	< 0.0001			0.0001	Pass	
Nickel	mg/L	< 0.001			0.001	Pass	
Nickel (filtered)	mg/L	< 0.001			0.001	Pass	
Zinc	mg/L	< 0.005			0.005	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Zinc (filtered)	mg/L	< 0.005			0.005	Pass	
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/L	< 0.05			0.05	Pass	
Perfluoropentanoic acid (PFPeA)	ug/L	< 0.01			0.01	Pass	
Perfluorohexanoic acid (PFHxA)	ug/L	< 0.01			0.01	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/L	< 0.01			0.01	Pass	
Perfluorooctanoic acid (PFOA)	ug/L	< 0.01			0.01	Pass	
Perfluorononanoic acid (PFNA)	ug/L	< 0.01			0.01	Pass	
Perfluorodecanoic acid (PFDA)	ug/L	< 0.01			0.01	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/L	< 0.01			0.01	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/L	< 0.01			0.01	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/L	< 0.01			0.01	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/L	< 0.01			0.01	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/L	< 0.05			0.05	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/L	< 0.05			0.05	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/L	< 0.05			0.05	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	ug/L	< 0.05			0.05	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	ug/L	< 0.05			0.05	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/L	< 0.05			0.05	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/L	< 0.05			0.05	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	ug/L	< 0.01			0.01	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/L	< 0.01			0.01	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/L	< 0.01			0.01	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/L	< 0.01			0.01	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/L	< 0.01			0.01	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/L	< 0.01			0.01	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/L	< 0.01			0.01	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/L	< 0.01			0.01	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/L	< 0.01			0.01	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	ug/L	< 0.05			0.05	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/L	< 0.01			0.01	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/L	< 0.01			0.01	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/L	< 0.002			0.002	Pass	
4.4'-DDD	mg/L	< 0.0002			0.0002	Pass	
4.4'-DDE	mg/L	< 0.0002			0.0002	Pass	
4.4'-DDT	mg/L	< 0.0002			0.0002	Pass	
a-HCH	mg/L	< 0.0002			0.0002	Pass	
Aldrin	mg/L	< 0.0002			0.0002	Pass	
b-HCH	mg/L	< 0.0002			0.0002	Pass	
d-HCH	mg/L	< 0.0002			0.0002	Pass	
Dieldrin	mg/L	< 0.0002			0.0002	Pass	
Endosulfan I	mg/L	< 0.0002			0.0002	Pass	
Endosulfan II	mg/L	< 0.0002			0.0002	Pass	
Endosulfan sulphate	mg/L	< 0.0002			0.0002	Pass	
Endrin	mg/L	< 0.0002			0.0002	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endrin aldehyde	mg/L	< 0.0002			0.0002	Pass	
Endrin ketone	mg/L	< 0.0002			0.0002	Pass	
g-HCH (Lindane)	mg/L	< 0.0002			0.0002	Pass	
Heptachlor	mg/L	< 0.0002			0.0002	Pass	
Heptachlor epoxide	mg/L	< 0.0002			0.0002	Pass	
Hexachlorobenzene	mg/L	< 0.0002			0.0002	Pass	
Methoxychlor	mg/L	< 0.0002			0.0002	Pass	
Toxaphene	mg/L	< 0.005			0.005	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/L	< 0.005			0.005	Pass	
Aroclor-1221	mg/L	< 0.005			0.005	Pass	
Aroclor-1232	mg/L	< 0.005			0.005	Pass	
Aroclor-1242	mg/L	< 0.005			0.005	Pass	
Aroclor-1248	mg/L	< 0.005			0.005	Pass	
Aroclor-1254	mg/L	< 0.005			0.005	Pass	
Aroclor-1260	mg/L	< 0.005			0.005	Pass	
Total PCB*	mg/L	< 0.005			0.005	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	119			70-130	Pass	
TRH C10-C14	%	93			70-130	Pass	
TRH C6-C10	%	92			70-130	Pass	
TRH >C10-C16	%	93			70-130	Pass	
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethene	%	121			70-130	Pass	
1.1.1-Trichloroethane	%	122			70-130	Pass	
1.2-Dichlorobenzene	%	113			70-130	Pass	
1.2-Dichloroethane	%	123			70-130	Pass	
Benzene	%	87			70-130	Pass	
Ethylbenzene	%	81			70-130	Pass	
m&p-Xylenes	%	86			70-130	Pass	
Toluene	%	85			70-130	Pass	
Trichloroethene	%	104			70-130	Pass	
Xylenes - Total*	%	86			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	95			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	83			70-130	Pass	
Acenaphthylene	%	78			70-130	Pass	
Anthracene	%	86			70-130	Pass	
Benz(a)anthracene	%	90			70-130	Pass	
Benzo(a)pyrene	%	83			70-130	Pass	
Benzo(b&j)fluoranthene	%	74			70-130	Pass	
Benzo(g.h.i)perylene	%	84			70-130	Pass	
Benzo(k)fluoranthene	%	100			70-130	Pass	
Chrysene	%	83			70-130	Pass	
Dibenz(a.h)anthracene	%	92			70-130	Pass	
Fluoranthene	%	83			70-130	Pass	
Fluorene	%	93			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	88			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Naphthalene	%	96			70-130	Pass	
Phenanthrene	%	85			70-130	Pass	
Pyrene	%	82			70-130	Pass	
LCS - % Recovery							
Alkali Metals							
Calcium	%	98			80-120	Pass	
Magnesium	%	91			80-120	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	91			80-120	Pass	
Arsenic (filtered)	%	92			80-120	Pass	
Cadmium	%	97			80-120	Pass	
Cadmium (filtered)	%	94			80-120	Pass	
Chromium	%	93			80-120	Pass	
Chromium (filtered)	%	93			80-120	Pass	
Copper	%	84			80-120	Pass	
Copper (filtered)	%	91			80-120	Pass	
Lead (filtered)	%	82			80-120	Pass	
Mercury (filtered)	%	93			80-120	Pass	
Nickel	%	85			80-120	Pass	
Nickel (filtered)	%	92			80-120	Pass	
Zinc	%	90			80-120	Pass	
Zinc (filtered)	%	94			80-120	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	104			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	96			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	77			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	72			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	80			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	75			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	80			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	89			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	75			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	85			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	84			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	84			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	80			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	79			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	%	74			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	%	84			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	94			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	75			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	76			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	92			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	89			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	73			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	77			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	85			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	89			50-150	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorodecanesulfonic acid (PFDS)	%	83			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	76			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	%	83			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	81			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	100			50-150	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	95			70-130	Pass	
Toluene	%	91			70-130	Pass	
Ethylbenzene	%	89			70-130	Pass	
m&p-Xylenes	%	86			70-130	Pass	
Xylenes - Total*	%	87			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	74			70-130	Pass	
4.4'-DDD	%	73			70-130	Pass	
4.4'-DDE	%	84			70-130	Pass	
4.4'-DDT	%	87			70-130	Pass	
a-HCH	%	72			70-130	Pass	
Aldrin	%	70			70-130	Pass	
b-HCH	%	81			70-130	Pass	
d-HCH	%	83			70-130	Pass	
Dieldrin	%	78			70-130	Pass	
Endosulfan I	%	80			70-130	Pass	
Endosulfan II	%	70			70-130	Pass	
Endosulfan sulphate	%	80			70-130	Pass	
Endrin	%	78			70-130	Pass	
Endrin aldehyde	%	79			70-130	Pass	
Endrin ketone	%	89			70-130	Pass	
g-HCH (Lindane)	%	70			70-130	Pass	
Heptachlor	%	81			70-130	Pass	
Heptachlor epoxide	%	74			70-130	Pass	
Hexachlorobenzene	%	73			70-130	Pass	
Methoxychlor	%	77			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	M23-Fe0023671	CP	%	120			70-130	Pass	
TRH C10-C14	M23-Fe0023923	NCP	%	118			70-130	Pass	
TRH C6-C10	M23-Fe0023671	CP	%	121			70-130	Pass	
TRH >C10-C16	M23-Fe0023923	NCP	%	117			70-130	Pass	
Spike - % Recovery									
Volatile Organics				Result 1					
1.1-Dichloroethene	M23-Fe0023671	CP	%	124			70-130	Pass	
1.1.1-Trichloroethane	M23-Fe0023671	CP	%	124			70-130	Pass	
1.2-Dichlorobenzene	M23-Fe0023671	CP	%	109			70-130	Pass	
1.2-Dichloroethane	M23-Fe0023671	CP	%	120			70-130	Pass	
Benzene	M23-Fe0023671	CP	%	96			70-130	Pass	
Ethylbenzene	M23-Fe0023671	CP	%	92			70-130	Pass	
m&p-Xylenes	M23-Fe0023671	CP	%	88			70-130	Pass	
o-Xylene	M23-Fe0023671	CP	%	89			70-130	Pass	
Toluene	M23-Fe0023671	CP	%	92			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Trichloroethene	M23-Fe0023671	CP	%	105			70-130	Pass	
Xylenes - Total*	M23-Fe0023671	CP	%	88			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	M23-Fe0023671	CP	%	91			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	M23-Fe0020471	NCP	%	87			70-130	Pass	
Acenaphthylene	M23-Fe0020471	NCP	%	79			70-130	Pass	
Anthracene	M23-Fe0020471	NCP	%	71			70-130	Pass	
Benz(a)anthracene	M23-Fe0020471	NCP	%	89			70-130	Pass	
Benzo(a)pyrene	M23-Fe0020471	NCP	%	87			70-130	Pass	
Benzo(b&j)fluoranthene	M23-Fe0020471	NCP	%	101			70-130	Pass	
Benzo(g.h.i)perylene	M23-Fe0020471	NCP	%	77			70-130	Pass	
Benzo(k)fluoranthene	M23-Fe0020471	NCP	%	84			70-130	Pass	
Chrysene	M23-Fe0020471	NCP	%	95			70-130	Pass	
Dibenz(a.h)anthracene	M23-Fe0020471	NCP	%	86			70-130	Pass	
Fluoranthene	M23-Fe0020471	NCP	%	71			70-130	Pass	
Fluorene	M23-Fe0020471	NCP	%	77			70-130	Pass	
Indeno(1.2.3-cd)pyrene	M23-Fe0020471	NCP	%	84			70-130	Pass	
Naphthalene	M23-Fe0020471	NCP	%	96			70-130	Pass	
Phenanthrene	M23-Fe0020471	NCP	%	74			70-130	Pass	
Pyrene	M23-Fe0020471	NCP	%	72			70-130	Pass	
Spike - % Recovery									
Alkali Metals				Result 1					
Calcium	M23-Fe0023671	CP	%	99			75-125	Pass	
Magnesium	M23-Fe0023671	CP	%	93			75-125	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic (filtered)	M23-Fe0023937	NCP	%	115			75-125	Pass	
Cadmium (filtered)	M23-Fe0023937	NCP	%	104			75-125	Pass	
Chromium (filtered)	M23-Fe0023937	NCP	%	110			75-125	Pass	
Copper (filtered)	M23-Fe0023937	NCP	%	106			75-125	Pass	
Lead (filtered)	M23-Fe0023937	NCP	%	97			75-125	Pass	
Mercury (filtered)	M23-Fe0023937	NCP	%	86			75-125	Pass	
Nickel (filtered)	M23-Fe0023937	NCP	%	108			75-125	Pass	
Zinc (filtered)	M23-Fe0023671	CP	%	98			75-125	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	M23-Fe0024017	NCP	%	101			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	M23-Fe0024017	NCP	%	71			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	M23-Fe0024017	NCP	%	88			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	M23-Fe0024017	NCP	%	74			50-150	Pass	
Perfluorooctanoic acid (PFOA)	M23-Fe0024017	NCP	%	77			50-150	Pass	
Perfluorononanoic acid (PFNA)	M23-Fe0024017	NCP	%	81			50-150	Pass	
Perfluorodecanoic acid (PFDA)	M23-Fe0024017	NCP	%	79			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	M23-Fe0024017	NCP	%	90			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	M23-Fe0024017	NCP	%	65			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	M23-Fe0024017	NCP	%	75			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M23-Fe0024017	NCP	%	79			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorooctane sulfonamide (FOSA)	M23-Fe0024017	NCP	%	90			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M23-Fe0024017	NCP	%	75			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M23-Fe0024017	NCP	%	76			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M23-Fe0024017	NCP	%	76			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M23-Fe0024017	NCP	%	66			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M23-Fe0024017	NCP	%	85			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M23-Fe0024017	NCP	%	101			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	M23-Fe0024017	NCP	%	75			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	M23-Fe0024017	NCP	%	67			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M23-Fe0024017	NCP	%	78			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M23-Fe0024017	NCP	%	82			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M23-Fe0024017	NCP	%	79			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M23-Fe0024017	NCP	%	96			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	M23-Fe0024017	NCP	%	57			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	M23-Fe0024017	NCP	%	54			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M23-Fe0024017	NCP	%	74			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M23-Fe0024017	NCP	%	72			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M23-Fe0024017	NCP	%	82			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M23-Fe0024017	NCP	%	88			50-150	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C10	M23-Fe0033548	NCP	%	88			70-130	Pass	
Spike - % Recovery									
Volatile Organics				Result 1					
Benzene	M23-Fe0033548	NCP	%	83			70-130	Pass	
Ethylbenzene	M23-Fe0033548	NCP	%	76			70-130	Pass	
m&p-Xylenes	M23-Fe0033548	NCP	%	79			70-130	Pass	
o-Xylene	M23-Fe0033548	NCP	%	80			70-130	Pass	
Toluene	M23-Fe0033548	NCP	%	81			70-130	Pass	
Xylenes - Total*	M23-Fe0033548	NCP	%	80			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	M23-Fe0033548	NCP	%	91			70-130	Pass	
Spike - % Recovery									

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Heavy Metals				Result 1					
Arsenic	M23-Fe0029730	NCP	%	104			75-125	Pass	
Cadmium	M23-Fe0029730	NCP	%	111			75-125	Pass	
Chromium	M23-Fe0029730	NCP	%	108			75-125	Pass	
Copper	M23-Fe0029730	NCP	%	101			75-125	Pass	
Lead	M23-Fe0029730	NCP	%	91			75-125	Pass	
Mercury	M23-Fe0029730	NCP	%	87			75-125	Pass	
Nickel	M23-Fe0029730	NCP	%	102			75-125	Pass	
Zinc	M23-Fe0029730	NCP	%	111			75-125	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	B23-Fe0030370	NCP	%	110			70-130	Pass	
4.4'-DDD	B23-Fe0030370	NCP	%	99			70-130	Pass	
4.4'-DDE	B23-Fe0030370	NCP	%	100			70-130	Pass	
4.4'-DDT	B23-Fe0030370	NCP	%	119			70-130	Pass	
a-HCH	B23-Fe0030370	NCP	%	108			70-130	Pass	
Aldrin	B23-Fe0030370	NCP	%	112			70-130	Pass	
b-HCH	B23-Fe0030370	NCP	%	113			70-130	Pass	
d-HCH	B23-Fe0030370	NCP	%	127			70-130	Pass	
Dieldrin	B23-Fe0030370	NCP	%	120			70-130	Pass	
Endosulfan I	B23-Fe0030370	NCP	%	117			70-130	Pass	
Endosulfan II	B23-Fe0030370	NCP	%	119			70-130	Pass	
Endosulfan sulphate	B23-Fe0030370	NCP	%	74			70-130	Pass	
Endrin	B23-Fe0030370	NCP	%	90			70-130	Pass	
Endrin aldehyde	B23-Fe0030370	NCP	%	73			70-130	Pass	
Endrin ketone	B23-Fe0030370	NCP	%	116			70-130	Pass	
g-HCH (Lindane)	B23-Fe0030370	NCP	%	115			70-130	Pass	
Heptachlor	B23-Fe0030370	NCP	%	96			70-130	Pass	
Heptachlor epoxide	B23-Fe0030370	NCP	%	116			70-130	Pass	
Hexachlorobenzene	B23-Fe0030370	NCP	%	109			70-130	Pass	
Methoxychlor	B23-Fe0030370	NCP	%	80			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1016	B23-Fe0030370	NCP	%	106			70-130	Pass	
Aroclor-1260	B23-Fe0030370	NCP	%	112			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C10-C14	M23-Fe0022900	NCP	mg/L	0.06	0.06	4.0	30%	Pass	
TRH C15-C28	M23-Fe0022900	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH C29-C36	M23-Fe0022900	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH >C10-C16	M23-Fe0022900	NCP	mg/L	0.05	0.06	18	30%	Pass	
TRH >C16-C34	M23-Fe0022900	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH >C34-C40	M23-Fe0022900	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	M23-Fe0022900	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Acenaphthylene	M23-Fe0022900	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Anthracene	M23-Fe0022900	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benz(a)anthracene	M23-Fe0022900	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(a)pyrene	M23-Fe0022900	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(b&j)fluoranthene	M23-Fe0022900	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(g.h.i)perylene	M23-Fe0022900	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(k)fluoranthene	M23-Fe0022900	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	

Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Chrysene	M23-Fe0022900	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibenz(a.h)anthracene	M23-Fe0022900	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluoranthene	M23-Fe0022900	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluorene	M23-Fe0022900	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	M23-Fe0022900	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Naphthalene	M23-Fe0022900	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Phenanthrene	M23-Fe0022900	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Pyrene	M23-Fe0022900	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Duplicate									
Alkali Metals				Result 1	Result 2	RPD			
Calcium	M23-Fe0023671	CP	mg/L	110	110	1.4	30%	Pass	
Magnesium	M23-Fe0023671	CP	mg/L	110	110	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic (filtered)	M23-Fe0023937	NCP	mg/L	0.003	0.003	3.4	30%	Pass	
Cadmium (filtered)	M23-Fe0023937	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Chromium (filtered)	M23-Fe0023937	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Copper (filtered)	M23-Fe0023937	NCP	mg/L	0.006	0.005	11	30%	Pass	
Lead (filtered)	M23-Fe0023937	NCP	mg/L	0.002	0.002	6.6	30%	Pass	
Mercury (filtered)	M23-Fe0023937	NCP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel (filtered)	M23-Fe0023937	NCP	mg/L	0.003	0.002	11	30%	Pass	
Zinc (filtered)	M23-Fe0023937	NCP	mg/L	0.33	0.32	4.0	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	M23-Fe0026271	NCP	ug/L	1.2	1.1	6.2	30%	Pass	
Perfluoropentanoic acid (PFPeA)	M23-Fe0025652	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	M23-Fe0025652	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	M23-Fe0026271	NCP	ug/L	1.2	1.1	5.5	30%	Pass	
Perfluorooctanoic acid (PFOA)	M23-Fe0025652	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	M23-Fe0026271	NCP	ug/L	0.13	0.13	1.2	30%	Pass	
Perfluorodecanoic acid (PFDA)	M23-Fe0025652	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	M23-Fe0026271	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	M23-Fe0026271	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	M23-Fe0026271	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M23-Fe0026271	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	M23-Fe0026271	NCP	ug/L	0.08	0.09	7.5	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M23-Fe0026271	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M23-Fe0026271	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M23-Fe0026271	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M23-Fe0026271	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M23-Fe0026271	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M23-Fe0026271	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	

Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	M23-Fe0016688	NCP	ug/L	2.2	2.2	2.5	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	M23-Fe0025652	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M23-Fe0025652	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M23-Fe0025652	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M23-Fe0025652	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M23-Fe0025652	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	M23-Fe0025652	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	M23-Fe0025652	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M23-Fe0026271	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M23-Fe0026271	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M23-Fe0026271	NCP	ug/L	0.01	0.02	4.6	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M23-Fe0026271	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	M23-Fe0023672	CP	mg/L	0.09	0.08	7.7	30%	Pass	
TRH C6-C10	M23-Fe0023672	CP	mg/L	0.10	0.09	7.7	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1-Dichloroethene	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.1-Trichloroethane	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.2-Trichloroethane	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dibromoethane	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dichlorobenzene	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dichloroethane	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dichloropropane	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2.3-Trichloropropane	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2.4-Trimethylbenzene	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.3-Dichlorobenzene	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.3-Dichloropropane	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.3.5-Trimethylbenzene	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.4-Dichlorobenzene	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
2-Butanone (MEK)	M23-Fe0023672	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
2-Propanone (Acetone)	M23-Fe0023672	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
4-Chlorotoluene	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	M23-Fe0023672	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Allyl chloride	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzene	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromobenzene	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	

Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
Bromochloromethane	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromodichloromethane	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromoform	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromomethane	M23-Fe0023672	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Carbon disulfide	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Carbon Tetrachloride	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chlorobenzene	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chloroethane	M23-Fe0023672	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Chloroform	M23-Fe0023672	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Chloromethane	M23-Fe0023672	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
cis-1.2-Dichloroethene	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
cis-1.3-Dichloropropene	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibromochloromethane	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibromomethane	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dichlorodifluoromethane	M23-Fe0023672	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Ethylbenzene	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Iodomethane	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Isopropyl benzene (Cumene)	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
m&p-Xylenes	M23-Fe0023672	CP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Methylene Chloride	M23-Fe0023672	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
o-Xylene	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Styrene	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Tetrachloroethene	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Toluene	M23-Fe0023672	CP	mg/L	0.040	0.036	8.4	30%	Pass	
trans-1.2-Dichloroethene	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
trans-1.3-Dichloropropene	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Trichloroethene	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Trichlorofluoromethane	M23-Fe0023672	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Vinyl chloride	M23-Fe0023672	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Xylenes - Total*	M23-Fe0023672	CP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	M23-Fe0023672	CP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M23-Fe0029730	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Cadmium	M23-Fe0029730	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Chromium	M23-Fe0029730	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Copper	M23-Fe0029730	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Lead	M23-Fe0029730	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Mercury	M23-Fe0029730	NCP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel	M23-Fe0029730	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Zinc	M23-Fe0029730	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	M23-Fe0028364	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
4.4'-DDD	M23-Fe0028364	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
4.4'-DDE	M23-Fe0028364	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
4.4'-DDT	M23-Fe0028364	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
a-HCH	M23-Fe0028364	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Aldrin	M23-Fe0028364	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
b-HCH	M23-Fe0028364	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
d-HCH	M23-Fe0028364	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Dieldrin	M23-Fe0028364	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	

Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Endosulfan I	M23-Fe0028364	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endosulfan II	M23-Fe0028364	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endosulfan sulphate	M23-Fe0028364	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endrin	M23-Fe0028364	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endrin aldehyde	M23-Fe0028364	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endrin ketone	M23-Fe0028364	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
g-HCH (Lindane)	M23-Fe0028364	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Heptachlor	M23-Fe0028364	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Heptachlor epoxide	M23-Fe0028364	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Hexachlorobenzene	M23-Fe0028364	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Methoxychlor	M23-Fe0028364	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Toxaphene	M23-Fe0028364	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	M23-Fe0028364	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Aroclor-1221	M23-Fe0028364	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Aroclor-1232	M23-Fe0028364	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Aroclor-1242	M23-Fe0028364	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Aroclor-1248	M23-Fe0028364	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Aroclor-1254	M23-Fe0028364	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Aroclor-1260	M23-Fe0028364	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Total PCB*	M23-Fe0028364	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	N/A
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
I12	Where sampling date has not been provided, Eurofins | Environment Testing is not able to determine whether analysis has been performed within recommended holding times.
N09	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.

Authorised by:

Adam Bateup	Analytical Services Manager
Edward Lee	Senior Analyst-Organic
Harry Bacalis	Senior Analyst-Volatile
Joseph Edouard	Senior Analyst-Organic
Joseph Edouard	Senior Analyst-PFAS
Joseph Edouard	Senior Analyst-Volatile
Mary Makarios	Senior Analyst-Metal
Scott Beddoes	Senior Analyst-Metal



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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

NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: **Mitch Hodgins**

Report **962621-S**
Project name BHHR
Project ID 63879
Received Date Feb 09, 2023

Client Sample ID			**KW-B1_0.0-0.1**	**KW-B1_0.2-0.3**	**KW-B2_0.0-0.1**	**KW-B2_0.3-0.4**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M23-Fe0023564**	**M23-Fe0023565**	**M23-Fe0023567**	**M23-Fe0023570**
Date Sampled			**Feb 03, 2023**	**Feb 03, 2023**	**Feb 03, 2023**	**Feb 03, 2023**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	-	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	-	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	-	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	-	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	-	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	-	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	-	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	-	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	< 100	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	-	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	81	-	98	90
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			KW-B1_0.0-0.1	KW-B1_0.2-0.3	KW-B2_0.0-0.1	KW-B2_0.3-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023564	M23-Fe0023565	M23-Fe0023567	M23-Fe0023570
Date Sampled			Feb 03, 2023	Feb 03, 2023	Feb 03, 2023	Feb 03, 2023
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	0.6	1.1	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	0.6	0.9	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	1.2	2.0	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	70	76	90	93
p-Terphenyl-d14 (surr.)	1	%	75	62	92	104
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	64	-	80	105
Tetrachloro-m-xylene (surr.)	1	%	77	-	99	109
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	64	-	80	105
Tetrachloro-m-xylene (surr.)	1	%	77	-	99	109

Client Sample ID			KW-B1_0.0-0.1	KW-B1_0.2-0.3	KW-B2_0.0-0.1	KW-B2_0.3-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023564	M23-Fe0023565	M23-Fe0023567	M23-Fe0023570
Date Sampled			Feb 03, 2023	Feb 03, 2023	Feb 03, 2023	Feb 03, 2023
Test/Reference	LOR	Unit				
% Clay	1	%	1.0	-	-	-
Conductivity (1:5 aqueous extract at 25 °C as rec.)	10	uS/cm	830	-	-	-
pH (units)(1:5 soil:CaCl2 extract at 25 °C as rec.)	0.1	pH Units	7.5	-	-	-
Total Organic Carbon	0.1	%	0.5	-	-	-
% Moisture	1	%	6.3	6.3	2.3	4.7
Heavy Metals						
Arsenic	2	mg/kg	8.8	6.8	< 2	4.7
Cadmium	0.4	mg/kg	0.6	0.5	< 0.4	< 0.4
Chromium	5	mg/kg	28	28	19	22
Copper	5	mg/kg	29	27	12	21
Iron	20	mg/kg	36000	-	-	-
Lead	5	mg/kg	130	220	28	84
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	22	20	12	19
Zinc	5	mg/kg	210	180	110	170
Heavy Metals						
Iron (%)	0.01	%	3.6	-	-	-
Cation Exchange Capacity						
Cation Exchange Capacity	0.05	meq/100g	34	-	-	-

Client Sample ID			KW-B3_0.1-0.2	KW-B3_0.25-0.3	KW-B4_0.0-0.1	KW-B4_0.1-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023571	M23-Fe0023572	M23-Fe0023575	M23-Fe0023577
Date Sampled			Feb 03, 2023	Feb 03, 2023	Feb 03, 2023	Feb 03, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	-	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	-	< 20
TRH C15-C28	50	mg/kg	160	57	-	< 50
TRH C29-C36	50	mg/kg	53	< 50	-	< 50
TRH C10-C36 (Total)	50	mg/kg	213	57	-	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	-	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	-	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	-	< 50
TRH >C16-C34	100	mg/kg	220	< 100	-	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	220	< 100	-	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	124	95	-	55

Client Sample ID			KW-B3_0.1-0.2	KW-B3_0.25-0.3	KW-B4_0.0-0.1	KW-B4_0.1-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023571	M23-Fe0023572	M23-Fe0023575	M23-Fe0023577
Date Sampled			Feb 03, 2023	Feb 03, 2023	Feb 03, 2023	Feb 03, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	2.3	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	2.5	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	2.8	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	1.3	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	1.8	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	0.9	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	1.1	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	1.4	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	1.6	< 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	0.7	2.7	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	1.1	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	1.0	< 0.5	< 0.5
Pyrene	0.5	mg/kg	0.7	2.9	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	1.4	16	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	72	98	88	54
p-Terphenyl-d14 (surr.)	1	%	76	108	91	56
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05

Client Sample ID			KW-B3_0.1-0.2	KW-B3_0.25-0.3	KW-B4_0.0-0.1	KW-B4_0.1-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023571	M23-Fe0023572	M23-Fe0023575	M23-Fe0023577
Date Sampled			Feb 03, 2023	Feb 03, 2023	Feb 03, 2023	Feb 03, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Dibutylchlorendate (surr.)	1	%	92	106	-	73
Tetrachloro-m-xylene (surr.)	1	%	63	122	-	59
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Dibutylchlorendate (surr.)	1	%	92	106	-	73
Tetrachloro-m-xylene (surr.)	1	%	63	122	-	59
% Moisture	1	%	7.0	8.0	5.5	5.2
Heavy Metals						
Arsenic	2	mg/kg	63	2.5	2.9	5.0
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	1.3
Chromium	5	mg/kg	32	13	16	27
Copper	5	mg/kg	130	51	14	20
Lead	5	mg/kg	16000	160	75	360
Mercury	0.1	mg/kg	0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	88	12	11	13
Zinc	5	mg/kg	320	170	130	380
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dibromoethane	0.5	mg/kg	< 0.5	-	-	-
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	-	-	-
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	-
1.4-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	-	-	-
4-Chlorotoluene	0.5	mg/kg	< 0.5	-	-	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	-	-	-
Allyl chloride	0.5	mg/kg	< 0.5	-	-	-

Client Sample ID			KW-B3_0.1-0.2	KW-B3_0.25-0.3	KW-B4_0.0-0.1	KW-B4_0.1-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023571	M23-Fe0023572	M23-Fe0023575	M23-Fe0023577
Date Sampled			Feb 03, 2023	Feb 03, 2023	Feb 03, 2023	Feb 03, 2023
Test/Reference	LOR	Unit				
Volatile Organics						
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-1.3-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	-	-	-
Isopropyl benzene (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*	0.3	mg/kg	< 0.3	-	-	-
Total MAH*	0.5	mg/kg	< 0.5	-	-	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	-	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	-	-	-
4-Bromofluorobenzene (surr.)	1	%	124	-	-	-
Toluene-d8 (surr.)	1	%	109	-	-	-

Client Sample ID			KW-B5_0.1-0.2	KW-B5_0.4-0.5	KW-B6_0.0-0.1	KW-B6_0.5-0.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023580	M23-Fe0023581	M23-Fe0023584	M23-Fe0023585
Date Sampled			Feb 03, 2023	Feb 03, 2023	Feb 03, 2023	Feb 03, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	-	< 20
TRH C10-C14	20	mg/kg	< 20	-	-	< 20
TRH C15-C28	50	mg/kg	< 50	-	-	< 50
TRH C29-C36	50	mg/kg	< 50	-	-	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	-	-	< 50
TRH C6-C10	20	mg/kg	< 20	-	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	-	< 20
TRH >C10-C16	50	mg/kg	< 50	-	-	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	-	< 50
TRH >C16-C34	100	mg/kg	< 100	-	-	< 100
TRH >C34-C40	100	mg/kg	< 100	-	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	-	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	-	< 0.1
Toluene	0.1	mg/kg	< 0.1	-	-	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	-	-	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	-	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	81	-	-	81
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	-	< 0.5
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.6
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.9
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.6
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	1.0
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	1.2
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	3.8
2-Fluorobiphenyl (surr.)	1	%	72	82	56	81
p-Terphenyl-d14 (surr.)	1	%	60	82	91	78

Client Sample ID			KW-B5_0.1-0.2	KW-B5_0.4-0.5	KW-B6_0.0-0.1	KW-B6_0.5-0.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023580	M23-Fe0023581	M23-Fe0023584	M23-Fe0023585
Date Sampled			Feb 03, 2023	Feb 03, 2023	Feb 03, 2023	Feb 03, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	-	-	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	-	-	0.05
4.4'-DDT	0.05	mg/kg	< 0.05	-	-	0.15
a-HCH	0.05	mg/kg	< 0.05	-	-	< 0.05
Aldrin	0.05	mg/kg	< 0.05	-	-	< 0.05
b-HCH	0.05	mg/kg	< 0.05	-	-	< 0.05
d-HCH	0.05	mg/kg	< 0.05	-	-	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	-	-	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	-	-	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	-	-	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	-	-	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-	0.2
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	-	0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	-	< 0.1
Dibutylchlorendate (surr.)	1	%	68	-	-	118
Tetrachloro-m-xylene (surr.)	1	%	52	-	-	65
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	-	-	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	-	-	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	-	-	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	-	-	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	-	-	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1	-	-	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1	-	-	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	-	-	< 0.1
Dibutylchlorendate (surr.)	1	%	68	-	-	118
Tetrachloro-m-xylene (surr.)	1	%	52	-	-	65
% Clay	1	%	1.2	-	-	-
Conductivity (1:5 aqueous extract at 25 °C as rec.)	10	uS/cm	210	-	-	-
pH (units)(1:5 soil:CaCl2 extract at 25 °C as rec.)	0.1	pH Units	7.8	-	-	-
Total Organic Carbon	0.1	%	1.1	-	-	-
% Moisture	1	%	9.4	9.4	6.1	5.5
Heavy Metals						
Arsenic	2	mg/kg	4.6	2.4	9.0	10
Cadmium	0.4	mg/kg	0.7	< 0.4	1.1	0.8
Chromium	5	mg/kg	19	21	28	21
Copper	5	mg/kg	17	13	29	22

Client Sample ID			KW-B5_0.1-0.2	KW-B5_0.4-0.5	KW-B6_0.0-0.1	KW-B6_0.5-0.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023580	M23-Fe0023581	M23-Fe0023584	M23-Fe0023585
Date Sampled			Feb 03, 2023	Feb 03, 2023	Feb 03, 2023	Feb 03, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Iron	20	mg/kg	17000	-	-	-
Lead	5	mg/kg	380	41	200	250
Mercury	0.1	mg/kg	< 0.1	< 0.1	0.1	< 0.1
Nickel	5	mg/kg	7.8	10	28	14
Zinc	5	mg/kg	210	58	410	290
Heavy Metals						
Iron (%)	0.01	%	1.7	-	-	-
Cation Exchange Capacity						
Cation Exchange Capacity	0.05	meq/100g	4.5	-	-	-

Client Sample ID			KW-B7_0.2-0.3	KW-B7_0.5-0.6	KW-B8_0.0-0.1	KW-B8_0.2-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023586	M23-Fe0023587	M23-Fe0023590	M23-Fe0023591
Date Sampled			Feb 03, 2023	Feb 03, 2023	Feb 03, 2023	Feb 03, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	-	< 20	< 20
TRH C15-C28	50	mg/kg	91	-	58	< 50
TRH C29-C36	50	mg/kg	< 50	-	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	91	-	58	< 50
TRH C6-C10	20	mg/kg	< 20	-	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	-	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	< 50	< 50
TRH >C16-C34	100	mg/kg	120	-	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	-	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	120	-	< 100	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	-	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	65	-	80	102
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	1.3	0.8	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	1.5	1.1	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.8	1.4	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	0.8	0.6	< 0.5	< 0.5

Client Sample ID			KW-B7_0.2-0.3	KW-B7_0.5-0.6	KW-B8_0.0-0.1	KW-B8_0.2-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023586	M23-Fe0023587	M23-Fe0023590	M23-Fe0023591
Date Sampled			Feb 03, 2023	Feb 03, 2023	Feb 03, 2023	Feb 03, 2023
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene	0.5	mg/kg	0.9	0.7	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	1.3	0.6	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	0.7	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	1.0	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	0.9	0.7	< 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	2.2	1.3	0.6	0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	1.5	0.8	< 0.5	< 0.5
Pyrene	0.5	mg/kg	2.1	1.2	0.7	0.5
Total PAH*	0.5	mg/kg	12	5.9	1.3	1.0
2-Fluorobiphenyl (surr.)	1	%	24	61	23	93
p-Terphenyl-d14 (surr.)	1	%	28	94	22	85
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	42	-	62	97
Tetrachloro-m-xylene (surr.)	1	%	26	-	26	54
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1

Client Sample ID			KW-B7_0.2-0.3	KW-B7_0.5-0.6	KW-B8_0.0-0.1	KW-B8_0.2-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023586	M23-Fe0023587	M23-Fe0023590	M23-Fe0023591
Date Sampled			Feb 03, 2023	Feb 03, 2023	Feb 03, 2023	Feb 03, 2023
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1254	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	42	-	62	97
Tetrachloro-m-xylene (surr.)	1	%	26	-	26	54
% Moisture	1	%	6.2	5.9	9.8	11
Heavy Metals						
Arsenic	2	mg/kg	6.4	6.4	16	5.0
Cadmium	0.4	mg/kg	0.9	0.9	1.2	1.0
Chromium	5	mg/kg	22	20	29	21
Copper	5	mg/kg	26	24	41	23
Lead	5	mg/kg	330	250	350	250
Mercury	0.1	mg/kg	0.1	0.1	0.1	0.1
Nickel	5	mg/kg	15	15	27	13
Zinc	5	mg/kg	390	370	490	490
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1-Dichloroethene	0.5	mg/kg	-	-	-	< 0.5
1.1.1-Trichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.2-Trichloroethane	0.5	mg/kg	-	-	-	< 0.5
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	-	< 0.5
1.2-Dibromoethane	0.5	mg/kg	-	-	-	< 0.5
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
1.2.3-Trichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	-	< 0.5
1.3-Dichlorobenzene	0.5	mg/kg	-	-	-	< 0.5
1.3-Dichloropropane	0.5	mg/kg	-	-	-	< 0.5
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	-	< 0.5
1.4-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
4-Chlorotoluene	0.5	mg/kg	-	-	-	< 0.5
4-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

Client Sample ID			KW-B7_0.2-0.3	KW-B7_0.5-0.6	KW-B8_0.0-0.1	KW-B8_0.2-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023586	M23-Fe0023587	M23-Fe0023590	M23-Fe0023591
Date Sampled			Feb 03, 2023	Feb 03, 2023	Feb 03, 2023	Feb 03, 2023
Test/Reference	LOR	Unit				
Volatile Organics						
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
Isopropyl benzene (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*	0.3	mg/kg	-	-	-	< 0.3
Total MAH*	0.5	mg/kg	-	-	-	< 0.5
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	-	< 0.5
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	-	< 0.5
4-Bromofluorobenzene (surr.)	1	%	-	-	-	102
Toluene-d8 (surr.)	1	%	-	-	-	114

Client Sample ID			MH-B1_0.0-0.1	MH-B1_0.1-0.2	MH-B1_0.2-0.3	MH-B2_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023594	M23-Fe0023596	M23-Fe0023598	M23-Fe0023600
Date Sampled			Feb 03, 2023	Feb 03, 2023	Feb 03, 2023	Feb 03, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	< 20	-	-
TRH C10-C14	20	mg/kg	-	< 20	-	-
TRH C15-C28	50	mg/kg	-	< 50	-	-
TRH C29-C36	50	mg/kg	-	< 50	-	-
TRH C10-C36 (Total)	50	mg/kg	-	< 50	-	-
TRH C6-C10	20	mg/kg	-	< 20	-	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	-	-
TRH >C10-C16	50	mg/kg	-	< 50	-	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	-	-
TRH >C16-C34	100	mg/kg	-	< 100	-	-
TRH >C34-C40	100	mg/kg	-	< 100	-	-
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	-	-

Client Sample ID			MH-B1_0.0-0.1	MH-B1_0.1-0.2	MH-B1_0.2-0.3	MH-B2_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023594	M23-Fe0023596	M23-Fe0023598	M23-Fe0023600
Date Sampled			Feb 03, 2023	Feb 03, 2023	Feb 03, 2023	Feb 03, 2023
Test/Reference	LOR	Unit				
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	-	-
Toluene	0.1	mg/kg	-	< 0.1	-	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	-
o-Xylene	0.1	mg/kg	-	< 0.1	-	-
Xylenes - Total*	0.3	mg/kg	-	< 0.3	-	-
4-Bromofluorobenzene (surr.)	1	%	-	74	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	-	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	-	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	-	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	-	-
Acenaphthene	0.5	mg/kg	-	< 0.5	-	-
Acenaphthylene	0.5	mg/kg	-	< 0.5	-	-
Anthracene	0.5	mg/kg	-	< 0.5	-	-
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	-	-
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	-	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	-	-
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	-	-
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	-	-
Chrysene	0.5	mg/kg	-	< 0.5	-	-
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	-	-
Fluoranthene	0.5	mg/kg	-	< 0.5	-	-
Fluorene	0.5	mg/kg	-	< 0.5	-	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	-	-
Naphthalene	0.5	mg/kg	-	< 0.5	-	-
Phenanthrene	0.5	mg/kg	-	< 0.5	-	-
Pyrene	0.5	mg/kg	-	< 0.5	-	-
Total PAH*	0.5	mg/kg	-	< 0.5	-	-
2-Fluorobiphenyl (surr.)	1	%	-	90	-	-
p-Terphenyl-d14 (surr.)	1	%	-	51	-	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	-
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	-
a-HCH	0.05	mg/kg	-	< 0.05	-	-
Aldrin	0.05	mg/kg	-	< 0.05	-	-
b-HCH	0.05	mg/kg	-	< 0.05	-	-
d-HCH	0.05	mg/kg	-	< 0.05	-	-
Dieldrin	0.05	mg/kg	-	< 0.05	-	-
Endosulfan I	0.05	mg/kg	-	< 0.05	-	-
Endosulfan II	0.05	mg/kg	-	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	-
Endrin	0.05	mg/kg	-	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	-
Endrin ketone	0.05	mg/kg	-	< 0.05	-	-
g-HCH (Lindane)	0.05	mg/kg	-	< 0.05	-	-

Client Sample ID			MH-B1_0.0-0.1	MH-B1_0.1-0.2	MH-B1_0.2-0.3	MH-B2_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023594	M23-Fe0023596	M23-Fe0023598	M23-Fe0023600
Date Sampled			Feb 03, 2023	Feb 03, 2023	Feb 03, 2023	Feb 03, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Heptachlor	0.05	mg/kg	-	< 0.05	-	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	-
Methoxychlor	0.05	mg/kg	-	< 0.05	-	-
Toxaphene	0.5	mg/kg	-	< 0.5	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	-	119	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	51	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1232	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1242	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1248	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1254	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1260	0.1	mg/kg	-	< 0.1	-	-
Total PCB*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	-	119	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	51	-	-
% Moisture	1	%	24	16	14	7.5
Heavy Metals						
Arsenic	2	mg/kg	3.5	2.7	8.9	11
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	26	27	34	51
Copper	5	mg/kg	23	59	35	74
Lead	5	mg/kg	42	35	140	120
Mercury	0.1	mg/kg	< 0.1	< 0.1	0.2	< 0.1
Nickel	5	mg/kg	14	19	24	36
Zinc	5	mg/kg	120	110	150	180
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1-Dichloroethene	0.5	mg/kg	-	< 0.5	-	-
1.1.1-Trichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.2-Trichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dibromoethane	0.5	mg/kg	-	< 0.5	-	-
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	-	-
1.2.3-Trichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	-
1.3-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
1.3-Dichloropropane	0.5	mg/kg	-	< 0.5	-	-

Client Sample ID			MH-B1_0.0-0.1	MH-B1_0.1-0.2	MH-B1_0.2-0.3	MH-B2_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023594	M23-Fe0023596	M23-Fe0023598	M23-Fe0023600
Date Sampled			Feb 03, 2023	Feb 03, 2023	Feb 03, 2023	Feb 03, 2023
Test/Reference	LOR	Unit				
Volatile Organics						
1.3.5-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	-
1.4-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	-	-
4-Chlorotoluene	0.5	mg/kg	-	< 0.5	-	-
4-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-1.3-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	-	-
Isopropyl benzene (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*	0.3	mg/kg	-	< 0.3	-	-
Total MAH*	0.5	mg/kg	-	< 0.5	-	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	< 0.5	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	< 0.5	-	-
4-Bromofluorobenzene (surr.)	1	%	-	74	-	-
Toluene-d8 (surr.)	1	%	-	83	-	-

Client Sample ID			MH-B2_0.4-0.5	MH-B3_0.0-0.1	MH-B3_0.2-0.3	MH-B3_0.8-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023601	M23-Fe0023603	M23-Fe0023604	M23-Fe0023605
Date Sampled			Feb 03, 2023	Feb 03, 2023	Feb 03, 2023	Feb 03, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	-	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	-	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	-	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	-	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	-	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	-	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	-	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	-	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	-	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	-	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	90	88	-	81
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	-	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	50	52	-	52
p-Terphenyl-d14 (surr.)	1	%	98	94	-	89

Client Sample ID			MH-B2_0.4-0.5	MH-B3_0.0-0.1	MH-B3_0.2-0.3	MH-B3_0.8-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023601	M23-Fe0023603	M23-Fe0023604	M23-Fe0023605
Date Sampled			Feb 03, 2023	Feb 03, 2023	Feb 03, 2023	Feb 03, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Dibutylchlorendate (surr.)	1	%	90	52	-	52
Tetrachloro-m-xylene (surr.)	1	%	55	52	-	52
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Dibutylchlorendate (surr.)	1	%	90	52	-	52
Tetrachloro-m-xylene (surr.)	1	%	55	52	-	52
% Moisture	1	%	7.7	3.2	5.0	4.1
Heavy Metals						
Arsenic	2	mg/kg	7.9	< 2	< 2	3.0
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	48	10	9.3	47
Copper	5	mg/kg	44	13	< 5	9.3
Lead	5	mg/kg	100	14	< 5	14
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	33	5.6	< 5	26
Zinc	5	mg/kg	180	47	12	49

Client Sample ID			MH-B4_0.2-0.3	MH-B4_0.6-0.7	MH-B5_0.0-0.1	MH-B5_0.1-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023608	M23-Fe0023609	M23-Fe0023611	M23-Fe0023612
Date Sampled			Feb 03, 2023	Feb 03, 2023	Feb 02, 2023	Feb 02, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	-	< 20
TRH C10-C14	20	mg/kg	< 20	-	-	< 20
TRH C15-C28	50	mg/kg	< 50	-	-	< 50
TRH C29-C36	50	mg/kg	< 50	-	-	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	-	-	< 50
TRH C6-C10	20	mg/kg	< 20	-	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	-	< 20
TRH >C10-C16	50	mg/kg	< 50	-	-	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	-	< 50
TRH >C16-C34	100	mg/kg	< 100	-	-	< 100
TRH >C34-C40	100	mg/kg	< 100	-	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	-	< 100
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	-	< 0.1
Toluene	0.1	mg/kg	< 0.1	-	-	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	-	-	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	-	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	76	-	-	66
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	-	< 0.5
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	-	1.2
Acenaphthene	0.5	mg/kg	< 0.5	-	-	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	-	-	< 0.5
Anthracene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	-	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	-	< 0.5
Chrysene	0.5	mg/kg	< 0.5	-	-	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-	-	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	-	-	< 0.5
Fluorene	0.5	mg/kg	< 0.5	-	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	-	-	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Pyrene	0.5	mg/kg	< 0.5	-	-	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	-	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	50	-	-	72
p-Terphenyl-d14 (surr.)	1	%	90	-	-	83

Client Sample ID			MH-B4_0.2-0.3	MH-B4_0.6-0.7	MH-B5_0.0-0.1	MH-B5_0.1-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023608	M23-Fe0023609	M23-Fe0023611	M23-Fe0023612
Date Sampled			Feb 03, 2023	Feb 03, 2023	Feb 02, 2023	Feb 02, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	-	-	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	-	-	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	-	-	< 0.05
a-HCH	0.05	mg/kg	< 0.05	-	-	< 0.05
Aldrin	0.05	mg/kg	< 0.05	-	-	< 0.05
b-HCH	0.05	mg/kg	< 0.05	-	-	< 0.05
d-HCH	0.05	mg/kg	< 0.05	-	-	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	-	-	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	-	-	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	-	-	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	-	-	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	-	< 0.1
Dibutylchlorendate (surr.)	1	%	86	-	-	84
Tetrachloro-m-xylene (surr.)	1	%	88	-	-	58
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	-	-	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	-	-	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	-	-	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	-	-	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	-	-	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1	-	-	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1	-	-	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	-	-	< 0.1
Dibutylchlorendate (surr.)	1	%	86	-	-	84
Tetrachloro-m-xylene (surr.)	1	%	88	-	-	58
% Moisture	1	%	5.6	3.0	7.3	8.9
Heavy Metals						
Arsenic	2	mg/kg	71	11	32	22
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	26	28	19	21
Copper	5	mg/kg	46	< 5	42	45
Lead	5	mg/kg	24	11	24	24
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	35	15	24	26
Zinc	5	mg/kg	87	61	59	59

Client Sample ID			MH-B5_0.4-0.5	MH-B5_0.8-0.9	MH-B6_0.0-0.1	MH-B6_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023613	M23-Fe0023614	M23-Fe0023616	M23-Fe0023617
Date Sampled			Feb 02, 2023	Feb 02, 2023	Feb 02, 2023	Feb 02, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	-	< 20	-
TRH C10-C14	20	mg/kg	< 20	-	< 20	-
TRH C15-C28	50	mg/kg	< 50	-	< 50	-
TRH C29-C36	50	mg/kg	< 50	-	< 50	-
TRH C10-C36 (Total)	50	mg/kg	< 50	-	< 50	-
TRH C6-C10	20	mg/kg	< 20	-	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	< 20	-
TRH >C10-C16	50	mg/kg	< 50	-	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	< 50	-
TRH >C16-C34	100	mg/kg	< 100	-	< 100	-
TRH >C34-C40	100	mg/kg	< 100	-	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	< 100	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	-
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	-
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	62	-	76	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	< 0.5	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	69	-	50	71
p-Terphenyl-d14 (surr.)	1	%	83	-	92	87

Client Sample ID			MH-B5_0.4-0.5	MH-B5_0.8-0.9	MH-B6_0.0-0.1	MH-B6_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023613	M23-Fe0023614	M23-Fe0023616	M23-Fe0023617
Date Sampled			Feb 02, 2023	Feb 02, 2023	Feb 02, 2023	Feb 02, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	< 0.1	-
4.4'-DDD	0.05	mg/kg	< 0.05	-	< 0.05	-
4.4'-DDE	0.05	mg/kg	< 0.05	-	< 0.05	-
4.4'-DDT	0.05	mg/kg	< 0.05	-	< 0.05	-
a-HCH	0.05	mg/kg	< 0.05	-	< 0.05	-
Aldrin	0.05	mg/kg	< 0.05	-	< 0.05	-
b-HCH	0.05	mg/kg	< 0.05	-	< 0.05	-
d-HCH	0.05	mg/kg	< 0.05	-	< 0.05	-
Dieldrin	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan I	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan II	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin ketone	0.05	mg/kg	< 0.05	-	< 0.05	-
g-HCH (Lindane)	0.05	mg/kg	< 0.05	-	< 0.05	-
Heptachlor	0.05	mg/kg	< 0.05	-	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	< 0.05	-
Methoxychlor	0.05	mg/kg	< 0.05	-	< 0.05	-
Toxaphene	0.5	mg/kg	< 0.5	-	< 0.5	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	-	< 0.1	-
Dibutylchlorendate (surr.)	1	%	81	-	98	-
Tetrachloro-m-xylene (surr.)	1	%	55	-	55	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1221	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1232	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1242	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1248	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1254	0.1	mg/kg	< 0.1	-	< 0.1	-
Aroclor-1260	0.1	mg/kg	< 0.1	-	< 0.1	-
Total PCB*	0.1	mg/kg	< 0.1	-	< 0.1	-
Dibutylchlorendate (surr.)	1	%	81	-	98	-
Tetrachloro-m-xylene (surr.)	1	%	55	-	55	-
% Clay	1	%	-	-	-	6.7
Conductivity (1:5 aqueous extract at 25 °C as rec.)	10	uS/cm	-	-	-	350
pH (units)(1:5 soil:CaCl2 extract at 25 °C as rec.)	0.1	pH Units	-	-	-	8.5
Total Organic Carbon	0.1	%	-	-	-	0.4
% Moisture	1	%	11	7.2	6.0	8.0
Heavy Metals						
Arsenic	2	mg/kg	6.7	8.4	15	4.9
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	24	21	29	30
Copper	5	mg/kg	28	21	35	24

Client Sample ID			MH-B5_0.4-0.5	MH-B5_0.8-0.9	MH-B6_0.0-0.1	MH-B6_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023613	M23-Fe0023614	M23-Fe0023616	M23-Fe0023617
Date Sampled			Feb 02, 2023	Feb 02, 2023	Feb 02, 2023	Feb 02, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Iron	20	mg/kg	-	-	-	27000
Lead	5	mg/kg	19	20	25	22
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	16	14	24	17
Zinc	5	mg/kg	53	44	99	72
Heavy Metals						
Iron (%)	0.01	%	-	-	-	2.7
Cation Exchange Capacity						
Cation Exchange Capacity	0.05	meq/100g	-	-	-	26
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
1.1.1-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dibromoethane	0.5	mg/kg	-	-	< 0.5	-
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	-
1.2.3-Trichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.4-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	-
4-Chlorotoluene	0.5	mg/kg	-	-	< 0.5	-
4-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-1.3-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	-

Client Sample ID			MH-B5_0.4-0.5	MH-B5_0.8-0.9	MH-B6_0.0-0.1	MH-B6_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023613	M23-Fe0023614	M23-Fe0023616	M23-Fe0023617
Date Sampled			Feb 02, 2023	Feb 02, 2023	Feb 02, 2023	Feb 02, 2023
Test/Reference	LOR	Unit				
Volatile Organics						
Iodomethane	0.5	mg/kg	-	-	< 0.5	-
Isopropyl benzene (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*	0.3	mg/kg	-	-	< 0.3	-
Total MAH*	0.5	mg/kg	-	-	< 0.5	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	-	< 0.5	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	-	< 0.5	-
4-Bromofluorobenzene (surr.)	1	%	-	-	76	-
Toluene-d8 (surr.)	1	%	-	-	89	-

Client Sample ID			MH-B6_0.4-0.5	MH-B7_0.0-0.1	MH-B7_0.2-0.3	MH-B7_0.9-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023618	M23-Fe0023620	M23-Fe0023621	M23-Fe0023622
Date Sampled			Feb 02, 2023	Feb 02, 2023	Feb 02, 2023	Feb 02, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	-	< 20	< 20
TRH C10-C14	20	mg/kg	-	-	< 20	< 20
TRH C15-C28	50	mg/kg	-	-	< 50	< 50
TRH C29-C36	50	mg/kg	-	-	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	-	-	< 50	< 50
TRH C6-C10	20	mg/kg	-	-	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	-	< 20	< 20
TRH >C10-C16	50	mg/kg	-	-	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	-	< 50	< 50
TRH >C16-C34	100	mg/kg	-	-	< 100	< 100
TRH >C34-C40	100	mg/kg	-	-	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	-	< 100	< 100
BTEX						
Benzene	0.1	mg/kg	-	-	< 0.1	< 0.1
Toluene	0.1	mg/kg	-	-	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	-	-	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	-	-	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	-	72	96
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	-	< 0.5	< 0.5

Client Sample ID			MH-B6_0.4-0.5	MH-B7_0.0-0.1	MH-B7_0.2-0.3	MH-B7_0.9-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023618	M23-Fe0023620	M23-Fe0023621	M23-Fe0023622
Date Sampled			Feb 02, 2023	Feb 02, 2023	Feb 02, 2023	Feb 02, 2023
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	71	67	53
p-Terphenyl-d14 (surr.)	1	%	-	83	82	60
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	-	-	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	-	-	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	-	-	< 0.05	< 0.05
a-HCH	0.05	mg/kg	-	-	< 0.05	< 0.05
Aldrin	0.05	mg/kg	-	-	< 0.05	< 0.05
b-HCH	0.05	mg/kg	-	-	< 0.05	< 0.05
d-HCH	0.05	mg/kg	-	-	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	-	-	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	-	-	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	-	-	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	-	< 0.05	< 0.05
Endrin	0.05	mg/kg	-	-	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	-	-	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	-	-	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	-	-	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	-	-	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	-	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	-	-	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	-	-	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	-	-	73	62
Tetrachloro-m-xylene (surr.)	1	%	-	-	53	54

Client Sample ID			MH-B6_0.4-0.5	MH-B7_0.0-0.1	MH-B7_0.2-0.3	MH-B7_0.9-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023618	M23-Fe0023620	M23-Fe0023621	M23-Fe0023622
Date Sampled			Feb 02, 2023	Feb 02, 2023	Feb 02, 2023	Feb 02, 2023
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	-	< 0.1	< 0.1
Aroclor-1221	0.1	mg/kg	-	-	< 0.1	< 0.1
Aroclor-1232	0.1	mg/kg	-	-	< 0.1	< 0.1
Aroclor-1242	0.1	mg/kg	-	-	< 0.1	< 0.1
Aroclor-1248	0.1	mg/kg	-	-	< 0.1	< 0.1
Aroclor-1254	0.1	mg/kg	-	-	< 0.1	< 0.1
Aroclor-1260	0.1	mg/kg	-	-	< 0.1	< 0.1
Total PCB*	0.1	mg/kg	-	-	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	-	-	73	62
Tetrachloro-m-xylene (surr.)	1	%	-	-	53	54
% Moisture	1	%	8.5	5.3	5.8	4.6
Heavy Metals						
Arsenic	2	mg/kg	2.6	3.5	3.5	2.3
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	29	29	30	27
Copper	5	mg/kg	11	9.4	9.0	8.6
Lead	5	mg/kg	13	11	13	9.8
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	13	16	17	15
Zinc	5	mg/kg	54	51	54	47

Client Sample ID			MH-B8_0.1-0.2	MH-B8_0.4-0.5	MH-B8_0.5-0.6	MH-B9_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023624	M23-Fe0023625	M23-Fe0023626	M23-Fe0023629
Date Sampled			Feb 02, 2023	Feb 02, 2023	Feb 02, 2023	Feb 02, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	< 20	-	-
TRH C10-C14	20	mg/kg	-	< 20	-	-
TRH C15-C28	50	mg/kg	-	< 50	-	-
TRH C29-C36	50	mg/kg	-	< 50	-	-
TRH C10-C36 (Total)	50	mg/kg	-	< 50	-	-
TRH C6-C10	20	mg/kg	-	< 20	-	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	-	-
TRH >C10-C16	50	mg/kg	-	< 50	-	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	-	-
TRH >C16-C34	100	mg/kg	-	< 100	-	-
TRH >C34-C40	100	mg/kg	-	< 100	-	-
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	-	-
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	-	-
Toluene	0.1	mg/kg	-	< 0.1	-	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	-
o-Xylene	0.1	mg/kg	-	< 0.1	-	-
Xylenes - Total*	0.3	mg/kg	-	< 0.3	-	-
4-Bromofluorobenzene (surr.)	1	%	-	65	-	-

Client Sample ID			MH-B8_0.1-0.2	MH-B8_0.4-0.5	MH-B8_0.5-0.6	MH-B9_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023624	M23-Fe0023625	M23-Fe0023626	M23-Fe0023629
Date Sampled			Feb 02, 2023	Feb 02, 2023	Feb 02, 2023	Feb 02, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	-	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	-	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	71	55	-	52
p-Terphenyl-d14 (surr.)	1	%	53	60	-	57
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	-
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	-
a-HCH	0.05	mg/kg	-	< 0.05	-	-
Aldrin	0.05	mg/kg	-	< 0.05	-	-
b-HCH	0.05	mg/kg	-	< 0.05	-	-
d-HCH	0.05	mg/kg	-	< 0.05	-	-
Dieldrin	0.05	mg/kg	-	< 0.05	-	-
Endosulfan I	0.05	mg/kg	-	< 0.05	-	-
Endosulfan II	0.05	mg/kg	-	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	-
Endrin	0.05	mg/kg	-	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	-
Endrin ketone	0.05	mg/kg	-	< 0.05	-	-
g-HCH (Lindane)	0.05	mg/kg	-	< 0.05	-	-
Heptachlor	0.05	mg/kg	-	< 0.05	-	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	-
Methoxychlor	0.05	mg/kg	-	< 0.05	-	-
Toxaphene	0.5	mg/kg	-	< 0.5	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-

Client Sample ID			MH-B8_0.1-0.2	MH-B8_0.4-0.5	MH-B8_0.5-0.6	MH-B9_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023624	M23-Fe0023625	M23-Fe0023626	M23-Fe0023629
Date Sampled			Feb 02, 2023	Feb 02, 2023	Feb 02, 2023	Feb 02, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	-	66	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	53	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1232	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1242	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1248	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1254	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1260	0.1	mg/kg	-	< 0.1	-	-
Total PCB*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	-	66	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	53	-	-
% Moisture	1	%	2.7	13	15	4.7
Heavy Metals						
Arsenic	2	mg/kg	42	5.6	16	34
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	20	37	38	20
Copper	5	mg/kg	44	22	27	53
Lead	5	mg/kg	22	18	16	25
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	31	21	25	27
Zinc	5	mg/kg	71	55	60	72

Client Sample ID			MH-B9_0.2-0.3	MH-B9_0.9-1.0	MH-B10_0.0-0.2	MH-B10_0.2-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023630	M23-Fe0023631	M23-Fe0023633	M23-Fe0023636
Date Sampled			Feb 02, 2023	Feb 02, 2023	Feb 02, 2023	Feb 02, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100

Client Sample ID			MH-B9_0.2-0.3	MH-B9_0.9-1.0	MH-B10_0.0-0.2	MH-B10_0.2-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023630	M23-Fe0023631	M23-Fe0023633	M23-Fe0023636
Date Sampled			Feb 02, 2023	Feb 02, 2023	Feb 02, 2023	Feb 02, 2023
Test/Reference	LOR	Unit				
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	87	81	89	107
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	51	149	53	58
p-Terphenyl-d14 (surr.)	1	%	58	52	58	59
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05

Client Sample ID			MH-B9_0.2-0.3	MH-B9_0.9-1.0	MH-B10_0.0-0.2	MH-B10_0.2-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023630	M23-Fe0023631	M23-Fe0023633	M23-Fe0023636
Date Sampled			Feb 02, 2023	Feb 02, 2023	Feb 02, 2023	Feb 02, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	69	66	69	71
Tetrachloro-m-xylene (surr.)	1	%	68	54	52	106
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	69	66	69	71
Tetrachloro-m-xylene (surr.)	1	%	68	54	52	106
% Moisture	1	%	5.6	21	7.4	11
Heavy Metals						
Arsenic	2	mg/kg	30	6.3	4.4	5.8
Cadmium	0.4	mg/kg	< 0.4	< 0.4	0.8	1.0
Chromium	5	mg/kg	22	41	23	26
Copper	5	mg/kg	38	27	32	34
Lead	5	mg/kg	100	15	260	310
Mercury	0.1	mg/kg	< 0.1	< 0.1	1.6	0.8
Nickel	5	mg/kg	24	25	15	17
Zinc	5	mg/kg	75	68	330	490

Client Sample ID			MH-B10_0.5-0.6	ED-B1_0.0-0.1	ED-B1_0.4-0.5	ED-B1_0.9-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023637	M23-Fe0023640	M23-Fe0023641	M23-Fe0023642
Date Sampled			Feb 02, 2023	Feb 02, 2023	Feb 02, 2023	Feb 02, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	< 20	-	-
TRH C10-C14	20	mg/kg	-	< 20	-	-
TRH C15-C28	50	mg/kg	-	< 50	-	-
TRH C29-C36	50	mg/kg	-	< 50	-	-
TRH C10-C36 (Total)	50	mg/kg	-	< 50	-	-

Client Sample ID			MH-B10_0.5-0.6	ED-B1_0.0-0.1	ED-B1_0.4-0.5	ED-B1_0.9-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023637	M23-Fe0023640	M23-Fe0023641	M23-Fe0023642
Date Sampled			Feb 02, 2023	Feb 02, 2023	Feb 02, 2023	Feb 02, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C10	20	mg/kg	-	< 20	-	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	-	-
TRH >C10-C16	50	mg/kg	-	< 50	-	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	-	-
TRH >C16-C34	100	mg/kg	-	< 100	-	-
TRH >C34-C40	100	mg/kg	-	< 100	-	-
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	-	-
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	-	-
Toluene	0.1	mg/kg	-	< 0.1	-	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	-
o-Xylene	0.1	mg/kg	-	< 0.1	-	-
Xylenes - Total*	0.3	mg/kg	-	< 0.3	-	-
4-Bromofluorobenzene (surr.)	1	%	-	85	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	-	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	1.2	-
Acenaphthene	0.5	mg/kg	-	< 0.5	< 0.5	-
Acenaphthylene	0.5	mg/kg	-	< 0.5	< 0.5	-
Anthracene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	-
Chrysene	0.5	mg/kg	-	< 0.5	< 0.5	-
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	-
Fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	-
Fluorene	0.5	mg/kg	-	< 0.5	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Naphthalene	0.5	mg/kg	-	< 0.5	< 0.5	-
Phenanthrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Pyrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Total PAH*	0.5	mg/kg	-	< 0.5	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	-	58	68	-
p-Terphenyl-d14 (surr.)	1	%	-	63	60	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	-	-
4.4'-DDD	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDE	0.05	mg/kg	-	< 0.05	-	-
4.4'-DDT	0.05	mg/kg	-	< 0.05	-	-
a-HCH	0.05	mg/kg	-	< 0.05	-	-
Aldrin	0.05	mg/kg	-	< 0.05	-	-
b-HCH	0.05	mg/kg	-	< 0.05	-	-

Client Sample ID			MH-B10_0.5-0.6	ED-B1_0.0-0.1	ED-B1_0.4-0.5	ED-B1_0.9-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023637	M23-Fe0023640	M23-Fe0023641	M23-Fe0023642
Date Sampled			Feb 02, 2023	Feb 02, 2023	Feb 02, 2023	Feb 02, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
d-HCH	0.05	mg/kg	-	< 0.05	-	-
Dieldrin	0.05	mg/kg	-	< 0.05	-	-
Endosulfan I	0.05	mg/kg	-	< 0.05	-	-
Endosulfan II	0.05	mg/kg	-	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	-	-
Endrin	0.05	mg/kg	-	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	-	-
Endrin ketone	0.05	mg/kg	-	< 0.05	-	-
g-HCH (Lindane)	0.05	mg/kg	-	< 0.05	-	-
Heptachlor	0.05	mg/kg	-	< 0.05	-	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	-	-
Methoxychlor	0.05	mg/kg	-	< 0.05	-	-
Toxaphene	0.5	mg/kg	-	< 0.5	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	-	72	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	54	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1232	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1242	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1248	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1254	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1260	0.1	mg/kg	-	< 0.1	-	-
Total PCB*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	-	72	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	54	-	-
% Clay	1	%	-	6.1	-	-
Conductivity (1:5 aqueous extract at 25 °C as rec.)	10	uS/cm	-	410	-	-
pH (units)(1:5 soil:CaCl2 extract at 25 °C as rec.)	0.1	pH Units	-	9.1	-	-
Total Organic Carbon	0.1	%	-	0.3	-	-
% Moisture	1	%	10	8.5	11	9.4
Heavy Metals						
Arsenic	2	mg/kg	6.1	2.1	2.7	2.1
Cadmium	0.4	mg/kg	1.2	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	27	16	21	18
Copper	5	mg/kg	36	26	30	37
Iron	20	mg/kg	-	31000	-	-
Lead	5	mg/kg	470	11	14	13
Mercury	0.1	mg/kg	0.8	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	19	14	13	12
Zinc	5	mg/kg	510	46	39	36
Heavy Metals						
Iron (%)	0.01	%	-	3.1	-	-

Client Sample ID			MH-B10_0.5-0.6	ED-B1_0.0-0.1	ED-B1_0.4-0.5	ED-B1_0.9-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023637	M23-Fe0023640	M23-Fe0023641	M23-Fe0023642
Date Sampled			Feb 02, 2023	Feb 02, 2023	Feb 02, 2023	Feb 02, 2023
Test/Reference	LOR	Unit				
Cation Exchange Capacity						
Cation Exchange Capacity	0.05	meq/100g	-	26	-	-

Client Sample ID			ED-B2_0.0-0.1	ED-B2_0.2-0.3	ED-B3_0.0-0.1	ED-B3_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023644	M23-Fe0023645	M23-Fe0023647	M23-Fe0023648
Date Sampled			Feb 04, 2023	Feb 04, 2023	Feb 04, 2023	Feb 04, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	< 20	< 20	-
TRH C10-C14	20	mg/kg	-	< 20	< 20	-
TRH C15-C28	50	mg/kg	-	< 50	< 50	-
TRH C29-C36	50	mg/kg	-	< 50	< 50	-
TRH C10-C36 (Total)	50	mg/kg	-	< 50	< 50	-
TRH C6-C10	20	mg/kg	-	< 20	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	< 20	-
TRH >C10-C16	50	mg/kg	-	< 50	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	< 50	-
TRH >C16-C34	100	mg/kg	-	< 100	< 100	-
TRH >C34-C40	100	mg/kg	-	< 100	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	< 100	-
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	< 0.1	-
Toluene	0.1	mg/kg	-	< 0.1	< 0.1	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	< 0.1	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	< 0.2	-
o-Xylene	0.1	mg/kg	-	< 0.1	< 0.1	-
Xylenes - Total*	0.3	mg/kg	-	< 0.3	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	-	94	92	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	< 0.5	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	-
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-

Client Sample ID			ED-B2_0.0-0.1	ED-B2_0.2-0.3	ED-B3_0.0-0.1	ED-B3_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023644	M23-Fe0023645	M23-Fe0023647	M23-Fe0023648
Date Sampled			Feb 04, 2023	Feb 04, 2023	Feb 04, 2023	Feb 04, 2023
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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	%	110	81	101	-
p-Terphenyl-d14 (surr.)	1	%	127	97	97	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	< 0.1	-
4.4'-DDD	0.05	mg/kg	-	< 0.05	< 0.05	-
4.4'-DDE	0.05	mg/kg	-	< 0.05	< 0.05	-
4.4'-DDT	0.05	mg/kg	-	< 0.05	< 0.05	-
a-HCH	0.05	mg/kg	-	< 0.05	< 0.05	-
Aldrin	0.05	mg/kg	-	< 0.05	< 0.05	-
b-HCH	0.05	mg/kg	-	< 0.05	< 0.05	-
d-HCH	0.05	mg/kg	-	< 0.05	< 0.05	-
Dieldrin	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan I	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan II	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin ketone	0.05	mg/kg	-	< 0.05	< 0.05	-
g-HCH (Lindane)	0.05	mg/kg	-	< 0.05	< 0.05	-
Heptachlor	0.05	mg/kg	-	< 0.05	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	< 0.05	-
Methoxychlor	0.05	mg/kg	-	< 0.05	< 0.05	-
Toxaphene	0.5	mg/kg	-	< 0.5	< 0.5	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	< 0.1	-
Dibutylchlorendate (surr.)	1	%	-	91	92	-
Tetrachloro-m-xylene (surr.)	1	%	-	130	126	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1232	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1242	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1248	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1254	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1260	0.1	mg/kg	-	< 0.1	< 0.1	-
Total PCB*	0.1	mg/kg	-	< 0.1	< 0.1	-
Dibutylchlorendate (surr.)	1	%	-	91	92	-
Tetrachloro-m-xylene (surr.)	1	%	-	130	126	-
% Moisture	1	%	5.6	7.0	4.9	6.7

Client Sample ID			ED-B2_0.0-0.1	ED-B2_0.2-0.3	ED-B3_0.0-0.1	ED-B3_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023644	M23-Fe0023645	M23-Fe0023647	M23-Fe0023648
Date Sampled			Feb 04, 2023	Feb 04, 2023	Feb 04, 2023	Feb 04, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	11	4.5	5.9	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	17	18	17	14
Copper	5	mg/kg	25	16	9.0	< 5
Lead	5	mg/kg	16	12	9.0	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	19	21	11	7.9
Zinc	5	mg/kg	53	52	41	31

Client Sample ID			ED-B4_0.1-0.2	ED-B4_0.4-0.5	ED-B5_0.0-0.1	ED-B5_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023650	M23-Fe0023651	M23-Fe0023653	M23-Fe0023654
Date Sampled			Feb 04, 2023	Feb 04, 2023	Feb 02, 2023	Feb 02, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	< 20	< 20	-
TRH C10-C14	20	mg/kg	-	< 20	< 20	-
TRH C15-C28	50	mg/kg	-	< 50	< 50	-
TRH C29-C36	50	mg/kg	-	< 50	< 50	-
TRH C10-C36 (Total)	50	mg/kg	-	< 50	< 50	-
TRH C6-C10	20	mg/kg	-	< 20	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	< 20	-
TRH >C10-C16	50	mg/kg	-	< 50	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	< 50	-
TRH >C16-C34	100	mg/kg	-	< 100	< 100	-
TRH >C34-C40	100	mg/kg	-	< 100	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	< 100	-
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	< 0.1	-
Toluene	0.1	mg/kg	-	< 0.1	< 0.1	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	< 0.1	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	< 0.2	-
o-Xylene	0.1	mg/kg	-	< 0.1	< 0.1	-
Xylenes - Total*	0.3	mg/kg	-	< 0.3	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	-	81	95	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	< 0.5	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	1.2	-
Acenaphthene	0.5	mg/kg	-	< 0.5	< 0.5	-
Acenaphthylene	0.5	mg/kg	-	< 0.5	< 0.5	-
Anthracene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	< 0.5	-

Client Sample ID			ED-B4_0.1-0.2	ED-B4_0.4-0.5	ED-B5_0.0-0.1	ED-B5_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023650	M23-Fe0023651	M23-Fe0023653	M23-Fe0023654
Date Sampled			Feb 04, 2023	Feb 04, 2023	Feb 02, 2023	Feb 02, 2023
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	-
Chrysene	0.5	mg/kg	-	< 0.5	< 0.5	-
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	-
Fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	-
Fluorene	0.5	mg/kg	-	< 0.5	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Naphthalene	0.5	mg/kg	-	< 0.5	< 0.5	-
Phenanthrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Pyrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Total PAH*	0.5	mg/kg	-	< 0.5	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	-	85	71	-
p-Terphenyl-d14 (surr.)	1	%	-	108	89	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	< 0.1	-
4.4'-DDD	0.05	mg/kg	-	< 0.05	< 0.05	-
4.4'-DDE	0.05	mg/kg	-	< 0.05	< 0.05	-
4.4'-DDT	0.05	mg/kg	-	< 0.05	< 0.05	-
a-HCH	0.05	mg/kg	-	< 0.05	< 0.05	-
Aldrin	0.05	mg/kg	-	< 0.05	< 0.05	-
b-HCH	0.05	mg/kg	-	< 0.05	< 0.05	-
d-HCH	0.05	mg/kg	-	< 0.05	< 0.05	-
Dieldrin	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan I	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan II	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin ketone	0.05	mg/kg	-	< 0.05	< 0.05	-
g-HCH (Lindane)	0.05	mg/kg	-	< 0.05	< 0.05	-
Heptachlor	0.05	mg/kg	-	< 0.05	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	< 0.05	-
Methoxychlor	0.05	mg/kg	-	< 0.05	< 0.05	-
Toxaphene	0.5	mg/kg	-	< 0.5	< 0.5	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	< 0.1	-
Dibutylchlorendate (surr.)	1	%	-	81	56	-
Tetrachloro-m-xylene (surr.)	1	%	-	108	82	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1232	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1242	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1248	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1254	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1260	0.1	mg/kg	-	< 0.1	< 0.1	-

Client Sample ID			ED-B4_0.1-0.2	ED-B4_0.4-0.5	ED-B5_0.0-0.1	ED-B5_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023650	M23-Fe0023651	M23-Fe0023653	M23-Fe0023654
Date Sampled			Feb 04, 2023	Feb 04, 2023	Feb 02, 2023	Feb 02, 2023
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Total PCB*	0.1	mg/kg	-	< 0.1	< 0.1	-
Dibutylchlorendate (surr.)	1	%	-	81	56	-
Tetrachloro-m-xylene (surr.)	1	%	-	108	82	-
% Moisture	1	%	3.8	2.9	4.7	5.2
Heavy Metals						
Arsenic	2	mg/kg	< 2	< 2	< 2	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	7.7	7.4	7.7	7.6
Copper	5	mg/kg	< 5	< 5	< 5	< 5
Lead	5	mg/kg	< 5	< 5	< 5	< 5
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	< 5	< 5	< 5
Zinc	5	mg/kg	9.9	7.4	9.2	10

Client Sample ID			ED-B6_0.1-0.2	ED-B6_0.2-0.3	ED-B7_0.0-0.2	ED-B7_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023656	M23-Fe0023657	M23-Fe0023659	M23-Fe0023661
Date Sampled			Feb 02, 2023	Feb 02, 2023	Feb 04, 2023	Feb 04, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	< 20	< 20	-
TRH C10-C14	20	mg/kg	-	< 20	< 20	-
TRH C15-C28	50	mg/kg	-	< 50	< 50	-
TRH C29-C36	50	mg/kg	-	< 50	< 50	-
TRH C10-C36 (Total)	50	mg/kg	-	< 50	< 50	-
TRH C6-C10	20	mg/kg	-	< 20	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	< 20	-
TRH >C10-C16	50	mg/kg	-	< 50	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	< 50	-
TRH >C16-C34	100	mg/kg	-	< 100	< 100	-
TRH >C34-C40	100	mg/kg	-	< 100	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	< 100	-
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	< 0.1	-
Toluene	0.1	mg/kg	-	< 0.1	< 0.1	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	< 0.1	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	< 0.2	-
o-Xylene	0.1	mg/kg	-	< 0.1	< 0.1	-
Xylenes - Total*	0.3	mg/kg	-	< 0.3	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	-	87	97	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	< 0.5	-

Client Sample ID			ED-B6_0.1-0.2	ED-B6_0.2-0.3	ED-B7_0.0-0.2	ED-B7_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023656	M23-Fe0023657	M23-Fe0023659	M23-Fe0023661
Date Sampled			Feb 02, 2023	Feb 02, 2023	Feb 04, 2023	Feb 04, 2023
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	72	62	70
p-Terphenyl-d14 (surr.)	1	%	-	87	80	76
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	< 0.1	-
4.4'-DDD	0.05	mg/kg	-	< 0.05	< 0.05	-
4.4'-DDE	0.05	mg/kg	-	< 0.05	< 0.05	-
4.4'-DDT	0.05	mg/kg	-	< 0.05	< 0.05	-
a-HCH	0.05	mg/kg	-	< 0.05	< 0.05	-
Aldrin	0.05	mg/kg	-	< 0.05	< 0.05	-
b-HCH	0.05	mg/kg	-	< 0.05	< 0.05	-
d-HCH	0.05	mg/kg	-	< 0.05	< 0.05	-
Dieldrin	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan I	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan II	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin ketone	0.05	mg/kg	-	< 0.05	< 0.05	-
g-HCH (Lindane)	0.05	mg/kg	-	< 0.05	< 0.05	-
Heptachlor	0.05	mg/kg	-	< 0.05	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	< 0.05	-
Methoxychlor	0.05	mg/kg	-	< 0.05	< 0.05	-
Toxaphene	0.5	mg/kg	-	< 0.5	< 0.5	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.1	< 0.1	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.1	< 0.1	-
Dibutylchlorendate (surr.)	1	%	-	86	85	-
Tetrachloro-m-xylene (surr.)	1	%	-	64	53	-

Client Sample ID			ED-B6_0.1-0.2	ED-B6_0.2-0.3	ED-B7_0.0-0.2	ED-B7_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023656	M23-Fe0023657	M23-Fe0023659	M23-Fe0023661
Date Sampled			Feb 02, 2023	Feb 02, 2023	Feb 04, 2023	Feb 04, 2023
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1232	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1242	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1248	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1254	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1260	0.1	mg/kg	-	< 0.1	< 0.1	-
Total PCB*	0.1	mg/kg	-	< 0.1	< 0.1	-
Dibutylchlorendate (surr.)	1	%	-	86	85	-
Tetrachloro-m-xylene (surr.)	1	%	-	64	53	-
% Moisture	1	%	5.1	5.6	4.2	11
Heavy Metals						
Arsenic	2	mg/kg	< 2	3.4	69	4.7
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	1.1
Chromium	5	mg/kg	7.4	8.5	25	24
Copper	5	mg/kg	< 5	6.0	40	17
Lead	5	mg/kg	< 5	< 5	17	25
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	6.0	28	18
Zinc	5	mg/kg	11	14	77	130

Client Sample ID			ED-B8_0.0-0.2	ED-B8_0.3-0.4	ED-B8_0.8-1.0	ED-B9_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023662	M23-Fe0023663	M23-Fe0023665	M23-Fe0023667
Date Sampled			Feb 04, 2023	Feb 04, 2023	Feb 04, 2023	Feb 04, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	-	< 20	< 20	-
TRH C10-C14	20	mg/kg	-	< 20	< 20	-
TRH C15-C28	50	mg/kg	-	< 50	< 50	-
TRH C29-C36	50	mg/kg	-	150	< 50	-
TRH C10-C36 (Total)	50	mg/kg	-	150	< 50	-
TRH C6-C10	20	mg/kg	-	< 20	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	< 20	-
TRH >C10-C16	50	mg/kg	-	< 50	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	< 50	-
TRH >C16-C34	100	mg/kg	-	130	< 100	-
TRH >C34-C40	100	mg/kg	-	170	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	-	300	< 100	-
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	< 0.1	-
Toluene	0.1	mg/kg	-	< 0.1	< 0.1	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	< 0.1	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	< 0.2	-
o-Xylene	0.1	mg/kg	-	< 0.1	< 0.1	-
Xylenes - Total*	0.3	mg/kg	-	< 0.3	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	-	93	91	-

Client Sample ID			ED-B8_0.0-0.2	ED-B8_0.3-0.4	ED-B8_0.8-1.0	ED-B9_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023662	M23-Fe0023663	M23-Fe0023665	M23-Fe0023667
Date Sampled			Feb 04, 2023	Feb 04, 2023	Feb 04, 2023	Feb 04, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	< 0.5	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	66	74	78	75
p-Terphenyl-d14 (surr.)	1	%	84	76	82	81
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	0.3	< 0.1	-
4.4'-DDD	0.05	mg/kg	-	< 0.05	< 0.05	-
4.4'-DDE	0.05	mg/kg	-	< 0.05	< 0.05	-
4.4'-DDT	0.05	mg/kg	-	< 0.05	< 0.05	-
a-HCH	0.05	mg/kg	-	< 0.05	< 0.05	-
Aldrin	0.05	mg/kg	-	< 0.05	< 0.05	-
b-HCH	0.05	mg/kg	-	< 0.05	< 0.05	-
d-HCH	0.05	mg/kg	-	< 0.05	< 0.05	-
Dieldrin	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan I	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan II	0.05	mg/kg	-	< 0.05	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin aldehyde	0.05	mg/kg	-	< 0.05	< 0.05	-
Endrin ketone	0.05	mg/kg	-	< 0.05	< 0.05	-
g-HCH (Lindane)	0.05	mg/kg	-	< 0.05	< 0.05	-
Heptachlor	0.05	mg/kg	-	0.13	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	< 0.05	-
Methoxychlor	0.05	mg/kg	-	< 0.05	< 0.05	-
Toxaphene	0.5	mg/kg	-	< 0.5	< 0.5	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	0.43	< 0.1	-

Client Sample ID			ED-B8_0.0-0.2	ED-B8_0.3-0.4	ED-B8_0.8-1.0	ED-B9_0.0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023662	M23-Fe0023663	M23-Fe0023665	M23-Fe0023667
Date Sampled			Feb 04, 2023	Feb 04, 2023	Feb 04, 2023	Feb 04, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	0.43	< 0.1	-
Dibutylchlorendate (surr.)	1	%	-	89	92	-
Tetrachloro-m-xylene (surr.)	1	%	-	57	94	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1232	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1242	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1248	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1254	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1260	0.1	mg/kg	-	< 0.1	< 0.1	-
Total PCB*	0.1	mg/kg	-	< 0.1	< 0.1	-
Dibutylchlorendate (surr.)	1	%	-	89	92	-
Tetrachloro-m-xylene (surr.)	1	%	-	57	94	-
% Moisture	1	%	3.6	8.1	12	5.1
Heavy Metals						
Arsenic	2	mg/kg	110	7.7	3.9	2.5
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	17	29	35	12
Copper	5	mg/kg	24	26	16	12
Lead	5	mg/kg	12	37	19	33
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	22	19	27	7.1
Zinc	5	mg/kg	60	89	43	72

Client Sample ID			ED-B9_0.1-0.2	DUP01	DUP02	DUP03
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023669	M23-Fe0023674	M23-Fe0023675	M23-Fe0023676
Date Sampled			Feb 04, 2023	Feb 02, 2023	Feb 02, 2023	Feb 03, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	-	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	-	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	-	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	-	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	-	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	-	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	-	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	-	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	-	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	-	< 100

Client Sample ID			ED-B9_0.1-0.2	DUP01	DUP02	DUP03
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023669	M23-Fe0023674	M23-Fe0023675	M23-Fe0023676
Date Sampled			Feb 04, 2023	Feb 02, 2023	Feb 02, 2023	Feb 03, 2023
Test/Reference	LOR	Unit				
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	-	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	97	91	-	79
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	76	73	66	70
p-Terphenyl-d14 (surr.)	1	%	83	84	79	73
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
a-HCH	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05

Client Sample ID			ED-B9_0.1-0.2	DUP01	DUP02	DUP03
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023669	M23-Fe0023674	M23-Fe0023675	M23-Fe0023676
Date Sampled			Feb 04, 2023	Feb 02, 2023	Feb 02, 2023	Feb 03, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Dibutylchlorendate (surr.)	1	%	82	85	-	67
Tetrachloro-m-xylene (surr.)	1	%	53	58	-	53
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Total PCB*	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Dibutylchlorendate (surr.)	1	%	82	85	-	67
Tetrachloro-m-xylene (surr.)	1	%	53	58	-	53
% Moisture	1	%	4.3	6.1	8.5	5.5
Heavy Metals						
Arsenic	2	mg/kg	< 2	5.5	< 2	2.7
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	8.7	26	11	43
Copper	5	mg/kg	5.5	9.3	51	8.3
Lead	5	mg/kg	< 5	16	10.0	14
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	15	7.1	23
Zinc	5	mg/kg	11	47	18	44

Client Sample ID			DUP04	DUP06	Sspk3973	ED-B8_0.5-0.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023677	M23-Fe0023678	M23-Fe0023680	M23-Fe0024143
Date Sampled			Feb 03, 2023	Feb 03, 2023	Not Provided[I12]	Feb 02, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	-	-
TRH C10-C14	20	mg/kg	< 20	< 20	-	-
TRH C15-C28	50	mg/kg	< 50	59	-	-
TRH C29-C36	50	mg/kg	< 50	61	-	-
TRH C10-C36 (Total)	50	mg/kg	< 50	120	-	-
TRH C6-C10	20	mg/kg	< 20	< 20	-	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	-	-

Client Sample ID			DUP04	DUP06	Sspk3973	ED-B8_0.5-0.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023677	M23-Fe0023678	M23-Fe0023680	M23-Fe0024143
Date Sampled			Feb 03, 2023	Feb 03, 2023	Not Provided[I12]	Feb 02, 2023
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH >C10-C16	50	mg/kg	< 50	< 50	-	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	-	-
TRH >C16-C34	100	mg/kg	< 100	110	-	-
TRH >C34-C40	100	mg/kg	< 100	< 100	-	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	110	-	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	31	-
Toluene	0.1	mg/kg	< 0.1	< 0.1	37	-
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	28	-
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	30	-
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	50	-
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	37	-
4-Bromofluorobenzene (surr.)	1	%	82	70	95	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	-	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	-	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	-	-
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	-	-
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	-	-
Anthracene	0.5	mg/kg	< 0.5	< 0.5	-	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	-
Chrysene	0.5	mg/kg	< 0.5	< 0.5	-	-
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	-
Fluoranthene	0.5	mg/kg	< 0.5	0.8	-	-
Fluorene	0.5	mg/kg	< 0.5	< 0.5	-	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	-	-
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Pyrene	0.5	mg/kg	< 0.5	0.8	-	-
Total PAH*	0.5	mg/kg	< 0.5	1.6	-	-
2-Fluorobiphenyl (surr.)	1	%	97	100	-	-
p-Terphenyl-d14 (surr.)	1	%	91	86	-	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	-	-
4.4'-DDD	0.05	mg/kg	< 0.05	0.08	-	-
4.4'-DDE	0.05	mg/kg	< 0.05	0.07	-	-
4.4'-DDT	0.05	mg/kg	< 0.05	0.11	-	-
a-HCH	0.05	mg/kg	< 0.05	< 0.05	-	-
Aldrin	0.05	mg/kg	< 0.05	< 0.05	-	-
b-HCH	0.05	mg/kg	< 0.05	< 0.05	-	-
d-HCH	0.05	mg/kg	< 0.05	< 0.05	-	-
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	-	-

Client Sample ID			DUP04	DUP06	Sspk3973	ED-B8_0.5-0.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023677	M23-Fe0023678	M23-Fe0023680	M23-Fe0024143
Date Sampled			Feb 03, 2023	Feb 03, 2023	Not Provided[112]	Feb 02, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	-	-
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	-	-
Endrin	0.05	mg/kg	< 0.05	< 0.05	-	-
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	-	-
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	-	-
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	-	-
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	-	-
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	-	-
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	0.26	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	0.26	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	96	86	-	-
Tetrachloro-m-xylene (surr.)	1	%	119	99	-	-
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	< 0.1	< 0.1	-	-
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	-	-
Aroclor-1232	0.1	mg/kg	< 0.1	< 0.1	-	-
Aroclor-1242	0.1	mg/kg	< 0.1	< 0.1	-	-
Aroclor-1248	0.1	mg/kg	< 0.1	< 0.1	-	-
Aroclor-1254	0.1	mg/kg	< 0.1	< 0.1	-	-
Aroclor-1260	0.1	mg/kg	< 0.1	< 0.1	-	-
Total PCB*	0.1	mg/kg	< 0.1	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	96	86	-	-
Tetrachloro-m-xylene (surr.)	1	%	119	99	-	-
% Moisture	1	%	5.0	10	-	11
Heavy Metals						
Arsenic	2	mg/kg	4.8	7.6	-	4.3
Cadmium	0.4	mg/kg	1.3	3.0	-	< 0.4
Chromium	5	mg/kg	17	21	-	52
Copper	5	mg/kg	17	27	-	28
Lead	5	mg/kg	500	240	-	43
Mercury	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Nickel	5	mg/kg	12	16	-	31
Zinc	5	mg/kg	350	880	-	95
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1-Dichloroethene	0.5	mg/kg	-	< 0.5	-	-
1.1.1-Trichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.2-Trichloroethane	0.5	mg/kg	-	< 0.5	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	-	-
1.2-Dibromoethane	0.5	mg/kg	-	< 0.5	-	-

Client Sample ID			DUP04	DUP06	Sspk3973	ED-B8_0.5-0.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023677	M23-Fe0023678	M23-Fe0023680	M23-Fe0024143
Date Sampled			Feb 03, 2023	Feb 03, 2023	Not Provided[I12]	Feb 02, 2023
Test/Reference	LOR	Unit				
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	-	-
1.2.3-Trichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	-
1.3-Dichlorobenzene	0.5	mg/kg	-	< 0.5	-	-
1.3-Dichloropropane	0.5	mg/kg	-	< 0.5	-	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	< 0.5	-	-
1.4-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	-	-
4-Chlorotoluene	0.5	mg/kg	-	< 0.5	-	-
4-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-1.3-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	-	-
Isopropyl benzene (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*	0.3	mg/kg	-	< 0.3	-	-
Total MAH*	0.5	mg/kg	-	< 0.5	-	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	-	< 0.5	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	-	< 0.5	-	-

Client Sample ID			DUP04	DUP06	Sspk3973	ED-B8_0.5-0.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M23-Fe0023677	M23-Fe0023678	M23-Fe0023680	M23-Fe0024143
Date Sampled			Feb 03, 2023	Feb 03, 2023	Not Provided[I12]	Feb 02, 2023
Test/Reference	LOR	Unit				
Volatile Organics						
4-Bromofluorobenzene (surr.)	1	%	-	70	-	-
Toluene-d8 (surr.)	1	%	-	76	-	-

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
JBS&G Suite 2			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	Feb 14, 2023	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Feb 14, 2023	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Feb 14, 2023	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Melbourne	Feb 16, 2023	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			
Polycyclic Aromatic Hydrocarbons	Melbourne	Feb 14, 2023	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Organochlorine Pesticides	Melbourne	Feb 14, 2023	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8270)			
Polychlorinated Biphenyls	Melbourne	Feb 14, 2023	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8082)			
Metals M8	Melbourne	Feb 17, 2023	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
NEPM Screen for Soil Classification			
% Clay	Brisbane	Feb 16, 2023	14 Days
- Method: LTM-GEN-7040			
Conductivity (1:5 aqueous extract at 25 °C as rec.)	Melbourne	Feb 14, 2023	7 Days
- Method: LTM-INO-4030 Conductivity			
pH (units)(1:5 soil:CaCl2 extract at 25 °C as rec.)	Melbourne	Feb 14, 2023	7 Days
- Method: LTM-GEN-7090 pH in soil by ISE			
Total Organic Carbon	Melbourne	Feb 15, 2023	28 Days
- Method: LTM-INO-4060 Total Organic Carbon in water and soil			
Heavy Metals	Melbourne	Feb 14, 2023	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Cation Exchange Capacity	Melbourne	Feb 15, 2023	28 Days
- Method: LTM-MET-3060 Cation Exchange Capacity by bases & Exchangeable Sodium Percentage			
% Moisture	Melbourne	Feb 10, 2023	14 Days
- Method: LTM-GEN-7080 Moisture			
Eurofins Suite B8 (filtered metals)			
Volatile Organics	Melbourne	Feb 14, 2023	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices (USEPA 8260)			

eurofins

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

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261 Site# 25403

Sydney
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261 Site# 18217

Canberra
Unit 1,2 Dacre Street
Mitchell
ACT 2911
Tel: +61 2 6113 8091
NATA# 1261 Site# 25466

Brisbane
1/21 Smallwood Place
Murarrie
QLD 4172
Tel: +61 7 3902 4600
NATA# 1261 Site# 20794

Newcastle
1/2 Frost Drive
Mayfield West NSW 2304
Tel: +61 2 4968 8448
NATA# 1261
Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

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

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

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

Project Name: BHHR
Project ID: 63879

Order No.:
Report #: 962621
Phone: 02 8245 0300
Fax:

Received: Feb 9, 2023 10:22 AM
Due: Feb 16, 2023
Priority: 5 Day
Contact Name: Mitch Hodgins

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Hardness Set	Volatile Organics	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B8 (filtered metals)	JBS&G Suite 2	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
External Laboratory																		
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**													
1	KW-B1_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023564									X	X		X	
2	KW-B1_0.2-0.3	Feb 03, 2023		Soil	M23-Fe0023565				X	X				X				
3	KW-B1_0.0-0.5	Feb 03, 2023		Soil	M23-Fe0023566	X												
4	KW-B2_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023567									X			X	
5	KW-B2_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023568	X												
6	KW-B2_0.1-0.3	Feb 03, 2023		Soil	M23-Fe0023569			X										
7	KW-B2_0.3-	Feb 03, 2023		Soil	M23-Fe0023570									X			X	

eurofins

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

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261 Site# 25403

Sydney
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261 Site# 18217

Canberra
Unit 1,2 Dacre Street
Mitchell
ACT 2911
Tel: +61 2 6113 8091
NATA# 1261 Site# 25466

Brisbane
1/21 Smallwood Place
Murarrie
QLD 4172
Tel: +61 7 3902 4600
NATA# 1261 Site# 20794

Newcastle
1/2 Frost Drive
Mayfield West NSW 2304
Tel: +61 2 4968 8448
NATA# 1261
Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

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

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

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

Project Name: BHHR
Project ID: 63879

Order No.:
Report #: 962621
Phone: 02 8245 0300
Fax:

Received: Feb 9, 2023 10:22 AM
Due: Feb 16, 2023
Priority: 5 Day
Contact Name: Mitch Hodgins

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Hardness Set	Volatile Organics	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B8 (filtered metals)	JBS&G Suite 2	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	0.4																	
8	KW-B3_0.1-0.2	Feb 03, 2023		Soil	M23-Fe0023571								X	X			X	
9	KW-B3_0.25-0.3	Feb 03, 2023		Soil	M23-Fe0023572									X			X	
10	KW-B3_0.0-0.4	Feb 03, 2023		Soil	M23-Fe0023573	X												
11	KW-B3_0.0-0.4A	Feb 03, 2023		Building Materials	M23-Fe0023574		X											
12	KW-B4_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023575				X	X				X				
13	KW-B4_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023576	X												
14	KW-B4_0.1-0.3	Feb 03, 2023		Soil	M23-Fe0023577									X			X	
15	KW-B4_0.1-	Feb 03, 2023		Soil	M23-Fe0023578	X												

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

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261 Site# 25403

Sydney
179 Magowar Road
Girraween
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NATA# 1261 Site# 18217

Canberra
Unit 1,2 Dacre Street
Mitchell
ACT 2911
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NATA# 1261 Site# 25466

Brisbane
1/21 Smallwood Place
Murarrie
QLD 4172
Tel: +61 7 3902 4600
NATA# 1261 Site# 20794

Newcastle
1/2 Frost Drive
Mayfield West NSW 2304
Tel: +61 2 4968 8448
NATA# 1261
Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

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

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

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

Project Name: BHHR
Project ID: 63879

Order No.:
Report #: 962621
Phone: 02 8245 0300
Fax:

Received: Feb 9, 2023 10:22 AM
Due: Feb 16, 2023
Priority: 5 Day
Contact Name: Mitch Hodgins

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Hardness Set	Volatile Organics	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B8 (filtered metals)	JBS&G Suite 2	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	0.3																	
16	KW-B4_0.1-0.3A	Feb 03, 2023		Building Materials	M23-Fe0023579		X											
17	KW-B5_0.1-0.2	Feb 03, 2023		Soil	M23-Fe0023580									X	X		X	
18	KW-B5_0.4-0.5	Feb 03, 2023		Soil	M23-Fe0023581				X	X				X				
19	KW-B5_0.1-0.4	Feb 03, 2023		Soil	M23-Fe0023582	X												
20	KW-B5_0.4-1.0	Feb 03, 2023		Soil	M23-Fe0023583	X												
21	KW-B6_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023584				X	X				X				
22	KW-B6_0.5-0.6	Feb 03, 2023		Soil	M23-Fe0023585									X			X	
23	KW-B7_0.2-	Feb 03, 2023		Soil	M23-Fe0023586									X			X	

eurofins

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

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261 Site# 25403

Sydney
179 Magowar Road
Girraween
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Tel: +61 2 9900 8400
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Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

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

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

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NSW 2000

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Project ID: 63879

Order No.:
Report #: 962621
Phone: 02 8245 0300
Fax:

Received: Feb 9, 2023 10:22 AM
Due: Feb 16, 2023
Priority: 5 Day
Contact Name: Mitch Hodgins

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Hardness Set	Volatile Organics	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B8 (filtered metals)	JBS&G Suite 2	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	0.3																	
24	KW-B7_0.5-0.6	Feb 03, 2023		Soil	M23-Fe0023587				X	X				X				
25	KW-B7_0.0-0.6	Feb 03, 2023		Soil	M23-Fe0023588	X												
26	KW-B7_0.0-0.6A	Feb 03, 2023		Building Materials	M23-Fe0023589		X											
27	KW-B8_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023590									X			X	
28	KW-B8_0.2-0.4	Feb 03, 2023		Soil	M23-Fe0023591								X	X			X	
29	KW-B8_0.0-0.4	Feb 03, 2023		Soil	M23-Fe0023592	X												
30	MH-B1_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023594					X				X				
31	MH-B1_0.0-	Feb 03, 2023		Soil	M23-Fe0023595	X												

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

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261 Site# 25403

Sydney
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261 Site# 18217

Canberra
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Mitchell
ACT 2911
Tel: +61 2 6113 8091
NATA# 1261 Site# 25466

Brisbane
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Murarrie
QLD 4172
Tel: +61 7 3902 4600
NATA# 1261 Site# 20794

Newcastle
1/2 Frost Drive
Mayfield West NSW 2304
Tel: +61 2 4968 8448
NATA# 1261
Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

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

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

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Address: Level 1, 50 Margaret St
Sydney
NSW 2000

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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	0.1																	
32	MH-B1_0.1-0.2	Feb 03, 2023		Soil	M23-Fe0023596								X	X			X	
33	MH-B1_0.1-0.2	Feb 03, 2023		Soil	M23-Fe0023597	X												
34	MH-B1_0.2-0.3	Feb 03, 2023		Soil	M23-Fe0023598					X				X				
35	MH-B1_0.2-0.3	Feb 03, 2023		Soil	M23-Fe0023599	X												
36	MH-B2_0.2-0.3	Feb 03, 2023		Soil	M23-Fe0023600					X				X				
37	MH-B2_0.4-0.5	Feb 03, 2023		Soil	M23-Fe0023601									X			X	
38	MH-B2_0.2-0.8	Feb 03, 2023		Soil	M23-Fe0023602	X												
39	MH-B3_0.0-	Feb 03, 2023		Soil	M23-Fe0023603									X			X	

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

Melbourne
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Dandenong South
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ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
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Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
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Tel: 0800 856 450
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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	0.1																	
40	MH-B3_0.2-0.3	Feb 03, 2023		Soil	M23-Fe0023604					X				X				
41	MH-B3_0.8-1.0	Feb 03, 2023		Soil	M23-Fe0023605									X			X	
42	MH-B3_0.0-0.6	Feb 03, 2023		Soil	M23-Fe0023606	X												
43	MH-B3_0.8-1.0	Feb 03, 2023		Soil	M23-Fe0023607	X												
44	MH-B4_0.2-0.3	Feb 03, 2023		Soil	M23-Fe0023608									X			X	
45	MH-B4_0.6-0.7	Feb 03, 2023		Soil	M23-Fe0023609					X				X				
46	MH-B4_0.0-0.6	Feb 03, 2023		Soil	M23-Fe0023610	X												
47	MH-B5_0.0-	Feb 02, 2023		Soil	M23-Fe0023611					X				X				

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web: www.eurofins.com.au
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Melbourne
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Perth
46-48 Banksia Road
Welshpool
WA 6106
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NZBN: 9429046024954

Auckland
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Penrose,
Auckland 1061
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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	0.1																	
48	MH-B5_0.1-0.2	Feb 02, 2023		Soil	M23-Fe0023612									X			X	
49	MH-B5_0.4-0.5	Feb 02, 2023		Soil	M23-Fe0023613									X			X	
50	MH-B5_0.8-0.9	Feb 02, 2023		Soil	M23-Fe0023614					X				X				
51	MH-B5_0.0-0.9	Feb 02, 2023		Soil	M23-Fe0023615	X												
52	MH-B6_0.0-0.1	Feb 02, 2023		Soil	M23-Fe0023616								X	X			X	
53	MH-B6_0.2-0.3	Feb 02, 2023		Soil	M23-Fe0023617				X	X				X	X			
54	MH-B6_0.4-0.5	Feb 02, 2023		Soil	M23-Fe0023618					X				X				
55	MH-B6_0.0-	Feb 02, 2023		Soil	M23-Fe0023619	X												

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

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ABN: 50 005 085 521

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

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ABN: 91 05 0159 898

Perth
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Welshpool
WA 6106
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NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	0.6																	
56	MH-B7_0.0-0.1	Feb 02, 2023		Soil	M23-Fe0023620				X	X				X				
57	MH-B7_0.2-0.3	Feb 02, 2023		Soil	M23-Fe0023621									X			X	
58	MH-B7_0.9-1.0	Feb 02, 2023		Soil	M23-Fe0023622									X			X	
59	MH-B7_0.0-1.0	Feb 02, 2023		Soil	M23-Fe0023623	X												
60	MH-B8_0.1-0.2	Feb 02, 2023		Soil	M23-Fe0023624				X	X				X				
61	MH-B8_0.4-0.5	Feb 02, 2023		Soil	M23-Fe0023625									X			X	
62	MH-B8_0.5-0.6	Feb 02, 2023		Soil	M23-Fe0023626					X				X				
63	MH-B8_0.1-	Feb 02, 2023		Soil	M23-Fe0023627	X												

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

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261 Site# 25403

Sydney
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
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Mitchell
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NATA# 1261 Site# 25466

Brisbane
1/21 Smallwood Place
Murarrie
QLD 4172
Tel: +61 7 3902 4600
NATA# 1261 Site# 20794

Newcastle
1/2 Frost Drive
Mayfield West NSW 2304
Tel: +61 2 4968 8448
NATA# 1261
Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
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Welshpool
WA 6106
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Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	0.3																	
64	MH-B8_0.3-0.5	Feb 02, 2023		Soil	M23-Fe0023628	X												
65	MH-B9_0.0-0.1	Feb 02, 2023		Soil	M23-Fe0023629				X	X				X				
66	MH-B9_0.2-0.3	Feb 02, 2023		Soil	M23-Fe0023630									X			X	
67	MH-B9_0.9-1.0	Feb 02, 2023		Soil	M23-Fe0023631									X			X	
68	MH-B9_0.0-0.5	Feb 02, 2023		Soil	M23-Fe0023632	X												
69	MH-B10_0.0-0.2	Feb 02, 2023		Soil	M23-Fe0023633									X			X	
70	MH-B10_0.0-0.2	Feb 02, 2023		Soil	M23-Fe0023634	X												
71	MH-B10_0.0-	Feb 02, 2023		Building	M23-Fe0023635		X											

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web: www.eurofins.com.au
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Melbourne
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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	0.2A			Materials														
72	MH-B10_0.2-0.4	Feb 02, 2023		Soil	M23-Fe0023636									X			X	
73	MH-B10_0.5-0.6	Feb 02, 2023		Soil	M23-Fe0023637					X				X				
74	MH-B10_0.2-1.0	Feb 02, 2023		Soil	M23-Fe0023638	X												
75	MH-B10_0.2-1.0A	Feb 02, 2023		Building Materials	M23-Fe0023639		X											
76	ED-B1_0.0-0.1	Feb 02, 2023		Soil	M23-Fe0023640									X	X		X	
77	ED-B1_0.4-0.5	Feb 02, 2023		Soil	M23-Fe0023641				X	X				X				
78	ED-B1_0.9-1.0	Feb 02, 2023		Soil	M23-Fe0023642					X				X				
79	ED-B1_0.0-1.0	Feb 02, 2023		Soil	M23-Fe0023643	X												
80	ED-B2_0.0-0.1	Feb 04, 2023		Soil	M23-Fe0023644				X	X				X				
81	ED-B2_0.2-0.3	Feb 04, 2023		Soil	M23-Fe0023645									X			X	

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web: www.eurofins.com.au
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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
82	ED-B2_0.0-0.3	Feb 04, 2023		Soil	M23-Fe0023646	X												
83	ED-B3_0.0-0.1	Feb 04, 2023		Soil	M23-Fe0023647									X			X	
84	ED-B3_0.2-0.3	Feb 04, 2023		Soil	M23-Fe0023648					X				X				
85	ED-B3_0.0-0.7	Feb 04, 2023		Soil	M23-Fe0023649	X												
86	ED-B4_0.1-0.2	Feb 04, 2023		Soil	M23-Fe0023650					X				X				
87	ED-B4_0.4-0.5	Feb 04, 2023		Soil	M23-Fe0023651									X			X	
88	ED-B4_0.1-0.5	Feb 04, 2023		Soil	M23-Fe0023652	X												
89	ED-B5_0.0-0.1	Feb 02, 2023		Soil	M23-Fe0023653									X			X	
90	ED-B5_0.2-0.3	Feb 02, 2023		Soil	M23-Fe0023654					X				X				
91	ED-B5_0.0-0.3	Feb 02, 2023		Soil	M23-Fe0023655	X												
92	ED-B6_0.1-0.2	Feb 02, 2023		Soil	M23-Fe0023656					X				X				
93	ED-B6_0.2-0.3	Feb 02, 2023		Soil	M23-Fe0023657									X			X	
94	ED-B6_0.1-0.3	Feb 02, 2023		Soil	M23-Fe0023658	X												
95	ED-B7_0.0-0.2	Feb 04, 2023		Soil	M23-Fe0023659									X			X	

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

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261 Site# 25403

Sydney
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261 Site# 18217

Canberra
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Mitchell
ACT 2911
Tel: +61 2 6113 8091
NATA# 1261 Site# 25466

Brisbane
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Murarrie
QLD 4172
Tel: +61 7 3902 4600
NATA# 1261 Site# 20794

Newcastle
1/2 Frost Drive
Mayfield West NSW 2304
Tel: +61 2 4968 8448
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Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

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

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

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Sydney
NSW 2000

Project Name: BHHR
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Order No.:
Report #: 962621
Phone: 02 8245 0300
Fax:

Received: Feb 9, 2023 10:22 AM
Due: Feb 16, 2023
Priority: 5 Day
Contact Name: Mitch Hodgins

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Hardness Set	Volatile Organics	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B8 (filtered metals)	JBS&G Suite 2	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
96	ED-B7_0.0-0.2	Feb 04, 2023		Soil	M23-Fe0023660	X												
97	ED-B7_0.2-0.3	Feb 04, 2023		Soil	M23-Fe0023661				X	X				X				
98	ED-B8_0.0-0.2	Feb 04, 2023		Soil	M23-Fe0023662				X	X				X				
99	ED-B8_0.3-0.4	Feb 04, 2023		Soil	M23-Fe0023663									X			X	
100	ED-B8_0.8-1.0	Feb 04, 2023		Soil	M23-Fe0023665									X			X	
101	ED-B8_0.0-0.6	Feb 04, 2023		Soil	M23-Fe0023666	X												
102	ED-B9_0.0-0.1	Feb 04, 2023		Soil	M23-Fe0023667				X	X				X				
103	ED-B9_0.0-0.1	Feb 04, 2023		Soil	M23-Fe0023668	X												
104	ED-B9_0.1-0.2	Feb 04, 2023		Soil	M23-Fe0023669									X			X	
105	ED-B9_0.1-0.5	Feb 04, 2023		Soil	M23-Fe0023670	X												
106	GW01	Feb 05, 2023		Water	M23-Fe0023671							X				X		X
107	GW02	Feb 05, 2023		Water	M23-Fe0023672							X				X		X
108	GW03	Feb 05, 2023		Water	M23-Fe0023673							X				X		X
109	DUP01	Feb 02, 2023		Soil	M23-Fe0023674									X			X	

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

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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

Geelong
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Grovedale
VIC 3216
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Sydney
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Girraween
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Canberra
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Mitchell
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Brisbane
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Murarrie
QLD 4172
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Newcastle
1/2 Frost Drive
Mayfield West NSW 2304
Tel: +61 2 4968 8448
NATA# 1261
Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

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

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
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Tel: 0800 856 450
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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
110	DUP02	Feb 02, 2023		Soil	M23-Fe0023675				X	X				X				
111	DUP03	Feb 03, 2023		Soil	M23-Fe0023676									X			X	
112	DUP04	Feb 03, 2023		Soil	M23-Fe0023677									X			X	
113	DUP06	Feb 03, 2023		Soil	M23-Fe0023678								X	X			X	
114	DUP01	Feb 05, 2023		Water	M23-Fe0023679											X		X
115	Sspk3973	Not Provided		Soil	M23-Fe0023680						X							
116	Wsp8872	Not Provided		Water	M23-Fe0023681						X							
117	WTB01	Feb 05, 2023		Water	M23-Fe0023682						X							
118	STB01	Feb 05, 2023		Water	M23-Fe0023683						X							
119	KW-B1_0.4-0.5	Feb 03, 2023		Soil	M23-Fe0023684			X										
120	KW-B2_0.1-0.3	Feb 03, 2023		Soil	M23-Fe0023685	X												
121	KW-B3_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023686			X										

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

Melbourne
6 Monterey Road
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ABN: 91 05 0159 898

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Welshpool
WA 6106
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NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
122	KW-B3_0.3-0.4	Feb 03, 2023		Soil	M23-Fe0023687			X										
123	KW-B3_0.4-0.5	Feb 03, 2023		Soil	M23-Fe0023688			X										
124	KW-B4_0.3-0.4	Feb 03, 2023		Soil	M23-Fe0023689			X										
125	KW-B5_0.9-1.0	Feb 03, 2023		Soil	M23-Fe0023691			X										
126	KW-B6_0.2-0.3	Feb 03, 2023		Soil	M23-Fe0023692			X										
127	KW-B6_0.0-0.6	Feb 03, 2023		Soil	M23-Fe0023693			X										
128	KW-B7_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023694			X										
129	MH-B2_0.8-0.9	Feb 03, 2023		Soil	M23-Fe0023695			X										

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

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
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VIC 3175
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ABN: 91 05 0159 898

Perth
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Welshpool
WA 6106
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NATA# 2377 Site# 2370

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NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

Christchurch
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Rolleston,
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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
130	MH-B2_1.4-1.5	Feb 03, 2023		Soil	M23-Fe0023696			X										
131	MH-B3_0.5-0.6	Feb 03, 2023		Soil	M23-Fe0023697			X										
132	MH-B6_0.6-0.7	Feb 02, 2023		Soil	M23-Fe0023698			X										
133	MH-B7_0.4-0.5	Feb 02, 2023		Soil	M23-Fe0023699			X										
134	MH-B7_1.1-1.2	Feb 02, 2023		Soil	M23-Fe0023700			X										
135	MH-B8_0.9-1.0	Feb 02, 2023		Soil	M23-Fe0023701			X										
136	MH-B9_0.5-0.6	Feb 02, 2023		Soil	M23-Fe0023702			X										
137	MH-B10_1.0-1.1	Feb 02, 2023		Soil	M23-Fe0023703			X										

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

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
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NATA# 1261 Site# 25403

Sydney
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
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Welshpool
WA 6106
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Penrose,
Auckland 1061
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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
138	MH-B10_1.4-1.5	Feb 02, 2023		Soil	M23-Fe0023704			X										
139	ED-B1_0.2-0.3	Feb 02, 2023		Soil	M23-Fe0023705			X										
140	ED-B1_1.4-1.5	Feb 02, 2023		Soil	M23-Fe0023706			X										
141	ED-B1_1.9-2.0	Feb 02, 2023		Soil	M23-Fe0023707			X										
142	ED-B2_0.5-0.6	Feb 04, 2023		Soil	M23-Fe0023708			X										
143	ED-B3_0.5-0.6	Feb 04, 2023		Soil	M23-Fe0023709			X										
144	ED-B3_0.7-0.8	Feb 04, 2023		Soil	M23-Fe0023710			X										
145	ED-B4_0.5-0.6	Feb 04, 2023		Soil	M23-Fe0023711			X										
146	ED-B5_0.3-0.4	Feb 02, 2023		Soil	M23-Fe0023712			X										
147	ED-B5_0.9-1.0	Feb 02, 2023		Soil	M23-Fe0023713			X										
148	ED-B6_0.3-0.4	Feb 02, 2023		Soil	M23-Fe0023714			X										
149	ED-B6_0.9-1.0	Feb 02, 2023		Soil	M23-Fe0023715			X										
150	ED-B7_0.3-0.4	Feb 04, 2023		Soil	M23-Fe0023716			X										

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ABN: 50 005 085 521

Melbourne
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Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
151	ED-B7_0.5-0.65	Feb 04, 2023		Soil	M23-Fe0023717			X										
152	ED-B9_0.5-0.6	Feb 04, 2023		Soil	M23-Fe0023718			X										
153	DUP05	Feb 03, 2023		Soil	M23-Fe0023719			X										
154	DUP07	Feb 04, 2023		Soil	M23-Fe0023720			X										
155	DUP08	Feb 04, 2023		Soil	M23-Fe0023721			X										
156	WRB01	Not Provided		Water	M23-Fe0023722												X	
157	SRB01	Not Provided		Water	M23-Fe0023723												X	
158	SRB02	Not Provided		Water	M23-Fe0023724			X										
159	SRB03	Not Provided		Water	M23-Fe0023725			X										
160	ED_B6_0.3-1.0	Not Provided		Soil	M23-Fe0023726			X										
161	KW_B8_0.4-0.5	Not Provided		Building Materials	M23-Fe0023727			X										
162	UNLABELLED	Not Provided		Building	M23-Fe0023728			X										

eurofins

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Contact Name: Mitch Hodgins

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Hardness Set	Volatile Organics	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B8 (filtered metals)	JBS&G Suite 2	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	ASB BAG			Materials														
163	MH_B4_0.4-0.5	Not Provided		Soil	M23-Fe0023729			X										
164	KW_B2_0.5-0.7	Not Provided		Soil	M23-Fe0024121			X										
165	ED-B8_0.5-0.6	Feb 02, 2023		Soil	M23-Fe0024143					X				X				
Test Counts						35	5	44	15	31	4	3	5	71	4	4	42	4

Internal Quality Control Review and Glossary

General

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

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

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

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

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
µg/L: micrograms per litre
ppm: parts per million
ppb: parts per billion
%: Percentage
org/100 mL: Organisms per 100 millilitres
NTU: Nephelometric Turbidity Units
MPN/100 mL: Most Probable Number of organisms per 100 millilitres
CFU: Colony forming unit

Terms

APHA	American Public Health Association
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 5.4
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-HCH	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-HCH	mg/kg	< 0.05			0.05	Pass	
d-HCH	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-HCH (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.05			0.05	Pass	
Toxaphene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.1			0.1	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	Pass	
Aroclor-1232	mg/kg	< 0.1			0.1	Pass	
Aroclor-1242	mg/kg	< 0.1			0.1	Pass	
Aroclor-1248	mg/kg	< 0.1			0.1	Pass	
Aroclor-1254	mg/kg	< 0.1			0.1	Pass	
Aroclor-1260	mg/kg	< 0.1			0.1	Pass	
Total PCB*	mg/kg	< 0.1			0.1	Pass	
Method Blank							
Total Organic Carbon	%	< 0.1			0.1	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Iron	mg/kg	< 20			20	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
Method Blank							
Cation Exchange Capacity							
Cation Exchange Capacity	meq/100g	< 0.05			0.05	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
1.1.1-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.1.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dibromoethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichlorobenzene	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	
1.2.3-Trichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.4-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.3.5-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
2-Butanone (MEK)	mg/kg	< 0.5			0.5	Pass	
2-Propanone (Acetone)	mg/kg	< 0.5			0.5	Pass	
4-Chlorotoluene	mg/kg	< 0.5			0.5	Pass	
4-Methyl-2-pentanone (MIBK)	mg/kg	< 0.5			0.5	Pass	
Allyl chloride	mg/kg	< 0.5			0.5	Pass	
Benzene	mg/kg	< 0.1			0.1	Pass	
Bromobenzene	mg/kg	< 0.5			0.5	Pass	
Bromochloromethane	mg/kg	< 0.5			0.5	Pass	
Bromodichloromethane	mg/kg	< 0.5			0.5	Pass	
Bromoform	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 Tetrachloride	mg/kg	< 0.5			0.5	Pass	
Chlorobenzene	mg/kg	< 0.5			0.5	Pass	
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	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
Iodomethane	mg/kg	< 0.5			0.5	Pass	
Isopropyl benzene (Cumene)	mg/kg	< 0.5			0.5	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
Methylene Chloride	mg/kg	< 0.5			0.5	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Styrene	mg/kg	< 0.5			0.5	Pass	
Tetrachloroethene	mg/kg	< 0.5			0.5	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
trans-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Trichloroethene	mg/kg	< 0.5			0.5	Pass	
Trichlorofluoromethane	mg/kg	< 0.5			0.5	Pass	
Vinyl chloride	mg/kg	< 0.5			0.5	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	93			70-130	Pass	
TRH C10-C14	%	103			70-130	Pass	
TRH C6-C10	%	92			70-130	Pass	
TRH >C10-C16	%	104			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	90			70-130	Pass	
Toluene	%	89			70-130	Pass	
Ethylbenzene	%	89			70-130	Pass	
m&p-Xylenes	%	94			70-130	Pass	
Xylenes - Total*	%	92			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	96			70-130	Pass	
LCS - % Recovery							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	103			70-130	Pass	
Acenaphthylene	%	98			70-130	Pass	
Anthracene	%	91			70-130	Pass	
Benz(a)anthracene	%	113			70-130	Pass	
Benzo(a)pyrene	%	93			70-130	Pass	
Benzo(b&j)fluoranthene	%	100			70-130	Pass	
Benzo(g.h.i)perylene	%	103			70-130	Pass	
Benzo(k)fluoranthene	%	106			70-130	Pass	
Chrysene	%	118			70-130	Pass	
Dibenz(a.h)anthracene	%	72			70-130	Pass	
Fluoranthene	%	89			70-130	Pass	
Fluorene	%	97			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	86			70-130	Pass	
Naphthalene	%	130			70-130	Pass	
Phenanthrene	%	84			70-130	Pass	
Pyrene	%	101			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	105			70-130	Pass	
4.4'-DDD	%	124			70-130	Pass	
4.4'-DDE	%	124			70-130	Pass	
4.4'-DDT	%	79			70-130	Pass	
a-HCH	%	106			70-130	Pass	
Aldrin	%	127			70-130	Pass	
b-HCH	%	79			70-130	Pass	
d-HCH	%	97			70-130	Pass	
Dieldrin	%	93			70-130	Pass	
Endosulfan I	%	112			70-130	Pass	
Endosulfan II	%	111			70-130	Pass	
Endosulfan sulphate	%	96			70-130	Pass	
Endrin	%	102			70-130	Pass	
Endrin aldehyde	%	117			70-130	Pass	
Endrin ketone	%	109			70-130	Pass	
g-HCH (Lindane)	%	115			70-130	Pass	
Heptachlor	%	92			70-130	Pass	
Heptachlor epoxide	%	97			70-130	Pass	
Hexachlorobenzene	%	125			70-130	Pass	
Methoxychlor	%	80			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1260	%	87			70-130	Pass	
LCS - % Recovery							
% Clay	%	90			70-130	Pass	
Conductivity (1:5 aqueous extract at 25 °C as rec.)	%	95			70-130	Pass	
Total Organic Carbon	%	94			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	82			80-120	Pass	
Cadmium	%	105			80-120	Pass	
Chromium	%	89			80-120	Pass	
Copper	%	86			80-120	Pass	
Iron	%	97			80-120	Pass	
Lead	%	85			80-120	Pass	

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Mercury			%	105			80-120	Pass	
Nickel			%	85			80-120	Pass	
Zinc			%	89			80-120	Pass	
LCS - % Recovery									
Volatile Organics									
1.1-Dichloroethene			%	75			70-130	Pass	
1.1.1-Trichloroethane			%	77			70-130	Pass	
1.2-Dichlorobenzene			%	91			70-130	Pass	
1.2-Dichloroethane			%	89			70-130	Pass	
Trichloroethene			%	82			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	M23-Fe0028227	NCP	%	78			70-130	Pass	
4.4'-DDD	M23-Fe0028227	NCP	%	97			70-130	Pass	
4.4'-DDE	M23-Fe0028227	NCP	%	86			70-130	Pass	
4.4'-DDT	M23-Fe0028227	NCP	%	72			70-130	Pass	
a-HCH	M23-Fe0028227	NCP	%	87			70-130	Pass	
Aldrin	M23-Fe0028227	NCP	%	78			70-130	Pass	
b-HCH	M23-Fe0028227	NCP	%	92			70-130	Pass	
d-HCH	M23-Fe0028227	NCP	%	84			70-130	Pass	
Dieldrin	M23-Fe0028227	NCP	%	80			70-130	Pass	
Endosulfan I	M23-Fe0028227	NCP	%	89			70-130	Pass	
Endosulfan II	M23-Fe0028227	NCP	%	94			70-130	Pass	
Endosulfan sulphate	M23-Fe0028227	NCP	%	75			70-130	Pass	
Endrin	M23-Fe0028227	NCP	%	89			70-130	Pass	
Endrin aldehyde	M23-Fe0028227	NCP	%	82			70-130	Pass	
Endrin ketone	M23-Fe0028227	NCP	%	95			70-130	Pass	
g-HCH (Lindane)	M23-Fe0028227	NCP	%	86			70-130	Pass	
Heptachlor	M23-Fe0028227	NCP	%	80			70-130	Pass	
Heptachlor epoxide	M23-Fe0028227	NCP	%	71			70-130	Pass	
Hexachlorobenzene	M23-Fe0028227	NCP	%	81			70-130	Pass	
Methoxychlor	M23-Fe0028227	NCP	%	79			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1016	M23-Fe0031570	NCP	%	86			70-130	Pass	
Aroclor-1260	M23-Fe0031570	NCP	%	79			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Iron	M23-Fe0021198	NCP	%	102			75-125	Pass	
Spike - % Recovery									
Volatile Organics				Result 1					
1.1-Dichloroethene	M23-Fe0021421	NCP	%	84			70-130	Pass	
1.1.1-Trichloroethane	M23-Fe0021421	NCP	%	81			70-130	Pass	
1.2-Dichlorobenzene	M23-Fe0021421	NCP	%	91			70-130	Pass	
1.2-Dichloroethane	M23-Fe0021421	NCP	%	92			70-130	Pass	
Trichloroethene	M23-Fe0021421	NCP	%	85			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C10-C14	M23-Fe0023580	CP	%	106			70-130	Pass	
TRH >C10-C16	M23-Fe0023580	CP	%	108			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M23-Fe0023594	CP	%	111			75-125	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Cadmium	M23-Fe0023594	CP	%	108			75-125	Pass	
Chromium	M23-Fe0023594	CP	%	109			75-125	Pass	
Copper	M23-Fe0023594	CP	%	112			75-125	Pass	
Lead	M23-Fe0023594	CP	%	123			75-125	Pass	
Mercury	M23-Fe0023594	CP	%	116			75-125	Pass	
Nickel	M23-Fe0023594	CP	%	107			75-125	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M23-Fe0023611	CP	%	110			75-125	Pass	
Cadmium	M23-Fe0023611	CP	%	108			75-125	Pass	
Chromium	M23-Fe0023611	CP	%	122			75-125	Pass	
Copper	M23-Fe0023611	CP	%	109			75-125	Pass	
Lead	M23-Fe0023611	CP	%	111			75-125	Pass	
Mercury	M23-Fe0023611	CP	%	122			75-125	Pass	
Nickel	M23-Fe0023611	CP	%	118			75-125	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C10-C14	M23-Fe0023640	CP	%	81			70-130	Pass	
TRH >C10-C16	M23-Fe0023640	CP	%	96			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	M23-Fe0023665	CP	%	85			70-130	Pass	
TRH C6-C10	M23-Fe0023665	CP	%	85			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	M23-Fe0023665	CP	%	74			70-130	Pass	
Toluene	M23-Fe0023665	CP	%	80			70-130	Pass	
Ethylbenzene	M23-Fe0023665	CP	%	84			70-130	Pass	
m&p-Xylenes	M23-Fe0023665	CP	%	94			70-130	Pass	
o-Xylene	M23-Fe0023665	CP	%	85			70-130	Pass	
Xylenes - Total*	M23-Fe0023665	CP	%	91			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	M23-Fe0023665	CP	%	91			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M23-Fe0023675	CP	%	108			75-125	Pass	
Cadmium	M23-Fe0023675	CP	%	106			75-125	Pass	
Chromium	M23-Fe0023675	CP	%	109			75-125	Pass	
Copper	M23-Fe0023675	CP	%	126			75-125	Fail	Q08
Lead	M23-Fe0023675	CP	%	114			75-125	Pass	
Mercury	M23-Fe0023675	CP	%	100			75-125	Pass	
Nickel	M23-Fe0023675	CP	%	104			75-125	Pass	
Zinc	M23-Fe0023675	CP	%	102			75-125	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	M23-Fe0023676	CP	%	119			70-130	Pass	
Acenaphthylene	M23-Fe0023676	CP	%	98			70-130	Pass	
Anthracene	M23-Fe0023676	CP	%	82			70-130	Pass	
Benz(a)anthracene	M23-Fe0023676	CP	%	77			70-130	Pass	
Benzo(a)pyrene	M23-Fe0023676	CP	%	110			70-130	Pass	
Benzo(b&j)fluoranthene	M23-Fe0023676	CP	%	79			70-130	Pass	
Benzo(g.h.i)perylene	M23-Fe0023676	CP	%	91			70-130	Pass	
Benzo(k)fluoranthene	M23-Fe0023676	CP	%	114			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Chrysene	M23-Fe0023676	CP	%	118			70-130	Pass	
Dibenz(a.h)anthracene	M23-Fe0023676	CP	%	91			70-130	Pass	
Fluoranthene	M23-Fe0023676	CP	%	81			70-130	Pass	
Fluorene	M23-Fe0023676	CP	%	92			70-130	Pass	
Indeno(1.2.3-cd)pyrene	M23-Fe0023676	CP	%	104			70-130	Pass	
Naphthalene	M23-Fe0023676	CP	%	120			70-130	Pass	
Phenanthrene	M23-Fe0023676	CP	%	78			70-130	Pass	
Pyrene	M23-Fe0023676	CP	%	84			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
				Result 1	Result 2	RPD			
Conductivity (1:5 aqueous extract at 25 °C as rec.)	M23-Ja0033651	NCP	uS/cm	21	21	<1	30%	Pass	
% Moisture	B23-Fe0018622	NCP	%	23	23	<1	30%	Pass	
Duplicate									
Cation Exchange Capacity				Result 1	Result 2	RPD			
Cation Exchange Capacity	M23-Fe0027652	NCP	meq/100g	7.6	7.5	1.5	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	M23-Fe0023570	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10	M23-Fe0023570	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	M23-Fe0023570	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	M23-Fe0023570	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	M23-Fe0023570	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	M23-Fe0023570	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	M23-Fe0023570	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	M23-Fe0023570	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	M23-Fe0023570	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1-Dichloroethene	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1-Trichloroethane	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2-Trichloroethane	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromoethane	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichlorobenzene	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloroethane	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloropropane	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3-Trichloropropane	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trimethylbenzene	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichlorobenzene	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichloropropane	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3.5-Trimethylbenzene	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.4-Dichlorobenzene	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Butanone (MEK)	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Propanone (Acetone)	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chlorotoluene	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
Allyl chloride	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromobenzene	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromochloromethane	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromodichloromethane	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromoform	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromomethane	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon disulfide	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon Tetrachloride	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chlorobenzene	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroethane	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroform	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloromethane	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.2-Dichloroethene	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.3-Dichloropropene	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromochloromethane	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromomethane	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorodifluoromethane	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Iodomethane	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Isopropyl benzene (Cumene)	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Methylene Chloride	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Styrene	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Tetrachloroethene	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.2-Dichloroethene	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.3-Dichloropropene	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichloroethene	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichlorofluoromethane	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Vinyl chloride	M23-Fe0030804	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C10-C14	M23-Fe0023577	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	M23-Fe0023577	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	M23-Fe0023577	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C10-C16	M23-Fe0023577	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	M23-Fe0023577	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	M23-Fe0023577	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	M23-Fe0023577	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	M23-Fe0023577	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	M23-Fe0023577	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	M23-Fe0023577	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	M23-Fe0023577	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	M23-Fe0023577	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	M23-Fe0023577	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	M23-Fe0023577	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	M23-Fe0023577	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	M23-Fe0023577	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	M23-Fe0023577	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	M23-Fe0023577	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	M23-Fe0023577	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	M23-Fe0023577	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	M23-Fe0023577	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	M23-Fe0023577	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	M23-Fe0023577	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	M23-Fe0023577	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	M23-Fe0023577	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	M23-Fe0023577	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	M23-Fe0023577	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	M23-Fe0023577	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	M23-Fe0023577	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	M23-Fe0023577	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	M23-Fe0023577	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	M23-Fe0023577	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	M23-Fe0023577	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	M23-Fe0023577	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	M23-Fe0023577	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	M23-Fe0023577	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	M23-Fe0023577	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-HCH (Lindane)	M23-Fe0023577	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	M23-Fe0023577	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	M23-Fe0023577	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	M23-Fe0023577	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	M23-Fe0023577	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Toxaphene	M23-Fe0023577	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	M23-Fe0023577	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1221	M23-Fe0023577	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	M23-Fe0023577	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1242	M23-Fe0023577	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1248	M23-Fe0023577	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1254	M23-Fe0023577	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1260	M23-Fe0023577	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Total PCB*	M23-Fe0023577	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Iron (%)	M23-Fe0022604	NCP	%	4.3	4.2	2.3	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M23-Fe0023591	CP	mg/kg	5.0	5.1	1.3	30%	Pass	
Cadmium	M23-Fe0023591	CP	mg/kg	1.0	1.1	3.6	30%	Pass	
Chromium	M23-Fe0023591	CP	mg/kg	21	22	5.1	30%	Pass	
Copper	M23-Fe0023591	CP	mg/kg	23	24	2.3	30%	Pass	
Iron	M23-Fe0023591	CP	mg/kg	23000	24000	4.6	30%	Pass	
Lead	M23-Fe0023591	CP	mg/kg	250	250	2.5	30%	Pass	
Mercury	M23-Fe0023591	CP	mg/kg	0.1	0.1	14	30%	Pass	
Nickel	M23-Fe0023591	CP	mg/kg	13	13	4.3	30%	Pass	
Zinc	M23-Fe0023591	CP	mg/kg	490	510	2.7	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M23-Fe0023594	CP	mg/kg	3.5	3.5	<1	30%	Pass	
Cadmium	M23-Fe0023594	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M23-Fe0023594	CP	mg/kg	26	27	2.2	30%	Pass	
Copper	M23-Fe0023594	CP	mg/kg	23	24	1.1	30%	Pass	
Iron	M23-Fe0023594	CP	mg/kg	18000	18000	2.3	30%	Pass	
Lead	M23-Fe0023594	CP	mg/kg	42	43	<1	30%	Pass	
Mercury	M23-Fe0023594	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Nickel	M23-Fe0023594	CP	mg/kg	14	14	1.3	30%	Pass	
Zinc	M23-Fe0023594	CP	mg/kg	120	120	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	M23-Fe0023601	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10	M23-Fe0023601	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	M23-Fe0023601	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	M23-Fe0023601	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	M23-Fe0023601	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	M23-Fe0023601	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	M23-Fe0023601	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	M23-Fe0023601	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	M23-Fe0023601	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	M23-Fe0023603	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10	M23-Fe0023603	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	M23-Fe0023603	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	M23-Fe0023603	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	M23-Fe0023603	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	M23-Fe0023603	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	M23-Fe0023603	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	M23-Fe0023603	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	M23-Fe0023603	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M23-Fe0023609	CP	mg/kg	11	11	1.2	30%	Pass	
Cadmium	M23-Fe0023609	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M23-Fe0023609	CP	mg/kg	28	30	4.6	30%	Pass	
Copper	M23-Fe0023609	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Iron	M23-Fe0023609	CP	mg/kg	25000	26000	4.1	30%	Pass	
Lead	M23-Fe0023609	CP	mg/kg	11	12	2.5	30%	Pass	
Mercury	M23-Fe0023609	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	M23-Fe0023609	CP	mg/kg	15	16	2.8	30%	Pass	
Zinc	M23-Fe0023609	CP	mg/kg	61	64	4.8	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M23-Fe0023611	CP	mg/kg	32	31	1.0	30%	Pass	
Cadmium	M23-Fe0023611	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M23-Fe0023611	CP	mg/kg	19	19	<1	30%	Pass	
Copper	M23-Fe0023611	CP	mg/kg	42	42	<1	30%	Pass	
Iron	M23-Fe0023611	CP	mg/kg	22000	22000	1.1	30%	Pass	
Lead	M23-Fe0023611	CP	mg/kg	24	24	<1	30%	Pass	
Mercury	M23-Fe0023611	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	M23-Fe0023611	CP	mg/kg	24	24	<1	30%	Pass	
Zinc	M23-Fe0023611	CP	mg/kg	59	59	<1	30%	Pass	

Duplicate									
				Result 1	Result 2	RPD			
Total Organic Carbon	M23-Fe0023617	CP	%	0.4	< 0.1	200	30%	Fail	Q15
Duplicate									
				Result 1	Result 2	RPD			
Total Organic Carbon	M23-Fe0023640	CP	%	0.3	0.8	88	30%	Fail	Q15
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	M23-Fe0023663	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10	M23-Fe0023663	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	M23-Fe0023663	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	M23-Fe0023663	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	M23-Fe0023663	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	M23-Fe0023663	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	M23-Fe0023663	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	M23-Fe0023663	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	M23-Fe0023663	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C10-C14	M23-Fe0023669	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	M23-Fe0023669	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	M23-Fe0023669	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C10-C16	M23-Fe0023669	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	M23-Fe0023669	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	M23-Fe0023669	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	M23-Fe0023669	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	M23-Fe0023669	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	M23-Fe0023669	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	M23-Fe0023669	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	M23-Fe0023669	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	M23-Fe0023669	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	M23-Fe0023669	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	M23-Fe0023669	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	M23-Fe0023669	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	M23-Fe0023669	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	M23-Fe0023669	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	M23-Fe0023669	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	M23-Fe0023669	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	M23-Fe0023669	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	M23-Fe0023669	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	M23-Fe0023669	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	M23-Fe0023669	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	M23-Fe0023669	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	M23-Fe0023669	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	M23-Fe0023669	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	M23-Fe0023669	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	M23-Fe0023669	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	M23-Fe0023669	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	

Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
d-HCH	M23-Fe0023669	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	M23-Fe0023669	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	M23-Fe0023669	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	M23-Fe0023669	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	M23-Fe0023669	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	M23-Fe0023669	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	M23-Fe0023669	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	M23-Fe0023669	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-HCH (Lindane)	M23-Fe0023669	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	M23-Fe0023669	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	M23-Fe0023669	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	M23-Fe0023669	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	M23-Fe0023669	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Toxaphene	M23-Fe0023669	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	M23-Fe0023669	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1221	M23-Fe0023669	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	M23-Fe0023669	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1242	M23-Fe0023669	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1248	M23-Fe0023669	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1254	M23-Fe0023669	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1260	M23-Fe0023669	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Total PCB*	M23-Fe0023669	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M23-Fe0023675	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Cadmium	M23-Fe0023675	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M23-Fe0023675	CP	mg/kg	11	11	2.9	30%	Pass	
Copper	M23-Fe0023675	CP	mg/kg	51	51	1.7	30%	Pass	
Iron	M23-Fe0023675	CP	mg/kg	18000	19000	2.9	30%	Pass	
Lead	M23-Fe0023675	CP	mg/kg	10.0	10	2.0	30%	Pass	
Mercury	M23-Fe0023675	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	M23-Fe0023675	CP	mg/kg	7.1	7.2	1.2	30%	Pass	
Zinc	M23-Fe0023675	CP	mg/kg	18	19	2.6	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	N/A
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
I12	Where sampling date has not been provided, Eurofins | Environment Testing is not able to determine whether analysis has been performed within recommended holding times.
Q08	The matrix spike recovery is outside of the recommended acceptance criteria. An acceptable recovery was obtained for the laboratory control sample indicating a sample matrix interference.
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised by:

Adam Bateup	Analytical Services Manager
Sayeed Abu	Senior Analyst-Asbestos
Chamath JHM Annakkage	Senior Analyst-Asbestos
Joseph Edouard	Senior Analyst-Volatile
Mary Makarios	Senior Analyst-Metal
Linda Chouman	Senior Analyst-Sample Properties
Rhys Thomas	Senior Analyst-Asbestos
Joseph Edouard	Senior Analyst-Organic
Edward Lee	Senior Analyst-Organic
Jonathon Angell	Senior Analyst-Inorganic
Harry Bacalis	Senior Analyst-Volatile
Scott Beddoes	Senior Analyst-Inorganic
Carroll Lee	Senior Analyst-Volatile



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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

NATA Accredited
Accreditation Number 1261
Site Number 1254

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Attention: **Mitch Hodgins**

Report **962621-W**
Project name BHHR
Project ID 63879
Received Date Feb 09, 2023

Client Sample ID			**GW01**	**GW02**	**GW03**	**DUP01**
Sample Matrix			**Water**	**Water**	**Water**	**Water**
Eurofins Sample No.			**M23-Fe0023671**	**M23-Fe0023672**	**M23-Fe0023673**	**M23-Fe0023679**
Date Sampled			**Feb 05, 2023**	**Feb 05, 2023**	**Feb 05, 2023**	**Feb 05, 2023**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	0.02	mg/L	< 0.02	0.09	< 0.04	0.22
TRH C10-C14	0.05	mg/L	< 0.05	0.11	0.12	0.13
TRH C15-C28	0.1	mg/L	< 0.1	0.1	< 0.1	< 0.1
TRH C29-C36	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH C10-C36 (Total)	0.1	mg/L	< 0.1	0.21	0.12	0.13
TRH C6-C10	0.02	mg/L	< 0.02	0.10	< 0.04	0.21
TRH C6-C10 less BTEX (F1)[N04]	0.02	mg/L	< 0.02	0.06	< 0.04	0.05
TRH >C10-C16	0.05	mg/L	< 0.05	0.09	0.07	0.07
TRH >C10-C16 less Naphthalene (F2)[N01]	0.05	mg/L	< 0.05	0.09	0.07	0.07
TRH >C16-C34	0.1	mg/L	< 0.1	0.1	0.1	< 0.1
TRH >C34-C40	0.1	mg/L	< 0.1	< 0.1	< 0.1	< 0.1
TRH >C10-C40 (total)*	0.1	mg/L	< 0.1	0.19	0.17	< 0.1
Volatile Organics						
1.1-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
1.1-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
1.1.1-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
1.1.1.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
1.1.2-Trichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
1.1.2.2-Tetrachloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
1.2-Dibromoethane	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
1.2-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	0.014	0.27
1.2-Dichloroethane	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
1.2-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
1.2.3-Trichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
1.2.4-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
1.3-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
1.3-Dichloropropane	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
1.3.5-Trimethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
1.4-Dichlorobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.002	0.062
2-Butanone (MEK)	0.005	mg/L	< 0.005	< 0.005	< 0.01	< 0.01
2-Propanone (Acetone)	0.005	mg/L	< 0.005	< 0.005	< 0.01	< 0.01
4-Chlorotoluene	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
4-Methyl-2-pentanone (MIBK)	0.005	mg/L	< 0.005	< 0.005	< 0.01	< 0.01
Allyl chloride	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
Benzene	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002

Client Sample ID			GW01	GW02	GW03	DUP01
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M23-Fe0023671	M23-Fe0023672	M23-Fe0023673	M23-Fe0023679
Date Sampled			Feb 05, 2023	Feb 05, 2023	Feb 05, 2023	Feb 05, 2023
Test/Reference	LOR	Unit				
Volatile Organics						
Bromobenzene	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
Bromochloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
Bromodichloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
Bromoform	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
Bromomethane	0.005	mg/L	< 0.005	< 0.005	< 0.01	< 0.01
Carbon disulfide	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
Carbon Tetrachloride	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
Chlorobenzene	0.001	mg/L	< 0.001	< 0.001	0.002	0.045
Chloroethane	0.005	mg/L	< 0.005	< 0.005	< 0.01	< 0.01
Chloroform	0.005	mg/L	< 0.005	< 0.005	< 0.005	< 0.005
Chloromethane	0.005	mg/L	< 0.005	< 0.005	< 0.01	< 0.01
cis-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
cis-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
Dibromochloromethane	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
Dibromomethane	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
Dichlorodifluoromethane	0.005	mg/L	< 0.005	< 0.005	< 0.01	< 0.01
Ethylbenzene	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
Iodomethane	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
Isopropyl benzene (Cumene)	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
m&p-Xylenes	0.002	mg/L	< 0.002	< 0.002	< 0.004	< 0.004
Methylene Chloride	0.005	mg/L	< 0.005	< 0.005	< 0.01	< 0.01
o-Xylene	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
Styrene	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
Tetrachloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
Toluene	0.001	mg/L	0.006	0.040	0.007	0.16
trans-1.2-Dichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
trans-1.3-Dichloropropene	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
Trichloroethene	0.001	mg/L	< 0.001	< 0.001	< 0.002	< 0.002
Trichlorofluoromethane	0.005	mg/L	< 0.005	< 0.005	< 0.01	< 0.01
Vinyl chloride	0.005	mg/L	< 0.005	< 0.005	< 0.01	< 0.01
Xylenes - Total*	0.003	mg/L	< 0.003	< 0.003	< 0.006	< 0.006
Total MAH*	0.003	mg/L	0.006	0.04	0.007	0.16
Vic EPA IWRG 621 CHC (Total)*	0.005	mg/L	< 0.005	< 0.005	0.016	0.377
Vic EPA IWRG 621 Other CHC (Total)*	0.005	mg/L	< 0.005	< 0.005	0.016	0.377
4-Bromofluorobenzene (surr.)	1	%	106	109	115	102
Toluene-d8 (surr.)	1	%	98	101	108	108
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.01	mg/L	< 0.01	< 0.01	< 0.02	< 0.02
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Acenaphthylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benz(a)anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(a)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(g.h.i)perylene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Benzo(k)fluoranthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Chrysene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Dibenz(a.h)anthracene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001

Client Sample ID			GW01	GW02	GW03	DUP01
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M23-Fe0023671	M23-Fe0023672	M23-Fe0023673	M23-Fe0023679
Date Sampled			Feb 05, 2023	Feb 05, 2023	Feb 05, 2023	Feb 05, 2023
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Fluoranthene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Fluorene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Naphthalene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Phenanthrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Pyrene	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
Total PAH*	0.001	mg/L	< 0.001	< 0.001	< 0.001	< 0.001
2-Fluorobiphenyl (surr.)	1	%	54	65	71	56
p-Terphenyl-d14 (surr.)	1	%	63	76	93	62
Hardness mg equivalent CaCO3/L	5	mg/L	740	580	380	-
Alkali Metals						
Calcium	0.5	mg/L	110	110	67	-
Magnesium	0.5	mg/L	110	72	53	-
Heavy Metals						
Arsenic (filtered)	0.001	mg/L	< 0.001	0.003	< 0.001	< 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	0.017	0.085	0.008	0.008
Lead (filtered)	0.001	mg/L	< 0.001	0.002	< 0.001	< 0.001
Mercury (filtered)	0.0001	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nickel (filtered)	0.001	mg/L	0.017	0.20	0.012	0.012
Zinc (filtered)	0.005	mg/L	0.076	0.98	0.082	0.081
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	0.05	ug/L	0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA)[N11]	0.01	ug/L	0.02	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	[N09]0.01	< 0.01	< 0.01	< 0.01
Perfluorononanoic acid (PFNA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTrDA)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	62	91	73	75
13C5-PFPeA (surr.)	1	%	77	93	88	87
13C5-PFHxA (surr.)	1	%	84	97	94	99
13C4-PFHpA (surr.)	1	%	84	94	89	94
13C8-PFOA (surr.)	1	%	106	108	107	109
13C5-PFNA (surr.)	1	%	108	116	118	114
13C6-PFDA (surr.)	1	%	89	92	97	90
13C2-PFUnDA (surr.)	1	%	79	86	86	95
13C2-PFDoDA (surr.)	1	%	75	87	101	99
13C2-PFTeDA (surr.)	1	%	57	65	84	95

Client Sample ID			GW01	GW02	GW03	DUP01
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M23-Fe0023671	M23-Fe0023672	M23-Fe0023673	M23-Fe0023679
Date Sampled			Feb 05, 2023	Feb 05, 2023	Feb 05, 2023	Feb 05, 2023
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	112	100	111	115
D3-N-MeFOSA (surr.)	1	%	89	104	104	125
D5-N-EtFOSA (surr.)	1	%	90	104	120	134
D7-N-MeFOSE (surr.)	1	%	64	72	74	99
D9-N-EtFOSE (surr.)	1	%	77	96	107	120
D5-N-EtFOSAA (surr.)	1	%	54	59	69	63
D3-N-MeFOSAA (surr.)	1	%	55	68	71	75
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	0.03	0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.01	ug/L	0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	[N09]0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	[N09]0.07	[N09]0.04	[N09]0.02	[N09]0.03
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	[N09]0.07	[N09]0.04	[N09]0.13	[N09]0.28
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	90	97	100	100
18O2-PFHxS (surr.)	1	%	93	96	98	98
13C8-PFOS (surr.)	1	%	105	119	117	119
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	92	112	99	103
13C2-6:2 FTSA (surr.)	1	%	76	104	83	95
13C2-8:2 FTSA (surr.)	1	%	120	124	115	133
13C2-10:2 FTSA (surr.)	1	%	44	54	68	66
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	0.14	0.08	0.15	0.31
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	0.08	0.04	0.13	0.28
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	0.15	0.08	0.15	0.31
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	0.25	0.09	0.15	0.31
Sum of PFASs (n=30)*	0.1	ug/L	0.27	< 0.1	0.15	0.31

Client Sample ID			Wsp8872	WTB01	STB01	WRB01
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M23-Fe0023681	M23-Fe0023682	M23-Fe0023683	M23-Fe0023722
Date Sampled			Not Provided[I12]	Feb 05, 2023	Feb 05, 2023	Not Provided[I12]
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons						
TRH C6-C9	0.02	mg/L	-	-	-	< 0.02
TRH C10-C14	0.05	mg/L	-	-	-	< 0.05
TRH C15-C28	0.1	mg/L	-	-	-	< 0.1
TRH C29-C36	0.1	mg/L	-	-	-	< 0.1
TRH C10-C36 (Total)	0.1	mg/L	-	-	-	< 0.1
TRH C6-C10	0.02	mg/L	-	-	-	< 0.02
TRH C6-C10 less BTEX (F1)[N04]	0.02	mg/L	-	-	-	< 0.02
TRH >C10-C16	0.05	mg/L	-	-	-	< 0.05
TRH >C10-C16 less Naphthalene (F2)[N01]	0.05	mg/L	-	-	-	< 0.05
TRH >C16-C34	0.1	mg/L	-	-	-	< 0.1
TRH >C34-C40	0.1	mg/L	-	-	-	< 0.1
TRH >C10-C40 (total)*	0.1	mg/L	-	-	-	< 0.1
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.01	mg/L	-	-	-	< 0.01
Polycyclic Aromatic Hydrocarbons						
Acenaphthene	0.001	mg/L	-	-	-	< 0.001
Acenaphthylene	0.001	mg/L	-	-	-	< 0.001
Anthracene	0.001	mg/L	-	-	-	< 0.001
Benz(a)anthracene	0.001	mg/L	-	-	-	< 0.001
Benzo(a)pyrene	0.001	mg/L	-	-	-	< 0.001
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	-	-	-	< 0.001
Benzo(g.h.i)perylene	0.001	mg/L	-	-	-	< 0.001
Benzo(k)fluoranthene	0.001	mg/L	-	-	-	< 0.001
Chrysene	0.001	mg/L	-	-	-	< 0.001
Dibenz(a.h)anthracene	0.001	mg/L	-	-	-	< 0.001
Fluoranthene	0.001	mg/L	-	-	-	< 0.001
Fluorene	0.001	mg/L	-	-	-	< 0.001
Indeno(1.2.3-cd)pyrene	0.001	mg/L	-	-	-	< 0.001
Naphthalene	0.001	mg/L	-	-	-	< 0.001
Phenanthrene	0.001	mg/L	-	-	-	< 0.001
Pyrene	0.001	mg/L	-	-	-	< 0.001
Total PAH*	0.001	mg/L	-	-	-	< 0.001
2-Fluorobiphenyl (surr.)	1	%	-	-	-	56
p-Terphenyl-d14 (surr.)	1	%	-	-	-	68
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
BTEX						
Benzene	0.001	mg/L	75	< 0.001	< 0.001	< 0.001
Toluene	0.001	mg/L	67	< 0.001	< 0.001	< 0.001
Ethylbenzene	0.001	mg/L	60	< 0.001	< 0.001	< 0.001
m&p-Xylenes	0.002	mg/L	57	< 0.002	< 0.002	< 0.002

Client Sample ID			Wsp8872	WTB01	STB01	WRB01
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M23-Fe0023681	M23-Fe0023682	M23-Fe0023683	M23-Fe0023722
Date Sampled			Not Provided[I12]	Feb 05, 2023	Feb 05, 2023	Not Provided[I12]
Test/Reference	LOR	Unit				
BTEX						
o-Xylene	0.001	mg/L	71	< 0.001	< 0.001	< 0.001
Xylenes - Total*	0.003	mg/L	62	< 0.003	< 0.003	< 0.003
4-Bromofluorobenzene (surr.)	1	%	103	103	101	105
Organochlorine Pesticides						
Chlordanes - Total	0.002	mg/L	-	-	-	< 0.002
4.4'-DDD	0.0002	mg/L	-	-	-	< 0.0002
4.4'-DDE	0.0002	mg/L	-	-	-	< 0.0002
4.4'-DDT	0.0002	mg/L	-	-	-	< 0.0002
a-HCH	0.0002	mg/L	-	-	-	< 0.0002
Aldrin	0.0002	mg/L	-	-	-	< 0.0002
b-HCH	0.0002	mg/L	-	-	-	< 0.0002
d-HCH	0.0002	mg/L	-	-	-	< 0.0002
Dieldrin	0.0002	mg/L	-	-	-	< 0.0002
Endosulfan I	0.0002	mg/L	-	-	-	< 0.0002
Endosulfan II	0.0002	mg/L	-	-	-	< 0.0002
Endosulfan sulphate	0.0002	mg/L	-	-	-	< 0.0002
Endrin	0.0002	mg/L	-	-	-	< 0.0002
Endrin aldehyde	0.0002	mg/L	-	-	-	< 0.0002
Endrin ketone	0.0002	mg/L	-	-	-	< 0.0002
g-HCH (Lindane)	0.0002	mg/L	-	-	-	< 0.0002
Heptachlor	0.0002	mg/L	-	-	-	< 0.0002
Heptachlor epoxide	0.0002	mg/L	-	-	-	< 0.0002
Hexachlorobenzene	0.0002	mg/L	-	-	-	< 0.0002
Methoxychlor	0.0002	mg/L	-	-	-	< 0.0002
Toxaphene	0.005	mg/L	-	-	-	< 0.005
Aldrin and Dieldrin (Total)*	0.0002	mg/L	-	-	-	< 0.0002
DDT + DDE + DDD (Total)*	0.0002	mg/L	-	-	-	< 0.0002
Vic EPA IWRG 621 OCP (Total)*	0.002	mg/L	-	-	-	< 0.002
Vic EPA IWRG 621 Other OCP (Total)*	0.002	mg/L	-	-	-	< 0.002
Dibutylchlorendate (surr.)	1	%	-	-	-	50
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	67
Polychlorinated Biphenyls						
Aroclor-1016	0.005	mg/L	-	-	-	< 0.005
Aroclor-1221	0.005	mg/L	-	-	-	< 0.005
Aroclor-1232	0.005	mg/L	-	-	-	< 0.005
Aroclor-1242	0.005	mg/L	-	-	-	< 0.005
Aroclor-1248	0.005	mg/L	-	-	-	< 0.005
Aroclor-1254	0.005	mg/L	-	-	-	< 0.005
Aroclor-1260	0.005	mg/L	-	-	-	< 0.005
Total PCB*	0.005	mg/L	-	-	-	< 0.005
Dibutylchlorendate (surr.)	1	%	-	-	-	50
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	67

Client Sample ID			SRB01
Sample Matrix			Water
Eurofins Sample No.			M23-Fe0023723
Date Sampled			Not Provided[I12]
Test/Reference	LOR	Unit	
Total Recoverable Hydrocarbons			
TRH C6-C9	0.02	mg/L	< 0.02
TRH C10-C14	0.05	mg/L	< 0.05
TRH C15-C28	0.1	mg/L	< 0.1
TRH C29-C36	0.1	mg/L	< 0.1
TRH C10-C36 (Total)	0.1	mg/L	< 0.1
TRH C6-C10	0.02	mg/L	< 0.02
TRH C6-C10 less BTEX (F1)[N04]	0.02	mg/L	< 0.02
TRH >C10-C16	0.05	mg/L	< 0.05
TRH >C10-C16 less Naphthalene (F2)[N01]	0.05	mg/L	< 0.05
TRH >C16-C34	0.1	mg/L	< 0.1
TRH >C34-C40	0.1	mg/L	< 0.1
TRH >C10-C40 (total)*	0.1	mg/L	< 0.1
Total Recoverable Hydrocarbons - 2013 NEPM Fractions			
Naphthalene[N02]	0.01	mg/L	< 0.01
Polycyclic Aromatic Hydrocarbons			
Acenaphthene	0.001	mg/L	< 0.001
Acenaphthylene	0.001	mg/L	< 0.001
Anthracene	0.001	mg/L	< 0.001
Benz(a)anthracene	0.001	mg/L	< 0.001
Benzo(a)pyrene	0.001	mg/L	< 0.001
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	< 0.001
Benzo(g.h.i)perylene	0.001	mg/L	< 0.001
Benzo(k)fluoranthene	0.001	mg/L	< 0.001
Chrysene	0.001	mg/L	< 0.001
Dibenz(a.h)anthracene	0.001	mg/L	< 0.001
Fluoranthene	0.001	mg/L	< 0.001
Fluorene	0.001	mg/L	< 0.001
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001
Naphthalene	0.001	mg/L	< 0.001
Phenanthrene	0.001	mg/L	< 0.001
Pyrene	0.001	mg/L	< 0.001
Total PAH*	0.001	mg/L	< 0.001
2-Fluorobiphenyl (surr.)	1	%	58
p-Terphenyl-d14 (surr.)	1	%	73
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
BTEX			
Benzene	0.001	mg/L	< 0.001
Toluene	0.001	mg/L	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002

Client Sample ID			SRB01
Sample Matrix			Water
Eurofins Sample No.			M23-Fe0023723
Date Sampled			Not Provided[I12]
Test/Reference	LOR	Unit	
BTEX			
o-Xylene	0.001	mg/L	< 0.001
Xylenes - Total*	0.003	mg/L	< 0.003
4-Bromofluorobenzene (surr.)	1	%	83
Organochlorine Pesticides			
Chlordanes - Total	0.002	mg/L	< 0.002
4.4'-DDD	0.0002	mg/L	< 0.0002
4.4'-DDE	0.0002	mg/L	< 0.0002
4.4'-DDT	0.0002	mg/L	< 0.0002
a-HCH	0.0002	mg/L	< 0.0002
Aldrin	0.0002	mg/L	< 0.0002
b-HCH	0.0002	mg/L	< 0.0002
d-HCH	0.0002	mg/L	< 0.0002
Dieldrin	0.0002	mg/L	< 0.0002
Endosulfan I	0.0002	mg/L	< 0.0002
Endosulfan II	0.0002	mg/L	< 0.0002
Endosulfan sulphate	0.0002	mg/L	< 0.0002
Endrin	0.0002	mg/L	< 0.0002
Endrin aldehyde	0.0002	mg/L	< 0.0002
Endrin ketone	0.0002	mg/L	< 0.0002
g-HCH (Lindane)	0.0002	mg/L	< 0.0002
Heptachlor	0.0002	mg/L	< 0.0002
Heptachlor epoxide	0.0002	mg/L	< 0.0002
Hexachlorobenzene	0.0002	mg/L	< 0.0002
Methoxychlor	0.0002	mg/L	< 0.0002
Toxaphene	0.005	mg/L	< 0.005
Aldrin and Dieldrin (Total)*	0.0002	mg/L	< 0.0002
DDT + DDE + DDD (Total)*	0.0002	mg/L	< 0.0002
Vic EPA IWRG 621 OCP (Total)*	0.002	mg/L	< 0.002
Vic EPA IWRG 621 Other OCP (Total)*	0.002	mg/L	< 0.002
Dibutylchlorendate (surr.)	1	%	94
Tetrachloro-m-xylene (surr.)	1	%	72
Polychlorinated Biphenyls			
Aroclor-1016	0.005	mg/L	< 0.005
Aroclor-1221	0.005	mg/L	< 0.005
Aroclor-1232	0.005	mg/L	< 0.005
Aroclor-1242	0.005	mg/L	< 0.005
Aroclor-1248	0.005	mg/L	< 0.005
Aroclor-1254	0.005	mg/L	< 0.005
Aroclor-1260	0.005	mg/L	< 0.005
Total PCB*	0.005	mg/L	< 0.005
Dibutylchlorendate (surr.)	1	%	94
Tetrachloro-m-xylene (surr.)	1	%	72

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
JBS&G Suite 2			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	Feb 15, 2023	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Feb 15, 2023	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Feb 15, 2023	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons	Melbourne	Feb 15, 2023	7 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Metals M8	Melbourne	Feb 15, 2023	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
BTEX	Melbourne	Feb 15, 2023	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			
Organochlorine Pesticides	Melbourne	Feb 15, 2023	7 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8270)			
Polychlorinated Biphenyls	Melbourne	Feb 15, 2023	7 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8082)			
Eurofins Suite B8 (filtered metals)			
Volatile Organics	Melbourne	Feb 13, 2023	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices (USEPA 8260)			
Metals M8 filtered	Melbourne	Feb 13, 2023	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Hardness Set			
Hardness mg equivalent CaCO3/L	Melbourne	Feb 13, 2023	28 Days
- Method: APHA 2340B Hardness by Calculation			
Alkali Metals	Melbourne	Feb 13, 2023	180 Days
- Method: LTM-MET-3010 Alkali Metals Sulfur Silicon Phosphorus by ICP-AES			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Melbourne	Feb 13, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Melbourne	Feb 13, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Melbourne	Feb 13, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Melbourne	Feb 13, 2023	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
PFASs Summations	Melbourne	Feb 10, 2023	
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

eurofins

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

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261 Site# 25403

Sydney
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261 Site# 18217

Canberra
Unit 1,2 Dacre Street
Mitchell
ACT 2911
Tel: +61 2 6113 8091
NATA# 1261 Site# 25466

Brisbane
1/21 Smallwood Place
Murarrie
QLD 4172
Tel: +61 7 3902 4600
NATA# 1261 Site# 20794

Newcastle
1/2 Frost Drive
Mayfield West NSW 2304
Tel: +61 2 4968 8448
NATA# 1261
Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

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

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

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

Project Name: BHHR
Project ID: 63879

Order No.:
Report #: 962621
Phone: 02 8245 0300
Fax:

Received: Feb 9, 2023 10:22 AM
Due: Feb 16, 2023
Priority: 5 Day
Contact Name: Mitch Hodgins

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Hardness Set	Volatile Organics	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B8 (filtered metals)	JBS&G Suite 2	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
External Laboratory																		
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**													
1	KW-B1_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023564									X	X		X	
2	KW-B1_0.2-0.3	Feb 03, 2023		Soil	M23-Fe0023565				X	X				X				
3	KW-B1_0.0-0.5	Feb 03, 2023		Soil	M23-Fe0023566	X												
4	KW-B2_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023567									X			X	
5	KW-B2_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023568	X												
6	KW-B2_0.1-0.3	Feb 03, 2023		Soil	M23-Fe0023569			X										
7	KW-B2_0.3-	Feb 03, 2023		Soil	M23-Fe0023570									X			X	

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

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
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NATA# 1261 Site# 25403

Sydney
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
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Tel: +61 2 6113 8091
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Murarrie
QLD 4172
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NATA# 1261 Site# 20794

Newcastle
1/2 Frost Drive
Mayfield West NSW 2304
Tel: +61 2 4968 8448
NATA# 1261
Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	0.4																	
8	KW-B3_0.1-0.2	Feb 03, 2023		Soil	M23-Fe0023571								X	X			X	
9	KW-B3_0.25-0.3	Feb 03, 2023		Soil	M23-Fe0023572									X			X	
10	KW-B3_0.0-0.4	Feb 03, 2023		Soil	M23-Fe0023573	X												
11	KW-B3_0.0-0.4A	Feb 03, 2023		Building Materials	M23-Fe0023574		X											
12	KW-B4_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023575				X	X				X				
13	KW-B4_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023576	X												
14	KW-B4_0.1-0.3	Feb 03, 2023		Soil	M23-Fe0023577									X			X	
15	KW-B4_0.1-	Feb 03, 2023		Soil	M23-Fe0023578	X												

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web: www.eurofins.com.au
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Melbourne
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Mayfield West NSW 2304
Tel: +61 2 4968 8448
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ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	0.3																	
16	KW-B4_0.1-0.3A	Feb 03, 2023		Building Materials	M23-Fe0023579		X											
17	KW-B5_0.1-0.2	Feb 03, 2023		Soil	M23-Fe0023580									X	X		X	
18	KW-B5_0.4-0.5	Feb 03, 2023		Soil	M23-Fe0023581				X	X				X				
19	KW-B5_0.1-0.4	Feb 03, 2023		Soil	M23-Fe0023582	X												
20	KW-B5_0.4-1.0	Feb 03, 2023		Soil	M23-Fe0023583	X												
21	KW-B6_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023584				X	X				X				
22	KW-B6_0.5-0.6	Feb 03, 2023		Soil	M23-Fe0023585									X			X	
23	KW-B7_0.2-	Feb 03, 2023		Soil	M23-Fe0023586									X			X	

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web: www.eurofins.com.au
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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	0.3																	
24	KW-B7_0.5-0.6	Feb 03, 2023		Soil	M23-Fe0023587				X	X				X				
25	KW-B7_0.0-0.6	Feb 03, 2023		Soil	M23-Fe0023588	X												
26	KW-B7_0.0-0.6A	Feb 03, 2023		Building Materials	M23-Fe0023589		X											
27	KW-B8_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023590									X			X	
28	KW-B8_0.2-0.4	Feb 03, 2023		Soil	M23-Fe0023591								X	X			X	
29	KW-B8_0.0-0.4	Feb 03, 2023		Soil	M23-Fe0023592	X												
30	MH-B1_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023594					X				X				
31	MH-B1_0.0-	Feb 03, 2023		Soil	M23-Fe0023595	X												

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

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Melbourne
6 Monterey Road
Dandenong South
VIC 3175
Tel: +61 3 8564 5000
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Site# 25079 & 25289

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ABN: 91 05 0159 898

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Welshpool
WA 6106
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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	0.1																	
32	MH-B1_0.1-0.2	Feb 03, 2023		Soil	M23-Fe0023596								X	X			X	
33	MH-B1_0.1-0.2	Feb 03, 2023		Soil	M23-Fe0023597	X												
34	MH-B1_0.2-0.3	Feb 03, 2023		Soil	M23-Fe0023598					X				X				
35	MH-B1_0.2-0.3	Feb 03, 2023		Soil	M23-Fe0023599	X												
36	MH-B2_0.2-0.3	Feb 03, 2023		Soil	M23-Fe0023600					X				X				
37	MH-B2_0.4-0.5	Feb 03, 2023		Soil	M23-Fe0023601									X			X	
38	MH-B2_0.2-0.8	Feb 03, 2023		Soil	M23-Fe0023602	X												
39	MH-B3_0.0-	Feb 03, 2023		Soil	M23-Fe0023603									X			X	

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

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ABN: 50 005 085 521

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

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Grovedale
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Tel: +61 3 8564 5000
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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	0.1																	
40	MH-B3_0.2-0.3	Feb 03, 2023		Soil	M23-Fe0023604					X				X				
41	MH-B3_0.8-1.0	Feb 03, 2023		Soil	M23-Fe0023605									X			X	
42	MH-B3_0.0-0.6	Feb 03, 2023		Soil	M23-Fe0023606	X												
43	MH-B3_0.8-1.0	Feb 03, 2023		Soil	M23-Fe0023607	X												
44	MH-B4_0.2-0.3	Feb 03, 2023		Soil	M23-Fe0023608									X			X	
45	MH-B4_0.6-0.7	Feb 03, 2023		Soil	M23-Fe0023609					X				X				
46	MH-B4_0.0-0.6	Feb 03, 2023		Soil	M23-Fe0023610	X												
47	MH-B5_0.0-	Feb 02, 2023		Soil	M23-Fe0023611					X				X				

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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	0.1																	
48	MH-B5_0.1-0.2	Feb 02, 2023		Soil	M23-Fe0023612									X			X	
49	MH-B5_0.4-0.5	Feb 02, 2023		Soil	M23-Fe0023613									X			X	
50	MH-B5_0.8-0.9	Feb 02, 2023		Soil	M23-Fe0023614					X				X				
51	MH-B5_0.0-0.9	Feb 02, 2023		Soil	M23-Fe0023615	X												
52	MH-B6_0.0-0.1	Feb 02, 2023		Soil	M23-Fe0023616								X	X			X	
53	MH-B6_0.2-0.3	Feb 02, 2023		Soil	M23-Fe0023617				X	X				X	X			
54	MH-B6_0.4-0.5	Feb 02, 2023		Soil	M23-Fe0023618					X				X				
55	MH-B6_0.0-	Feb 02, 2023		Soil	M23-Fe0023619	X												

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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	0.6																	
56	MH-B7_0.0-0.1	Feb 02, 2023		Soil	M23-Fe0023620				X	X				X				
57	MH-B7_0.2-0.3	Feb 02, 2023		Soil	M23-Fe0023621									X			X	
58	MH-B7_0.9-1.0	Feb 02, 2023		Soil	M23-Fe0023622									X			X	
59	MH-B7_0.0-1.0	Feb 02, 2023		Soil	M23-Fe0023623	X												
60	MH-B8_0.1-0.2	Feb 02, 2023		Soil	M23-Fe0023624				X	X				X				
61	MH-B8_0.4-0.5	Feb 02, 2023		Soil	M23-Fe0023625									X			X	
62	MH-B8_0.5-0.6	Feb 02, 2023		Soil	M23-Fe0023626					X				X				
63	MH-B8_0.1-	Feb 02, 2023		Soil	M23-Fe0023627	X												

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

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261 Site# 25403

Sydney
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261 Site# 18217

Canberra
Unit 1,2 Dacre Street
Mitchell
ACT 2911
Tel: +61 2 6113 8091
NATA# 1261 Site# 25466

Brisbane
1/21 Smallwood Place
Murarrie
QLD 4172
Tel: +61 7 3902 4600
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Newcastle
1/2 Frost Drive
Mayfield West NSW 2304
Tel: +61 2 4968 8448
NATA# 1261
Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

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

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

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

Project Name: BHHR
Project ID: 63879

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Phone: 02 8245 0300
Fax:

Received: Feb 9, 2023 10:22 AM
Due: Feb 16, 2023
Priority: 5 Day
Contact Name: Mitch Hodgins

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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	0.3																	
64	MH-B8_0.3-0.5	Feb 02, 2023		Soil	M23-Fe0023628	X												
65	MH-B9_0.0-0.1	Feb 02, 2023		Soil	M23-Fe0023629				X	X				X				
66	MH-B9_0.2-0.3	Feb 02, 2023		Soil	M23-Fe0023630									X			X	
67	MH-B9_0.9-1.0	Feb 02, 2023		Soil	M23-Fe0023631									X			X	
68	MH-B9_0.0-0.5	Feb 02, 2023		Soil	M23-Fe0023632	X												
69	MH-B10_0.0-0.2	Feb 02, 2023		Soil	M23-Fe0023633									X			X	
70	MH-B10_0.0-0.2	Feb 02, 2023		Soil	M23-Fe0023634	X												
71	MH-B10_0.0-	Feb 02, 2023		Building	M23-Fe0023635		X											

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

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261 Site# 25403

Sydney
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
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Canberra
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ACT 2911
Tel: +61 2 6113 8091
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Brisbane
1/21 Smallwood Place
Murarrie
QLD 4172
Tel: +61 7 3902 4600
NATA# 1261 Site# 20794

Newcastle
1/2 Frost Drive
Mayfield West NSW 2304
Tel: +61 2 4968 8448
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Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

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

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	0.2A			Materials														
72	MH-B10_0.2-0.4	Feb 02, 2023		Soil	M23-Fe0023636									X			X	
73	MH-B10_0.5-0.6	Feb 02, 2023		Soil	M23-Fe0023637					X				X				
74	MH-B10_0.2-1.0	Feb 02, 2023		Soil	M23-Fe0023638	X												
75	MH-B10_0.2-1.0A	Feb 02, 2023		Building Materials	M23-Fe0023639		X											
76	ED-B1_0.0-0.1	Feb 02, 2023		Soil	M23-Fe0023640									X	X		X	
77	ED-B1_0.4-0.5	Feb 02, 2023		Soil	M23-Fe0023641				X	X				X				
78	ED-B1_0.9-1.0	Feb 02, 2023		Soil	M23-Fe0023642					X				X				
79	ED-B1_0.0-1.0	Feb 02, 2023		Soil	M23-Fe0023643	X												
80	ED-B2_0.0-0.1	Feb 04, 2023		Soil	M23-Fe0023644				X	X				X				
81	ED-B2_0.2-0.3	Feb 04, 2023		Soil	M23-Fe0023645									X			X	

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web: www.eurofins.com.au
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Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
Grovedale
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Sydney
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
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Canberra
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Brisbane
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Murarrie
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Newcastle
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Mayfield West NSW 2304
Tel: +61 2 4968 8448
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Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

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

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NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
82	ED-B2_0.0-0.3	Feb 04, 2023		Soil	M23-Fe0023646	X												
83	ED-B3_0.0-0.1	Feb 04, 2023		Soil	M23-Fe0023647									X			X	
84	ED-B3_0.2-0.3	Feb 04, 2023		Soil	M23-Fe0023648					X				X				
85	ED-B3_0.0-0.7	Feb 04, 2023		Soil	M23-Fe0023649	X												
86	ED-B4_0.1-0.2	Feb 04, 2023		Soil	M23-Fe0023650					X				X				
87	ED-B4_0.4-0.5	Feb 04, 2023		Soil	M23-Fe0023651									X			X	
88	ED-B4_0.1-0.5	Feb 04, 2023		Soil	M23-Fe0023652	X												
89	ED-B5_0.0-0.1	Feb 02, 2023		Soil	M23-Fe0023653									X			X	
90	ED-B5_0.2-0.3	Feb 02, 2023		Soil	M23-Fe0023654					X				X				
91	ED-B5_0.0-0.3	Feb 02, 2023		Soil	M23-Fe0023655	X												
92	ED-B6_0.1-0.2	Feb 02, 2023		Soil	M23-Fe0023656					X				X				
93	ED-B6_0.2-0.3	Feb 02, 2023		Soil	M23-Fe0023657									X			X	
94	ED-B6_0.1-0.3	Feb 02, 2023		Soil	M23-Fe0023658	X												
95	ED-B7_0.0-0.2	Feb 04, 2023		Soil	M23-Fe0023659									X			X	

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web: www.eurofins.com.au
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Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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

Geelong
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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
96	ED-B7_0.0-0.2	Feb 04, 2023		Soil	M23-Fe0023660	X												
97	ED-B7_0.2-0.3	Feb 04, 2023		Soil	M23-Fe0023661				X	X				X				
98	ED-B8_0.0-0.2	Feb 04, 2023		Soil	M23-Fe0023662				X	X				X				
99	ED-B8_0.3-0.4	Feb 04, 2023		Soil	M23-Fe0023663									X			X	
100	ED-B8_0.8-1.0	Feb 04, 2023		Soil	M23-Fe0023665									X			X	
101	ED-B8_0.0-0.6	Feb 04, 2023		Soil	M23-Fe0023666	X												
102	ED-B9_0.0-0.1	Feb 04, 2023		Soil	M23-Fe0023667				X	X				X				
103	ED-B9_0.0-0.1	Feb 04, 2023		Soil	M23-Fe0023668	X												
104	ED-B9_0.1-0.2	Feb 04, 2023		Soil	M23-Fe0023669									X			X	
105	ED-B9_0.1-0.5	Feb 04, 2023		Soil	M23-Fe0023670	X												
106	GW01	Feb 05, 2023		Water	M23-Fe0023671							X				X		X
107	GW02	Feb 05, 2023		Water	M23-Fe0023672							X				X		X
108	GW03	Feb 05, 2023		Water	M23-Fe0023673							X				X		X
109	DUP01	Feb 02, 2023		Soil	M23-Fe0023674									X			X	

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

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Sydney
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NSW 2145
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Brisbane
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QLD 4172
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NATA# 1261 Site# 20794

Newcastle
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Tel: +61 2 4968 8448
NATA# 1261
Site# 25079 & 25289

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ABN: 91 05 0159 898

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Welshpool
WA 6106
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NATA# 2377 Site# 2370

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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
110	DUP02	Feb 02, 2023		Soil	M23-Fe0023675				X	X				X				
111	DUP03	Feb 03, 2023		Soil	M23-Fe0023676									X			X	
112	DUP04	Feb 03, 2023		Soil	M23-Fe0023677									X			X	
113	DUP06	Feb 03, 2023		Soil	M23-Fe0023678								X	X			X	
114	DUP01	Feb 05, 2023		Water	M23-Fe0023679											X		X
115	Sspk3973	Not Provided		Soil	M23-Fe0023680						X							
116	Wsp8872	Not Provided		Water	M23-Fe0023681						X							
117	WTB01	Feb 05, 2023		Water	M23-Fe0023682						X							
118	STB01	Feb 05, 2023		Water	M23-Fe0023683						X							
119	KW-B1_0.4-0.5	Feb 03, 2023		Soil	M23-Fe0023684			X										
120	KW-B2_0.1-0.3	Feb 03, 2023		Soil	M23-Fe0023685	X												
121	KW-B3_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023686			X										

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Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
122	KW-B3_0.3-0.4	Feb 03, 2023		Soil	M23-Fe0023687			X										
123	KW-B3_0.4-0.5	Feb 03, 2023		Soil	M23-Fe0023688			X										
124	KW-B4_0.3-0.4	Feb 03, 2023		Soil	M23-Fe0023689			X										
125	KW-B5_0.9-1.0	Feb 03, 2023		Soil	M23-Fe0023691			X										
126	KW-B6_0.2-0.3	Feb 03, 2023		Soil	M23-Fe0023692			X										
127	KW-B6_0.0-0.6	Feb 03, 2023		Soil	M23-Fe0023693			X										
128	KW-B7_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023694			X										
129	MH-B2_0.8-0.9	Feb 03, 2023		Soil	M23-Fe0023695			X										

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Tel: +61 8 6253 4444
NATA# 2377 Site# 2370

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

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

Project Name: BHHR
Project ID: 63879

Order No.:
Report #: 962621
Phone: 02 8245 0300
Fax:

Received: Feb 9, 2023 10:22 AM
Due: Feb 16, 2023
Priority: 5 Day
Contact Name: Mitch Hodgins

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Hardness Set	Volatile Organics	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B8 (filtered metals)	JBS&G Suite 2	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
130	MH-B2_1.4-1.5	Feb 03, 2023		Soil	M23-Fe0023696			X										
131	MH-B3_0.5-0.6	Feb 03, 2023		Soil	M23-Fe0023697			X										
132	MH-B6_0.6-0.7	Feb 02, 2023		Soil	M23-Fe0023698			X										
133	MH-B7_0.4-0.5	Feb 02, 2023		Soil	M23-Fe0023699			X										
134	MH-B7_1.1-1.2	Feb 02, 2023		Soil	M23-Fe0023700			X										
135	MH-B8_0.9-1.0	Feb 02, 2023		Soil	M23-Fe0023701			X										
136	MH-B9_0.5-0.6	Feb 02, 2023		Soil	M23-Fe0023702			X										
137	MH-B10_1.0-1.1	Feb 02, 2023		Soil	M23-Fe0023703			X										

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

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261 Site# 25403

Sydney
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261 Site# 18217

Canberra
Unit 1,2 Dacre Street
Mitchell
ACT 2911
Tel: +61 2 6113 8091
NATA# 1261 Site# 25466

Brisbane
1/21 Smallwood Place
Murarrie
QLD 4172
Tel: +61 7 3902 4600
NATA# 1261 Site# 20794

Newcastle
1/2 Frost Drive
Mayfield West NSW 2304
Tel: +61 2 4968 8448
NATA# 1261
Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

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

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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
138	MH-B10_1.4-1.5	Feb 02, 2023		Soil	M23-Fe0023704			X										
139	ED-B1_0.2-0.3	Feb 02, 2023		Soil	M23-Fe0023705			X										
140	ED-B1_1.4-1.5	Feb 02, 2023		Soil	M23-Fe0023706			X										
141	ED-B1_1.9-2.0	Feb 02, 2023		Soil	M23-Fe0023707			X										
142	ED-B2_0.5-0.6	Feb 04, 2023		Soil	M23-Fe0023708			X										
143	ED-B3_0.5-0.6	Feb 04, 2023		Soil	M23-Fe0023709			X										
144	ED-B3_0.7-0.8	Feb 04, 2023		Soil	M23-Fe0023710			X										
145	ED-B4_0.5-0.6	Feb 04, 2023		Soil	M23-Fe0023711			X										
146	ED-B5_0.3-0.4	Feb 02, 2023		Soil	M23-Fe0023712			X										
147	ED-B5_0.9-1.0	Feb 02, 2023		Soil	M23-Fe0023713			X										
148	ED-B6_0.3-0.4	Feb 02, 2023		Soil	M23-Fe0023714			X										
149	ED-B6_0.9-1.0	Feb 02, 2023		Soil	M23-Fe0023715			X										
150	ED-B7_0.3-0.4	Feb 04, 2023		Soil	M23-Fe0023716			X										

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

Melbourne
6 Monterey Road
Dandenong South
VIC 3175
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Geelong
19/8 Lewalan Street
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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
151	ED-B7_0.5-0.65	Feb 04, 2023		Soil	M23-Fe0023717			X										
152	ED-B9_0.5-0.6	Feb 04, 2023		Soil	M23-Fe0023718			X										
153	DUP05	Feb 03, 2023		Soil	M23-Fe0023719			X										
154	DUP07	Feb 04, 2023		Soil	M23-Fe0023720			X										
155	DUP08	Feb 04, 2023		Soil	M23-Fe0023721			X										
156	WRB01	Not Provided		Water	M23-Fe0023722												X	
157	SRB01	Not Provided		Water	M23-Fe0023723												X	
158	SRB02	Not Provided		Water	M23-Fe0023724			X										
159	SRB03	Not Provided		Water	M23-Fe0023725			X										
160	ED_B6_0.3-1.0	Not Provided		Soil	M23-Fe0023726			X										
161	KW_B8_0.4-0.5	Not Provided		Building Materials	M23-Fe0023727			X										
162	UNLABELLED	Not Provided		Building	M23-Fe0023728			X										

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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	ASB BAG			Materials														
163	MH_B4_0.4-0.5	Not Provided		Soil	M23-Fe0023729			X										
164	KW_B2_0.5-0.7	Not Provided		Soil	M23-Fe0024121			X										
165	ED-B8_0.5-0.6	Feb 02, 2023		Soil	M23-Fe0024143					X				X				
Test Counts						35	5	44	15	31	4	3	5	71	4	4	42	4

Internal Quality Control Review and Glossary

General

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

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

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

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

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

mg/kg: milligrams per kilogram	**mg/L:** milligrams per litre	**µg/L:** micrograms per litre
ppm: parts per million	**ppb:** parts per billion	**%:** Percentage
org/100 mL: Organisms per 100 millilitres	**NTU:** Nephelometric Turbidity Units	**MPN/100 mL:** Most Probable Number of organisms per 100 millilitres
CFU: Colony forming unit		

Terms

APHA	American Public Health Association
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 5.4
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/L	< 0.02			0.02	Pass	
TRH C10-C14	mg/L	< 0.05			0.05	Pass	
TRH C15-C28	mg/L	< 0.1			0.1	Pass	
TRH C29-C36	mg/L	< 0.1			0.1	Pass	
TRH C6-C10	mg/L	< 0.02			0.02	Pass	
TRH >C10-C16	mg/L	< 0.05			0.05	Pass	
TRH >C16-C34	mg/L	< 0.1			0.1	Pass	
TRH >C34-C40	mg/L	< 0.1			0.1	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/L	< 0.001			0.001	Pass	
1.1-Dichloroethene	mg/L	< 0.001			0.001	Pass	
1.1.1-Trichloroethane	mg/L	< 0.001			0.001	Pass	
1.1.1.2-Tetrachloroethane	mg/L	< 0.001			0.001	Pass	
1.1.2-Trichloroethane	mg/L	< 0.001			0.001	Pass	
1.1.2.2-Tetrachloroethane	mg/L	< 0.001			0.001	Pass	
1.2-Dibromoethane	mg/L	< 0.001			0.001	Pass	
1.2-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
1.2-Dichloroethane	mg/L	< 0.001			0.001	Pass	
1.2-Dichloropropane	mg/L	< 0.001			0.001	Pass	
1.2.3-Trichloropropane	mg/L	< 0.001			0.001	Pass	
1.2.4-Trimethylbenzene	mg/L	< 0.001			0.001	Pass	
1.3-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
1.3-Dichloropropane	mg/L	< 0.001			0.001	Pass	
1.3.5-Trimethylbenzene	mg/L	< 0.001			0.001	Pass	
1.4-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
2-Butanone (MEK)	mg/L	< 0.005			0.005	Pass	
2-Propanone (Acetone)	mg/L	< 0.005			0.005	Pass	
4-Chlorotoluene	mg/L	< 0.001			0.001	Pass	
4-Methyl-2-pentanone (MIBK)	mg/L	< 0.005			0.005	Pass	
Allyl chloride	mg/L	< 0.001			0.001	Pass	
Benzene	mg/L	< 0.001			0.001	Pass	
Bromobenzene	mg/L	< 0.001			0.001	Pass	
Bromochloromethane	mg/L	< 0.001			0.001	Pass	
Bromodichloromethane	mg/L	< 0.001			0.001	Pass	
Bromoform	mg/L	< 0.001			0.001	Pass	
Bromomethane	mg/L	< 0.005			0.005	Pass	
Carbon disulfide	mg/L	< 0.001			0.001	Pass	
Carbon Tetrachloride	mg/L	< 0.001			0.001	Pass	
Chlorobenzene	mg/L	< 0.001			0.001	Pass	
Chloroethane	mg/L	< 0.005			0.005	Pass	
Chloroform	mg/L	< 0.005			0.005	Pass	
Chloromethane	mg/L	< 0.005			0.005	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	< 0.005			0.005	Pass	
Ethylbenzene	mg/L	< 0.001			0.001	Pass	
Iodomethane	mg/L	< 0.001			0.001	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Isopropyl benzene (Cumene)	mg/L	< 0.001			0.001	Pass	
m&p-Xylenes	mg/L	< 0.002			0.002	Pass	
Methylene Chloride	mg/L	< 0.005			0.005	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	< 0.005			0.005	Pass	
Vinyl chloride	mg/L	< 0.005			0.005	Pass	
Xylenes - Total*	mg/L	< 0.003			0.003	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/L	< 0.01			0.01	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/L	< 0.001			0.001	Pass	
Acenaphthylene	mg/L	< 0.001			0.001	Pass	
Anthracene	mg/L	< 0.001			0.001	Pass	
Benz(a)anthracene	mg/L	< 0.001			0.001	Pass	
Benzo(a)pyrene	mg/L	< 0.001			0.001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.001			0.001	Pass	
Benzo(g.h.i)perylene	mg/L	< 0.001			0.001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.001			0.001	Pass	
Chrysene	mg/L	< 0.001			0.001	Pass	
Dibenz(a.h)anthracene	mg/L	< 0.001			0.001	Pass	
Fluoranthene	mg/L	< 0.001			0.001	Pass	
Fluorene	mg/L	< 0.001			0.001	Pass	
Indeno(1.2.3-cd)pyrene	mg/L	< 0.001			0.001	Pass	
Naphthalene	mg/L	< 0.001			0.001	Pass	
Phenanthrene	mg/L	< 0.001			0.001	Pass	
Pyrene	mg/L	< 0.001			0.001	Pass	
Method Blank							
Alkali Metals							
Calcium	mg/L	< 0.5			0.5	Pass	
Magnesium	mg/L	< 0.5			0.5	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.001			0.001	Pass	
Arsenic (filtered)	mg/L	< 0.001			0.001	Pass	
Cadmium	mg/L	< 0.0002			0.0002	Pass	
Cadmium (filtered)	mg/L	< 0.0002			0.0002	Pass	
Chromium	mg/L	< 0.001			0.001	Pass	
Chromium (filtered)	mg/L	< 0.001			0.001	Pass	
Copper	mg/L	< 0.001			0.001	Pass	
Copper (filtered)	mg/L	< 0.001			0.001	Pass	
Lead	mg/L	< 0.001			0.001	Pass	
Lead (filtered)	mg/L	< 0.001			0.001	Pass	
Mercury (filtered)	mg/L	< 0.0001			0.0001	Pass	
Nickel	mg/L	< 0.001			0.001	Pass	
Nickel (filtered)	mg/L	< 0.001			0.001	Pass	
Zinc	mg/L	< 0.005			0.005	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Zinc (filtered)	mg/L	< 0.005			0.005	Pass	
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/L	< 0.05			0.05	Pass	
Perfluoropentanoic acid (PFPeA)	ug/L	< 0.01			0.01	Pass	
Perfluorohexanoic acid (PFHxA)	ug/L	< 0.01			0.01	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/L	< 0.01			0.01	Pass	
Perfluorooctanoic acid (PFOA)	ug/L	< 0.01			0.01	Pass	
Perfluorononanoic acid (PFNA)	ug/L	< 0.01			0.01	Pass	
Perfluorodecanoic acid (PFDA)	ug/L	< 0.01			0.01	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/L	< 0.01			0.01	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/L	< 0.01			0.01	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/L	< 0.01			0.01	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/L	< 0.01			0.01	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/L	< 0.05			0.05	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/L	< 0.05			0.05	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/L	< 0.05			0.05	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	ug/L	< 0.05			0.05	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	ug/L	< 0.05			0.05	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/L	< 0.05			0.05	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/L	< 0.05			0.05	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	ug/L	< 0.01			0.01	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/L	< 0.01			0.01	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/L	< 0.01			0.01	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/L	< 0.01			0.01	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/L	< 0.01			0.01	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/L	< 0.01			0.01	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/L	< 0.01			0.01	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/L	< 0.01			0.01	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/L	< 0.01			0.01	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	ug/L	< 0.05			0.05	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/L	< 0.01			0.01	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/L	< 0.01			0.01	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/L	< 0.002			0.002	Pass	
4.4'-DDD	mg/L	< 0.0002			0.0002	Pass	
4.4'-DDE	mg/L	< 0.0002			0.0002	Pass	
4.4'-DDT	mg/L	< 0.0002			0.0002	Pass	
a-HCH	mg/L	< 0.0002			0.0002	Pass	
Aldrin	mg/L	< 0.0002			0.0002	Pass	
b-HCH	mg/L	< 0.0002			0.0002	Pass	
d-HCH	mg/L	< 0.0002			0.0002	Pass	
Dieldrin	mg/L	< 0.0002			0.0002	Pass	
Endosulfan I	mg/L	< 0.0002			0.0002	Pass	
Endosulfan II	mg/L	< 0.0002			0.0002	Pass	
Endosulfan sulphate	mg/L	< 0.0002			0.0002	Pass	
Endrin	mg/L	< 0.0002			0.0002	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endrin aldehyde	mg/L	< 0.0002			0.0002	Pass	
Endrin ketone	mg/L	< 0.0002			0.0002	Pass	
g-HCH (Lindane)	mg/L	< 0.0002			0.0002	Pass	
Heptachlor	mg/L	< 0.0002			0.0002	Pass	
Heptachlor epoxide	mg/L	< 0.0002			0.0002	Pass	
Hexachlorobenzene	mg/L	< 0.0002			0.0002	Pass	
Methoxychlor	mg/L	< 0.0002			0.0002	Pass	
Toxaphene	mg/L	< 0.005			0.005	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/L	< 0.005			0.005	Pass	
Aroclor-1221	mg/L	< 0.005			0.005	Pass	
Aroclor-1232	mg/L	< 0.005			0.005	Pass	
Aroclor-1242	mg/L	< 0.005			0.005	Pass	
Aroclor-1248	mg/L	< 0.005			0.005	Pass	
Aroclor-1254	mg/L	< 0.005			0.005	Pass	
Aroclor-1260	mg/L	< 0.005			0.005	Pass	
Total PCB*	mg/L	< 0.005			0.005	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	119			70-130	Pass	
TRH C10-C14	%	93			70-130	Pass	
TRH C6-C10	%	92			70-130	Pass	
TRH >C10-C16	%	93			70-130	Pass	
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethene	%	121			70-130	Pass	
1.1.1-Trichloroethane	%	122			70-130	Pass	
1.2-Dichlorobenzene	%	113			70-130	Pass	
1.2-Dichloroethane	%	123			70-130	Pass	
Benzene	%	87			70-130	Pass	
Ethylbenzene	%	81			70-130	Pass	
m&p-Xylenes	%	86			70-130	Pass	
Toluene	%	85			70-130	Pass	
Trichloroethene	%	104			70-130	Pass	
Xylenes - Total*	%	86			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	95			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	83			70-130	Pass	
Acenaphthylene	%	78			70-130	Pass	
Anthracene	%	86			70-130	Pass	
Benz(a)anthracene	%	90			70-130	Pass	
Benzo(a)pyrene	%	83			70-130	Pass	
Benzo(b&j)fluoranthene	%	74			70-130	Pass	
Benzo(g.h.i)perylene	%	84			70-130	Pass	
Benzo(k)fluoranthene	%	100			70-130	Pass	
Chrysene	%	83			70-130	Pass	
Dibenz(a.h)anthracene	%	92			70-130	Pass	
Fluoranthene	%	83			70-130	Pass	
Fluorene	%	93			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	88			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Naphthalene	%	96			70-130	Pass	
Phenanthrene	%	85			70-130	Pass	
Pyrene	%	82			70-130	Pass	
LCS - % Recovery							
Alkali Metals							
Calcium	%	98			80-120	Pass	
Magnesium	%	91			80-120	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	91			80-120	Pass	
Arsenic (filtered)	%	92			80-120	Pass	
Cadmium	%	97			80-120	Pass	
Cadmium (filtered)	%	94			80-120	Pass	
Chromium	%	93			80-120	Pass	
Chromium (filtered)	%	93			80-120	Pass	
Copper	%	84			80-120	Pass	
Copper (filtered)	%	91			80-120	Pass	
Lead (filtered)	%	82			80-120	Pass	
Mercury (filtered)	%	93			80-120	Pass	
Nickel	%	85			80-120	Pass	
Nickel (filtered)	%	92			80-120	Pass	
Zinc	%	90			80-120	Pass	
Zinc (filtered)	%	94			80-120	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	104			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	96			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	77			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	72			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	80			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	75			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	80			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	89			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	75			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	85			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	84			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	84			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	80			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	79			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	%	74			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	%	84			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	94			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	75			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	76			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	92			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	89			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	73			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	77			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	85			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	89			50-150	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorodecanesulfonic acid (PFDS)	%	83			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	76			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	%	83			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	81			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	100			50-150	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	95			70-130	Pass	
Toluene	%	91			70-130	Pass	
Ethylbenzene	%	89			70-130	Pass	
m&p-Xylenes	%	86			70-130	Pass	
Xylenes - Total*	%	87			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	74			70-130	Pass	
4.4'-DDD	%	73			70-130	Pass	
4.4'-DDE	%	84			70-130	Pass	
4.4'-DDT	%	87			70-130	Pass	
a-HCH	%	72			70-130	Pass	
Aldrin	%	70			70-130	Pass	
b-HCH	%	81			70-130	Pass	
d-HCH	%	83			70-130	Pass	
Dieldrin	%	78			70-130	Pass	
Endosulfan I	%	80			70-130	Pass	
Endosulfan II	%	70			70-130	Pass	
Endosulfan sulphate	%	80			70-130	Pass	
Endrin	%	78			70-130	Pass	
Endrin aldehyde	%	79			70-130	Pass	
Endrin ketone	%	89			70-130	Pass	
g-HCH (Lindane)	%	70			70-130	Pass	
Heptachlor	%	81			70-130	Pass	
Heptachlor epoxide	%	74			70-130	Pass	
Hexachlorobenzene	%	73			70-130	Pass	
Methoxychlor	%	77			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C9	M23-Fe0023671	CP	%	120			70-130	Pass	
TRH C10-C14	M23-Fe0023923	NCP	%	118			70-130	Pass	
TRH C6-C10	M23-Fe0023671	CP	%	121			70-130	Pass	
TRH >C10-C16	M23-Fe0023923	NCP	%	117			70-130	Pass	
Spike - % Recovery									
Volatile Organics				Result 1					
1.1-Dichloroethene	M23-Fe0023671	CP	%	124			70-130	Pass	
1.1.1-Trichloroethane	M23-Fe0023671	CP	%	124			70-130	Pass	
1.2-Dichlorobenzene	M23-Fe0023671	CP	%	109			70-130	Pass	
1.2-Dichloroethane	M23-Fe0023671	CP	%	120			70-130	Pass	
Benzene	M23-Fe0023671	CP	%	96			70-130	Pass	
Ethylbenzene	M23-Fe0023671	CP	%	92			70-130	Pass	
m&p-Xylenes	M23-Fe0023671	CP	%	88			70-130	Pass	
o-Xylene	M23-Fe0023671	CP	%	89			70-130	Pass	
Toluene	M23-Fe0023671	CP	%	92			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Trichloroethene	M23-Fe0023671	CP	%	105			70-130	Pass	
Xylenes - Total*	M23-Fe0023671	CP	%	88			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	M23-Fe0023671	CP	%	91			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	M23-Fe0020471	NCP	%	87			70-130	Pass	
Acenaphthylene	M23-Fe0020471	NCP	%	79			70-130	Pass	
Anthracene	M23-Fe0020471	NCP	%	71			70-130	Pass	
Benz(a)anthracene	M23-Fe0020471	NCP	%	89			70-130	Pass	
Benzo(a)pyrene	M23-Fe0020471	NCP	%	87			70-130	Pass	
Benzo(b&j)fluoranthene	M23-Fe0020471	NCP	%	101			70-130	Pass	
Benzo(g.h.i)perylene	M23-Fe0020471	NCP	%	77			70-130	Pass	
Benzo(k)fluoranthene	M23-Fe0020471	NCP	%	84			70-130	Pass	
Chrysene	M23-Fe0020471	NCP	%	95			70-130	Pass	
Dibenz(a.h)anthracene	M23-Fe0020471	NCP	%	86			70-130	Pass	
Fluoranthene	M23-Fe0020471	NCP	%	71			70-130	Pass	
Fluorene	M23-Fe0020471	NCP	%	77			70-130	Pass	
Indeno(1.2.3-cd)pyrene	M23-Fe0020471	NCP	%	84			70-130	Pass	
Naphthalene	M23-Fe0020471	NCP	%	96			70-130	Pass	
Phenanthrene	M23-Fe0020471	NCP	%	74			70-130	Pass	
Pyrene	M23-Fe0020471	NCP	%	72			70-130	Pass	
Spike - % Recovery									
Alkali Metals				Result 1					
Calcium	M23-Fe0023671	CP	%	99			75-125	Pass	
Magnesium	M23-Fe0023671	CP	%	93			75-125	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic (filtered)	M23-Fe0023937	NCP	%	115			75-125	Pass	
Cadmium (filtered)	M23-Fe0023937	NCP	%	104			75-125	Pass	
Chromium (filtered)	M23-Fe0023937	NCP	%	110			75-125	Pass	
Copper (filtered)	M23-Fe0023937	NCP	%	106			75-125	Pass	
Lead (filtered)	M23-Fe0023937	NCP	%	97			75-125	Pass	
Mercury (filtered)	M23-Fe0023937	NCP	%	86			75-125	Pass	
Nickel (filtered)	M23-Fe0023937	NCP	%	108			75-125	Pass	
Zinc (filtered)	M23-Fe0023671	CP	%	98			75-125	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	M23-Fe0024017	NCP	%	101			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	M23-Fe0024017	NCP	%	71			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	M23-Fe0024017	NCP	%	88			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	M23-Fe0024017	NCP	%	74			50-150	Pass	
Perfluorooctanoic acid (PFOA)	M23-Fe0024017	NCP	%	77			50-150	Pass	
Perfluorononanoic acid (PFNA)	M23-Fe0024017	NCP	%	81			50-150	Pass	
Perfluorodecanoic acid (PFDA)	M23-Fe0024017	NCP	%	79			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	M23-Fe0024017	NCP	%	90			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	M23-Fe0024017	NCP	%	65			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	M23-Fe0024017	NCP	%	75			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M23-Fe0024017	NCP	%	79			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorooctane sulfonamide (FOSA)	M23-Fe0024017	NCP	%	90			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M23-Fe0024017	NCP	%	75			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M23-Fe0024017	NCP	%	76			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M23-Fe0024017	NCP	%	76			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M23-Fe0024017	NCP	%	66			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M23-Fe0024017	NCP	%	85			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M23-Fe0024017	NCP	%	101			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	M23-Fe0024017	NCP	%	75			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	M23-Fe0024017	NCP	%	67			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M23-Fe0024017	NCP	%	78			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M23-Fe0024017	NCP	%	82			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M23-Fe0024017	NCP	%	79			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M23-Fe0024017	NCP	%	96			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	M23-Fe0024017	NCP	%	57			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	M23-Fe0024017	NCP	%	54			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M23-Fe0024017	NCP	%	74			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M23-Fe0024017	NCP	%	72			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M23-Fe0024017	NCP	%	82			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M23-Fe0024017	NCP	%	88			50-150	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons				Result 1					
TRH C6-C10	M23-Fe0033548	NCP	%	88			70-130	Pass	
Spike - % Recovery									
Volatile Organics				Result 1					
Benzene	M23-Fe0033548	NCP	%	83			70-130	Pass	
Ethylbenzene	M23-Fe0033548	NCP	%	76			70-130	Pass	
m&p-Xylenes	M23-Fe0033548	NCP	%	79			70-130	Pass	
o-Xylene	M23-Fe0033548	NCP	%	80			70-130	Pass	
Toluene	M23-Fe0033548	NCP	%	81			70-130	Pass	
Xylenes - Total*	M23-Fe0033548	NCP	%	80			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	M23-Fe0033548	NCP	%	91			70-130	Pass	
Spike - % Recovery									

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Heavy Metals				Result 1					
Arsenic	M23-Fe0029730	NCP	%	104			75-125	Pass	
Cadmium	M23-Fe0029730	NCP	%	111			75-125	Pass	
Chromium	M23-Fe0029730	NCP	%	108			75-125	Pass	
Copper	M23-Fe0029730	NCP	%	101			75-125	Pass	
Lead	M23-Fe0029730	NCP	%	91			75-125	Pass	
Mercury	M23-Fe0029730	NCP	%	87			75-125	Pass	
Nickel	M23-Fe0029730	NCP	%	102			75-125	Pass	
Zinc	M23-Fe0029730	NCP	%	111			75-125	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	B23-Fe0030370	NCP	%	110			70-130	Pass	
4.4'-DDD	B23-Fe0030370	NCP	%	99			70-130	Pass	
4.4'-DDE	B23-Fe0030370	NCP	%	100			70-130	Pass	
4.4'-DDT	B23-Fe0030370	NCP	%	119			70-130	Pass	
a-HCH	B23-Fe0030370	NCP	%	108			70-130	Pass	
Aldrin	B23-Fe0030370	NCP	%	112			70-130	Pass	
b-HCH	B23-Fe0030370	NCP	%	113			70-130	Pass	
d-HCH	B23-Fe0030370	NCP	%	127			70-130	Pass	
Dieldrin	B23-Fe0030370	NCP	%	120			70-130	Pass	
Endosulfan I	B23-Fe0030370	NCP	%	117			70-130	Pass	
Endosulfan II	B23-Fe0030370	NCP	%	119			70-130	Pass	
Endosulfan sulphate	B23-Fe0030370	NCP	%	74			70-130	Pass	
Endrin	B23-Fe0030370	NCP	%	90			70-130	Pass	
Endrin aldehyde	B23-Fe0030370	NCP	%	73			70-130	Pass	
Endrin ketone	B23-Fe0030370	NCP	%	116			70-130	Pass	
g-HCH (Lindane)	B23-Fe0030370	NCP	%	115			70-130	Pass	
Heptachlor	B23-Fe0030370	NCP	%	96			70-130	Pass	
Heptachlor epoxide	B23-Fe0030370	NCP	%	116			70-130	Pass	
Hexachlorobenzene	B23-Fe0030370	NCP	%	109			70-130	Pass	
Methoxychlor	B23-Fe0030370	NCP	%	80			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1016	B23-Fe0030370	NCP	%	106			70-130	Pass	
Aroclor-1260	B23-Fe0030370	NCP	%	112			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C10-C14	M23-Fe0022900	NCP	mg/L	0.06	0.06	4.0	30%	Pass	
TRH C15-C28	M23-Fe0022900	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH C29-C36	M23-Fe0022900	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH >C10-C16	M23-Fe0022900	NCP	mg/L	0.05	0.06	18	30%	Pass	
TRH >C16-C34	M23-Fe0022900	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH >C34-C40	M23-Fe0022900	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	M23-Fe0022900	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Acenaphthylene	M23-Fe0022900	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Anthracene	M23-Fe0022900	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benz(a)anthracene	M23-Fe0022900	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(a)pyrene	M23-Fe0022900	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(b&j)fluoranthene	M23-Fe0022900	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(g.h.i)perylene	M23-Fe0022900	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(k)fluoranthene	M23-Fe0022900	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	

Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Chrysene	M23-Fe0022900	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibenz(a.h)anthracene	M23-Fe0022900	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluoranthene	M23-Fe0022900	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluorene	M23-Fe0022900	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	M23-Fe0022900	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Naphthalene	M23-Fe0022900	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Phenanthrene	M23-Fe0022900	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Pyrene	M23-Fe0022900	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Duplicate									
Alkali Metals				Result 1	Result 2	RPD			
Calcium	M23-Fe0023671	CP	mg/L	110	110	1.4	30%	Pass	
Magnesium	M23-Fe0023671	CP	mg/L	110	110	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic (filtered)	M23-Fe0023937	NCP	mg/L	0.003	0.003	3.4	30%	Pass	
Cadmium (filtered)	M23-Fe0023937	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Chromium (filtered)	M23-Fe0023937	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Copper (filtered)	M23-Fe0023937	NCP	mg/L	0.006	0.005	11	30%	Pass	
Lead (filtered)	M23-Fe0023937	NCP	mg/L	0.002	0.002	6.6	30%	Pass	
Mercury (filtered)	M23-Fe0023937	NCP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel (filtered)	M23-Fe0023937	NCP	mg/L	0.003	0.002	11	30%	Pass	
Zinc (filtered)	M23-Fe0023937	NCP	mg/L	0.33	0.32	4.0	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	M23-Fe0026271	NCP	ug/L	1.2	1.1	6.2	30%	Pass	
Perfluoropentanoic acid (PFPeA)	M23-Fe0025652	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	M23-Fe0025652	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	M23-Fe0026271	NCP	ug/L	1.2	1.1	5.5	30%	Pass	
Perfluorooctanoic acid (PFOA)	M23-Fe0025652	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	M23-Fe0026271	NCP	ug/L	0.13	0.13	1.2	30%	Pass	
Perfluorodecanoic acid (PFDA)	M23-Fe0025652	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	M23-Fe0026271	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	M23-Fe0026271	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	M23-Fe0026271	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M23-Fe0026271	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	M23-Fe0026271	NCP	ug/L	0.08	0.09	7.5	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M23-Fe0026271	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M23-Fe0026271	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M23-Fe0026271	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M23-Fe0026271	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M23-Fe0026271	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M23-Fe0026271	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	

Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	M23-Fe0016688	NCP	ug/L	2.2	2.2	2.5	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	M23-Fe0025652	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M23-Fe0025652	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M23-Fe0025652	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M23-Fe0025652	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M23-Fe0025652	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	M23-Fe0025652	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	M23-Fe0025652	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M23-Fe0026271	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M23-Fe0026271	NCP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M23-Fe0026271	NCP	ug/L	0.01	0.02	4.6	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M23-Fe0026271	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	M23-Fe0023672	CP	mg/L	0.09	0.08	7.7	30%	Pass	
TRH C6-C10	M23-Fe0023672	CP	mg/L	0.10	0.09	7.7	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1-Dichloroethene	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.1-Trichloroethane	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.2-Trichloroethane	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dibromoethane	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dichlorobenzene	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dichloroethane	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2-Dichloropropane	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2.3-Trichloropropane	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.2.4-Trimethylbenzene	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.3-Dichlorobenzene	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.3-Dichloropropane	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.3.5-Trimethylbenzene	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
1.4-Dichlorobenzene	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
2-Butanone (MEK)	M23-Fe0023672	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
2-Propanone (Acetone)	M23-Fe0023672	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
4-Chlorotoluene	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	M23-Fe0023672	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Allyl chloride	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzene	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromobenzene	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	

Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
Bromochloromethane	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromodichloromethane	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromoform	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Bromomethane	M23-Fe0023672	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Carbon disulfide	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Carbon Tetrachloride	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chlorobenzene	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chloroethane	M23-Fe0023672	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Chloroform	M23-Fe0023672	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Chloromethane	M23-Fe0023672	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
cis-1.2-Dichloroethene	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
cis-1.3-Dichloropropene	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibromochloromethane	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibromomethane	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dichlorodifluoromethane	M23-Fe0023672	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Ethylbenzene	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Iodomethane	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Isopropyl benzene (Cumene)	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
m&p-Xylenes	M23-Fe0023672	CP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Methylene Chloride	M23-Fe0023672	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
o-Xylene	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Styrene	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Tetrachloroethene	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Toluene	M23-Fe0023672	CP	mg/L	0.040	0.036	8.4	30%	Pass	
trans-1.2-Dichloroethene	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
trans-1.3-Dichloropropene	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Trichloroethene	M23-Fe0023672	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Trichlorofluoromethane	M23-Fe0023672	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Vinyl chloride	M23-Fe0023672	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Xylenes - Total*	M23-Fe0023672	CP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	M23-Fe0023672	CP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M23-Fe0029730	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Cadmium	M23-Fe0029730	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Chromium	M23-Fe0029730	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Copper	M23-Fe0029730	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Lead	M23-Fe0029730	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Mercury	M23-Fe0029730	NCP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel	M23-Fe0029730	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Zinc	M23-Fe0029730	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	M23-Fe0028364	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
4.4'-DDD	M23-Fe0028364	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
4.4'-DDE	M23-Fe0028364	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
4.4'-DDT	M23-Fe0028364	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
a-HCH	M23-Fe0028364	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Aldrin	M23-Fe0028364	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
b-HCH	M23-Fe0028364	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
d-HCH	M23-Fe0028364	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Dieldrin	M23-Fe0028364	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	

Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Endosulfan I	M23-Fe0028364	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endosulfan II	M23-Fe0028364	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endosulfan sulphate	M23-Fe0028364	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endrin	M23-Fe0028364	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endrin aldehyde	M23-Fe0028364	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Endrin ketone	M23-Fe0028364	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
g-HCH (Lindane)	M23-Fe0028364	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Heptachlor	M23-Fe0028364	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Heptachlor epoxide	M23-Fe0028364	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Hexachlorobenzene	M23-Fe0028364	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Methoxychlor	M23-Fe0028364	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Toxaphene	M23-Fe0028364	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	M23-Fe0028364	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Aroclor-1221	M23-Fe0028364	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Aroclor-1232	M23-Fe0028364	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Aroclor-1242	M23-Fe0028364	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Aroclor-1248	M23-Fe0028364	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Aroclor-1254	M23-Fe0028364	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Aroclor-1260	M23-Fe0028364	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Total PCB*	M23-Fe0028364	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	N/A
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
I12	Where sampling date has not been provided, Eurofins | Environment Testing is not able to determine whether analysis has been performed within recommended holding times.
N09	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.

Authorised by:

Adam Bateup	Analytical Services Manager
Edward Lee	Senior Analyst-Organic
Harry Bacalis	Senior Analyst-Volatile
Joseph Edouard	Senior Analyst-Organic
Joseph Edouard	Senior Analyst-PFAS
Joseph Edouard	Senior Analyst-Volatile
Mary Makarios	Senior Analyst-Metal
Scott Beddoes	Senior Analyst-Metal



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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Certificate of Analysis

NATA Accredited
Accreditation Number 1261
Site Number 18217

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

Attention:	Mitch Hodgins
Report	962621-AID
Project Name	BHHR
Project ID	63879
Received Date	Feb 09, 2023
Date Reported	Feb 22, 2023

Methodology:

Asbestos Fibre Identification	Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques. *NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.*
Unknown Mineral Fibres	Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity. *NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.*
Subsampling Soil Samples	The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed. *NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.*
Bonded asbestos-containing material (ACM)	The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination.The resultant material is then further examined in accordance with AS 4964 - 2004. *NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.*
Limit of Reporting	The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w). The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk). *NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos".This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.*

Project Name BHHR
Project ID 63879
Date Sampled Feb 02, 2023 to Feb 04, 2023
Report 962621-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
KW-B1_0.0-0.5	23-Fe0023566	Feb 03, 2023	Approximate Sample 627g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
KW-B2_0.0-0.1	23-Fe0023568	Feb 03, 2023	Approximate Sample 694g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
KW-B3_0.0-0.4	23-Fe0023573	Feb 03, 2023	Approximate Sample 763g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
KW-B3_0.0-0.4A	23-Fe0023574	Feb 03, 2023	Approximate Sample 4g / 20 x 20 x 3mm Sample consisted of: Vinyl tile	Chrysotile asbestos detected. Organic fibres detected.
KW-B4_0.0-0.1	23-Fe0023576	Feb 03, 2023	Approximate Sample 1077g Sample consisted of: Brown coarse-grained soil, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
KW-B4_0.1-0.3	23-Fe0023578	Feb 03, 2023	Approximate Sample 940g Sample consisted of: Brown coarse-grained soil, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
KW-B4_0.1-0.3A	23-Fe0023579	Feb 03, 2023	Approximate Sample 4g / 40 x 20 x 3mm Sample consisted of: Laminate sheet	No asbestos detected. Organic fibres detected. No trace asbestos detected.
KW-B5_0.1-0.4	23-Fe0023582	Feb 03, 2023	Approximate Sample 696g Sample consisted of: Brown coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
KW-B5_0.4-1.0	23-Fe0023583	Feb 03, 2023	Approximate Sample 558g Sample consisted of: Brown coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
KW-B7_0.0-0.6	23-Fe0023588	Feb 03, 2023	Approximate Sample 1137g Sample consisted of: Brown coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
KW-B7_0.0-0.6A	23-Fe0023589	Feb 03, 2023	Approximate Sample 16g / 50 x 50 x 5mm Sample consisted of: Vinyl tile	Chrysotile asbestos detected. Organic fibres detected.
KW-B8_0.0-0.4	23-Fe0023592	Feb 03, 2023	Approximate Sample 811g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
MH-B1_0.0-0.1	23-Fe0023595	Feb 03, 2023	Approximate Sample 509g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
MH-B1_0.1-0.2	23-Fe0023597	Feb 03, 2023	Approximate Sample 645g Sample consisted of: Brown coarse-grained soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
MH-B1_0.2-0.3	23-Fe0023599	Feb 03, 2023	Approximate Sample 631g Sample consisted of: Brown coarse-grained soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
MH-B2_0.2-0.8	23-Fe0023602	Feb 03, 2023	Approximate Sample 546g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
MH-B3_0.0-0.6	23-Fe0023606	Feb 03, 2023	Approximate Sample 589g Sample consisted of: Brown coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
MH-B3_0.8-1.0	23-Fe0023607	Feb 03, 2023	Approximate Sample 805g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
MH-B4_0.0-0.6	23-Fe0023610	Feb 03, 2023	Approximate Sample 984g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
MH-B5_0.0-0.9	23-Fe0023615	Feb 02, 2023	Approximate Sample 628g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
MH-B6_0.0-0.6	23-Fe0023619	Feb 02, 2023	Approximate Sample 588g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
MH-B7_0.0-1.0	23-Fe0023623	Feb 02, 2023	Approximate Sample 731g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
MH-B8_0.1-0.3	23-Fe0023627	Feb 02, 2023	Approximate Sample 1109g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
MH-B8_0.3-0.5	23-Fe0023628	Feb 02, 2023	Approximate Sample 819g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
MH-B9_0.0-0.5	23-Fe0023632	Feb 02, 2023	Approximate Sample 667g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
MH-B10_0.0-0.2	23-Fe0023634	Feb 02, 2023	Approximate Sample 634g Sample consisted of: Brown coarse- grained sandy clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
MH-B10_0.0-0.2A	23-Fe0023635	Feb 02, 2023	Approximate Sample 8g / 60 x 30 x 5mm Sample consisted of: Cement sheet	Chrysotile and crocidolite asbestos detected. Organic fibres detected.
MH-B10_0.2-1.0	23-Fe0023638	Feb 02, 2023	Approximate Sample 511g Sample consisted of: Brown coarse- grained sandy clayey soil, plaster and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
MH-B10_0.2-1.0A	23-Fe0023639	Feb 02, 2023	Approximate Sample 6g / 25 x 20 x 5mm Sample consisted of: Cement sheet	Chrysotile asbestos detected. Organic fibres detected.
ED-B1_0.0-1.0	23-Fe0023643	Feb 02, 2023	Approximate Sample 591g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
ED-B2_0.0-0.3	23-Fe0023646	Feb 04, 2023	Approximate Sample 1329g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
ED-B3_0.0-0.7	23-Fe0023649	Feb 04, 2023	Approximate Sample 1203g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
ED-B4_0.1-0.5	23-Fe0023652	Feb 04, 2023	Approximate Sample 998g Sample consisted of: Brown coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
ED-B5_0.0-0.3	23-Fe0023655	Feb 02, 2023	Approximate Sample 639g Sample consisted of: Brown coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
ED-B6_0.1-0.3	23-Fe0023658	Feb 02, 2023	Approximate Sample 629g Sample consisted of: Brown coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
ED-B7_0.0-0.2	23-Fe0023660	Feb 04, 2023	Approximate Sample 1003g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
ED-B8_0.0-0.6	23-Fe0023666	Feb 04, 2023	Approximate Sample 1080g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
ED-B9_0.0-0.1	23-Fe0023668	Feb 04, 2023	Approximate Sample 952g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
ED-B9_0.1-0.5	23-Fe0023670	Feb 04, 2023	Approximate Sample 846g Sample consisted of: Brown coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
KW-B2_0.1-0.3	23-Fe0023685	Feb 03, 2023	Approximate Sample 813g Sample consisted of: Brown fine-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	Feb 17, 2023	Indefinite
Asbestos - LTM-ASB-8020	Melbourne	Feb 17, 2023	Indefinite

eurofins

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

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261 Site# 25403

Sydney
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261 Site# 18217

Canberra
Unit 1,2 Dacre Street
Mitchell
ACT 2911
Tel: +61 2 6113 8091
NATA# 1261 Site# 25466

Brisbane
1/21 Smallwood Place
Murarrie
QLD 4172
Tel: +61 7 3902 4600
NATA# 1261 Site# 20794

Newcastle
1/2 Frost Drive
Mayfield West NSW 2304
Tel: +61 2 4968 8448
NATA# 1261
Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

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

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

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

Project Name: BHHR
Project ID: 63879

Order No.:
Report #: 962621
Phone: 02 8245 0300
Fax:

Received: Feb 9, 2023 10:22 AM
Due: Feb 16, 2023
Priority: 5 Day
Contact Name: Mitch Hodgins

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Hardness Set	Volatile Organics	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B8 (filtered metals)	JBS&G Suite 2	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
External Laboratory																		
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**													
1	KW-B1_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023564									X	X		X	
2	KW-B1_0.2-0.3	Feb 03, 2023		Soil	M23-Fe0023565				X	X				X				
3	KW-B1_0.0-0.5	Feb 03, 2023		Soil	M23-Fe0023566	X												
4	KW-B2_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023567									X			X	
5	KW-B2_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023568	X												
6	KW-B2_0.1-0.3	Feb 03, 2023		Soil	M23-Fe0023569			X										
7	KW-B2_0.3-	Feb 03, 2023		Soil	M23-Fe0023570									X			X	

eurofins

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

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261 Site# 25403

Sydney
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261 Site# 18217

Canberra
Unit 1,2 Dacre Street
Mitchell
ACT 2911
Tel: +61 2 6113 8091
NATA# 1261 Site# 25466

Brisbane
1/21 Smallwood Place
Murarrie
QLD 4172
Tel: +61 7 3902 4600
NATA# 1261 Site# 20794

Newcastle
1/2 Frost Drive
Mayfield West NSW 2304
Tel: +61 2 4968 8448
NATA# 1261
Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

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

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

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

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Order No.:
Report #: 962621
Phone: 02 8245 0300
Fax:

Received: Feb 9, 2023 10:22 AM
Due: Feb 16, 2023
Priority: 5 Day
Contact Name: Mitch Hodgins

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Hardness Set	Volatile Organics	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B8 (filtered metals)	JBS&G Suite 2	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	0.4																	
8	KW-B3_0.1-0.2	Feb 03, 2023		Soil	M23-Fe0023571								X	X			X	
9	KW-B3_0.25-0.3	Feb 03, 2023		Soil	M23-Fe0023572									X			X	
10	KW-B3_0.0-0.4	Feb 03, 2023		Soil	M23-Fe0023573	X												
11	KW-B3_0.0-0.4A	Feb 03, 2023		Building Materials	M23-Fe0023574		X											
12	KW-B4_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023575				X	X				X				
13	KW-B4_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023576	X												
14	KW-B4_0.1-0.3	Feb 03, 2023		Soil	M23-Fe0023577									X			X	
15	KW-B4_0.1-	Feb 03, 2023		Soil	M23-Fe0023578	X												

eurofins

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

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
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VIC 3216
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Sydney
179 Magowar Road
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1/2 Frost Drive
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Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

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

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

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Address: Level 1, 50 Margaret St
Sydney
NSW 2000

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Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Hardness Set	Volatile Organics	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B8 (filtered metals)	JBS&G Suite 2	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	0.3																	
16	KW-B4_0.1-0.3A	Feb 03, 2023		Building Materials	M23-Fe0023579		X											
17	KW-B5_0.1-0.2	Feb 03, 2023		Soil	M23-Fe0023580									X	X		X	
18	KW-B5_0.4-0.5	Feb 03, 2023		Soil	M23-Fe0023581				X	X				X				
19	KW-B5_0.1-0.4	Feb 03, 2023		Soil	M23-Fe0023582	X												
20	KW-B5_0.4-1.0	Feb 03, 2023		Soil	M23-Fe0023583	X												
21	KW-B6_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023584				X	X				X				
22	KW-B6_0.5-0.6	Feb 03, 2023		Soil	M23-Fe0023585									X			X	
23	KW-B7_0.2-	Feb 03, 2023		Soil	M23-Fe0023586									X			X	

eurofins

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

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261 Site# 25403

Sydney
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261 Site# 18217

Canberra
Unit 1,2 Dacre Street
Mitchell
ACT 2911
Tel: +61 2 6113 8091
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1/21 Smallwood Place
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QLD 4172
Tel: +61 7 3902 4600
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1/2 Frost Drive
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Tel: +61 2 4968 8448
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Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

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

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

Company Name: JBS & G Australia (NSW) P/L
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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	0.3																	
24	KW-B7_0.5-0.6	Feb 03, 2023		Soil	M23-Fe0023587				X	X				X				
25	KW-B7_0.0-0.6	Feb 03, 2023		Soil	M23-Fe0023588	X												
26	KW-B7_0.0-0.6A	Feb 03, 2023		Building Materials	M23-Fe0023589		X											
27	KW-B8_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023590									X			X	
28	KW-B8_0.2-0.4	Feb 03, 2023		Soil	M23-Fe0023591								X	X			X	
29	KW-B8_0.0-0.4	Feb 03, 2023		Soil	M23-Fe0023592	X												
30	MH-B1_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023594					X				X				
31	MH-B1_0.0-	Feb 03, 2023		Soil	M23-Fe0023595	X												

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

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261 Site# 25403

Sydney
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261 Site# 18217

Canberra
Unit 1,2 Dacre Street
Mitchell
ACT 2911
Tel: +61 2 6113 8091
NATA# 1261 Site# 25466

Brisbane
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Murarrie
QLD 4172
Tel: +61 7 3902 4600
NATA# 1261 Site# 20794

Newcastle
1/2 Frost Drive
Mayfield West NSW 2304
Tel: +61 2 4968 8448
NATA# 1261
Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

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

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

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Address: Level 1, 50 Margaret St
Sydney
NSW 2000

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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	0.1																	
32	MH-B1_0.1-0.2	Feb 03, 2023		Soil	M23-Fe0023596								X	X			X	
33	MH-B1_0.1-0.2	Feb 03, 2023		Soil	M23-Fe0023597	X												
34	MH-B1_0.2-0.3	Feb 03, 2023		Soil	M23-Fe0023598					X				X				
35	MH-B1_0.2-0.3	Feb 03, 2023		Soil	M23-Fe0023599	X												
36	MH-B2_0.2-0.3	Feb 03, 2023		Soil	M23-Fe0023600					X				X				
37	MH-B2_0.4-0.5	Feb 03, 2023		Soil	M23-Fe0023601									X			X	
38	MH-B2_0.2-0.8	Feb 03, 2023		Soil	M23-Fe0023602	X												
39	MH-B3_0.0-	Feb 03, 2023		Soil	M23-Fe0023603									X			X	

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

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ABN: 50 005 085 521

Melbourne
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Dandenong South
VIC 3175
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NATA# 1261 Site# 1254

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ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
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Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
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Tel: 0800 856 450
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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	0.1																	
40	MH-B3_0.2-0.3	Feb 03, 2023		Soil	M23-Fe0023604					X				X				
41	MH-B3_0.8-1.0	Feb 03, 2023		Soil	M23-Fe0023605									X			X	
42	MH-B3_0.0-0.6	Feb 03, 2023		Soil	M23-Fe0023606	X												
43	MH-B3_0.8-1.0	Feb 03, 2023		Soil	M23-Fe0023607	X												
44	MH-B4_0.2-0.3	Feb 03, 2023		Soil	M23-Fe0023608									X			X	
45	MH-B4_0.6-0.7	Feb 03, 2023		Soil	M23-Fe0023609					X				X				
46	MH-B4_0.0-0.6	Feb 03, 2023		Soil	M23-Fe0023610	X												
47	MH-B5_0.0-	Feb 02, 2023		Soil	M23-Fe0023611					X				X				

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

Melbourne
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Perth
46-48 Banksia Road
Welshpool
WA 6106
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NZBN: 9429046024954

Auckland
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Penrose,
Auckland 1061
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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	0.1																	
48	MH-B5_0.1-0.2	Feb 02, 2023		Soil	M23-Fe0023612									X			X	
49	MH-B5_0.4-0.5	Feb 02, 2023		Soil	M23-Fe0023613									X			X	
50	MH-B5_0.8-0.9	Feb 02, 2023		Soil	M23-Fe0023614					X				X				
51	MH-B5_0.0-0.9	Feb 02, 2023		Soil	M23-Fe0023615	X												
52	MH-B6_0.0-0.1	Feb 02, 2023		Soil	M23-Fe0023616								X	X			X	
53	MH-B6_0.2-0.3	Feb 02, 2023		Soil	M23-Fe0023617				X	X				X	X			
54	MH-B6_0.4-0.5	Feb 02, 2023		Soil	M23-Fe0023618					X				X				
55	MH-B6_0.0-	Feb 02, 2023		Soil	M23-Fe0023619	X												

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

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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

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ABN: 91 05 0159 898

Perth
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Welshpool
WA 6106
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NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
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Christchurch
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Rolleston,
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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	0.6																	
56	MH-B7_0.0-0.1	Feb 02, 2023		Soil	M23-Fe0023620				X	X				X				
57	MH-B7_0.2-0.3	Feb 02, 2023		Soil	M23-Fe0023621									X			X	
58	MH-B7_0.9-1.0	Feb 02, 2023		Soil	M23-Fe0023622									X			X	
59	MH-B7_0.0-1.0	Feb 02, 2023		Soil	M23-Fe0023623	X												
60	MH-B8_0.1-0.2	Feb 02, 2023		Soil	M23-Fe0023624				X	X				X				
61	MH-B8_0.4-0.5	Feb 02, 2023		Soil	M23-Fe0023625									X			X	
62	MH-B8_0.5-0.6	Feb 02, 2023		Soil	M23-Fe0023626					X				X				
63	MH-B8_0.1-	Feb 02, 2023		Soil	M23-Fe0023627	X												

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

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261 Site# 25403

Sydney
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261 Site# 18217

Canberra
Unit 1,2 Dacre Street
Mitchell
ACT 2911
Tel: +61 2 6113 8091
NATA# 1261 Site# 25466

Brisbane
1/21 Smallwood Place
Murarrie
QLD 4172
Tel: +61 7 3902 4600
NATA# 1261 Site# 20794

Newcastle
1/2 Frost Drive
Mayfield West NSW 2304
Tel: +61 2 4968 8448
NATA# 1261
Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
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NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

Christchurch
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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	0.3																	
64	MH-B8_0.3-0.5	Feb 02, 2023		Soil	M23-Fe0023628	X												
65	MH-B9_0.0-0.1	Feb 02, 2023		Soil	M23-Fe0023629				X	X				X				
66	MH-B9_0.2-0.3	Feb 02, 2023		Soil	M23-Fe0023630									X			X	
67	MH-B9_0.9-1.0	Feb 02, 2023		Soil	M23-Fe0023631									X			X	
68	MH-B9_0.0-0.5	Feb 02, 2023		Soil	M23-Fe0023632	X												
69	MH-B10_0.0-0.2	Feb 02, 2023		Soil	M23-Fe0023633									X			X	
70	MH-B10_0.0-0.2	Feb 02, 2023		Soil	M23-Fe0023634	X												
71	MH-B10_0.0-	Feb 02, 2023		Building	M23-Fe0023635		X											

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

Melbourne
6 Monterey Road
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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	0.2A			Materials														
72	MH-B10_0.2-0.4	Feb 02, 2023		Soil	M23-Fe0023636									X			X	
73	MH-B10_0.5-0.6	Feb 02, 2023		Soil	M23-Fe0023637					X				X				
74	MH-B10_0.2-1.0	Feb 02, 2023		Soil	M23-Fe0023638	X												
75	MH-B10_0.2-1.0A	Feb 02, 2023		Building Materials	M23-Fe0023639		X											
76	ED-B1_0.0-0.1	Feb 02, 2023		Soil	M23-Fe0023640									X	X		X	
77	ED-B1_0.4-0.5	Feb 02, 2023		Soil	M23-Fe0023641				X	X				X				
78	ED-B1_0.9-1.0	Feb 02, 2023		Soil	M23-Fe0023642					X				X				
79	ED-B1_0.0-1.0	Feb 02, 2023		Soil	M23-Fe0023643	X												
80	ED-B2_0.0-0.1	Feb 04, 2023		Soil	M23-Fe0023644				X	X				X				
81	ED-B2_0.2-0.3	Feb 04, 2023		Soil	M23-Fe0023645									X			X	

eurofins

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

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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
82	ED-B2_0.0-0.3	Feb 04, 2023		Soil	M23-Fe0023646	X												
83	ED-B3_0.0-0.1	Feb 04, 2023		Soil	M23-Fe0023647									X			X	
84	ED-B3_0.2-0.3	Feb 04, 2023		Soil	M23-Fe0023648					X				X				
85	ED-B3_0.0-0.7	Feb 04, 2023		Soil	M23-Fe0023649	X												
86	ED-B4_0.1-0.2	Feb 04, 2023		Soil	M23-Fe0023650					X				X				
87	ED-B4_0.4-0.5	Feb 04, 2023		Soil	M23-Fe0023651									X			X	
88	ED-B4_0.1-0.5	Feb 04, 2023		Soil	M23-Fe0023652	X												
89	ED-B5_0.0-0.1	Feb 02, 2023		Soil	M23-Fe0023653									X			X	
90	ED-B5_0.2-0.3	Feb 02, 2023		Soil	M23-Fe0023654					X				X				
91	ED-B5_0.0-0.3	Feb 02, 2023		Soil	M23-Fe0023655	X												
92	ED-B6_0.1-0.2	Feb 02, 2023		Soil	M23-Fe0023656					X				X				
93	ED-B6_0.2-0.3	Feb 02, 2023		Soil	M23-Fe0023657									X			X	
94	ED-B6_0.1-0.3	Feb 02, 2023		Soil	M23-Fe0023658	X												
95	ED-B7_0.0-0.2	Feb 04, 2023		Soil	M23-Fe0023659									X			X	

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

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261 Site# 25403

Sydney
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261 Site# 18217

Canberra
Unit 1,2 Dacre Street
Mitchell
ACT 2911
Tel: +61 2 6113 8091
NATA# 1261 Site# 25466

Brisbane
1/21 Smallwood Place
Murarrie
QLD 4172
Tel: +61 7 3902 4600
NATA# 1261 Site# 20794

Newcastle
1/2 Frost Drive
Mayfield West NSW 2304
Tel: +61 2 4968 8448
NATA# 1261
Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

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

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

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

Project Name: BHHR
Project ID: 63879

Order No.:
Report #: 962621
Phone: 02 8245 0300
Fax:

Received: Feb 9, 2023 10:22 AM
Due: Feb 16, 2023
Priority: 5 Day
Contact Name: Mitch Hodgins

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Hardness Set	Volatile Organics	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B8 (filtered metals)	JBS&G Suite 2	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
96	ED-B7_0.0-0.2	Feb 04, 2023		Soil	M23-Fe0023660	X												
97	ED-B7_0.2-0.3	Feb 04, 2023		Soil	M23-Fe0023661				X	X				X				
98	ED-B8_0.0-0.2	Feb 04, 2023		Soil	M23-Fe0023662				X	X				X				
99	ED-B8_0.3-0.4	Feb 04, 2023		Soil	M23-Fe0023663									X			X	
100	ED-B8_0.8-1.0	Feb 04, 2023		Soil	M23-Fe0023665									X			X	
101	ED-B8_0.0-0.6	Feb 04, 2023		Soil	M23-Fe0023666	X												
102	ED-B9_0.0-0.1	Feb 04, 2023		Soil	M23-Fe0023667				X	X				X				
103	ED-B9_0.0-0.1	Feb 04, 2023		Soil	M23-Fe0023668	X												
104	ED-B9_0.1-0.2	Feb 04, 2023		Soil	M23-Fe0023669									X			X	
105	ED-B9_0.1-0.5	Feb 04, 2023		Soil	M23-Fe0023670	X												
106	GW01	Feb 05, 2023		Water	M23-Fe0023671							X				X		X
107	GW02	Feb 05, 2023		Water	M23-Fe0023672							X				X		X
108	GW03	Feb 05, 2023		Water	M23-Fe0023673							X				X		X
109	DUP01	Feb 02, 2023		Soil	M23-Fe0023674									X			X	

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

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261 Site# 25403

Sydney
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
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Canberra
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Mitchell
ACT 2911
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Brisbane
1/21 Smallwood Place
Murarrie
QLD 4172
Tel: +61 7 3902 4600
NATA# 1261 Site# 20794

Newcastle
1/2 Frost Drive
Mayfield West NSW 2304
Tel: +61 2 4968 8448
NATA# 1261
Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

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

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

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Address: Level 1, 50 Margaret St
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NSW 2000

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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
110	DUP02	Feb 02, 2023		Soil	M23-Fe0023675				X	X				X				
111	DUP03	Feb 03, 2023		Soil	M23-Fe0023676									X			X	
112	DUP04	Feb 03, 2023		Soil	M23-Fe0023677									X			X	
113	DUP06	Feb 03, 2023		Soil	M23-Fe0023678								X	X			X	
114	DUP01	Feb 05, 2023		Water	M23-Fe0023679											X		X
115	Sspk3973	Not Provided		Soil	M23-Fe0023680						X							
116	Wsp8872	Not Provided		Water	M23-Fe0023681						X							
117	WTB01	Feb 05, 2023		Water	M23-Fe0023682						X							
118	STB01	Feb 05, 2023		Water	M23-Fe0023683						X							
119	KW-B1_0.4-0.5	Feb 03, 2023		Soil	M23-Fe0023684			X										
120	KW-B2_0.1-0.3	Feb 03, 2023		Soil	M23-Fe0023685	X												
121	KW-B3_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023686			X										

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

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
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Sydney
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Girraween
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Murarrie
QLD 4172
Tel: +61 7 3902 4600
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Site# 25079 & 25289

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ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
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NATA# 2377 Site# 2370

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
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Tel: 0800 856 450
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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
122	KW-B3_0.3-0.4	Feb 03, 2023		Soil	M23-Fe0023687			X										
123	KW-B3_0.4-0.5	Feb 03, 2023		Soil	M23-Fe0023688			X										
124	KW-B4_0.3-0.4	Feb 03, 2023		Soil	M23-Fe0023689			X										
125	KW-B5_0.9-1.0	Feb 03, 2023		Soil	M23-Fe0023691			X										
126	KW-B6_0.2-0.3	Feb 03, 2023		Soil	M23-Fe0023692			X										
127	KW-B6_0.0-0.6	Feb 03, 2023		Soil	M23-Fe0023693			X										
128	KW-B7_0.0-0.1	Feb 03, 2023		Soil	M23-Fe0023694			X										
129	MH-B2_0.8-0.9	Feb 03, 2023		Soil	M23-Fe0023695			X										

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

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
Grovedale
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Girraween
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Murarrie
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Newcastle
1/2 Frost Drive
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Tel: +61 2 4968 8448
NATA# 1261
Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

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

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
130	MH-B2_1.4-1.5	Feb 03, 2023		Soil	M23-Fe0023696			X										
131	MH-B3_0.5-0.6	Feb 03, 2023		Soil	M23-Fe0023697			X										
132	MH-B6_0.6-0.7	Feb 02, 2023		Soil	M23-Fe0023698			X										
133	MH-B7_0.4-0.5	Feb 02, 2023		Soil	M23-Fe0023699			X										
134	MH-B7_1.1-1.2	Feb 02, 2023		Soil	M23-Fe0023700			X										
135	MH-B8_0.9-1.0	Feb 02, 2023		Soil	M23-Fe0023701			X										
136	MH-B9_0.5-0.6	Feb 02, 2023		Soil	M23-Fe0023702			X										
137	MH-B10_1.0-1.1	Feb 02, 2023		Soil	M23-Fe0023703			X										

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

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261 Site# 25403

Sydney
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261 Site# 18217

Canberra
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Mitchell
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Brisbane
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Murarrie
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Newcastle
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Mayfield West NSW 2304
Tel: +61 2 4968 8448
NATA# 1261
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ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
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NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
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Rolleston,
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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
138	MH-B10_1.4-1.5	Feb 02, 2023		Soil	M23-Fe0023704			X										
139	ED-B1_0.2-0.3	Feb 02, 2023		Soil	M23-Fe0023705			X										
140	ED-B1_1.4-1.5	Feb 02, 2023		Soil	M23-Fe0023706			X										
141	ED-B1_1.9-2.0	Feb 02, 2023		Soil	M23-Fe0023707			X										
142	ED-B2_0.5-0.6	Feb 04, 2023		Soil	M23-Fe0023708			X										
143	ED-B3_0.5-0.6	Feb 04, 2023		Soil	M23-Fe0023709			X										
144	ED-B3_0.7-0.8	Feb 04, 2023		Soil	M23-Fe0023710			X										
145	ED-B4_0.5-0.6	Feb 04, 2023		Soil	M23-Fe0023711			X										
146	ED-B5_0.3-0.4	Feb 02, 2023		Soil	M23-Fe0023712			X										
147	ED-B5_0.9-1.0	Feb 02, 2023		Soil	M23-Fe0023713			X										
148	ED-B6_0.3-0.4	Feb 02, 2023		Soil	M23-Fe0023714			X										
149	ED-B6_0.9-1.0	Feb 02, 2023		Soil	M23-Fe0023715			X										
150	ED-B7_0.3-0.4	Feb 04, 2023		Soil	M23-Fe0023716			X										

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

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne
6 Monterey Road
Dandenong South
VIC 3175
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Geelong
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VIC 3216
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Welshpool
WA 6106
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NZBN: 9429046024954

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Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
151	ED-B7_0.5-0.65	Feb 04, 2023		Soil	M23-Fe0023717			X										
152	ED-B9_0.5-0.6	Feb 04, 2023		Soil	M23-Fe0023718			X										
153	DUP05	Feb 03, 2023		Soil	M23-Fe0023719			X										
154	DUP07	Feb 04, 2023		Soil	M23-Fe0023720			X										
155	DUP08	Feb 04, 2023		Soil	M23-Fe0023721			X										
156	WRB01	Not Provided		Water	M23-Fe0023722												X	
157	SRB01	Not Provided		Water	M23-Fe0023723												X	
158	SRB02	Not Provided		Water	M23-Fe0023724			X										
159	SRB03	Not Provided		Water	M23-Fe0023725			X										
160	ED_B6_0.3-1.0	Not Provided		Soil	M23-Fe0023726			X										
161	KW_B8_0.4-0.5	Not Provided		Building Materials	M23-Fe0023727			X										
162	UNLABELLED	Not Provided		Building	M23-Fe0023728			X										

eurofins

web: www.eurofins.com.au
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Melbourne
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Fax:

Received: Feb 9, 2023 10:22 AM
Due: Feb 16, 2023
Priority: 5 Day
Contact Name: Mitch Hodgins

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Asbestos - WA guidelines	Asbestos Absence /Presence	HOLD	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Hardness Set	Volatile Organics	Moisture Set	NEPM Screen for Soil Classification	Eurofins Suite B8 (filtered metals)	JBS&G Suite 2	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X	X	X	X	X	X	X	X	X	X	X	X
Sydney Laboratory - NATA # 1261 Site # 18217						X												
Brisbane Laboratory - NATA # 1261 Site # 20794															X			
	ASB BAG			Materials														
163	MH_B4_0.4-0.5	Not Provided		Soil	M23-Fe0023729			X										
164	KW_B2_0.5-0.7	Not Provided		Soil	M23-Fe0024121			X										
165	ED-B8_0.5-0.6	Feb 02, 2023		Soil	M23-Fe0024143					X				X				
Test Counts						35	5	44	15	31	4	3	5	71	4	4	42	4

Internal Quality Control Review and Glossary General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with the colour **blue** indicates data provided by customer that may have an impact on the results.
5. Information identified on this report with the colour **orange** indicates sections of the report not covered by the laboratory's scope of NATA accreditation.
6. This report replaces any interim results previously issued.

Holding Times

Please refer to the most recent version of the 'Sample Preservation and Container Guide' for holding times (QS3001).
If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

% w/w:	Percentage weight-for-weight basis, e.g. of asbestos in asbestos-containing finds in soil samples (**% w/w**)
F/fld	Airborne fibre filter loading as Fibres (**N**) per Fields counted (**n**)
F/mL	Airborne fibre reported concentration as Fibres per millilitre of air drawn over the sampler membrane (**C**)
g, kg	Mass, e.g. of whole sample (**M**) or asbestos-containing find within the sample (**m**)
g/kg	Concentration in grams per kilogram
L, mL	Volume, e.g. of air as measured in AFM (**V** = **r** x **t**)
L/min	Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (**r**)
min	Time (**t**), e.g. of air sample collection period

Calculations

Airborne Fibre Concentration: $C = \left(\frac{A}{a}\right) \times \left(\frac{N}{n}\right) \times \left(\frac{1}{r}\right) \times \left(\frac{1}{t}\right) = K \times \left(\frac{N}{n}\right) \times \left(\frac{1}{V}\right)$

Asbestos Content (as asbestos): $\%\, w/w = \frac{(m \times P_A)}{M}$

Weighted Average (of asbestos): $\%_{WA} = \sum \frac{(m \times P_A)_x}{x}$

Terms

%asbestos	Estimated percentage of asbestos in a given matrix. May be derived from knowledge or experience of the material, informed by HSG264 *Appendix 2*, else assumed to be 15% in accordance with WA DOH *Appendix 2* (**P_A**).
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded (non-friable) condition. For the purposes of the NEPM and WA DOH, ACM corresponds to material larger than 7 mm x 7 mm.
AF	Asbestos Fines. Asbestos contamination within a soil sample, as defined by WA DOH. Includes loose fibre bundles and small pieces of friable and non-friable material such as asbestos cement fragments mixed with soil. Considered under the NEPM as equivalent to "non-bonded / friable".
AFM	Airborne Fibre Monitoring, e.g. by the MFM.
Amosite	Amosite Asbestos Detected. Amosite may also refer to Fibrous Grunerite or Brown Asbestos. Identified in accordance with AS 4964-2004.
AS	Australian Standard.
Asbestos Content (as asbestos)	Total % w/w asbestos content in asbestos-containing finds in a soil sample (**% w/w)**.
Chrysotile	Chrysotile Asbestos Detected. Chrysotile may also refer to Fibrous Serpentine or White Asbestos. Identified in accordance with AS 4964-2004.
COC	Chain of Custody.
Crocidolite	Crocidolite Asbestos Detected. Crocidolite may also refer to Fibrous Riebeckite or Blue Asbestos. Identified in accordance with AS 4964-2004.
Dry	Sample is dried by heating prior to analysis.
DS	Dispersion Staining. Technique required for Unequivocal Identification of asbestos fibres by PLM.
FA	Fibrous Asbestos. Asbestos containing material that is wholly or in part friable, including materials with higher asbestos content with a propensity to become friable with handling, and any material that was previously non-friable and in a severely degraded condition. For the purposes of the NEPM and WA DOH, FA generally corresponds to material larger than 7 mm x 7 mm, although FA may be more difficult to visibly distinguish and may be assessed as AF.
Fibre Count	Total of all fibres (whether asbestos or not) meeting the counting criteria set out in the NOHSC:3003
Fibre ID	Fibre Identification. Unequivocal identification of asbestos fibres according to AS 4964-2004. Includes Chrysotile, Amosite (Grunerite) or Crocidolite asbestos.
Friable	Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory's remit to assess degree of friability.
HSG248	UK HSE HSG248, *Asbestos: The Analysts Guide*, 2nd Edition (2021).
HSG264	UK HSE HSG264, *Asbestos: The Survey Guide* (2012).
ISO (also ISO/IEC)	International Organization for Standardization / International Electrotechnical Commission.
K Factor	Microscope constant (**K**) as derived from the effective filter area of the given AFM membrane used for collecting the sample (**A**) and the projected eyepiece graticule area of the specific microscope used for the analysis (**a**).
LOR	Limit of Reporting.
MFM (also NOHSC:3003)	Membrane Filter Method. As described by the Australian Government National Occupational Health and Safety Commission, *Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres*, 2nd Edition [NOHSC:3003(2005)].
NEPM (also ASC NEPM)	National Environment Protection (Assessment of Site Contamination) Measure, (2013, as amended).
Organic	Organic Fibres Detected. Organic may refer to Natural or Man-Made Polymeric Fibres. Identified in accordance with AS 4964-2004.
PCM	Phase Contrast Microscopy. As used for Fibre Counting according to the MFM.
PLM	Polarised Light Microscopy. As used for Fibre Identification and Trace Analysis according to AS 4964-2004.
SMF	Synthetic Mineral Fibre Detected. SMF may also refer to Man Made Vitreous Fibres. Identified in accordance with AS 4964-2004.
SRA	Sample Receipt Advice.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix.
UK HSE HSG	United Kingdom, Health and Safety Executive, Health and Safety Guidance, publication.
UMF	Unidentified Mineral Fibre Detected. Fibrous minerals that are detected but have not been unequivocally identified by PLM with DS according the AS 4964-2004. May include (but not limited to) Actinolite, Anthophyllite or Tremolite asbestos.
WA DOH	Reference document for the NEPM. Government of Western Australia, *Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia* (updated 2021), including Appendix Four: *Laboratory analysis*
Weighted Average	Combined average % w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample (**$\%_{WA}$**).

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	N/A
Some samples have been subcontracted	No

Asbestos Counter/Identifier:

Sayeed Abu	Senior Analyst-Asbestos
Laxman Dias	Senior Analyst-Asbestos
Hiren Patel	Senior Analyst-Asbestos

Authorised by:

Chamath JHM Annakkage	Senior Analyst-Asbestos
Sayeed Abu	Senior Analyst-Asbestos
Rhys Thomas	Senior Analyst-Asbestos



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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eurofins | Environment Testing

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

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

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

Eurofins ARL Pty Ltd

ABN: 91 05 0159 898

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

Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

Auckland	Christchurch
35 O'Rorke Road	43 Detroit Drive
Penrose,	Rolleston,
Auckland 1061	Christchurch 7675
Tel: +64 9 526 45 51	Tel: 0800 856 450
IANZ# 1327	IANZ# 1290

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Mitch Hodgins
Project name:	BHHR
Project ID:	63879
Turnaround time:	5 Day
Date/Time received	Feb 9, 2023 10:22 AM
Eurofins reference	962621

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	Sample Temperature of chilled sample on the batch as recorded by Eurofins Sample Receipt : 10.4 degrees Celsius.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
X	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.
X	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Hardness not available on samples WTB01 and STB01. PFAS analysis not available on samples Sspk3973 and Wsp8872, samples placed on hold. Extra samples KW_B2_0.5-0.7, MH_B4_0.4-0.5, UNLABELLED ASB BAG, KW_B8_0.4-0.5, ED_B6_0.3-1.0, SRB03, SRB02, WRB01, SRB01. Missing KW-B8_0.0-0, KW_B4_0.5-0.7.

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

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

Results will be delivered electronically via email to Mitch Hodgins - mhodgins@jbsg.com.au.

Chain of Custody

JBS&G

PROJECT NO.: 63879	LABORATORY BATCH NO.:
PROJECT NAME: BHHR	SAMPLERS: AJ
DATE NEEDED BY: standard TAT	QC LEVEL: NEPM (2013)

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

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....mhodgins@jbsg.com.au; (3) .....gpinget@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos	JB2	8 Heavy Metals	PAHs	VOCs	R21		Water: B8	Water: 28 PFAS	Water: BTEX	Hardness							TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
KW-B1_0.0-0.1	Soil	3/2/23		1 Jar			X				X														
KW-B1_0.2-0.3	Soil	3/2/23		1 Jar				X	X																
KW-B1_0.4-0.5	Soil	3/2/23		1 Jar																					
KW-B1_0.0-0.5	Soil	3/2/23		1 Bag		X																		X	
KW-B2_0.0-0.1	Soil	3/2/23		1 Jar			X																		
KW-B2_0.0-0.1	Soil	3/2/23		1 Bag		X																		X	
KW-B2_0.1-0.3	Soil	3/2/23		1 Jar																					
KW-B2_0.1-0.3	Soil	3/2/23		1 Bag		X																		X	
KW-B2_0.3-0.4	Soil	3/2/23		1 Jar			X																		
KW-B3_0.0-0.1	Soil	3/2/23		1 Jar																					
KW-B3_0.1-0.2	Soil	3/2/23		1 Jar			X			X															
KW-B3_0.25-0.3	Soil	3/2/23		1 Jar			X																		
KW-B3_0.3-0.4	Soil	3/2/23		1 Jar																					
KW-B3_0.4-0.5	Soil	3/2/23		1 Jar																					
KW-B3_0.0-0.4	Soil	3/2/23		1 Bag		X																		X	
KW-B3_0.0-0.4A	Soil	3/2/23		1 Bag		X																			
KW-B4_0.0-0.1	Soil	3/2/23		1 Jar				X	X																
KW-B4_0.0-0.1	Soil	3/2/23		1 Bag		X																		X	
KW-B4_0.1-0.3	Soil	3/2/23		1 Jar			X																		
KW-B4_0.1-0.3	Soil	3/2/23		1 Bag		X																		X	
KW-B4_0.1-0.3A	Soil	3/2/23		1 Bag		X																			
KW-B4_0.3-0.4	Soil	3/2/23		1 Jar																					
KW-B4_0.5-0.7	Soil	3/2/23		1 Jar																					
KW-B5_0.1-0.2	Soil	3/2/23		1 Jar			X				X														
KW-B5_0.4-0.5	Soil	3/2/23		1 Jar				X	X																

#962621
10/4/23
F

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#962621
10/4/23

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos	JB2	8 Heavy Metals	PAHs	VOCs	R21		Water: B8	Water: 28 PFAS	Water: BTEX	Hardness								TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
KW-B5_0.9-1.0	Soil	3/2/23		1 Jar																						
KW-B5_0.1-0.4	Soil	3/2/23		1 Bag		X																			X	
KW-B5_0.4-1.0	Soil	3/2/23		1 Bag		X																			X	
KW-B6_0.0-0.1	Soil	3/2/23		1 Jar				X	X																	
KW-B6_0.2-0.3	Soil	3/2/23		1 Jar																						
KW-B6_0.5-0.6	Soil	3/2/23		1 Jar			X																			
KW-B6_0.0-0.6	Soil	3/2/23		1 Bag		X																				
KW-B7_0.0-0.1	Soil	3/2/23		1 Jar																						
KW-B7_0.2-0.3	Soil	3/2/23		1 Jar			X																			
KW-B7_0.5-0.6	Soil	3/2/23		1 Jar				X	X																	
KW-B7_0.0-0.6	Soil	3/2/23		1 Bag		X																			X	
KW-B7_0.0-0.6A	Soil	3/2/23		1 Bag		X																		X		
KW-B8_0.0-0.1	Soil	3/2/23		1 Jar			X																			
KW-B8_0.2-0.4	Soil	3/2/23		1 Jar			X			X																
KW-B8_0.0-0.4	Soil	3/2/23		1 Bag		X																			X	
KW-B8_0.0-0	Soil	3/2/23		1 Bag		X																		X		
MH-B1_0.0-0.1	Soil	3/2/23		1 Jar				X																		
MH-B1_0.0-0.1	Soil	3/2/23		1 Bag		X																			X	
MH-B1_0.1-0.2	Soil	3/2/23		1 Jar			X			X																
MH-B1_0.1-0.2 •	Soil	3/2/23		1 Bag		X																			X	
MH-B1_0.2-0.3	Soil	3/2/23		1 Jar				X																		
MH-B1_0.2-0.3 •	Soil	3/2/23		1 Bag		X																			X	
MH-B2_0.2-0.3	Soil	3/2/23		1 Jar				X																		
MH-B2_0.4-0.5	Soil	3/2/23		1 Jar			X																			
MH-B2_0.8-0.9	Soil	3/2/23		1 Jar																						

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MH-B2_1.4-1.5	Soil	3/2/23		1 Jar																						
MH-B2_0.2-0.8	Soil	3/2/23		1 Bag		X																			X	
MH-B3_0.0-0.1	Soil	3/2/23		1 Jar			X																			
MH-B3_0.2-0.3	Soil	3/2/23		1 Jar				X																		
MH-B3_0.5-0.6	Soil	3/2/23		1 Jar																						
MH-B3_0.8-1.0	Soil	3/2/23		1 Jar			X																			
MH-B3_0.0-0.6	Soil	3/2/23		1 Bag		X																			X	
MH-B3_0.8-1.0	Soil	3/2/23		1 Bag		X																			X	
MH-B4_0.2-0.3	Soil	3/2/23		1 Jar			X																			
MH-B4_0.6-0.7	Soil	3/2/23		1 Jar				X																		
MH-B4_0.0-0.6	Soil	3/2/23		1 Bag		X																			X	
MH-B5_0.0-0.1	Soil	2/2/23		1 Jar				X																		
MH-B5_0.1-0.2	Soil	2/2/23		1 Jar			X																			
MH-B5_0.4-0.5	Soil	2/2/23		1 Jar			X																			
MH-B5_0.8-0.9	Soil	2/2/23		1 Jar				X																		
MH-B5_0.0-0.9	Soil	2/2/23		1 Bag		X																			X	
MH-B6_0.0-0.1	Soil	2/2/23		1 Jar			X			X																
MH-B6_0.2-0.3	Soil	2/2/23		1 Jar				X	X		X															
MH-B6_0.4-0.5	Soil	2/2/23		1 Jar				X																		
MH-B6_0.6-0.7	Soil	2/2/23		1 Jar																						
MH-B6_0.0-0.6	Soil	2/2/23		1 Bag		X																			X	
MH-B7_0.0-0.1	Soil	2/2/23		1 Jar				X	X																	
MH-B7_0.2-0.3	Soil	2/2/23		1 Jar			X																			
MH-B7_0.4-0.5	Soil	2/2/23		1 Jar																						
MH-B7_0.9-1.0	Soil	2/2/23		1 Jar			X																			

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SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos	JB2	8 Heavy Metaks	PAHs	VOCs	R21		Water: B8	Water: 28 PFAS	Water: BTEX	Hardness								TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
MH-B7_1.1-1.2	Soil	2/2/23		1 Jar																						
MH-B7_0.0-1.0	Soil	2/2/23		1 Bag		X																			X	
MH-B8_0.1-0.2	Soil	2/2/23		1 Jar				X	X																	
MH-B8_0.4-0.5	Soil	2/2/23		1 Jar			X																			
MH-B8_0.5-0.6	Soil	2/2/23		1 Jar				X																		
MH-B8_0.9-1.0	Soil	2/2/23		1 Jar																						
MH-B8_0.1-0.3	Soil	2/2/23		1 Bag		X																			X	
MH-B8_0.3-0.5	Soil	2/2/23		1 Bag		X																			X	
MH-B9_0.0-0.1	Soil	2/2/23		1 Jar				X	X																	
MH-B9_0.2-0.3	Soil	2/2/23		1 Jar			X																			
MH-B9_0.5-0.6	Soil	2/2/23		1 Jar																						
MH-B9_0.9-1.0	Soil	2/2/23		1 Jar			X																			
MH-B9_0.0-0.5	Soil	2/2/23		1 Bag		X																			X	
MH-B10_0.0-0.2	Soil	2/2/23		1 Jar			X																			
MH-B10_0.0-0.2	Soil	2/2/23		1 Bag		X																			X	
MH-B10_0.0-0.2A	Soil	2/2/23		1 Bag		X																		X		
MH-B10_0.2-0.4	Soil	2/2/23		1 Jar			X																			
MH-B10_0.5-0.6	Soil	2/2/23		1 Jar				X																		
MH-B10_1.0-1.1	Soil	2/2/23		1 Jar																						
MH-B10_1.4-1.5	Soil	2/2/23		1 Jar																						
MH-B10_0.2-1.0	Soil	2/2/23		1 Bag		X																			X	
MH-B10_0.2-1.0A	Soil	2/2/23		1 Bag		X																		X		
ED-B1_0.0-0.1	Soil	2/2/23		1 Jar			X				X															
ED-B1_0.2-0.3	Soil	2/2/23		1 Jar																						
ED-B1_0.4-0.5	Soil	2/2/23		1 Jar				X	X																	

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Chain of Custody

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PROJECT NO.: 63879	LABORATORY BATCH NO.:
PROJECT NAME: BHHR	SAMPLERS: AJ
DATE NEEDED BY: standard TAT	QC LEVEL: NEPM (2013)
PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113	
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....mhodgins@jbsg.com.au; (3) .....gpinget@jbsg.com.au	

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos	JB2	8 Heavy Metaks	PAHs	VOCs	R21		Water: B8	Water: 28 PFAS	Water: BTEX	Hardness								TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
ED-B1_0.9-1.0	Soil	2/2/23		1 Jar				X																		
ED-B1_1.4-1.5	Soil	2/2/23		1 Jar																						
ED-B1_1.9-2.0	Soil	2/2/23		1 Jar																						
ED-B1_0.0-1.0	Soil	2/2/23		1 Bag		X																			X	
ED-B2_0.0-0.1	Soil	4/2/23		1 Jar				X	X																	
ED-B2_0.2-0.3	Soil	4/2/23		1 Jar			X																			
ED-B2_0.5-0.6	Soil	4/2/23		1 Jar																						
ED-B2_0.0-0.3	Soil	4/2/23		1 Bag		X																			X	
ED-B3_0.0-0.1	Soil	4/2/23		1 Jar			X																			
ED-B3_0.2-0.3	Soil	4/2/23		1 Jar				X																		
ED-B3_0.5-0.6	Soil	4/2/23		1 Jar																						
ED-B3_0.7-0.8	Soil	4/2/23		1 Jar																						
ED-B3_0.0-0.7	Soil	4/2/23		1 Bag		X																			X	
ED-B4_0.1-0.2	Soil	4/2/23		1 Jar				X																		
ED-B4_0.4-0.5	Soil	4/2/23		1 Jar			X																			
ED-B4_0.5-0.6	Soil	4/2/23		1 Jar																						
ED-B4_0.1-0.5	Soil	4/2/23		1 Bag		X																			X	
ED-B5_0.0-0.1	Soil	2/2/23		1 Jar			X																			
ED-B5_0.2-0.3	Soil	2/2/23		1 Jar				X																		
ED-B5_0.3-0.4	Soil	2/2/23		1 Jar																						
ED-B5_0.9-1.0	Soil	2/2/23		1 Jar																						
ED-B5_0.0-0.3	Soil	2/2/23		1 Bag		X																			X	
ED-B6_0.1-0.2	Soil	2/2/23		1 Jar				X																		
ED-B6_0.2-0.3	Soil	2/2/23		1 Jar			X																			
ED-B6_0.3-0.4	Soil	2/2/23		1 Jar																						

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Chain of Custody

JBS&G

PROJECT NO.: 63879	LABORATORY BATCH NO.:
PROJECT NAME: BHHR	SAMPLERS: AJ
DATE NEEDED BY: standard TAT	QC LEVEL: NEPM (2013)
PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113	
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....mhodgins@jbsg.com.au; (3) .....gpinget@jbsg.com.au	

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos	JB2	8 Heavy Metaks	PAHs	VOCs	R21		Water: B8	Water: 28 PFAS	Water: BTEX	Hardness								TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
ED-B6_0.9-1.0	Soil	2/2/23		1 Jar																					
ED-B6_0.1-0.3	Soil	2/2/23		1 Bag		X																			X	
ED-B7_0.0-0.2	Soil	4/2/23		1 Jar			X																		
ED-B7_0.0-0.2	Soil	4/2/23		1 Bag		X																			X	
ED-B7_0.2-0.3	Soil	4/2/23		1 Jar				X	X																
ED-B7_0.3-0.4	Soil	4/2/23		1 Jar																					
ED-B7_0.5-0.65	Soil	4/2/23		1 Jar																					
ED-B8_0.0-0.2	Soil	4/2/23		1 Jar				X	X																
ED-B8_0.3-0.4	Soil	4/2/23		1 Jar			X																		
ED-B8_0.5-0.6	Soil	4/2/23		1 Jar				X																	
ED-B8_0.8-1.0	Soil	4/2/23		1 Jar			X																		
ED-B8_0.0-0.6	Soil	4/2/23		1 Bag		X																			X	
ED-B9_0.0-0.1	Soil	4/2/23		1 Jar				X	X																
ED-B9_0.0-0.1	Soil	4/2/23		1 Bag		X																			X	
ED-B9_0.1-0.2	Soil	4/2/23		1 Jar			X																		
ED-B9_0.5-0.6	Soil	4/2/23		1 Jar																					
ED-B9_0.1-0.5	Soil	4/2/23		1 Bag		X																			X	
GW01	Water	5/2/23		2A, 4V, 2P, 1PFAS									X	X		X										PAHs = low level
GW02	Water	5/2/23		2A, 4V, 2P, 1PFAS									X	X		X										PAHs = low level
GW03	Water	5/2/23		2A, 4V, 2P, 1PFAS									X	X		X										PAHs = low level
DUP01	Soil	2/2/23		1 Jar			X																		
DUP02	Soil	2/2/23		1 Jar				X	X																
DUP03	Soil	3/2/23		1 Jar			X																		
DUP04	Soil	3/2/23		1 Jar			X																		
DUP05	Soil	3/2/23		1 Bag		X																			

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Chain of Custody

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PROJECT NO.: 63879	LABORATORY BATCH NO.:
PROJECT NAME: BHHR	SAMPLERS: AJ
DATE NEEDED BY: standard TAT	QC LEVEL: NEPM (2013)
PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113	
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COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos	JB2	8 Heavy Metaks	PAHs	VOCs	R21		Water: B8	Water: 28 PFAS	Water: BTEX	Hardness								TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
DUP06	Soil	3/2/23		1 Jar			X			X																
DUP07	Soil	4/2/23		1 Jar																						
DUP08	Soil	4/2/23		1 Bag																						
DUP01	Water	5/2/23		2A, 4V, 2P, 1 PFAS									X	X												
Sspk3973				1 Vial										X												
Wsp8872	Water			1 Vial										X												
WTB01	Water	5/2/23		1 Vial											X	X										
STB01	Water	5/2/23		1 Vial											X	X										

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Chain of Custody

JBS&G

PROJECT NO.: 63879	LABORATORY BATCH NO.:
PROJECT NAME: BHHR	SAMPLERS: AJ
DATE NEEDED BY: standard TAT	QC LEVEL: NEPM (2013)

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

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COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos	JB2	8 Heavy Metaks	PAHs	VOCs	R21		Water: B8	Water: 28 PFAS	Water: BTEX	Hardness								TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA
SPLIT01	Soil	2/2/23		1 Jar			X																		
SPLIT02	Soil	2/2/23		1 Jar				X	X																
SPLIT03	Soil	3/2/23		1 Jar			X																		
SPLIT04	Soil	3/2/23		1 Jar			X																		
SPLIT05	Soil	3/2/23		1 Bag		X																			X
SPLIT06	Soil	3/2/23		1 Jar			X			X															
SPLIT07	Soil	4/2/23		1 Jar																					
SPLIT08	Soil	4/2/23		1 Bag		X																			X
SPLIT01	Water	5/2/23		2A, 4V, 2P, 1 PFAS									X	X											

NOTES:

SPLIT SAMPLES TO BE FORWARDED TO ENVIROLAB ASAP PLEASE

JB2 = Combo 5
Water B8 = 8 HM, PAHs (Trace), TRH and VOCs

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: MH DATE: 8/2/23 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C
NAME: DATE: OF:	CONSIGNMENT NOTE NO. TRANSPORT CO	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C

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

COPY

13

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Tyrone Gowans

From: Andrew James <ajames@jbsg.com.au>
Sent: Thursday, 9 February 2023 11:15 AM
To: Amy Meunier
Cc: #AU_CAU001_EnviroSampleVic; Parimal Acharya
Subject: Re: Samples Recieved: 63879
Attachments: 63879_COC.doc

Follow Up Flag: Follow up
Flag Status: Flagged

CAUTION: EXTERNAL EMAIL - Sent from an email domain that is not formally trusted by Eurofins.
Do not click on links or open attachments unless you recognise the sender and are certain that the content is safe.

Hi Amy and co, please see attached

Kind regards

Andrew James
0438 849 614

From: Amy Meunier <AmyMeunier@eurofins.com>
Sent: Thursday, February 9, 2023 10:22:55 AM
To: Andrew James <ajames@jbsg.com.au>
Cc: #AU_CAU001_EnviroSampleVic <EnviroSampleVic@eurofins.com>; Parimal Acharya <ParimalAcharya@eurofins.com>
Subject: Samples Recieved: 63879

[EXTERNAL EMAIL] Stop and think before opening attachments, clicking or responding.

Hi Andrew,

We have received samples for project 63879, please send through analysis when available.

Kind regards,

Amy Meunier

Analytical Services Manager
Mobile : +61 477 574 867
Email : AmyMeunier@eurofins.com

Eurofins
6 Monterey Road,
Dandenong VIC 3175
Australia

To see Eurofins full Field Services Capabilities click here

eurofins | Environment Testing

PROJECT INFORMATION

Date Received: 06/02/'23

Company: JBS&G

Contact person: Andrew. J

Contact Number:

Contact E-mail:

Project Name/site:

Project Number: 63879

COC: **Attached** ☐
E-mailed ☑
Not received ☐

10.1°C
+0.3°C
10.4°C
on ice/1B.

#962621
10/2/23

Last modified on: 16 October 2019	Approved on: 16 October 2019	Version: QS1039_R2
Last modified by: H. Le	Approver: M. Makarios	Page 1 of 1
Editorial Committee: T. Lakeland, F. Sanjaya, H. Le, M. Makarios		Next required review date: 16 October 2022

Tyrone Gowans

From: Rob Sharp <RSharp@jbsg.com.au>
Sent: Wednesday, 15 February 2023 1:53 PM
To: #AU_CAU001_EnviroSampleVic
Cc: Mitchell Hodgins; Gina Pinget; Andrew James
Subject: FW: Eurofins Sample Receipt Advice - Report 962621 : Site BHHR (63879)

Follow Up Flag: Follow up
Flag Status: Flagged

CAUTION: EXTERNAL EMAIL - Sent from an email domain that is not formally trusted by Eurofins.
Do not click on links or open attachments unless you recognise the sender and are certain that the content is safe.

Hi Jessica,

Can I please get the following scheduled for analysis for report 962621

WRB01 – JB2
SRB01 – JB2
WTB01 – Btex
STB01 – Btex
Sspk3972 – Btex
Wsp8872 – Btex

Thanks

Rob

Robert Sharp | Project Manager | JBS&G
Gadigal Country | 50 Margaret Street, Sydney, NSW
T: 02 8245 0300 | M: 0435 152 557 | E: rsharp@jbsg.com.au | W: jbsg.com.au | L: Conditions and Limitations

Exceptional Outcomes

From: EnviroSampleVic@eurofins.com <EnviroSampleVic@eurofins.com>
Sent: Friday, 10 February 2023 5:50 PM
To: Mitchell Hodgins <MHodgins@jbsg.com.au>
Cc: Gina Pinget <gpinget@jbsg.com.au>
Subject: Eurofins Sample Receipt Advice - Report 962621 : Site BHHR (63879)

[EXTERNAL EMAIL] Stop and think before opening attachments, clicking or responding.

Dear Valued Client,

Hardness not available on samples WTB01 and STB01. PFAS analysis not available on samples Sspk3973

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

NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: **Mitch Hodgins**

Report **967191-L**
Project name BHHR
Project ID 63879
Received Date Feb 24, 2023

Client Sample ID			**KW-B3_0.1-0.2**	**KW-B3_0.1-0.2**	**DUP04**	**KW-B5_0.1-0.2**
Sample Matrix			**AUS Leachate**	**US Leachate**	**US Leachate**	**US Leachate**
Eurofins Sample No.			**M23-Fe0062289**	**M23-Fe0062290**	**M23-Fe0062291**	**M23-Fe0062292**
Date Sampled			**Feb 03, 2023**	**Feb 03, 2023**	**Feb 03, 2023**	**Feb 03, 2023**
Test/Reference	LOR	Unit				
Heavy Metals						
Lead	0.01	mg/L	0.63	5.9	0.30	0.24
Nickel	0.01	mg/L	-	< 0.01	-	-
AUS Leaching Procedure						
Leachate Fluid[C01]		comment	1.0	-	-	-
pH (initial)	0.1	pH Units	8.7	-	-	-
pH (Leachate fluid)	0.1	pH Units	5.0	-	-	-
pH (off)	0.1	pH Units	6.2	-	-	-
USA Leaching Procedure						
Leachate Fluid[C01]		comment	-	1.0	1.0	1.0
pH (initial)	0.1	pH Units	-	8.8	8.7	8.7
pH (Leachate fluid)	0.1	pH Units	-	5.0	5.0	5.0
pH (off)	0.1	pH Units	-	6.2	6.1	5.0
pH (USA HCl addition)	0.1	pH Units	-	1.6	1.6	1.6

Client Sample ID			**KW-B7_0.2-0.3**	**MH-B10_0.5-0.6**	**MH-B10_0.2-0.4**	**MH-B1_0.2-0.3**
Sample Matrix			**US Leachate**	**US Leachate**	**US Leachate**	**US Leachate**
Eurofins Sample No.			**M23-Fe0062293**	**M23-Fe0062294**	**M23-Fe0062295**	**M23-Fe0062296**
Date Sampled			**Feb 03, 2023**	**Feb 02, 2023**	**Feb 02, 2023**	**Feb 03, 2023**
Test/Reference	LOR	Unit				
Heavy Metals						
Lead	0.01	mg/L	0.06	0.04	0.03	0.07
USA Leaching Procedure						
Leachate Fluid[C01]		comment	1.0	1.0	1.0	1.0
pH (initial)	0.1	pH Units	8.3	8.3	8.1	8.5
pH (Leachate fluid)	0.1	pH Units	5.0	5.0	5.0	5.0
pH (off)	0.1	pH Units	6.6	6.1	6.1	5.3
pH (USA HCl addition)	0.1	pH Units	1.6	1.5	1.6	1.6
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene	0.0005	mg/L	< 0.0005	-	-	-

Client Sample ID			MH-B2_0.2-0.3	ED-B8_0.0-0.2	KW-B3_0.25-0.3
Sample Matrix			US Leachate	US Leachate	US Leachate
Eurofins Sample No.			M23-Fe0062297	M23-Fe0062298	M23-Fe0062299
Date Sampled			Feb 03, 2023	Feb 04, 2023	Feb 03, 2023
Test/Reference	LOR	Unit			
Heavy Metals					
Arsenic	0.01	mg/L	-	0.02	-
Lead	0.01	mg/L	0.06	-	-
USA Leaching Procedure					
Leachate Fluid[C01]		comment	1.0	1.0	1.0
pH (initial)	0.1	pH Units	8.6	8.6	8.4
pH (Leachate fluid)	0.1	pH Units	5.0	5.0	5.0
pH (off)	0.1	pH Units	5.7	5.2	5.6
pH (USA HCl addition)	0.1	pH Units	1.6	1.6	1.7
Polycyclic Aromatic Hydrocarbons					
Benzo(a)pyrene	0.0005	mg/L	-	-	< 0.0005

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Heavy Metals	Melbourne	Feb 27, 2023	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
AUS Leaching Procedure			
pH (initial)	Melbourne	Feb 27, 2023	0 Days
- Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes			
pH (Leachate fluid)	Melbourne	Feb 27, 2023	0 Days
- Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes			
pH (off)	Melbourne	Feb 27, 2023	0 Days
- Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes			
Polycyclic Aromatic Hydrocarbons	Melbourne	Feb 27, 2023	7 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261 Site# 25403

Sydney
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261 Site# 18217

Canberra
Unit 1,2 Dacre Street
Mitchell
ACT 2911
Tel: +61 2 6113 8091
NATA# 1261 Site# 25466

Brisbane
1/21 Smallwood Place
Murarrie
QLD 4172
Tel: +61 7 3902 4600
NATA# 1261 Site# 20794

Newcastle
1/2 Frost Drive
Mayfield West NSW 2304
Tel: +61 2 4968 8448
NATA# 1261
Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

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

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

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

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

Project Name: BHHR
Project ID: 63879

Order No.:
Report #: 967191
Phone: 02 8245 0300
Fax:

Received: Feb 24, 2023 7:49 PM
Due: Feb 28, 2023
Priority: 1 Day
Contact Name: Mitch Hodgins

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Arsenic	Benzo(a)pyrene	Lead	Nickel	AUS Leaching Procedure	USA Leaching Procedure	Moisture Set
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X
External Laboratory												
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**							
1	KW-B3_0.25-0.3	Feb 03, 2023		Soil	M23-Fe0062286			X				X
2	KW-B3_0.3-0.4	Feb 03, 2023		Soil	M23-Fe0062287			X				X
3	KW-B3_0.4-0.5	Feb 03, 2023		Soil	M23-Fe0062288			X				X
4	KW-B3_0.1-0.2	Feb 03, 2023		AUS Leachate	M23-Fe0062289			X		X		
5	KW-B3_0.1-0.2	Feb 03, 2023		US Leachate	M23-Fe0062290			X	X		X	
6	DUP04	Feb 03, 2023		US Leachate	M23-Fe0062291			X			X	
7	KW-B5_0.1-0.2	Feb 03, 2023		US Leachate	M23-Fe0062292			X			X	
8	KW-B7_0.2-0.3	Feb 03, 2023		US Leachate	M23-Fe0062293		X	X			X	

eurofins

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

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261 Site# 25403

Sydney
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
NATA# 1261 Site# 18217

Canberra
Unit 1,2 Dacre Street
Mitchell
ACT 2911
Tel: +61 2 6113 8091
NATA# 1261 Site# 25466

Brisbane
1/21 Smallwood Place
Murarrie
QLD 4172
Tel: +61 7 3902 4600
NATA# 1261 Site# 20794

Newcastle
1/2 Frost Drive
Mayfield West NSW 2304
Tel: +61 2 4968 8448
NATA# 1261
Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

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

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

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

Project Name: BHHR
Project ID: 63879

Order No.:
Report #: 967191
Phone: 02 8245 0300
Fax:

Received: Feb 24, 2023 7:49 PM
Due: Feb 28, 2023
Priority: 1 Day
Contact Name: Mitch Hodgins

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Arsenic	Benzo(a)pyrene	Lead	Nickel	AUS Leaching Procedure	USA Leaching Procedure	Moisture Set
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X
9	MH-B10_0.5-0.6	Feb 02, 2023		US Leachate	M23-Fe0062294			X			X	
10	MH-B10_0.2-0.4	Feb 02, 2023		US Leachate	M23-Fe0062295			X			X	
11	MH-B1_0.2-0.3	Feb 03, 2023		US Leachate	M23-Fe0062296			X			X	
12	MH-B2_0.2-0.3	Feb 03, 2023		US Leachate	M23-Fe0062297			X			X	
13	ED-B8_0.0-0.2	Feb 04, 2023		US Leachate	M23-Fe0062298	X					X	
14	KW-B3_0.25-0.3	Feb 03, 2023		US Leachate	M23-Fe0062299		X				X	
Test Counts						1	2	12	1	1	10	3

Internal Quality Control Review and Glossary

General

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

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

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

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

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

mg/kg: milligrams per kilogram	**mg/L:** milligrams per litre	**µg/L:** micrograms per litre
ppm: parts per million	**ppb:** parts per billion	**%:** Percentage
org/100 mL: Organisms per 100 millilitres	**NTU:** Nephelometric Turbidity Units	**MPN/100 mL:** Most Probable Number of organisms per 100 millilitres
CFU: Colony forming unit		

Terms

APHA	American Public Health Association
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment however free tributyltin was measured and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 5.4
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should be used as a guide only and may be different when site specific Sampling Analysis and Quality Plan (SAQP) have been implemented

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.4 where no positive PFAS results have been reported have been reviewed and no data was affected.

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank									
Heavy Metals									
Arsenic			mg/L	< 0.01			0.01	Pass	
Lead			mg/L	< 0.01			0.01	Pass	
Nickel			mg/L	< 0.01			0.01	Pass	
LCS - % Recovery									
Heavy Metals									
Arsenic			%	90			80-120	Pass	
Lead			%	104			80-120	Pass	
Nickel			%	106			80-120	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M23-Fe0062291	CP	%	104			75-125	Pass	
Lead	M23-Fe0062291	CP	%	115			75-125	Pass	
Nickel	M23-Fe0062291	CP	%	117			75-125	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M23-Fe0060891	NCP	%	105			75-125	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M23-Fe0062291	CP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Lead	M23-Fe0062291	CP	mg/L	0.30	0.30	1.4	30%	Pass	
Nickel	M23-Fe0062291	CP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M23-Fe0060891	NCP	mg/L	0.02	0.02	<1	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
C01	Leachate Fluid Key: 1 - pH 5.0; 2 - pH 2.9; 3 - pH 9.2; 4 - Reagent (DI) water; 5 - Client sample, 6 - other

Authorised by:

Andrew Black	Analytical Services Manager
Edward Lee	Senior Analyst-Organic
Mary Makarios	Senior Analyst-Sample Properties
Scott Beddoes	Senior Analyst-Metal



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

Eurofins shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

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

NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: **Mitch Hodgins**

Report **967191-S**
Project name BHHR
Project ID 63879
Received Date Feb 24, 2023

Client Sample ID			**KW-B3_0.25-0.3**	**KW-B3_0.3-0.4**	**KW-B3_0.4-0.5**
Sample Matrix			**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**M23-Fe0062286**	**M23-Fe0062287**	**M23-Fe0062288**
Date Sampled			**Feb 03, 2023**	**Feb 03, 2023**	**Feb 03, 2023**
Test/Reference	LOR	Unit			
Heavy Metals					
Lead	5	mg/kg	180	700	66
Sample Properties					
% Moisture	1	%	6.5	5.4	4.4

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Heavy Metals	Melbourne	Feb 27, 2023	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
% Moisture	Melbourne	Feb 27, 2023	14 Days
- Method: LTM-GEN-7080 Moisture			

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
Grovedale
VIC 3216
Tel: +61 3 8564 5000
NATA# 1261 Site# 25403

Sydney
179 Magowar Road
Girraween
NSW 2145
Tel: +61 2 9900 8400
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Canberra
Unit 1,2 Dacre Street
Mitchell
ACT 2911
Tel: +61 2 6113 8091
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Brisbane
1/21 Smallwood Place
Murarrie
QLD 4172
Tel: +61 7 3902 4600
NATA# 1261 Site# 20794

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1/2 Frost Drive
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Tel: +61 2 4968 8448
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Site# 25079 & 25289

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

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

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

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

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

Project Name: BHHR
Project ID: 63879

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Phone: 02 8245 0300
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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X
External Laboratory												
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**							
1	KW-B3_0.25-0.3	Feb 03, 2023		Soil	M23-Fe0062286			X				X
2	KW-B3_0.3-0.4	Feb 03, 2023		Soil	M23-Fe0062287			X				X
3	KW-B3_0.4-0.5	Feb 03, 2023		Soil	M23-Fe0062288			X				X
4	KW-B3_0.1-0.2	Feb 03, 2023		AUS Leachate	M23-Fe0062289			X		X		
5	KW-B3_0.1-0.2	Feb 03, 2023		US Leachate	M23-Fe0062290			X	X		X	
6	DUP04	Feb 03, 2023		US Leachate	M23-Fe0062291			X			X	
7	KW-B5_0.1-0.2	Feb 03, 2023		US Leachate	M23-Fe0062292			X			X	
8	KW-B7_0.2-0.3	Feb 03, 2023		US Leachate	M23-Fe0062293		X	X			X	

eurofins

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6. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Lab Sample ID	QA Source	Units	Result 1	Result 2	RPD	Acceptance Limits	Pass Limits	Qualifying Code
Method Blank									
Heavy Metals									
Lead			mg/kg	< 5			5	Pass	
LCS - % Recovery									
Heavy Metals									
Lead			%	108			80-120	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Spike - % Recovery									
Heavy Metals				Result 1					
Lead	M23-Fe0061462	NCP	%	82			75-125	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Lead	M23-Fe0062286	CP	mg/kg	180	180	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Lead	M23-Fe0062287	CP	mg/kg	700	700	<1	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	M23-Fe0062288	CP	%	4.4	4.4	<1	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Authorised by:

Andrew Black	Analytical Services Manager
Mary Makarios	Senior Analyst-Metal
Mary Makarios	Senior Analyst-Sample Properties



Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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

Eurofins Environment Testing Australia Pty Ltd

ABN: 50 005 085 521

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

Geelong
19/8 Lewalan Street
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VIC 3216
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Sydney
179 Magowar Road
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NSW 2145
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Unit 1,2 Dacre Street
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1/21 Smallwood Place
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ABN: 91 05 0159 898

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

Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

Auckland
35 O'Rorke Road
Penrose,
Auckland 1061
Tel: +64 9 526 45 51
IANZ# 1327

Christchurch
43 Detroit Drive
Rolleston,
Christchurch 7675
Tel: 0800 856 450
IANZ# 1290

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Mitch Hodgins
Project name:	BHHR
Project ID:	63879
Turnaround time:	1 Day
Date/Time received	Feb 24, 2023 7:49 PM
Eurofins reference	967191

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
X	Split sample sent to requested external lab.
X	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Samples received by the laboratory after 5.30pm are deemed to have been received the following working day.

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

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

Results will be delivered electronically via email to Mitch Hodgins - mhodgins@jbsg.com.au.

Global Leader - Results you can trust

Tyrone Gowans

From: Adam Bateup
Sent: Friday, 24 February 2023 7:49 PM
To: #AU_CAU001_EnviroSampleVic
Subject: FW: Eurofins Test Results - Report 962621 : Site BHHR (63879)
Attachments: RE: Eurofins Test Results - Report 962621 : Site BHHR (63879)

Importance: High

Follow Up Flag: Follow up
Flag Status: Completed

Categories: ADDITIONALS

INFO: INTERNAL EMAIL - Sent from your own Eurofins email domain.

Hey Melbourne,

One-day TAT additional for samples sent to you from Newcastle, apologies for only getting this to you now.

Kind Regards,

Adam Bateup
Assistant Analytical Services Manager
My hours are 3 pm - 11 pm

Eurofins Environment Testing Australia Pty Ltd
179 Magowar Road
Girraween, NSW, 2145

Email: Adam Bateup
Phone: 0413 917 819
Website: www.eurofins.com.au/environmental-testing

#96719
27/2/23

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Tyrone Gowans

From: Mitchell Hodgins <MHodgins@jbsg.com.au>
Sent: Friday, 24 February 2023 3:54 PM
To: Adam Bateup
Cc: Ekaterina Arsenteva
Subject: RE: Eurofins Test Results - Report 962621 : Site BHHR (63879)

Follow Up Flag: Follow up
Flag Status: Flagged

CAUTION: EXTERNAL EMAIL - Sent from an email domain that is not formally trusted by Eurofins.
Do not click on links or open attachments unless you recognise the sender and are certain that the content is safe.

Hi Adam,

Can I please order some additional analysis for this lab batch on 24hr TAT?

- Lead (mg/kg)
  - KW-B3_0.25-0.3 — 572 — G326 — FF202
  - KW-B3_0.3-0.4 — 687 — H436 — A302
  - KW-B3_0.4-0.5 — 688
- ASLP – Lead
  - KW-B3_0.1-0.2 — 571 — 326
- TCLP – Lead
  - KW-B3_0.1-0.2
  - DUP04 — 677 — G596 — FF202
  - KW-B5_0.1-0.2 — 580 — 597 — FF203
  - KW-B7_0.2-0.3 — 586
  - MH-B10_0.5-0.6 — 637 — G525 — FF202
  - MH-B10_0.2-0.4 — C36
  - MH-B1_0.2-0.3 — 598 — 597
  - MH-B2_0.2-0.3 — 600
- TCLP – nickel
  - KW-B3_0.1-0.2 — 662 — 1338 — FF203
- TCLP – arsenic
  - ED-B8_0.0-0.2
- TCLP – B(a)P
  - KW-B3_0.25-0.3
  - KW-B7_0.2-0.3

#967141
27/2/23

Regards,

Mitchell Hodgins| Associate – NSW CLM Team Lead | JBS&G
Gadigal Country | Level 1, 50 Margaret Street, Sydney, NSW
T: 02 8245 0300 | M: 0427 979 749 | E: mhodgins@jbsg.com.au | W: jbsg.com.au | L: Conditions and Limitations

Exceptional Outcomes

From: AdamBateup@eurofins.com <AdamBateup@eurofins.com>
Sent: Wednesday, February 22, 2023 2:13 PM

Envirolab Services Pty Ltd
ABN 37 112 535 645 - 002
25 Research Drive Croydon South VIC 3136
ph 03 9763 2500 fax 03 9763 2633
melbourne@envirolab.com.au
www.envirolab.com.au

CERTIFICATE OF ANALYSIS 35779

Client Details

Client	JBS & G Australia Pty Ltd
Attention	Mitchell Hodgins
Address	1/50 Margaret St, Sydney, NSW, 2000

Sample Details

Your Reference	**63879 BHHR**
Number of Samples	8 Soil, 1 Water
Date samples received	10/02/2023
Date completed instructions received	10/02/2023

Analysis Details

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

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

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

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

Report Details

Date results requested by	17/02/2023
Date of Issue	17/02/2023

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Asbestos Approved By
Analysed by Asbestos Approved Analyst: Stuart Chen
Authorised by Asbestos Approved Signatory: Lucy Zhu

Results Approved By
Azrin Akram, Senior Chemist
Chris De Luca, Assistant Lab Manager
Tara White, Metals Team Leader
Tianna Milburn, Chemist

Authorised By



Pamela Adams, Laboratory Manager

VOCs in soil		
Our Reference		35779-6
Your Reference	UNITS	SPLIT06
Date Sampled		02/02/2023
Type of sample		Soil
Date extracted	-	14/02/2023
Date analysed	-	14/02/2023
Dichlorodifluoromethane	mg/kg	<1
Chloromethane	mg/kg	<1
Vinyl Chloride	mg/kg	<1
Bromomethane	mg/kg	<1
Chloroethane	mg/kg	<1
Trichlorofluoromethane	mg/kg	<1
1,1-Dichloroethene	mg/kg	<0.5
trans-1,2-dichloroethene	mg/kg	<0.5
1,1-dichloroethane	mg/kg	<0.5
cis-1,2-dichloroethene	mg/kg	<0.5
bromochloromethane	mg/kg	<0.5
chloroform	mg/kg	<0.5
2,2-dichloropropane	mg/kg	<0.5
1,2-dichloroethane	mg/kg	<0.5
1,1,1-trichloroethane	mg/kg	<0.5
1,1-dichloropropene	mg/kg	<0.5
Cyclohexane	mg/kg	<1
carbon tetrachloride	mg/kg	<0.5
Benzene	mg/kg	<0.2
dibromomethane	mg/kg	<0.5
1,2-dichloropropane	mg/kg	<0.5
trichloroethene	mg/kg	<0.5
bromodichloromethane	mg/kg	<0.5
trans-1,3-dichloropropene	mg/kg	<0.5
cis-1,3-dichloropropene	mg/kg	<0.5
1,1,2-trichloroethane	mg/kg	<0.5
Toluene	mg/kg	<0.5
1,3-dichloropropane	mg/kg	<0.5
dibromochloromethane	mg/kg	<0.5
1,2-dibromoethane	mg/kg	<0.5
Tetrachloroethene	mg/kg	<0.5
1,1,1,2-tetrachloroethane	mg/kg	<0.5
chlorobenzene	mg/kg	<0.5
Ethylbenzene	mg/kg	<0.5

VOCs in soil		
Our Reference		35779-6
Your Reference	UNITS	SPLIT06
Date Sampled		02/02/2023
Type of sample		Soil
bromoform	mg/kg	<0.5
m+p-xylene	mg/kg	<1
styrene	mg/kg	<0.5
1,1,2,2-tetrachloroethane	mg/kg	<0.5
o-Xylene	mg/kg	<0.5
1,2,3-trichloropropane	mg/kg	<0.5
isopropylbenzene	mg/kg	<0.5
bromobenzene	mg/kg	<0.5
n-propyl benzene	mg/kg	<0.5
2-chlorotoluene	mg/kg	<0.5
4-chlorotoluene	mg/kg	<0.5
1,3,5-trimethyl benzene	mg/kg	<0.5
tert-butyl benzene	mg/kg	<0.5
1,2,4-trimethyl benzene	mg/kg	<0.5
1,3-dichlorobenzene	mg/kg	<0.5
sec-butyl benzene	mg/kg	<0.5
1,4-dichlorobenzene	mg/kg	<0.5
4-isopropyl toluene	mg/kg	<0.5
1,2-dichlorobenzene	mg/kg	<0.5
n-butyl benzene	mg/kg	<0.5
1,2-dibromo-3-chloropropane	mg/kg	<0.5
1,2,4-trichlorobenzene	mg/kg	<0.5
hexachlorobutadiene	mg/kg	<0.5
1,2,3-trichlorobenzene	mg/kg	<0.5
Surrogate Dibromofluoromethane	%	101
Surrogate aaa-Trifluorotoluene	%	101
Surrogate Toluene-d_8	%	101
Surrogate 4-Bromofluorobenzene	%	102

vTRH(C6-C10)/BTEXN in Soil					
Our Reference	UNITS	35779-1	35779-3	35779-4	35779-6
Your Reference		SPLIT01	SPLIT03	SPLIT04	SPLIT06
Date Sampled		02/02/2023	03/02/2023	02/02/2023	02/02/2023
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	14/02/2023	14/02/2023	14/02/2023	14/02/2023
Date analysed	-	14/02/2023	14/02/2023	14/02/2023	14/02/2023
vTRH C_6 - C_9	mg/kg	<25	<25	<25	<25
vTRH C_6 - C_{10}	mg/kg	<25	<25	<25	<25
TRH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25	<25	<25
Benzene	mg/kg	<0.2	<0.2	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1	<1	<1
m+p-xylene	mg/kg	<2	<2	<2	<2
o-Xylene	mg/kg	<1	<1	<1	<1
Naphthalene	mg/kg	<1	<1	<1	<1
Total BTEX	mg/kg	<1	<1	<1	<1
Total +ve Xylenes	mg/kg	<1	<1	<1	<1
Surrogate aaa-Trifluorotoluene	%	102	103	102	100

TRH Soil C10-C40 NEPM					
Our Reference	UNITS	35779-1	35779-3	35779-4	35779-6
Your Reference		SPLIT01	SPLIT03	SPLIT04	SPLIT06
Date Sampled		02/02/2023	03/02/2023	02/02/2023	02/02/2023
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	14/02/2023	14/02/2023	14/02/2023	14/02/2023
Date analysed	-	15/02/2023	15/02/2023	15/02/2023	15/02/2023
TRH C_{10} - C_{14}	mg/kg	<50	<50	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100	<100	<100
Total +ve TRH (C10-C36)	mg/kg	<50	<50	<50	<50
TRH >C_{10} -C_{16}	mg/kg	<50	<50	<50	<50
TRH >C_{10} - C_{16} less Naphthalene (F2)	mg/kg	<50	<50	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50	<50	<50
Surrogate o-Terphenyl	%	83	81	81	82

PAHs in Soil						
Our Reference		35779-1	35779-2	35779-3	35779-4	35779-6
Your Reference	UNITS	SPLIT01	SPLIT02	SPLIT03	SPLIT04	SPLIT06
Date Sampled		02/02/2023	02/02/2023	03/02/2023	02/02/2023	02/02/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date extracted	-	14/02/2023	14/02/2023	14/02/2023	14/02/2023	14/02/2023
Date analysed	-	14/02/2023	14/02/2023	14/02/2023	14/02/2023	14/02/2023
Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1	0.1	0.8
Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.2
Fluoranthene	mg/kg	<0.1	<0.1	<0.1	0.3	1.3
Pyrene	mg/kg	<0.1	<0.1	<0.1	0.3	1.2
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	0.1	0.5
Chrysene	mg/kg	<0.1	<0.1	<0.1	0.1	0.5
Benzo(b,j&k)fluoranthene	mg/kg	<0.2	<0.2	<0.2	0.2	0.8
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05	0.15	0.58
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.3
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.4
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05	1.3	6.6
Benzo(a)pyrene TEQ calc (Zero)	mg/kg	<0.5	<0.5	<0.5	<0.5	0.8
Benzo(a)pyrene TEQ calc (Half)	mg/kg	<0.5	<0.5	<0.5	<0.5	0.8
Benzo(a)pyrene TEQ calc (PQL)	mg/kg	<0.5	<0.5	<0.5	<0.5	0.9
Surrogate p-Terphenyl-d_{14}	%	78	76	78	74	78

OCP in Soil					
Our Reference		35779-1	35779-3	35779-4	35779-6
Your Reference	UNITS	SPLIT01	SPLIT03	SPLIT04	SPLIT06
Date Sampled		02/02/2023	03/02/2023	02/02/2023	02/02/2023
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	14/02/2023	14/02/2023	14/02/2023	14/02/2023
Date analysed	-	14/02/2023	14/02/2023	14/02/2023	14/02/2023
alpha-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
Hexachlorobenzene	mg/kg	<0.1	<0.1	<0.1	<0.1
beta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
gamma-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1
delta-BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1
gamma-Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1
alpha-chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1
Endosulfan I	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDE	mg/kg	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1
Endosulfan II	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDD	mg/kg	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1
pp-DDT	mg/kg	<0.1	<0.1	<0.1	0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1
Total +ve reported Aldrin + Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1
Total +ve reported DDT+DDD+DDE	mg/kg	<0.1	<0.1	<0.1	0.1
Surrogate 2-chlorophenol-d4	%	80	78	74	78

PCBs in Soil					
Our Reference		35779-1	35779-3	35779-4	35779-6
Your Reference	UNITS	SPLIT01	SPLIT03	SPLIT04	SPLIT06
Date Sampled		02/02/2023	03/02/2023	02/02/2023	02/02/2023
Type of sample		Soil	Soil	Soil	Soil
Date extracted	-	14/02/2023	14/02/2023	14/02/2023	14/02/2023
Date analysed	-	14/02/2023	14/02/2023	14/02/2023	14/02/2023
Aroclor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1
Aroclor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1
Aroclor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1
Aroclor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1	<0.1	<0.1	<0.1
Surrogate 2-fluorobiphenyl	%	66	64	60	64

Acid Extractable metals in soil						
Our Reference	UNITS	35779-1	35779-2	35779-3	35779-4	35779-6
Your Reference		SPLIT01	SPLIT02	SPLIT03	SPLIT04	SPLIT06
Date Sampled		02/02/2023	02/02/2023	03/02/2023	02/02/2023	02/02/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date digested	-	15/02/2023	15/02/2023	15/02/2023	15/02/2023	15/02/2023
Date analysed	-	15/02/2023	15/02/2023	15/02/2023	15/02/2023	15/02/2023
Arsenic	mg/kg	4	<4	<4	<4	5
Cadmium	mg/kg	<0.4	<0.4	<0.4	1	0.5
Chromium	mg/kg	22	12	38	15	16
Copper	mg/kg	9	37	7	14	28
Lead	mg/kg	9	10	10	190	300
Mercury	mg/kg	<0.1	<0.1	<0.1	<0.1	0.1
Nickel	mg/kg	12	6	19	9	9
Zinc	mg/kg	35	15	32	260	280

Moisture						
Our Reference		35779-1	35779-2	35779-3	35779-4	35779-6
Your Reference	UNITS	SPLIT01	SPLIT02	SPLIT03	SPLIT04	SPLIT06
Date Sampled		02/02/2023	02/02/2023	03/02/2023	02/02/2023	02/02/2023
Type of sample		Soil	Soil	Soil	Soil	Soil
Date prepared	-	14/02/2023	14/02/2023	14/02/2023	14/02/2023	14/02/2023
Date analysed	-	15/02/2023	15/02/2023	15/02/2023	15/02/2023	15/02/2023
Moisture	%	5.9	9.7	8.2	6.0	11

Asbestos ID - soils NEPM*			
Our Reference		35779-5	35779-8
Your Reference	UNITS	SPLIT05	SPLIT08
Date Sampled		02/02/2023	04/02/2023
Type of sample		Soil	Soil
Date analysed	-	14/02/2023	14/02/2023
Sample mass tested	g	722.02	859.35
Sample Description	-	Brown coarse-grained soil and rocks	Grey coarse-grained soil and rocks
Asbestos ID in soil	-	No asbestos detected at reporting limit of 0.1g/kg Organic Fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic Fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	Chrysotile asbestos detected	No visible asbestos detected
ACM>7mm Estimation*	g	--	--
FA and AF Estimation*	g	0.0025	--
ACM>7mm Estimation*	% (w/w)	<0.01	<0.01
FA and AF Estimation*[#2]	% (w/w)	<0.001	<0.001

VOCs in water - Routine Level		
Our Reference		35779-9
Your Reference	UNITS	SPLIT01
Date Sampled		05/02/2023
Type of sample		Water
Date extracted	-	11/02/2023
Date analysed	-	11/02/2023
Dichlorodifluoromethane	µg/L	<100
Chloromethane	µg/L	<100
Vinyl Chloride	µg/L	<100
Bromomethane	µg/L	<100
Chloroethane	µg/L	<100
Trichlorofluoromethane	µg/L	<100
1,1-Dichloroethene	µg/L	<10
Trans-1,2-dichloroethene	µg/L	<10
1,1-dichloroethane	µg/L	<10
Cis-1,2-dichloroethene	µg/L	<10
Bromochloromethane	µg/L	<10
Chloroform	µg/L	<10
2,2-dichloropropane	µg/L	<10
1,2-dichloroethane	µg/L	<10
1,1,1-trichloroethane	µg/L	<10
1,1-dichloropropene	µg/L	<10
Cyclohexane	µg/L	<10
Carbon tetrachloride	µg/L	<10
Benzene	µg/L	<10
Dibromomethane	µg/L	<10
1,2-dichloropropane	µg/L	<10
Trichloroethene	µg/L	<10
Bromodichloromethane	µg/L	<10
trans-1,3-dichloropropene	µg/L	<10
cis-1,3-dichloropropene	µg/L	<10
1,1,2-trichloroethane	µg/L	<10
Toluene	µg/L	150
1,3-dichloropropane	µg/L	<10
Dibromochloromethane	µg/L	<10
1,2-dibromoethane	µg/L	<10
Tetrachloroethene	µg/L	<10
1,1,1,2-tetrachloroethane	µg/L	<10
Chlorobenzene	µg/L	36
Ethylbenzene	µg/L	<10

VOCs in water - Routine Level		
Our Reference		35779-9
Your Reference	UNITS	SPLIT01
Date Sampled		05/02/2023
Type of sample		Water
Bromoform	µg/L	<10
m+p-xylene	µg/L	<20
Styrene	µg/L	<10
1,1,2,2-tetrachloroethane	µg/L	<10
o-xylene	µg/L	<10
1,2,3-trichloropropane	µg/L	<10
Isopropylbenzene	µg/L	<10
Bromobenzene	µg/L	<10
n-propyl benzene	µg/L	<10
2-chlorotoluene	µg/L	<10
4-chlorotoluene	µg/L	<10
1,3,5-trimethyl benzene	µg/L	<10
Tert-butyl benzene	µg/L	<10
1,2,4-trimethyl benzene	µg/L	<10
1,3-dichlorobenzene	µg/L	13
Sec-butyl benzene	µg/L	<10
1,4-dichlorobenzene	µg/L	58
4-isopropyl toluene	µg/L	<10
1,2-dichlorobenzene	µg/L	260
n-butyl benzene	µg/L	<10
1,2-dibromo-3-chloropropane	µg/L	<10
1,2,4-trichlorobenzene	µg/L	<10
Hexachlorobutadiene	µg/L	<10
1,2,3-trichlorobenzene	µg/L	<10
Surrogate Dibromofluoromethane	%	111
Surrogate toluene-d8	%	99
Surrogate 4-BFB	%	104

vTRH(C6-C10)/BTEXN in Water		
Our Reference	UNITS	35779-9
Your Reference		SPLIT01
Date Sampled		05/02/2023
Type of sample		Water
Date extracted	-	11/02/2023
Date analysed	-	11/02/2023
TRH C_6 - C_9	µg/L	270
TRH C_6 - C_{10}	µg/L	290
TRH C_6 -C_{10} less BTEX (F1)	µg/L	150
Benzene	µg/L	<10
Toluene	µg/L	150
Ethylbenzene	µg/L	<10
m+p-xylene	µg/L	<20
o-xylene	µg/L	<10
Naphthalene	µg/L	<10
Total +ve Xylenes	µg/L	<10
Total BTEX in water	µg/L	150
Surrogate Dibromofluoromethane	%	112
Surrogate toluene-d8	%	102
Surrogate 4-BFB	%	107

TRH Water(C10-C40) NEPM		
Our Reference		35779-9
Your Reference	UNITS	SPLIT01
Date Sampled		05/02/2023
Type of sample		Water
Date extracted	-	13/02/2023
Date analysed	-	13/02/2023
TRH C_{10} - C_{14}	µg/L	200
TRH C_{15} - C_{28}	µg/L	<100
TRH C_{29} - C_{36}	µg/L	<100
Total +ve TRH (C10-C36)	µg/L	200
TRH >C_{10} - C_{16}	µg/L	190
TRH >C_{10} - C_{16} less Naphthalene (F2)	µg/L	190
TRH >C_{16} - C_{34}	µg/L	<100
TRH >C_{34} - C_{40}	µg/L	<100
Total +ve TRH (>C10-C40)	µg/L	190
Surrogate o-Terphenyl	%	84

PAHs in Water - Trace Level		
Our Reference		35779-9
Your Reference	UNITS	SPLIT01
Date Sampled		05/02/2023
Type of sample		Water
Date extracted	-	10/02/2023
Date analysed	-	15/02/2023
Naphthalene	µg/L	0.08
Acenaphthylene	µg/L	<0.01
Acenaphthene	µg/L	<0.01
Fluorene	µg/L	<0.01
Phenanthrene	µg/L	<0.01
Anthracene	µg/L	0.03
Fluoranthene	µg/L	<0.01
Pyrene	µg/L	0.01
Benzo(a)anthracene	µg/L	<0.01
Chrysene	µg/L	<0.01
Benzo(b,j&k)fluoranthene	µg/L	<0.02
Benzo(a)pyrene	µg/L	<0.01
Indeno(1,2,3-c,d)pyrene	µg/L	<0.01
Dibenzo(a,h)anthracene	µg/L	<0.01
Benzo(g,h,i)perylene	µg/L	<0.01
Total +ve PAH's	µg/L	0.12
Surrogate p-Terphenyl-d_{14}	%	91

HM in water - dissolved		
Our Reference		35779-9
Your Reference	UNITS	SPLIT01
Date Sampled		05/02/2023
Type of sample		Water
Date prepared	-	11/02/2023
Date analysed	-	11/02/2023
Arsenic-Dissolved	µg/L	<2
Cadmium-Dissolved	µg/L	<0.2
Chromium-Dissolved	µg/L	<2
Copper-Dissolved	µg/L	8
Lead-Dissolved	µg/L	<1
Nickel-Dissolved	µg/L	13
Zinc-Dissolved	µg/L	170
Mercury-Dissolved	µg/L	<0.05

PFAS in Waters Extended		
Our Reference		35779-9
Your Reference	UNITS	SPLIT01
Date Sampled		05/02/2023
Type of sample		Water
Date prepared	-	11/02/2023
Date analysed	-	11/02/2023
Perfluorobutanesulfonic acid	µg/L	0.01
Perfluoropentanesulfonic acid	µg/L	<0.01
Perfluorohexanesulfonic acid PFHxS	µg/L	0.02
Perfluoroheptanesulfonic acid	µg/L	<0.01
Perfluorooctanesulfonic acid PFOS	µg/L	0.04
Perfluorodecanesulfonic acid	µg/L	<0.02
Perfluorobutanoic acid	µg/L	<0.02
Perfluoropentanoic acid	µg/L	<0.02
Perfluorohexanoic acid	µg/L	<0.01
Perfluoroheptanoic acid	µg/L	<0.01
Perfluorooctanoic acid PFOA	µg/L	<0.01
Perfluorononanoic acid	µg/L	<0.01
Perfluorodecanoic acid	µg/L	<0.02
Perfluoroundecanoic acid	µg/L	<0.02
Perfluorododecanoic acid	µg/L	<0.05
Perfluorotridecanoic acid	µg/L	<0.1
Perfluorotetradecanoic acid	µg/L	<0.5
4:2 FTS	µg/L	<0.01
6:2 FTS	µg/L	<0.01
8:2 FTS	µg/L	<0.02
10:2 FTS	µg/L	<0.02
Perfluorooctane sulfonamide	µg/L	<0.1
N-Methyl perfluorooctane sulfonamide	µg/L	<0.05
N-Ethyl perfluorooctanesulfon -amide	µg/L	<0.1
N-Me perfluorooctanesulfonamid -oethanol	µg/L	<0.05
N-Et perfluorooctanesulfonamid -oethanol	µg/L	<0.5
MePerfluorooctanesulf- amid oacetic acid	µg/L	<0.02
EtPerfluorooctanesulf- amid oacetic acid	µg/L	<0.02
Surrogate $^{13}C_8$ PFOS	%	87
Surrogate $^{13}C_2$ PFOA	%	100
Extracted ISTD $^{13}C_3$ *PFBS*	%	93
Extracted ISTD $^{18}O_2$ *PFHxS*	%	96
Extracted ISTD $^{13}C_4$ *PFOS*	%	92
Extracted ISTD $^{13}C_4$ *PFBA*	%	95

PFAS in Waters Extended		
Our Reference		35779-9
Your Reference	UNITS	SPLIT01
Date Sampled		05/02/2023
Type of sample		Water
Extracted ISTD $^{13}C_3$ *PFPeA*	%	106
Extracted ISTD $^{13}C_2$ *PFHxA*	%	89
Extracted ISTD $^{13}C_4$ *PFHpA*	%	94
Extracted ISTD $^{13}C_4$ *PFOA*	%	109
Extracted ISTD $^{13}C_5$ *PFNA*	%	110
Extracted ISTD $^{13}C_2$ *PFDA*	%	106
Extracted ISTD $^{13}C_2$ *PFUnDA*	%	102
Extracted ISTD $^{13}C_2$ *PFDoDA*	%	95
Extracted ISTD $^{13}C_2$ *PFTeDA*	%	98
Extracted ISTD $^{13}C_2$ *4:2FTS*	%	101
Extracted ISTD $^{13}C_2$ *6:2FTS*	%	99
Extracted ISTD $^{13}C_2$ *8:2FTS*	%	88
Extracted ISTD $^{13}C_8$ *FOSA*	%	91
Extracted ISTD d_3 *N MeFOSA*	%	105
Extracted ISTD d_5 *NEtFOSA*	%	104
Extracted ISTD d_7 *N MeFOSE*	%	103
Extracted ISTD d_9 *N EtFOSE*	%	94
Extracted ISTD d_3 *N MeFOSAA*	%	94
Extracted ISTD d_5 *N EtFOSAA*	%	87
Total Positive PFHxS & PFOS	µg/L	0.06
Total Positive PFOS & PFOA	µg/L	0.04
Total Positive PFAS	µg/L	0.08

Method ID	Methodology Summary
ASB-001	Asbestos ID - Qualitative identification of asbestos in bulk samples using Polarised Light Microscopy and Dispersion Staining Techniques including Synthetic Mineral Fibre and Organic Fibre as per Australian Standard 4964-2004.
ASB-001	Asbestos ID - Identification of asbestos in soil samples using Polarised Light Microscopy and Dispersion Staining Techniques. Minimum 500mL soil sample was analysed as recommended by "National Environment Protection (Assessment of site contamination) Measure, Schedule B1 and "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0.1g/kg (0.01% w/w) as per Australian Standard AS4964-2004. Results reported denoted with * are outside our scope of NATA accreditation. NOTE #1Total Asbestos g/kg was analysed and reported as per Australian Standard AS4964 (This is the sum of ACM >7mm, <7mm and FA/AF) NOTE #2The screening level of 0.001% w/w asbestos in soil for FA and AF only applies where the FA and AF are able to be quantified by gravimetric procedures. This screening level is not applicable to free fibres. Estimation = Estimated asbestos weight Results reported with "--" is equivalent to no visible asbestos identified using Polarised Light microscopy and Dispersion Staining Techniques.
Inorg-008	Moisture content determined by heating at 105°C for a minimum of 12 hours.
Metals-020 ICP-AES	Determination of various metals by ICP-AES.
Metals-021 CV-AAS	Determination of Mercury by Cold Vapour AAS.
Metals-021 CV-AAS	Determination of Mercury by Cold Vapour AAS.
Metals-022 ICP-MS	Determination of various metals by ICP-MS.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).
Org-021/022	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD or GC-MS. Note, the Total +ve PCBs PQL is reflective of the lowest individual PQL and is therefore" Total +ve PCBs" is simply a sum of the positive individual PCBs.

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

Method ID	Methodology Summary
Org-029	Soil samples are extracted with basified Methanol. Waters and soil extracts are directly injected and/or concentrated/extracted using SPE. TCLP/ASLP leachates are centrifuged, the supernatant is then analysed (including amendment with solvent) - as per the option in AS4439.3. Analysis is undertaken with LC-MS/MS. PFAS results include the sum of branched and linear isomers where applicable. Please note that PFAS results are corrected for Extracted Internal Standards (QSM 5.4 Table B-15 terminology), which are mass labelled analytes added prior to sample preparation to assess matrix effects and verify processing of the sample. PFAS analytes without a commercially available mass labelled analogue are corrected vs a closely eluting mass labelled PFAS compound. Surrogates are also reported, in this context they are mass labelled PFAS compounds added prior to extraction but are used as monitoring compounds only (not used for result correction). Envicarb (or similar) is used discretionally to remove interfering matrix components. Please contact the laboratory if estimates of Measurement Uncertainty are required as per WA DER

QUALITY CONTROL: VOCs in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	35779-6
Date extracted	-			14/02/2023	6	14/02/2023	14/02/2023		14/02/2023	14/02/2023
Date analysed	-			14/02/2023	6	14/02/2023	14/02/2023		14/02/2023	14/02/2023
Dichlorodifluoromethane	mg/kg	1	Org-023	<1	6	<1	<1	0	[NT]	[NT]
Chloromethane	mg/kg	1	Org-023	<1	6	<1	<1	0	[NT]	[NT]
Vinyl Chloride	mg/kg	1	Org-023	<1	6	<1	<1	0	[NT]	[NT]
Bromomethane	mg/kg	1	Org-023	<1	6	<1	<1	0	[NT]	[NT]
Chloroethane	mg/kg	1	Org-023	<1	6	<1	<1	0	[NT]	[NT]
Trichlorofluoromethane	mg/kg	1	Org-023	<1	6	<1	<1	0	[NT]	[NT]
1,1-Dichloroethene	mg/kg	0.5	Org-023	<0.5	6	<0.5	<0.5	0	[NT]	[NT]
trans-1,2-dichloroethene	mg/kg	0.5	Org-023	<0.5	6	<0.5	<0.5	0	[NT]	[NT]
1,1-dichloroethane	mg/kg	0.5	Org-023	<0.5	6	<0.5	<0.5	0	76	90
cis-1,2-dichloroethene	mg/kg	0.5	Org-023	<0.5	6	<0.5	<0.5	0	[NT]	[NT]
bromochloromethane	mg/kg	0.5	Org-023	<0.5	6	<0.5	<0.5	0	[NT]	[NT]
chloroform	mg/kg	0.5	Org-023	<0.5	6	<0.5	<0.5	0	85	92
2,2-dichloropropane	mg/kg	0.5	Org-023	<0.5	6	<0.5	<0.5	0	[NT]	[NT]
1,2-dichloroethane	mg/kg	0.5	Org-023	<0.5	6	<0.5	<0.5	0	80	91
1,1,1-trichloroethane	mg/kg	0.5	Org-023	<0.5	6	<0.5	<0.5	0	74	84
1,1-dichloropropene	mg/kg	0.5	Org-023	<0.5	6	<0.5	<0.5	0	[NT]	[NT]
Cyclohexane	mg/kg	1	Org-023	<1	6	<1	<1	0	[NT]	[NT]
carbon tetrachloride	mg/kg	0.5	Org-023	<0.5	6	<0.5	<0.5	0	[NT]	[NT]
Benzene	mg/kg	0.2	Org-023	<0.2	6	<0.2	<0.2	0	[NT]	[NT]
dibromomethane	mg/kg	0.5	Org-023	<0.5	6	<0.5	<0.5	0	[NT]	[NT]
1,2-dichloropropane	mg/kg	0.5	Org-023	<0.5	6	<0.5	<0.5	0	[NT]	[NT]
trichloroethene	mg/kg	0.5	Org-023	<0.5	6	<0.5	<0.5	0	79	103
bromodichloromethane	mg/kg	0.5	Org-023	<0.5	6	<0.5	<0.5	0	88	89
trans-1,3-dichloropropene	mg/kg	0.5	Org-023	<0.5	6	<0.5	<0.5	0	[NT]	[NT]
cis-1,3-dichloropropene	mg/kg	0.5	Org-023	<0.5	6	<0.5	<0.5	0	[NT]	[NT]
1,1,2-trichloroethane	mg/kg	0.5	Org-023	<0.5	6	<0.5	<0.5	0	[NT]	[NT]
Toluene	mg/kg	0.5	Org-023	<0.5	6	<0.5	<0.5	0	[NT]	[NT]
1,3-dichloropropane	mg/kg	0.5	Org-023	<0.5	6	<0.5	<0.5	0	[NT]	[NT]
dibromochloromethane	mg/kg	0.5	Org-023	<0.5	6	<0.5	<0.5	0	91	92
1,2-dibromoethane	mg/kg	0.5	Org-023	<0.5	6	<0.5	<0.5	0	[NT]	[NT]
Tetrachloroethene	mg/kg	0.5	Org-023	<0.5	6	<0.5	<0.5	0	84	85
1,1,1,2-tetrachloroethane	mg/kg	0.5	Org-023	<0.5	6	<0.5	<0.5	0	[NT]	[NT]
chlorobenzene	mg/kg	0.5	Org-023	<0.5	6	<0.5	<0.5	0	[NT]	[NT]
Ethylbenzene	mg/kg	0.5	Org-023	<0.5	6	<0.5	<0.5	0	[NT]	[NT]
bromoform	mg/kg	0.5	Org-023	<0.5	6	<0.5	<0.5	0	86	91
m+p-xylene	mg/kg	1	Org-023	<1	6	<1	<1	0	[NT]	[NT]
styrene	mg/kg	0.5	Org-023	<0.5	6	<0.5	<0.5	0	[NT]	[NT]
1,1,2,2-tetrachloroethane	mg/kg	0.5	Org-023	<0.5	6	<0.5	<0.5	0	[NT]	[NT]

QUALITY CONTROL: VOCs in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	35779-6
o-Xylene	mg/kg	0.5	Org-023	<0.5	6	<0.5	<0.5	0	[NT]	[NT]
1,2,3-trichloropropane	mg/kg	0.5	Org-023	<0.5	6	<0.5	<0.5	0	[NT]	[NT]
isopropylbenzene	mg/kg	0.5	Org-023	<0.5	6	<0.5	<0.5	0	[NT]	[NT]
bromobenzene	mg/kg	0.5	Org-023	<0.5	6	<0.5	<0.5	0	[NT]	[NT]
n-propyl benzene	mg/kg	0.5	Org-023	<0.5	6	<0.5	<0.5	0	[NT]	[NT]
2-chlorotoluene	mg/kg	0.5	Org-023	<0.5	6	<0.5	<0.5	0	[NT]	[NT]
4-chlorotoluene	mg/kg	0.5	Org-023	<0.5	6	<0.5	<0.5	0	[NT]	[NT]
1,3,5-trimethyl benzene	mg/kg	0.5	Org-023	<0.5	6	<0.5	<0.5	0	[NT]	[NT]
tert-butyl benzene	mg/kg	0.5	Org-023	<0.5	6	<0.5	<0.5	0	[NT]	[NT]
1,2,4-trimethyl benzene	mg/kg	0.5	Org-023	<0.5	6	<0.5	<0.5	0	[NT]	[NT]
1,3-dichlorobenzene	mg/kg	0.5	Org-023	<0.5	6	<0.5	<0.5	0	[NT]	[NT]
sec-butyl benzene	mg/kg	0.5	Org-023	<0.5	6	<0.5	<0.5	0	[NT]	[NT]
1,4-dichlorobenzene	mg/kg	0.5	Org-023	<0.5	6	<0.5	<0.5	0	[NT]	[NT]
4-isopropyl toluene	mg/kg	0.5	Org-023	<0.5	6	<0.5	<0.5	0	[NT]	[NT]
1,2-dichlorobenzene	mg/kg	0.5	Org-023	<0.5	6	<0.5	<0.5	0	[NT]	[NT]
n-butyl benzene	mg/kg	0.5	Org-023	<0.5	6	<0.5	<0.5	0	[NT]	[NT]
1,2-dibromo-3-chloropropane	mg/kg	0.5	Org-023	<0.5	6	<0.5	<0.5	0	[NT]	[NT]
1,2,4-trichlorobenzene	mg/kg	0.5	Org-023	<0.5	6	<0.5	<0.5	0	[NT]	[NT]
hexachlorobutadiene	mg/kg	0.5	Org-023	<0.5	6	<0.5	<0.5	0	[NT]	[NT]
1,2,3-trichlorobenzene	mg/kg	0.5	Org-023	<0.5	6	<0.5	<0.5	0	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	111	6	101	100	1	99	101
Surrogate aaa-Trifluorotoluene	%		Org-023	62	6	101	101	0	96	99
Surrogate Toluene-d_8	%		Org-023	108	6	101	101	0	102	100
Surrogate 4-Bromofluorobenzene	%		Org-023	100	6	102	103	1	105	99

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	35779-6
Date extracted	-			14/02/2023	6	14/02/2023	14/02/2023		14/02/2023	14/02/2023
Date analysed	-			14/02/2023	6	14/02/2023	14/02/2023		14/02/2023	14/02/2023
vTRH C_6 - C_9	mg/kg	25	Org-023	<25	6	<25	<25	0	97	97
vTRH C_6 - C_{10}	mg/kg	25	Org-023	<25	6	<25	<25	0	97	97
Benzene	mg/kg	0.2	Org-023	<0.2	6	<0.2	<0.2	0	99	98
Toluene	mg/kg	0.5	Org-023	<0.5	6	<0.5	<0.5	0	105	104
Ethylbenzene	mg/kg	1	Org-023	<1	6	<1	<1	0	93	94
m+p-xylene	mg/kg	2	Org-023	<2	6	<2	<2	0	93	94
o-Xylene	mg/kg	1	Org-023	<1	6	<1	<1	0	94	94
Naphthalene	mg/kg	1	Org-023	<1	6	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	105	6	100	100	0	103	99

QUALITY CONTROL: TRH Soil C10-C40 NEPM						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			14/02/2023	[NT]	[NT]	[NT]	[NT]	14/02/2023	[NT]
Date analysed	-			15/02/2023	[NT]	[NT]	[NT]	[NT]	15/02/2023	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	84	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	91	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	93	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	84	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	91	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	93	[NT]
Surrogate o-Terphenyl	%		Org-020	74	[NT]	[NT]	[NT]	[NT]	77	[NT]

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			14/02/2023	2	14/02/2023	14/02/2023		14/02/2023	[NT]
Date analysed	-			14/02/2023	2	14/02/2023	14/02/2023		14/02/2023	[NT]
Naphthalene	mg/kg	0.1	Org-022	<0.1	2	<0.1	<0.1	0	84	[NT]
Acenaphthylene	mg/kg	0.1	Org-022	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022	<0.1	2	<0.1	<0.1	0	86	[NT]
Fluorene	mg/kg	0.1	Org-022	<0.1	2	<0.1	<0.1	0	84	[NT]
Phenanthrene	mg/kg	0.1	Org-022	<0.1	2	<0.1	<0.1	0	88	[NT]
Anthracene	mg/kg	0.1	Org-022	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022	<0.1	2	<0.1	<0.1	0	90	[NT]
Pyrene	mg/kg	0.1	Org-022	<0.1	2	<0.1	<0.1	0	92	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022	<0.1	2	<0.1	<0.1	0	80	[NT]
Benzo(b,j&k)fluoranthene	mg/kg	0.2	Org-022	<0.2	2	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022	<0.05	2	<0.05	<0.05	0	92	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022	<0.1	2	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d_{14}	%		Org-022	80	2	76	74	3	78	[NT]

QUALITY CONTROL: OCP in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			14/02/2023	[NT]	[NT]	[NT]	[NT]	14/02/2023	[NT]
Date analysed	-			14/02/2023	[NT]	[NT]	[NT]	[NT]	14/02/2023	[NT]
alpha-BHC	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	80	[NT]
Hexachlorobenzene	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	72	[NT]
gamma-BHC	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	88	[NT]
delta-BHC	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	92	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	84	[NT]
gamma-Chlordane	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	86	[NT]
alpha-chlordane	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	88	[NT]
Dieldrin	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	82	[NT]
Endrin	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan II	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	100	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	72	[NT]
Methoxychlor	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate 2-chlorophenol-d4	%		Org-022	78	[NT]	[NT]	[NT]	[NT]	80	[NT]

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			14/02/2023	[NT]	[NT]	[NT]	[NT]	14/02/2023	[NT]
Date analysed	-			14/02/2023	[NT]	[NT]	[NT]	[NT]	14/02/2023	[NT]
Aroclor 1016	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	104	[NT]
Aroclor 1260	mg/kg	0.1	Org-022	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate 2-fluorobiphenyl	%		Org-022	64	[NT]	[NT]	[NT]	[NT]	68	[NT]

QUALITY CONTROL: Acid Extractable metals in soil					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date digested	-			15/02/2023	[NT]	[NT]	[NT]	[NT]	15/02/2023	[NT]
Date analysed	-			15/02/2023	[NT]	[NT]	[NT]	[NT]	15/02/2023	[NT]
Arsenic	mg/kg	4	Metals-020 ICP-AES	<4	[NT]	[NT]	[NT]	[NT]	108	[NT]
Cadmium	mg/kg	0.4	Metals-020 ICP-AES	<0.4	[NT]	[NT]	[NT]	[NT]	114	[NT]
Chromium	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	[NT]	[NT]	128	[NT]
Copper	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	[NT]	[NT]	118	[NT]
Lead	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	[NT]	[NT]	126	[NT]
Mercury	mg/kg	0.1	Metals-021 CV-AAS	<0.1	[NT]	[NT]	[NT]	[NT]	100	[NT]
Nickel	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	[NT]	[NT]	118	[NT]
Zinc	mg/kg	1	Metals-020 ICP-AES	<1	[NT]	[NT]	[NT]	[NT]	116	[NT]

QUALITY CONTROL: VOCs in water - Routine Level					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			10/02/2023	[NT]	[NT]	[NT]	[NT]	10/02/2023	[NT]
Date analysed	-			14/02/2023	[NT]	[NT]	[NT]	[NT]	14/02/2023	[NT]
Dichlorodifluoromethane	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chloromethane	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Vinyl Chloride	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromomethane	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chloroethane	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Trichlorofluoromethane	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1-Dichloroethene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Trans-1,2-dichloroethene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1-dichloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	102	[NT]
Cis-1,2-dichloroethene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromochloromethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chloroform	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	110	[NT]
2,2-dichloropropane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dichloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	115	[NT]
1,1,1-trichloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	103	[NT]
1,1-dichloropropene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Cyclohexane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Carbon tetrachloride	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibromomethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dichloropropane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Trichloroethene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	116	[NT]
Bromodichloromethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	111	[NT]
trans-1,3-dichloropropene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
cis-1,3-dichloropropene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1,2-trichloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Toluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,3-dichloropropane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibromochloromethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	115	[NT]
1,2-dibromoethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Tetrachloroethene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	106	[NT]
1,1,1,2-tetrachloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Ethylbenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromoform	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	116	[NT]
m+p-xylene	µg/L	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Styrene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,1,2,2-tetrachloroethane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]

QUALITY CONTROL: VOCs in water - Routine Level					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
o-xylene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,3-trichloropropane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Isopropylbenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Bromobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
n-propyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
2-chlorotoluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
4-chlorotoluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,3,5-trimethyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Tert-butyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,4-trimethyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,3-dichlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Sec-butyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,4-dichlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
4-isopropyl toluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dichlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
n-butyl benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2-dibromo-3-chloropropane	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,4-trichlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Hexachlorobutadiene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
1,2,3-trichlorobenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	100	[NT]	[NT]	[NT]	[NT]	105	[NT]
Surrogate toluene-d8	%		Org-023	99	[NT]	[NT]	[NT]	[NT]	100	[NT]
Surrogate 4-BFB	%		Org-023	97	[NT]	[NT]	[NT]	[NT]	103	[NT]

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			11/02/2023	[NT]	[NT]	[NT]	[NT]	11/02/2023	[NT]
Date analysed	-			11/02/2023	[NT]	[NT]	[NT]	[NT]	11/02/2023	[NT]
TRH C_6 - C_9	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	113	[NT]
TRH C_6 - C_{10}	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	113	[NT]
Benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	112	[NT]
Toluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	115	[NT]
Ethylbenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	113	[NT]
m+p-xylene	µg/L	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	112	[NT]
o-xylene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	113	[NT]
Naphthalene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	118	[NT]
Surrogate Dibromofluoromethane	%		Org-023	101	[NT]	[NT]	[NT]	[NT]	108	[NT]
Surrogate toluene-d8	%		Org-023	102	[NT]	[NT]	[NT]	[NT]	97	[NT]
Surrogate 4-BFB	%		Org-023	99	[NT]	[NT]	[NT]	[NT]	103	[NT]

QUALITY CONTROL: TRH Water(C10-C40) NEPM						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			13/02/2023	[NT]	[NT]	[NT]	[NT]	13/02/2023	[NT]
Date analysed	-			13/02/2023	[NT]	[NT]	[NT]	[NT]	13/02/2023	[NT]
TRH C_{10} - C_{14}	µg/L	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	95	[NT]
TRH C_{15} - C_{28}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	111	[NT]
TRH C_{29} - C_{36}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	107	[NT]
TRH >C_{10} - C_{16}	µg/L	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	95	[NT]
TRH >C_{16} - C_{34}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	111	[NT]
TRH >C_{34} - C_{40}	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	107	[NT]
Surrogate o-Terphenyl	%		Org-020	86	[NT]	[NT]	[NT]	[NT]	82	[NT]

QUALITY CONTROL: PAHs in Water - Trace Level						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			10/02/2023	[NT]	[NT]	[NT]	[NT]	10/02/2023	[NT]
Date analysed	-			15/02/2023	[NT]	[NT]	[NT]	[NT]	15/02/2023	[NT]
Naphthalene	µg/L	0.02	Org-022	<0.02	[NT]	[NT]	[NT]	[NT]	70	[NT]
Acenaphthylene	µg/L	0.01	Org-022	<0.01	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Acenaphthene	µg/L	0.01	Org-022	<0.01	[NT]	[NT]	[NT]	[NT]	106	[NT]
Fluorene	µg/L	0.01	Org-022	<0.01	[NT]	[NT]	[NT]	[NT]	101	[NT]
Phenanthrene	µg/L	0.01	Org-022	<0.01	[NT]	[NT]	[NT]	[NT]	98	[NT]
Anthracene	µg/L	0.01	Org-022	<0.01	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluoranthene	µg/L	0.01	Org-022	<0.01	[NT]	[NT]	[NT]	[NT]	107	[NT]
Pyrene	µg/L	0.01	Org-022	<0.01	[NT]	[NT]	[NT]	[NT]	111	[NT]
Benzo(a)anthracene	µg/L	0.01	Org-022	<0.01	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chrysene	µg/L	0.01	Org-022	<0.01	[NT]	[NT]	[NT]	[NT]	104	[NT]
Benzo(b,j&k)fluoranthene	µg/L	0.02	Org-022	<0.02	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.01	Org-022	<0.01	[NT]	[NT]	[NT]	[NT]	92	[NT]
Indeno(1,2,3-c,d)pyrene	µg/L	0.01	Org-022	<0.01	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.01	Org-022	<0.01	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.01	Org-022	<0.01	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate p-Terphenyl-d_{14}	%		Org-022	85	[NT]	[NT]	[NT]	[NT]	109	[NT]

QUALITY CONTROL: HM in water - dissolved						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	35779-9
Date prepared	-			11/02/2023	[NT]	[NT]	[NT]	[NT]	11/02/2023	11/02/2023
Date analysed	-			11/02/2023	[NT]	[NT]	[NT]	[NT]	11/02/2023	11/02/2023
Arsenic-Dissolved	µg/L	1	Metals-022 ICP-MS	<1	[NT]	[NT]	[NT]	[NT]	105	[NT]
Cadmium-Dissolved	µg/L	0.1	Metals-022 ICP-MS	<0.1	[NT]	[NT]	[NT]	[NT]	107	[NT]
Chromium-Dissolved	µg/L	1	Metals-022 ICP-MS	<1	[NT]	[NT]	[NT]	[NT]	106	[NT]
Copper-Dissolved	µg/L	1	Metals-022 ICP-MS	<1	[NT]	[NT]	[NT]	[NT]	105	[NT]
Lead-Dissolved	µg/L	1	Metals-022 ICP-MS	<1	[NT]	[NT]	[NT]	[NT]	102	[NT]
Nickel-Dissolved	µg/L	1	Metals-022 ICP-MS	<1	[NT]	[NT]	[NT]	[NT]	105	[NT]
Zinc-Dissolved	µg/L	1	Metals-022 ICP-MS	<1	[NT]	[NT]	[NT]	[NT]	106	[NT]
Mercury-Dissolved	µg/L	0.05	Metals-021 CV-AAS	<0.05	[NT]	[NT]	[NT]	[NT]	99	84

QUALITY CONTROL: PFAS in Waters Extended					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Perfluorobutanesulfonic acid	µg/L	0.01	Org-029	<0.01	[NT]	[NT]	[NT]	[NT]	122	[NT]
Perfluoropentanesulfonic acid	µg/L	0.01	Org-029	<0.01	[NT]	[NT]	[NT]	[NT]	124	[NT]
Perfluorohexanesulfonic acid PFHxS	µg/L	0.01	Org-029	<0.01	[NT]	[NT]	[NT]	[NT]	123	[NT]
Perfluoroheptanesulfonic acid	µg/L	0.01	Org-029	<0.01	[NT]	[NT]	[NT]	[NT]	122	[NT]
Perfluorooctanesulfonic acid PFOS	µg/L	0.01	Org-029	<0.01	[NT]	[NT]	[NT]	[NT]	116	[NT]
Perfluorodecanesulfonic acid	µg/L	0.02	Org-029	<0.02	[NT]	[NT]	[NT]	[NT]	116	[NT]
Perfluorobutanoic acid	µg/L	0.02	Org-029	<0.02	[NT]	[NT]	[NT]	[NT]	122	[NT]
Perfluoropentanoic acid	µg/L	0.02	Org-029	<0.02	[NT]	[NT]	[NT]	[NT]	121	[NT]
Perfluorohexanoic acid	µg/L	0.01	Org-029	<0.01	[NT]	[NT]	[NT]	[NT]	123	[NT]
Perfluoroheptanoic acid	µg/L	0.01	Org-029	<0.01	[NT]	[NT]	[NT]	[NT]	123	[NT]
Perfluorooctanoic acid PFOA	µg/L	0.01	Org-029	<0.01	[NT]	[NT]	[NT]	[NT]	119	[NT]
Perfluorononanoic acid	µg/L	0.01	Org-029	<0.01	[NT]	[NT]	[NT]	[NT]	121	[NT]
Perfluorodecanoic acid	µg/L	0.02	Org-029	<0.02	[NT]	[NT]	[NT]	[NT]	119	[NT]
Perfluoroundecanoic acid	µg/L	0.02	Org-029	<0.02	[NT]	[NT]	[NT]	[NT]	120	[NT]
Perfluorododecanoic acid	µg/L	0.05	Org-029	<0.05	[NT]	[NT]	[NT]	[NT]	126	[NT]
Perfluorotridecanoic acid	µg/L	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	114	[NT]
Perfluorotetradecanoic acid	µg/L	0.5	Org-029	<0.5	[NT]	[NT]	[NT]	[NT]	131	[NT]
4:2 FTS	µg/L	0.01	Org-029	<0.01	[NT]	[NT]	[NT]	[NT]	113	[NT]
6:2 FTS	µg/L	0.01	Org-029	<0.01	[NT]	[NT]	[NT]	[NT]	112	[NT]
8:2 FTS	µg/L	0.02	Org-029	<0.02	[NT]	[NT]	[NT]	[NT]	118	[NT]
10:2 FTS	µg/L	0.02	Org-029	<0.02	[NT]	[NT]	[NT]	[NT]	126	[NT]
Perfluorooctane sulfonamide	µg/L	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	111	[NT]
N-Methyl perfluorooctane sulfonamide	µg/L	0.05	Org-029	<0.05	[NT]	[NT]	[NT]	[NT]	105	[NT]
N-Ethyl perfluorooctanesulfon -amide	µg/L	0.1	Org-029	<0.1	[NT]	[NT]	[NT]	[NT]	111	[NT]
N-Me perfluorooctanesulfonamid -oethanol	µg/L	0.05	Org-029	<0.05	[NT]	[NT]	[NT]	[NT]	103	[NT]
N-Et perfluorooctanesulfonamid -oethanol	µg/L	0.5	Org-029	<0.5	[NT]	[NT]	[NT]	[NT]	111	[NT]
MePerfluorooctanesulf- amid oacetic acid	µg/L	0.02	Org-029	<0.02	[NT]	[NT]	[NT]	[NT]	114	[NT]
EtPerfluorooctanesulf- amid oacetic acid	µg/L	0.02	Org-029	<0.02	[NT]	[NT]	[NT]	[NT]	117	[NT]
Surrogate $^{13}C_8$ PFOS	%		Org-029	97	[NT]	[NT]	[NT]	[NT]	91	[NT]
Surrogate $^{13}C_2$ PFOA	%		Org-029	97	[NT]	[NT]	[NT]	[NT]	100	[NT]
Extracted ISTD $^{13}C_3$ PFBS	%		Org-029	94	[NT]	[NT]	[NT]	[NT]	91	[NT]

QUALITY CONTROL: PFAS in Waters Extended					Duplicate				Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Extracted ISTD $^{18}O_2$ *PFHxS*	%		Org-029	89	[NT]	[NT]	[NT]	[NT]	91	[NT]
Extracted ISTD $^{13}C_4$ *PFOS*	%		Org-029	88	[NT]	[NT]	[NT]	[NT]	92	[NT]
Extracted ISTD $^{13}C_4$ *PFBA*	%		Org-029	96	[NT]	[NT]	[NT]	[NT]	95	[NT]
Extracted ISTD $^{13}C_3$ *PFPeA*	%		Org-029	99	[NT]	[NT]	[NT]	[NT]	97	[NT]
Extracted ISTD $^{13}C_2$ *PFHxA*	%		Org-029	93	[NT]	[NT]	[NT]	[NT]	91	[NT]
Extracted ISTD $^{13}C_4$ *PFHpA*	%		Org-029	92	[NT]	[NT]	[NT]	[NT]	92	[NT]
Extracted ISTD $^{13}C_4$ *PFOA*	%		Org-029	99	[NT]	[NT]	[NT]	[NT]	98	[NT]
Extracted ISTD $^{13}C_5$ *PFNA*	%		Org-029	99	[NT]	[NT]	[NT]	[NT]	99	[NT]
Extracted ISTD $^{13}C_2$ *PFDA*	%		Org-029	97	[NT]	[NT]	[NT]	[NT]	98	[NT]
Extracted ISTD $^{13}C_2$ *PFUnDA*	%		Org-029	93	[NT]	[NT]	[NT]	[NT]	92	[NT]
Extracted ISTD $^{13}C_2$ *PFDoDA*	%		Org-029	95	[NT]	[NT]	[NT]	[NT]	94	[NT]
Extracted ISTD $^{13}C_2$ *PFTeDA*	%		Org-029	86	[NT]	[NT]	[NT]	[NT]	92	[NT]
Extracted ISTD $^{13}C_2$ *4:2FTS*	%		Org-029	100	[NT]	[NT]	[NT]	[NT]	99	[NT]
Extracted ISTD $^{13}C_2$ *6:2FTS*	%		Org-029	95	[NT]	[NT]	[NT]	[NT]	99	[NT]
Extracted ISTD $^{13}C_2$ *8:2FTS*	%		Org-029	97	[NT]	[NT]	[NT]	[NT]	97	[NT]
Extracted ISTD $^{13}C_8$ *FOSA*	%		Org-029	98	[NT]	[NT]	[NT]	[NT]	95	[NT]
Extracted ISTD d_3 *N MeFOSA*	%		Org-029	105	[NT]	[NT]	[NT]	[NT]	102	[NT]
Extracted ISTD d_5 *NEtFOSA*	%		Org-029	100	[NT]	[NT]	[NT]	[NT]	100	[NT]
Extracted ISTD d_7 *N MeFOSE*	%		Org-029	106	[NT]	[NT]	[NT]	[NT]	100	[NT]
Extracted ISTD d_9 *N EtFOSE*	%		Org-029	94	[NT]	[NT]	[NT]	[NT]	90	[NT]

QUALITY CONTROL: PFAS in Waters Extended						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Extracted ISTD d_3 *N MeFOSAA*	%		Org-029	106	[NT]	[NT]	[NT]	[NT]	98	[NT]
Extracted ISTD d_5 *N EtFOSAA*	%		Org-029	93	[NT]	[NT]	[NT]	[NT]	92	[NT]

Result Definitions

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

Quality Control Definitions

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

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

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

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

Laboratory Acceptance Criteria

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

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

Spikes for Physical and Aggregate Tests are not applicable.

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

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

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

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

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

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

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

Measurement Uncertainty estimates are available for most tests upon request.

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

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

Report Comments

Asbestos analysed by Envirolab Sydney, report number 316324.

VOC/BTEX: PQL has been raised due to the high concentration of analytes in the sample/s, resulting in the sample/s requiring dilution.

METALS: The PQL has been raised for Arsenic, Cadmium and Chromium due to the sample matrix requiring dilution.

Asbestos-ID in soil: NEPM. This report is consistent with the reporting recommendations in the National Environment Protection (Assessment of Site
Contamination) Measure, Schedule B1, May 2013. This is reported outside our scope of NATA accreditation.
Sample 35779-5; Chrysotile asbestos identified in 0.0025g of loose fibre bundle

Chain of Custody

JBS&G

PROJECT NO.: 63879	LABORATORY BATCH NO.:
PROJECT NAME: BHHR	SAMPLERS: AJ
DATE NEEDED BY: standard TAT	QC LEVEL: NEPM (2013)

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

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....mhodgins@jbsg.com.au; (3) .....gpinget@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos	JB2	8 Heavy Metaks	PAHs	VOCs	R21		Water: B8	Water: 28 PFAS	Water: BTEX	Hardness							TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA
1	SPLIT01	Soil	2/2/23		1 Jar			X																	
2	SPLIT02	Soil	2/2/23		1 Jar				X	X															
3	SPLIT03	Soil	3/2/23		1 Jar			X																	
4	SPLIT04	Soil	3/2/23		1 Jar			X																	
5	SPLIT05	Soil	3/2/23		1 Bag		X																		X
6	SPLIT06	Soil	3/2/23		1 Jar			X			X														
7	SPLIT07	Soil	4/2/23		1 Jar																				
8	SPLIT08	Soil	4/2/23		1 Bag		X																		X
9	SPLIT01	Water	5/2/23		2A, 4V, 2P, 1 PFAS									X	X										

NOTES:

SPLIT SAMPLES TO BE FORWARDED TO ENVIROLAB ASAP PLEASE

JB2 = Combo 5
Water B8 = 8 HM, PAHs (Trace), TRH and VOCs

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: MH DATE: 8/2/23 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C
NAME: Emily D DATE: 10/2 OF: Eurofins 8:00am	CONSIGNMENT NOTE NO. TRANSPORT CO	NAME: Olsen DATE: OF: els 10/2/23	COOLER SEAL – (Yes)... No ..... (Intact) ..... Broken ..... COOLER TEMP b.b deg C

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

ENVIROLAB

Envirolab Services
25 Research Drive
Croydon South VIC 3136
Ph: (03) 9763 2500

Job No: 35779

Date Received: 10/2/23
Time Received: 11:25am
Received By: CO
Temp: Cool/Ambient 6.6° C
Cooling: Ice/Icepack
Security: Intact/Broken/None

13

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Appendix M Quality Assurance/Quality Control

Groundwater RPDs

Project Number: 63879

Project Name: Broken Hill Hospital Redevelopment

Field Duplicates (Water)

Filter: ALL

	SDG	962621	962621		962621	ENVIROLAB	
	Field ID	GW03	DUP01	**RPD**	GW03	SPLIT01	**RPD**
	Sampled Date/Time	5/02/2023	5/02/2023		5/02/2023	5/02/2023	
Chem_Grou	**ChemName**	**Units**	**EQL**					
Metals & M	Arsenic (Filtered)	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.002	0
	Cadmium (Filtered)	mg/l	0.0002 : 0.0001 (Interlab)	<0.0002	<0.0002	0	<0.0002	<0.0002	0
	Chromium (III+VI) (Filt	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.002	0
	Copper (Filtered)	mg/l	0.001	0.008	0.008	0	0.008	0.008	0
	Lead (Filtered)	mg/l	0.001	<0.001	<0.001	0	<0.001	<0.001	0
	Mercury (Filtered)	mg/l	0.0001 : 5e-005 (Interlab)	<0.0001	<0.0001	0	<0.0001	<0.00005	0
	Nickel (Filtered)	mg/l	0.001	0.012	0.012	0	0.012	0.013	8
	Zinc (Filtered)	mg/l	0.005 : 0.001 (Interlab)	0.082	0.081	1	**0.082**	**0.17**	**70**
etalloids									
TRHs (NEPC	C6-C10	mg/l	0.02 : 0.01 (Interlab)	**<0.04**	**0.21**	**136**	**<0.04**	**0.29**	**152**
	C10-C16	mg/l	0.05	0.07	0.07	0	**0.07**	**0.19**	**92**
	C16-C34	mg/l	0.1	0.1	<0.1	0	0.1	<0.1	0
	C34-C40	mg/l	0.1	<0.1	<0.1	0	<0.1	<0.1	0
	C10-C40 (Sum of total	mg/l	0.1 : 0.05 (Interlab)	**0.17**	**<0.1**	**52**	0.17	0.19	11
	F1 (C6-C10 minus BTE	mg/l	0.02 : 0.01 (Interlab)	<0.04	0.05	22	**<0.04**	**0.15**	**116**
	F2 (C10-C16 less Naph	mg/l	0.05	0.07	0.07	0	**0.07**	**0.19**	**92**
2013)									
BTEXN	Benzene	mg/l	0.001	<0.002	<0.002	0	<0.002	<0.01	0
	Toluene	mg/l	0.001	**0.007**	**0.16**	**183**	**0.007**	**0.15**	**182**
	Ethylbenzene	mg/l	0.001	<0.002	<0.002	0	<0.002	<0.01	0
	Xylene (o)	mg/l	0.001	<0.002	<0.002	0	<0.002	<0.01	0
	Xylene (m & p)	mg/l	0.002	<0.004	<0.004	0	<0.004	<0.02	0
	Xylene Total	mg/l	0.003 : 0.001 (Interlab)	<0.006	<0.006	0	<0.006	<0.01	0
	Naphthalene_VOC	mg/l	0.01 : 0.001 (Interlab)	<0.02	<0.02	0	<0.02	<0.01	0
PAH	Acenaphthene	mg/l	0.001 : 1e-005 (Interlab)	<0.001	<0.001	0	<0.001	<0.00001	0
	Acenaphthylene	mg/l	0.001 : 1e-005 (Interlab)	<0.001	<0.001	0	<0.001	<0.00001	0
	Anthracene	mg/l	0.001 : 1e-005 (Interlab)	<0.001	<0.001	0	<0.001	0.00003	0
	Benz(a)anthracene	mg/l	0.001 : 1e-005 (Interlab)	<0.001	<0.001	0	<0.001	<0.00001	0
	Benzo(a)pyrene	mg/l	0.001 : 1e-005 (Interlab)	<0.001	<0.001	0	<0.001	<0.00001	0
	Benzo(b+j)fluoranther	mg/l	0.001	<0.001	<0.001	0	<0.001		
	Benzo(g,h,i)perylene	mg/l	0.001 : 1e-005 (Interlab)	<0.001	<0.001	0	<0.001	<0.00001	0
	Benzo(k)fluoranthene	mg/l	0.001	<0.001	<0.001	0	<0.001		
	Chrysene	mg/l	0.001 : 1e-005 (Interlab)	<0.001	<0.001	0	<0.001	<0.00001	0
	Dibenz(a,h)anthracene	mg/l	0.001 : 1e-005 (Interlab)	<0.001	<0.001	0	<0.001	<0.00001	0
	Fluoranthene	mg/l	0.001 : 1e-005 (Interlab)	<0.001	<0.001	0	<0.001	<0.00001	0
	Fluorene	mg/l	0.001 : 1e-005 (Interlab)	<0.001	<0.001	0	<0.001	<0.00001	0
	Indeno(1,2,3-c,d)pyren	mg/l	0.001 : 1e-005 (Interlab)	<0.001	<0.001	0	<0.001	<0.00001	0
	Naphthalene	mg/l	0.001 : 2e-005 (Interlab)	<0.001	<0.001	0	<0.001	0.00008	0
	Phenanthrene	mg/l	0.001 : 1e-005 (Interlab)	<0.001	<0.001	0	<0.001	<0.00001	0
	Pyrene	mg/l	0.001 : 1e-005 (Interlab)	<0.001	<0.001	0	<0.001	0.00001	0
	PAHs (Sum of total)	mg/l	0.001	<0.001	<0.001	0	<0.001	0.00012	0
Chlorinated	1,1,1,2-tetrachloroeth	mg/l	0.001	<0.002	<0.002	0	<0.002	<0.01	0
	1,1,1-trichloroethane	mg/l	0.001	<0.002	<0.002	0	<0.002	<0.01	0
	1,1,2,2-tetrachloroeth	mg/l	0.001	<0.002	<0.002	0	<0.002	<0.01	0
	1,1,2-trichloroethane	mg/l	0.001	<0.002	<0.002	0	<0.002	<0.01	0
	1,1-dichloroethane	mg/l	0.001	<0.002	<0.002	0	<0.002	<0.01	0
	1,2,3-trichloropropane	mg/l	0.001	<0.002	<0.002	0	<0.002	<0.01	0
	1,2-dichloroethane	mg/l	0.001	<0.002	<0.002	0	<0.002	<0.01	0
	1,2-dichloropropane	mg/l	0.001	<0.002	<0.002	0	<0.002	<0.01	0
	1,3-dichloropropane	mg/l	0.001	<0.002	<0.002	0	<0.002	<0.01	0
	Bromochloromethane	mg/l	0.001	<0.002	<0.002	0	<0.002	<0.01	0
	Carbon tetrachloride	mg/l	0.001	<0.002	<0.002	0	<0.002	<0.01	0
	Chloroethane	mg/l	0.005 : 0.01 (Interlab)	<0.01	<0.01	0	<0.01	<0.1	0
	Chloromethane	mg/l	0.005 : 0.01 (Interlab)	<0.01	<0.01	0	<0.01	<0.1	0
	Dichlorodifluorometha	mg/l	0.005 : 0.01 (Interlab)	<0.01	<0.01	0	<0.01	<0.1	0
	Dichloromethane	mg/l	0.005	<0.01	<0.01	0	<0.01		
	Trichlorofluoromethan	mg/l	0.005 : 0.01 (Interlab)	<0.01	<0.01	0	<0.01	<0.1	0
Alkanes									
Chlorinated	1,1-dichloroethene	mg/l	0.001	<0.002	<0.002	0	<0.002	<0.01	0
	3-chloropropene	mg/l	0.001	<0.002	<0.002	0	<0.002		
	4-chlorotoluene	mg/l	0.001	<0.002	<0.002	0	<0.002	<0.01	0
	cis-1,2-dichloroethene	mg/l	0.001	<0.002	<0.002	0	<0.002	<0.01	0
	cis-1,3-dichloroproper	mg/l	0.001	<0.002	<0.002	0	<0.002	<0.01	0
	Tetrachloroethene	mg/l	0.001	<0.002	<0.002	0	<0.002	<0.01	0
	trans-1,2-dichloroethe	mg/l	0.001	<0.002	<0.002	0	<0.002	<0.01	0
	trans-1,3-dichloroprop	mg/l	0.001	<0.002	<0.002	0	<0.002	<0.01	0
	Trichloroethene	mg/l	0.001	<0.002	<0.002	0	<0.002	<0.01	0
	Vinyl Chloride	mg/l	0.005 : 0.01 (Interlab)	<0.01	<0.01	0	<0.01	<0.1	0
Alkenes									
Solvents	Acetone	mg/l	0.005	<0.01	<0.01	0	<0.01		
PFAS	Perfluorobutanoic acid	µg/L	0.05 : 0.02 (Interlab)	<0.05	<0.05	0	<0.05	<0.02	0
	Perfluoropentanoic ac	µg/L	0.01 : 0.02 (Interlab)	<0.01	<0.01	0	<0.01	<0.02	0
	Perfluorohexanoic acid	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.01	0
	Perfluoroheptanoic ac	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.01	0
	Perfluorooctanoic acid	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.01	0
	Perfluorononanoic aci	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.01	0

Groundwater RPDs

Project Number: 63879

Project Name: Broken Hill Hospital Redevelopment

Field Duplicates (Water)

Filter: ALL

				962621	962621		962621	ENVIROLAB	
			SDG						
			Field ID	GW03	DUP01	**RPD**	GW03	SPLIT01	**RPD**
			Sampled Date/Time	5/02/2023	5/02/2023		5/02/2023	5/02/2023	
	Perfluorodecanoic aci	µg/L	0.01 : 0.02 (Interlab)	<0.01	<0.01	0	<0.01	<0.02	0
	Perfluoroundecanoic a	µg/L	0.01 : 0.02 (Interlab)	<0.01	<0.01	0	<0.01	<0.02	0
	Perfluorododecanoic a	µg/L	0.01 : 0.05 (Interlab)	<0.01	<0.01	0	<0.01	<0.05	0
	Perfluorotridecanoic a	µg/L	0.01 : 0.1 (Interlab)	<0.01	<0.01	0	<0.01	<0.1	0
	Perfluorotetradecanoi	µg/L	0.01 : 0.5 (Interlab)	<0.01	<0.01	0	<0.01	<0.5	0
	Perfluorooctane sulfor	µg/L	0.05 : 0.1 (Interlab)	<0.05	<0.05	0	<0.05	<0.1	0
	N-Methyl perfluorooct	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.05	0
	N-Ethyl perfluorooctar	µg/L	0.05 : 0.1 (Interlab)	<0.05	<0.05	0	<0.05	<0.1	0
	N-Methylperfluorooct	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.05	0
	N-ethylperfluorooctan	µg/L	0.05 : 0.5 (Interlab)	<0.05	<0.05	0	<0.05	<0.5	0
	N-methylperfluorooct	µg/L	0.05 : 0.02 (Interlab)	<0.05	<0.05	0	<0.05	<0.02	0
	N-ethyl-perfluorooctа	µg/L	0.05 : 0.02 (Interlab)	<0.05	<0.05	0	<0.05	<0.02	0
	Perfluoropropanesulfo	µg/L	0.01	<0.01	<0.01	0	<0.01		
	Perfluorobutanesulfor	µg/L	0.01	<0.01	<0.01	0	<0.01	0.01	0
	Perfluoropentanesulfo	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.01	0
	Perfluorohexanesulfor	µg/L	0.01	**0.02**	**0.03**	**40**	0.02	0.02	0
	Perfluoroheptane sulf	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.01	0
	Perfluorooctanesulfon	µg/L	0.01	**0.13**	**0.28**	**73**	**0.13**	**0.04**	**106**
	Perfluorodecanesulfor	µg/L	0.01 : 0.02 (Interlab)	<0.01	<0.01	0	<0.01	<0.02	0
	1H.1H.2H.2H-perfluor	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.01	0
	1H.1H.2H.2H-perfluor	µg/L	0.05 : 0.01 (Interlab)	<0.05	<0.05	0	<0.05	<0.01	0
	1H.1H.2H.2H-perfluor	µg/L	0.01 : 0.02 (Interlab)	<0.01	<0.01	0	<0.01	<0.02	0
	1H.1H.2H.2H-perfluor	µg/L	0.01 : 0.02 (Interlab)	<0.01	<0.01	0	<0.01	<0.02	0
	1H.1H.2H.2H-perfluor	µg/L	0.01 : 0.02 (Interlab)	<0.01	<0.01	0	<0.01	<0.02	0
	Sum of PFHxS and PFO	µg/L	0.01	**0.15**	**0.31**	**70**	**0.15**	**0.06**	**86**
	Sum of enHealth PFAS	µg/L	0.01	**0.15**	**0.31**	**70**	0.15		
	Sum of US EPA PFAS (F	µg/L	0.01	**0.13**	**0.28**	**73**	**0.13**	**0.04**	**106**
	Sum of WA DWER PFA	UG/L	0.05	**0.15**	**0.31**	**70**	0.15		
	Sum of PFAS	µg/L	0.1 : 0.01 (Interlab)	**0.15**	**0.31**	**70**	**0.15**	**0.08**	**61**
	Perfluorononanesulfo	µg/L	0.01	<0.01	<0.01	0	<0.01		
MAH	1,2,4-trimethylbenzen	mg/l	0.001	<0.002	<0.002	0	<0.002	<0.01	0
	1,3,5-trimethylbenzen	mg/l	0.001	<0.002	<0.002	0	<0.002	<0.01	0
	Styrene	mg/l	0.001	<0.002	<0.002	0	<0.002	<0.01	0
	Total MAH	mg/l	0.003	**0.007**	**0.16**	**183**	0.007		
	Bromobenzene	mg/l	0.001	<0.002	<0.002	0	<0.002	<0.01	0
	Isopropylbenzene	mg/l	0.001	<0.002	<0.002	0	<0.002	<0.01	0
Miscellaneo	1,2-dibromoethane	mg/l	0.001	<0.002	<0.002	0	<0.002	<0.01	0
	Bromomethane	mg/l	0.005 : 0.01 (Interlab)	<0.01	<0.01	0	<0.01	<0.1	0
	Dibromomethane	mg/l	0.001	<0.002	<0.002	0	<0.002	<0.01	0
	Iodomethane	mg/l	0.001	<0.002	<0.002	0	<0.002		
	4-Methyl-2-pentanone	mg/l	0.005	<0.01	<0.01	0	<0.01		
	Methyl Ethyl Ketone	mg/l	0.005	<0.01	<0.01	0	<0.01		
us Hydrocarbons									
Chlorinated	1,2-Dichlorobenzene	mg/l	0.001	**0.014**	**0.27**	**180**	**0.014**	**0.26**	**180**
	1,3-dichlorobenzene	mg/l	0.001	<0.002	<0.002	0	**<0.002**	**0.013**	**147**
	1,4-dichlorobenzene	mg/l	0.001	**<0.002**	**0.062**	**188**	**<0.002**	**0.058**	**187**
	Chlorobenzene	mg/l	0.001	**0.002**	**0.045**	**183**	**0.002**	**0.036**	**179**
Benzenes									
Trihalometh	Dibromochloromethar	mg/l	0.001	<0.002	<0.002	0	<0.002	<0.01	0
	Chloroform	mg/l	0.005 : 0.001 (Interlab)	<0.005	<0.005	0	<0.005	<0.01	0
	Tribromomethane	mg/l	0.001	<0.002	<0.002	0	<0.002	<0.01	0
	Bromodichloromethar	mg/l	0.001	<0.002	<0.002	0	<0.002	<0.01	0
anes									
Organic Sulf	Carbon disulfide	mg/l	0.001	<0.002	<0.002	0	<0.002		
ur Compounds									
EPA VIC - IW	Chlorinated Hydrocarb	mg/l	0.005	**0.016**	**0.377**	**184**	0.016		
	Other Chlorinated Hyc	mg/l	0.005	**0.016**	**0.377**	**184**	0.016		

*RPDs have only been considered where a concentration is greater than 1 times the EQL.

**High RPDs are in bold (Acceptable RPDs for each EQL multiplier range are: 30 (1-10 x EQL); 30 (10-30 x EQL); 30 (> 30 x EQL))

***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relat

Soil RPDs
Project Number: 63879
Project Name: Broken Hill Hospital Redevelopment

Field Duplicates (Soil)			SDG	962621	962621		962621	962621		962621	962621		962621	ENVIROLAB		962621	ENVIROLAB		962621	ENVIROLAB	
Filter: ALL			**Field ID**	MH-B7_0.9-1.0	DUP01	**RPD**	ED-B1_0.4-0.5	DUP02	**RPD**	MH-B3_0.8-1.0	DUP03	**RPD**	MH-B7_0.9-1.0	SPLIT01	**RPD**	ED-B1_0.4-0.5	SPLIT02	**RPD**	MH-B3_0.8-1.0	SPLIT03	**RPD**
			Sampled Date/Time	2/02/2023	2/02/2023		2/02/2023	2/02/2023		3/02/2023	3/02/2023		2/02/2023	2/02/2023		2/02/2023	2/02/2023		3/02/2023	3/02/2023	
Chem_Grou	**ChemName**	**Units**	**EQL**																		
Metals & M	Arsenic	mg/kg	2 : 4 (Interlab)	**2.3**	**5.5**	**82**	2.7	<2	30	3	2.7	11	**2.3**	**4**	**54**	2.7	<4	0	3	<4	0
	Cadmium	mg/kg	0.4	<0.4	<0.4	0	<0.4	<0.4	0	<0.4	<0.4	0	<0.4	<0.4	0	<0.4	<0.4	0	<0.4	<0.4	0
	Chromium (	mg/kg	5 : 1 (Interlab)	27	26	4	**21**	**11**	**63**	47	43	9	27	22	20	**21**	**12**	**55**	47	38	21
	Copper	mg/kg	5 : 1 (Interlab)	8.6	9.3	8	**30**	**51**	**52**	9.3	8.3	11	8.6	9	5	30	37	21	9.3	7	28
	Lead	mg/kg	5 : 1 (Interlab)	**9.8**	**16**	**48**	**14**	**10**	**33**	14	14	0	9.8	9	9	**14**	**10**	**33**	**14**	**10**	**33**
	Mercury	mg/kg	0.1	<0.1	<0.1	0	<0.1	<0.1	0	<0.1	<0.1	0	<0.1	<0.1	0	<0.1	<0.1	0	<0.1	<0.1	0
	Nickel	mg/kg	5 : 1 (Interlab)	15	15	0	**13**	**7.1**	**59**	26	23	12	15	12	22	**13**	**6**	**74**	**26**	**19**	**31**
	Zinc	mg/kg	5 : 1 (Interlab)	47	47	0	**39**	**18**	**74**	49	44	11	47	35	29	**39**	**15**	**89**	**49**	**32**	**42**
etalloids																					
TPHs (NEPC	C6-C9 Fracti	mg/kg	20 : 25 (Interlab)	<20	<20	0				<20	<20	0	<20	<25	0				<20	<25	0
	C10-C14 Fra	mg/kg	20 : 50 (Interlab)	<20	<20	0				<20	<20	0	<20	<50	0				<20	<50	0
	C15-C28 Fra	mg/kg	50 : 100 (Interlab)	<50	<50	0				<50	<50	0	<50	<100	0				<50	<100	0
	C29-C36 Fra	mg/kg	50 : 100 (Interlab)	<50	<50	0				<50	<50	0	<50	<100	0				<50	<100	0
	C10-C36 Fra	mg/kg	50	<50	<50	0				<50	<50	0	<50	<50	0				<50	<50	0
1999)																					
TRHs (NEPC	C6-C10	mg/kg	20 : 25 (Interlab)	<20	<20	0				<20	<20	0	<20	<25	0				<20	<25	0
	C10-C16	mg/kg	50	<50	<50	0				<50	<50	0	<50	<50	0				<50	<50	0
	C16-C34	mg/kg	100	<100	<100	0				<100	<100	0	<100	<100	0				<100	<100	0
	C34-C40	mg/kg	100	<100	<100	0				<100	<100	0	<100	<100	0				<100	<100	0
	C10-C40 (Su	mg/kg	100 : 50 (Interlab)	<100	<100	0				<100	<100	0	<100	<50	0				<100	<50	0
	F1 (C6-C10 r	mg/kg	20 : 25 (Interlab)	<20	<20	0				<20	<20	0	<20	<25	0				<20	<25	0
	F2 (C10-C16	mg/kg	50	<50	<50	0				<50	<50	0	<50	<50	0				<50	<50	0
2013)																					
BTEXN	Benzene	mg/kg	0.1 : 0.2 (Interlab)	<0.1	<0.1	0				<0.1	<0.1	0	<0.1	<0.2	0				<0.1	<0.2	0
	Toluene	mg/kg	0.1 : 0.5 (Interlab)	<0.1	<0.1	0				<0.1	<0.1	0	<0.1	<0.5	0				<0.1	<0.5	0
	Ethylbenzen	mg/kg	0.1 : 1 (Interlab)	<0.1	<0.1	0				<0.1	<0.1	0	<0.1	<1	0				<0.1	<1	0
	Xylene (o)	mg/kg	0.1 : 1 (Interlab)	<0.1	<0.1	0				<0.1	<0.1	0	<0.1	<1	0				<0.1	<1	0
	Xylene (m &	mg/kg	0.2 : 2 (Interlab)	<0.2	<0.2	0				<0.2	<0.2	0	<0.2	<2	0				<0.2	<2	0
	Xylene Tota	mg/kg	0.3 : 1 (Interlab)	<0.3	<0.3	0				<0.3	<0.3	0	<0.3	<1	0				<0.3	<1	0
	Naphthalen	mg/kg	0.5 : 1 (Interlab)	<0.5	<0.5	0				<0.5	<0.5	0	<0.5	<1	0				<0.5	<1	0
PAH	Acenaphthe	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0
	Acenaphthy	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0
	Anthracene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0
	Benz(a)anth	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0
	Benzo(a)pyr	mg/kg	0.5 : 0.05 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.05	0	<0.5	<0.05	0	<0.5	<0.05	0
	Benzo(a)pyr	mg/kg	0.5	1.2	1.2	0	1.2	1.2	0	1.2	1.2	0	**1.2**	**<0.5**	**82**	**1.2**	**<0.5**	**82**	**1.2**	**<0.5**	**82**
	Benzo(a)pyr	mg/kg	0.5	0.6	0.6	0	0.6	0.6	0	0.6	0.6	0	0.6	<0.5	18	0.6	<0.5	18	0.6	<0.5	18
	Benzo(a)pyr	mg/kg	0.5	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0
	Benzo(b+j)fl	mg/kg	0.5	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5			<0.5			<0.5		
	Benzo(g,h,i)	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0
	Benzo(k)fluo	mg/kg	0.5	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5			<0.5			<0.5		
	Chrysene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0
	Dibenz(a,h)a	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0
	Fluoranthen	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0
	Fluorene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0
	Indeno(1,2,3	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0
	Naphthalen	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0
	Phenanthre	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0
	Pyrene	mg/kg	0.5 : 0.1 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.1	0	<0.5	<0.1	0	<0.5	<0.1	0
	PAHs (Sum c	mg/kg	0.5 : 0.05 (Interlab)	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.5	0	<0.5	<0.05	0	<0.5	<0.05	0	<0.5	<0.05	0
Organochlo	4,4-DDE	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0				<0.05	<0.05	0	<0.05	<0.1	0				<0.05	<0.1	0
	a-BHC	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0				<0.05	<0.05	0	<0.05	<0.1	0				<0.05	<0.1	0
	b-BHC	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0				<0.05	<0.05	0	<0.05	<0.1	0				<0.05	<0.1	0
	d-BHC	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0				<0.05	<0.05	0	<0.05	<0.1	0				<0.05	<0.1	0
	g-BHC (Linda	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0				<0.05	<0.05	0	<0.05	<0.1	0				<0.05	<0.1	0
	Aldrin	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0				<0.05	<0.05	0	<0.05	<0.1	0				<0.05	<0.1	0
	Dieldrin	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0				<0.05	<0.05	0	<0.05	<0.1	0				<0.05	<0.1	0
	Aldrin + Die	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0				<0.05	<0.05	0	<0.05	<0.1	0				<0.05	<0.1	0
	Chlordane	mg/kg	0.1	<0.1	<0.1	0				<0.1	<0.1	0	<0.1						<0.1		
	DDT	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0				<0.05	<0.05	0	<0.05	<0.1	0				<0.05	<0.1	0
	DDD	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0				<0.05	<0.05	0	<0.05	<0.1	0				<0.05	<0.1	0
	DDT+DDE+D	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0				<0.05	<0.05	0	<0.05	<0.1	0				<0.05	<0.1	0
	Endosulfan	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0				<0.05	<0.05	0	<0.05	<0.1	0				<0.05	<0.1	0
	Endosulfan	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0				<0.05	<0.05	0	<0.05	<0.1	0				<0.05	<0.1	0
	Endosulfan	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0				<0.05	<0.05	0	<0.05	<0.1	0				<0.05	<0.1	0
	Endrin	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0				<0.05	<0.05	0	<0.05	<0.1	0				<0.05	<0.1	0
	Endrin aldeh	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0				<0.05	<0.05	0	<0.05	<0.1	0				<0.05	<0.1	0
	Endrin keto	mg/kg	0.05	<0.05	<0.05	0				<0.05	<0.05	0	<0.05						<0.05		
	Heptachlor	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0				<0.05	<0.05	0	<0.05	<0.1	0				<0.05	<0.1	0
	Heptachlor	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0				<0.05	<0.05	0	<0.05	<0.1	0				<0.05	<0.1	0
	Methoxychl	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0				<0.05	<0.05	0	<0.05	<0.1	0				<0.05	<0.1	0
	Toxaphene	mg/kg	0.5	<0.5	<0.5	0				<0.5	<0.5	0	<0.5						<0.5		

Soil RPDs
Project Number: 63879
Project Name: Broken Hill Hospital Redevelopment

Field Duplicates (Soil)			SDG	962621	962621		962621	962621		962621	962621		962621	ENVIROLAB		962621	ENVIROLAB		962621	ENVIROLAB	
Filter: ALL			**Field ID**	MH-B7_0.9-1.0	DUP01	**RPD**	ED-B1_0.4-0.5	DUP02	**RPD**	MH-B3_0.8-1.0	DUP03	**RPD**	MH-B7_0.9-1.0	SPLIT01	**RPD**	ED-B1_0.4-0.5	SPLIT02	**RPD**	MH-B3_0.8-1.0	SPLIT03	**RPD**
			Sampled Date/Time	2/02/2023	2/02/2023		2/02/2023	2/02/2023		3/02/2023	3/02/2023		2/02/2023	2/02/2023		2/02/2023	2/02/2023		3/02/2023	3/02/2023	
'ine Pesticides																					
Chlorinated	1,1,1,2-tetra	mg/kg	0.5																		
	1,1,1-trichlo	mg/kg	0.5																		
	1,1,2,2-tetra	mg/kg	0.5																		
	1,1,2-trichlo	mg/kg	0.5																		
	1,1-dichloro	mg/kg	0.5																		
	1,2,3-trichlo	mg/kg	0.5																		
	1,2-dichloro	mg/kg	0.5																		
	1,2-dichloro	mg/kg	0.5																		
	1,3-dichloro	mg/kg	0.5																		
	Bromochlor	mg/kg	0.5																		
	Carbon tetra	mg/kg	0.5																		
	Chloroethar	mg/kg	0.5 : 1 (Interlab)																		
	Chlorometh	mg/kg	0.5 : 1 (Interlab)																		
	Dichlorodifl	mg/kg	0.5 : 1 (Interlab)																		
	Dichloromet	mg/kg	0.5																		
	Trichloroflu	mg/kg	0.5 : 1 (Interlab)																		
Alkanes																					
Chlorinated	1,1-dichloro	mg/kg	0.5																		
	3-chloropro	mg/kg	0.5																		
	4-chlorotolu	mg/kg	0.5																		
	cis-1,2-dichl	mg/kg	0.5																		
	cis-1,3-dichl	mg/kg	0.5																		
	Tetrachloro	mg/kg	0.5																		
	trans-1,2-di	mg/kg	0.5																		
	trans-1,3-di	mg/kg	0.5																		
	Trichloroeth	mg/kg	0.5																		
	Vinyl Chlori	mg/kg	0.5 : 1 (Interlab)																		
Alkenes																					
Solvents	Acetone	mg/kg	0.5																		
Polychlorina	Arochlor 10	mg/kg	0.1	<0.1	<0.1	0				<0.1	<0.1	0	<0.1	<0.1	0				<0.1	<0.1	0
	Arochlor 12	mg/kg	0.1	<0.1	<0.1	0				<0.1	<0.1	0	<0.1	<0.1	0				<0.1	<0.1	0
	Arochlor 12	mg/kg	0.1	<0.1	<0.1	0				<0.1	<0.1	0	<0.1	<0.1	0				<0.1	<0.1	0
	Arochlor 12	mg/kg	0.1	<0.1	<0.1	0				<0.1	<0.1	0	<0.1	<0.1	0				<0.1	<0.1	0
	Arochlor 12	mg/kg	0.1	<0.1	<0.1	0				<0.1	<0.1	0	<0.1	<0.1	0				<0.1	<0.1	0
	Arochlor 12	mg/kg	0.1	<0.1	<0.1	0				<0.1	<0.1	0	<0.1	<0.1	0				<0.1	<0.1	0
	Arochlor 12	mg/kg	0.1	<0.1	<0.1	0				<0.1	<0.1	0	<0.1	<0.1	0				<0.1	<0.1	0
	PCBs (Sum o	mg/kg	0.1	<0.1	<0.1	0				<0.1	<0.1	0	<0.1	<0.1	0				<0.1	<0.1	0
ted Biphenyls																					
MAH	1,2,4-trimet	mg/kg	0.5																		
	1,3,5-trimet	mg/kg	0.5																		
	Styrene	mg/kg	0.5																		
	Total MAH	mg/kg	0.5																		
	Bromobenz	mg/kg	0.5																		
	Isopropylbe	mg/kg	0.5																		
Miscellaneo	1,2-dibromo	mg/kg	0.5																		
	Bromometh	mg/kg	0.5 : 1 (Interlab)																		
	Dibromome	mg/kg	0.5																		
	Iodomethar	mg/kg	0.5																		
	4-Methyl-2-	mg/kg	0.5																		
	Methyl Ethy	mg/kg	0.5																		
us Hydrocarbons																					
Chlorinated	1,2-Dichloro	mg/kg	0.5																		
	1,3-dichloro	mg/kg	0.5																		
	1,4-dichloro	mg/kg	0.5																		
	Chlorobenz	mg/kg	0.5																		
	Hexachlorob	mg/kg	0.05 : 0.1 (Interlab)	<0.05	<0.05	0				<0.05	<0.05	0	<0.05	<0.1	0				<0.05	<0.1	0
Benzenes																					
Trihalometh	Dibromochl	mg/kg	0.5																		
	Chloroform	mg/kg	0.5																		
	Tribromome	mg/kg	0.5																		
	Bromodichl	mg/kg	0.5																		
anes																					
Organic Sulf	Carbon disu	mg/kg	0.5																		
ur Compounds																					
EPA VIC - IW	Chlorinated	mg/kg	0.5																		
	Other Chlor	mg/kg	0.5																		
	Organochlo	mg/kg	0.1	<0.1	<0.1	0				<0.1	<0.1	0	<0.1						<0.1		
	Other Orgar	mg/kg	0.1	<0.1	<0.1	0				<0.1	<0.1	0	<0.1						<0.1		
'RG621																					
Other	Moisture Co	%	1	4.6	6.1	28	11	8.5	26	4.1	5.5	29	4.6			11			4.1		

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

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