DETAILED SITE INVESTIGATION REPORT

330 – 350 Eighth Avenue, Austral NSW

Woolworths Ltd – April 2023





DOCUMENT CONTROL

DETAILED SITE INVESTIGATION REPORT

330 – 350 Eighth Avenue, Austral NSW

PREPARED FOR

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EXECUTIVE SUMMARY

Geo-Logix Pty Ltd was commissioned by Woolworths Ltd to conduct a Detailed Site Investigation (DSI) of the property located at 330 – 350 Eighth Avenue, Austral NSW. Woolworths proposed to develop the site as commercial retail centre with on-grade parking.

The objective of the DSI was to assess the land for contamination that may be associated with historical site activities and consider the suitability of the site for retail development.

Review of aerial imagery indicates the site has historically been used for market gardening. No evidence of on-site farm dams or extensive filling was identified; however it was noted some filling may be present in the vicinity of the on-site residences and sheds. Minor vehicle and farm machinery maintenance was also likely to have occurred at the site in the vicinity of existing and former sheds. All former site structures were noted to be on the northern half of the site.

To assess for potential soil contamination on the site the following scope of works was completed:

- Systematic sampling of shallow soils for market gardening COPC (OCPs and heavy metals) at 40 locations on a 21 m square grid. The sampling frequency meets NSW EPA (2022) minimum sampling density requirements and is sufficient to identify circular contamination hotspots equal to or greater than 25m diameter at a 95% degree of statistical certainty.
- Systematic sampling of shallow soils for market gardening COPC and fill/demolition COPC (OCPs and heavy metals) at 40 locations on a square 15 m grid sampling plan across the northern half of the site. The sampling frequency meets NSW EPA (2022) minimum sampling density requirements and WA DOH (2009) asbestos assessment guidelines and is sufficient to identify circular contamination hotspots equal to or greater than 17.7 m diameter at a 95% degree of statistical certainty.

During the site investigations, fill was encountered across the majority of the site. Fill comprised:

- Northern half: A moderate brown clayey sand with gravels. In some areas (generally south of the east and west dwellings) the fill appeared similar to the tilled soils in the southern portion of the site. In some areas surrounding the onsite dwellings, fill comprised sandy gravelly clays. Some anthropogenic materials (bricks, plastic, tiles, concrete pieces, plaster cement fragments) were observed, generally in an upper clayey sand layer. Fragments of asbestos containing material (ACM, cement sheeting) was observed at location TP15.
- Southern half: The material in majority of locations investigated comprised moderate brown clayey sands with gravels and pieces of black plastic sheeting, most likely to be tilled soil from former market gardening activities. No ACM was observed at locations investigated.

Based on the fill observations during investigation, the following further analysis were performed.

Northern half

• Fill COPC TRH, BTEX, PAHs: Analysis of samples from 15 locations (including two locations with samples of two different fill layers). Samples were selected based on observations of fill thickness and anthropogenic inclusions. Analysis of samples in areas



of current and former site infrastructure for COPC associated for former farming equipment maintenance.

• Fill COPC PCBs: Selected for analysis of fill COPC PCBs based on high anthropogenic content and general coverage.

Southern half

- Fill COPC TRH, BTEX, PAHs: Samples at four locations selected for analysis where fill was identified at greater depths;
- Fill was inspected for ACM at each sample location.

Results of the investigation identified a non-conformance of the project decision rules due to fragments of bonded ACM and fibrous asbestos (AF/FA associated with weathered ACM) in shallow soils in the central portion of the northern half of the site (surrounding TP15 and TP50).

On this basis the project decision has not been met and the site is not considered suitable for the proposed retail development without remediation. Geo-Logix's opinion is that the site can be made suitable for the proposed development subject to the following:

- Preparation of a Remedial Action Plan (RAP) detailing the remedial methodology and validation requirements for asbestos impacted soils; and
- Remediation and validation of asbestos impacted soils.

It is recommended site demolition be conducted prior to remediation in the event the demolition works results in localised residual hazardous building material contamination to shallow soils.



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- Attachment A: Photographic Log
- Attachment B: Underground Utilities Plan
- Attachment C: Historical Aerial Imagery
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1. INTRODUCTION

Geo-Logix Pty Ltd (Geo-Logix) was commissioned by Woolworths Ltd (Woolworths) to conduct a Detailed Site Investigation (DSI) of the property located at 330 – 350 Eighth Avenue, Austral NSW (Figure 1). Woolworths propose to develop the site as commercial retail centre with on-grade parking.

The objective of the DSI was to assess the land for contamination that may be associated with historical site activities and consider the suitability of the site for retail development.

Address	330-350 Eighth Avenue, Austral NSW 2179 (Also referenced as 260-260A Eighth Avenue https://maps.six.nsw.gov.au/)	
Lot and Deposited Plan (DP)	Lot 940 DP 1265677	
Approximate Area	18,169 m²(https://maps.six.nsw.gov.au/)	
Coordinates	Lat: 33.937°S Long: 150.798°E	
Zoning	R2: Low Density Residential	
Current Land Use	The northern portion of the site is currently used for residential purposes. Three separate dwellings and a number of sheds exist on the northern portion of the site. The southern portion of the site is vacant, with the eastern portion overgrown.	
Surrounding Land Use	 North – Eighth Avenue and residential and vacant plots undergoing construction beyond; South – Auger Street and vacant plots beyond; East – Residential properties and vacant plots; and West –Residential properties, and Narrami Road beyond. 	
Site Description (Attachment A– Photographic Log)	 The following observations were made during site inspection and field works conducted by Geo-Logix from March 6 to 8 2023 (Figure 2): The northern half of site has three residential properties and numerous sheds. The central dwelling and sheds south of the central dwelling appear to comprise potential asbestos containing material (ACM) fibre cement sheeting. The majority of shed appears to comprise corrugated metal sheeting and a non-fibrous plaster cement sheeting. At least one shed (former toilet) in this location comprised a fibrous cement sheeting, likely ACM. This sheeting was broken in some areas. A substantial number of plaster cement fragments on the site surface in and around this location. Many were observed to be the non-fibrous plaster cement sheet that was considered not likely to be ACM, however, it was not possible to differentiate non-fibrous from fibrous due to the volume of fragments. It is likely there are some ACM cement fragments on the ground surface in this location. The southern half of site is vacant, with the eastern half overgrown. Evidence of cropping over the southern portion remains (irrigation infrastructure). Most of the site was unsealed and grassed. 	
Topography and Elevation	The site topography has been artificially levelled with fill in some areas. There is a general slope towards the northeast. The regional topography also slopes towards northeast. The site elevation ranges from 75 to 80 m.	

2. SITE INFORMATION



Geology Mesozoic era, Triassic period, middle epoch, Wianamatta Group with shale, carbonad claystone, claystone, laminite, fine to medium-grained lithic sandstone, rare coal and to (Penrith 1:100,000 Geological Series sheet 9030).		
Nearest Surface Water	A tributary of Kemps Creek is located approximately 400 m northeast of the site and flow towards north. The closest surface water is a dam that is connected to this tributary 280m east of the site.	
Regional Hydrogeology	Groundwater is expected to follow regional topography and flow northeast towards the tributary of Kemps Creek.	
	 A Dial Before You Dig search was conducted to determine the presence of underground utilities which may act as conduits for contamination migration both onsite and offsite (Attachment B). The plans indicate: Endeavour Energy, Jemena and Telstra utilities run underneath Eighth Avenue north of the site and continue north and east; 	
Underground Utilities (Attachment B – Underground	 Endeavour Energy, Jemena and Telstra utilities run underneath vacant land to be developed south of the site and run south and east; 	
Utilities Plan)	 Telstra utilities run underneath the northern portion of the site, entering the site from Eighth Avenue; 	
	 Sydney water utilities run underneath Eighth Avenue north of the site and continue east; and 	
	 Sydney water utilities run underneath Nemean Road southwest of the site and continue south. 	

3. SITE HISTORY

The following information has been reviewed to determine historical land use and assess the likelihood of potentially contaminating activities having occurred at the site:

- Historical aerial photographs;
- Available public databases including NSW Environmental Protection Authority (EPA) databases; and
- Protection of Environment Operations Act 1997 Public Register.

3.1 Historical Aerial Imagery Review

Historical aerial photographs were reviewed to assess for potentially contaminating activities. Historical aerial imagery was obtained by Land Insight (Attachment C). A summary is included below.

Year	Site	Surrounding Area
1947	The site is a residential property with three buildings in the northern portion of the site. Possible market gardening is apparent in the northwest corner of the site. The site has been cleared of vegetation. The start of revegetation is apparent in the southern portion of the site.	The land to the south and west is vacant bushland with some clearing to the south. The land to the north and east appears to be cleared for rural residential land use with market gardening also apparent to the north
1961	Vegetation at the site, particularly in the southern half has increased significantly. The building in the centre of the site appears to have been demolished and replaced with a smaller shed.	Additional areas have been cleared for cropping to the west and south of the site.



Year	Site	Surrounding Area
1969	Photograph is blurry. Vegetation appears to have been cut back at the site. No other changes are apparent	A long building, possibly a chicken shed is apparent to the south of the site.
1975	One building remains in the northern portion of the site, presumably a residence. Two small sheds are apparent near to the house.	The majority of the surrounding land is now cleared. Less market gardening is apparent.
1982	The majority of the site is market gardening. Multiple sheds have been built to the south and east of the residence.	Appears similar to the previous aerial photograph. Market gardening of the surrounding land is apparent in this photo. A second chicken shed and a farm dam are present on the property to the south.
1986	Appears similar to the previous aerial photograph.	Appears similar to the previous aerial photograph.
1991	A larger house has been built to the east of the original residence.	Greenhouses are apparent to the west of the site and a large residence has been built to the east. Surrounding land use remains primarily agricultural.
1994	Appears similar to the previous aerial photograph.	Appears similar to the previous aerial photograph.
1998	Appears similar to the previous aerial photograph.	Appears similar to the previous aerial photograph.
2002	A new residence has been built in the northwest corner of the site.	Appears similar to the previous aerial photograph.
2010	Appears similar to the previous aerial photograph.	Appears similar to the previous aerial photograph.
2008	The northern portion of the site adjacent to the drainage line appears disturbed, filled. The remainder appears similar to the previous aerial photograph.	Appears similar to the previous aerial photograph.
2010	Appears similar to the previous aerial photograph.	Appears similar to the previous aerial photograph.
2013	Appears similar to the previous aerial photograph.	Appears similar to the previous aerial photograph.
2016	Stockpiles of material are apparent in the centre of the site	Appears similar to the previous aerial photograph.
2019	Appears similar to the previous aerial photograph.	Damage is apparent to the roof of the large chicken shed immediately to the south of the site.
2022	Appears similar to the previous aerial photograph.	The area to the south of the site has been redeveloped as moderate density residential. Some materials appeared to be stored on the southern site boundary.

3.2 Public Database Search

A search of public databases maintained by the NSW EPA was conducted, including the Contaminated Land Database, POEO Public Register of Licenses and Notices, and List of sites notified under the Duty to Notify. A summary of the search result is presented in the table below. The search results are presented in the attached Attachment D.

Database	Sites
Sites Notified as Contaminated to the EPA	None identified within 500 m of site.
Contaminated Land Record of Notice	None identified within 500 m of site.
NSW EPA Licences Protection of the Environment Operations Act 1997 (POEO Act)	210B Seventh Avenue, Austral NSW 2179, approximately 280m south east, was issued a clean-up notice by the NSW EPA in 2018 for stockpiled soil and construction waste, including asbestos, exceeding 40 m ³ . No other records were found for properties within 500 m of the subject site.
NSW EPA Clean UP and Penalty Notices	None identified within 500 m of site.



4. SITE HISTORY SUMMARY

Review of available aerial imagery data indicates the site has historically been located in rural residential area. Historical aerial photography from 1947 suggests the properties and surrounding areas have been used for market gardening. Chicken farming and orcharding also occurring in proximity to the site. No evidence of on-site farm dams or extensive filling were identified in the aerial photographs. Some filling may be present in the vicinity of the on-site residences and sheds. Minor vehicle and farm machinery maintenance is also likely to have occurred at the site, in the vicinity of existing and former sheds.

5. POTENTIAL SITE CONTAMINATION

5.1 Onsite Activities

Market Gardening

Given this historical activity there is potential for contamination to soil of the following contaminants of potential concern (COPC) associated with application of environmentally persistent pesticides:

- · Organochlorine Pesticides (OCPs); and
- Heavy Metals (As, Cd, Cr, Cu, Hg, Ni, Pb and Zn).

Hazardous building materials

Historical aerial photography suggests several former structures have been demolished on the northern half of the site. Given the age of the structures onsite, there is a high potential for hazardous building materials (asbestos and lead) in shallow soil.

Onsite Vehicle/Machinery Maintenance and Fill Material of Unknown Origin

There is evidence of potential filling over the northern half of the site. Where there is application of fill of unknown origin, the following COPC may be present:

- Petroleum hydrocarbons;
- Polycyclic aromatic hydrocarbons (PAHs);
- OCPs;
- Polychlorinated biphenyls (PCBs);
- · Heavy metals; and
- Asbestos.

5.2 Offsite Activities

No evidence of potential offsite sources of contamination were identified.



6. PRELIMINARY CONCEPTUAL SITE MODEL

For site contamination to present a risk to human health and the environment there has to be a link between the contaminant and the receptor as detailed below.

Contaminant

Pathway

Receptor

If any of the links do not exist contaminant exposure cannot occur.

Conceptual Site Model – Commercial Retail Centre					
Relevant Exposure	Receptors				
Pathways	Construction Workers	Site Visitors / Staff	Offsite	Other	
Soil Ingestion/Dermal Contact/Dust	√	~	Х	Terrestrial Ecology X Ecological pathway considered incomplete due to minimal soil access for proposed development	
Inhalation of Vapours derived from Soil	\checkmark	~	\checkmark	Onsite Trench worker ✓	
Inhalation of Vapours Derived from Groundwater	\checkmark	~	\checkmark	Onsite Trench worker ✓	
Soils Leaching to Groundwater				Ongoing Groundwater Impact ✓	
Groundwater Ingestion/Dermal Contact	Х	x	\checkmark		
Groundwater Discharge to Surface Water				Recreation/Aquatic ecosystem ✓	
		Comments			
X – exposure pathway inco	mplete no unacceptab	le risk			

-- - Not relevant

7. DATA QUALITY OBJECTIVES

The objective of the DSI was to assess the land for contamination that may be associated with historical site activities and consider the suitability of the site for retail development.

To achieve the objective, Geo-Logix has adopted the seven step Data Quality Objective (DQO) process as described in AS 4482.1–2005, NEPC (2013) and NSW EPA (2020).



Step 1: State the problem.

The subject site may be contaminated because of historical and current land use activities. Investigation of the site is required to determine the suitability for the proposed retail development.

Step 2: Identify the decision.

Contamination has not been identified in soil at concentrations above commercial land use standards. The site is considered suitable for the proposed commercial development without the requirement for remediation/management of site contamination.

Step 3: Identify inputs into the decision.

- Identification of issues of potential environmental concern;
- Appropriate identification of COPCs;
- Systematic soil sampling and analysis program of shallow soils across the site at a frequency consistent with minimum sampling requirements as defined in NSW EPA (2022);
- Double density grid sampling across the northern half of the site for characterisation of asbestos in shallow fill, consistent with the requirements recommended by WA DOH (2009) asbestos assessment guidelines;
- Grid based sampling across the site for the assessment of potential pesticides application associated with former market gardening;
- Targeted analysis of additional fill COPC (majority of locations selected over the northern half of the site)
- Visual inspection of shallow fill across the southern half for presence of ACM (asbestos was not considered likely in this location based on site history);
- Appropriate quality assurance/control to enable an evaluation of the reliability of the analytical data; and
- Screening sample analytical results against appropriate health based assessment criteria for the intended land use (Commercial/Industrial).

Step 4: Define the boundaries of the site.

The project boundary is defined as the area within the site boundary (330 Eighth Avenue, Austral NSW) to a maximum test pit depth of 3 metres below grade (mbg).

Step 5: Develop a decision rule.

To accept the assessment decision the shallow soils must be free of COPC hotspots of 25 m diameter or greater at a 95% statistical degree of certainty (17.7m diameter for asbestos over northern portion of the site). The sampling data must meet the following statistical qualifiers.

- The 95% Upper Confidence Limit of COPC concentration data does not exceed the soil assessment criteria;
- No single sample exceeds 250% of the soil COPC assessment criteria;



- The standard deviation of COPC analytical results is less than 50% of the soil assessment criteria; and
- No visible identification of ACM in soil samples.

The results of targeted soil samples must not exceed the assessment criteria.

Step 6: Specify acceptable limits on decision errors.

The field sampling methodology, sample preservation techniques, and laboratory analytical procedures must be appropriate to provide confidence in data quality so any comparison against assessment criteria can be considered reliable. This is achieved by defining and comparing results against the Data Quality Indicators (DQIs).

Step 7: Optimise the design for obtaining data.

This is achieved by sampling plan design in consideration of the available site history information, area of investigation, contaminant behaviour in the environment, and likely spatial distribution of contamination.

8. ASSESSMENT CRITERIA

The primary reference for environmental site assessment in Australia is the Amended Assessment of Site Contamination (ASC) National Environmental Protection Measure (NEPM) 1999 (NEPC, 2013). This document includes soil criteria for use in evaluating potential contamination risk to human health and the environment.

The application of these investigation levels and screening levels is subject to a range of limitations and their selection and use must be in the context of the conceptual site model (CSM) relating to the nature and distribution of impacts and potential exposure pathways. Each relevant guideline is discussed further below and the adopted screening criteria are presented in summary sample analytical tables attached to this report.

8.1 Soil Assessment Criteria

The following soil assessment criteria were adopted for the investigation.

NEPM Health Based Investigation Level D (HILs D)

HILs are Tier 1 risk based generic assessment criteria used for the assessment of potential risks to human health from chronic exposure to contaminants in soil. They are intentionally conservative and based on a reasonable worst-case scenario for generic land use settings including Low Density Residential (HILs A), High Density Residential (HILs B), Open Space/Recreational (HILs C) and Commercial Industrial (HILs D). HILs D soil assessment criteria were adopted on the basis the proposed site use is commercial.

NEPM Health Screening Levels D (HSLs D)

HSLs are Tier 1 risk based generic soil assessment criteria used for the assessment of potential risks to human health from chronic inhalation exposure of petroleum vapour emanating off petroleum contaminated soils (Vapour Risk). They are intentionally conservative and based on a reasonable worst-case scenario for generic soil types, contamination depth and land use settings including Residential (HSLs A/B), Open



Space/Recreational (HSLs C) and Commercial Industrial (HSLs D). HSLs D soil assessment criteria were adopted. The generic soil types adopted included;

• HSL D Sand Soil 0 to 1 m were adopted on basis of general site geology and proposed land use;

NEPM Asbestos Criteria – Commercial/industrial D

Asbestos assessment criteria are included in NEPM (1999) amendment. Those criteria apply to the assessment of known and suspected asbestos contamination in soil and address friable and non-friable forms of asbestos.

Historical imagery indicates former structures were located on the northern half of the site. During investigations, shallow fill containing anthropogenic materials was observed over the northern half of the site. Based on these observations, Commercial/industrial D health screening levels were adopted for the proposed land use. Criteria for Commercial/industrial D includes the following:

- 0.05% w/w for ACM (bonded);
- 0.001% FA and AF (friable); and
- No visible asbestos in the top 0.1 m.

Asbestos and extensive filling was not expected over the southern half of the site. Given the presence of asbestos contamination was not known at the time of investigation therefore its investigation was of a preliminary nature. Given the preliminary assessment the following assessment criteria was adopted:

- No visible ACM on the site surface or in the subsurface at soil sampling locations; and
- No asbestos is detected in soil samples.

9. INVESTIGATION METHODOLOGIES

Geo-Logix conducted environmental investigation during the period 6 – 8 March, 2023. Sample locations are presented in Figure 3.

9.1 Sampling Analysis Plan

Based on the site history, the site has been split into two for the purposes of formulating the sampling analysis plan. The former market gardening occurred over the majority of the site, whilst historical aerial imagery indicates former structures were located over the northern half only.

Northern Half

To assess for potential soil contamination Geo-Logix completed the following scope of works across the northern half of the site. Rationale is provided in the table below.



Sampling Plan	Samples	Rationale	Analysis
Systematic sampling of shallow soils at 20 locations on a 21 m grid-based sampling plan. The sampling frequency meets NSW EPA (2022) minimum sampling density requirements and is sufficient to identify contamination hotspots of a minimum diameter of 25 m at a 95% degree of statistical certainty.	One sample of shallow soils collected from each location TP1 – TP20.	Former market gardening and potential pesticide application over the majority of site area.	OCPs and eight heavy metals (As, Cd, Ca, Co, Cu, Pb, Hg, Ni)
Samples of fill at 15 locations (17 samples) were selected for analysis of additional fill COPC.	TP14/0-0.2, TP12/0-0.2, TP4/0.15-0.35, TP6/0.2-0.4, TP10/0-0.2, TP9/0-0.3, TP1/0.1-0.3, TP1/0.3-0.5, TP17/0-0.2, TP17/0.4-0.6, TP2/0-0.2, TP8/0.15-0.35, TP3/0-0.2, TP7/0-0.2, TP13/0-0.3, TP15/0-0.2, TP57/0.3-0.5	Samples at 15 locations (including two locations with samples of two different fill layers) selected for analysis of additional fill COPC based on observations of fill thickness and field observations, such as anthropogenic inclusions. Location also in areas of current and former site infrastructure for COPC associated for former farming equipment maintenance.	TRH, BTEX, PAHs
Five of these samples were selected for analysis of fill COPC PCB.	TP2/0-0.2, TP8/0.15-0.35, TP13/0-0.3, TP15/0-0.2, TP57/0.3-0.5	Selected for analysis of fill COPC PCBs based on high anthropogenic content and general coverage.	PCBs
Double density systematic soil sampling was performed at 40 locations (TP1 – TP20, TP38, TP39, BH2, TP41 – TP57) on a 15 m grid-based sampling plan. The sampling frequency meets NSW EPA (2022) minimum sampling density requirements and WA DOH (2009) asbestos assessment guidelines and is sufficient to identify contamination hotspots of a minimum diameter of 17.7 m at a 95% degree of statistical certainty.	A 10L bulk sample of fill was collected for gravimetric visual assessment of ACM, and a 500mL fill sample was collected for laboratory quantification of asbestos fines/fibrous asbestos (AF/FA) in soil.	For the characterisation of asbestos in fill.	Asbestos

Southern Half

To assess for potential soil contamination Geo-Logix completed the following scope of works across the southern half of the site. Rationale is provided in the table below.

Sampling Plan	Samples	Rationale	Analysis
Systematic sampling of shallow soils at 20 locations on a 21 m grid-based sampling plan. The sampling frequency meets NSW EPA (2022) minimum sampling density requirements and is sufficient to identify contamination hotspots of a minimum diameter of 25 m at a 95% degree of statistical certainty.	One sample of shallow soils collected from each location (TP21 – TP37, TP40, TP59, TP60).	Former market gardening and potential pesticide application over the majority of site area.	OCPs and eight heavy metals (As, Cd, Ca, Co, Cu, Pb, Hg, Ni)
Samples at four locations were selected for additional fill COPC.	TP36/0.3-0.5, TP31/0-0.2, TP35/0-0.2, TP28/0-0.2 and TP23/0-0.2	Samples at locations where fill/tilled soils was identified at greater depths.	TRH, BTEX, PAHs



Sampling Plan	Samples	Rationale	Analysis
Fill was inspected for ACM at each sample location.	Shallow fill at all locations.	Preliminary assessment for asbestos.	Asbestos

9.2 Soil Sampling Methodology

A total of 60 sample locations (55 test pits, five bore holes) were completed across the investigation area as follows (Figure 3):

- Test pits (TP1 TP9, TP11 TP33, TP35 TP39, TP41 TP44, TP46 TP57, TP59, TP60) were excavated using an excavator to depths between 0.4 and 3.0 mbg;
- Borehole BH2 was completed using a ute mounted drill rig to 9.0 mbg (completed as a concurrent geo-technical investigation); and
- Bore holes TP10, TP34, TP40 and TP45 were completed using a hand auger to depth between 0.4 and 0.7 mbg.

Soil samples were collected from test pits and bore holes. Soil samples were placed in laboratory prepared jars (Ziploc bag for asbestos), labelled and placed on ice in an esky for transport. A chain of custody form was prepared to accompany the esky to a NATA Accredited Laboratory for the analysis of the COPC.

Fill subsamples were placed in a zip lock bag for field screening for volatile compounds using a Photoionisation Detector (PID). Equipment calibration certificates are included in Attachment E.

Gravimetric assessment methodology was adopted for bonded ACM assessment as follows:

- Collection of a 10-litre volume soil sample;
- · Each sample was spread out for inspection on a contrasting colour tarpaulin; and
- ACM was collected and weighed to calculate the asbestos soil concentration as per WA DOH (2009) where:
- %Soil Asbestos = (% Asbestos Content × ACM Mass)/(Soil Volume × Soil Density).

It is assumed that the % Asbestos Content in ACM is 15% and that Soil Density is 1.6 kg/L

Quality Control procedures included the decontamination of the hand auger between boring locations, ensuring samples were collected from soil that not touched the excavator bucket and changing disposable gloves between samples. A rinsate sample was collected off the hand auger after decontamination to assess the potential for cross contamination.

9.3 Quality Assurance

Quality control (QC) sampling was undertaken in general accordance with specifications outlined in AS4482.1, Guide to Sampling and Investigation of Potentially Contaminated Soil. Field QC samples were collected and included the following:

Sample Identification	Sample Type	Sample Matrix	Rate of Collection
DS1	Field duplicate of TP16/0-0.2	Soil	1 in 20 samples
TS1	Field triplicate of TP16/0-0.2	Soil	1 in 20 samples



Sample Identification	Sample Type	Sample Matrix	Rate of Collection
DS2	Field duplicate of TP2/0-0.2	Soil	1 in 20 samples
TS2	Field triplicate of TP2/0-0.2	Soil	1 in 20 samples
DS3	Field duplicate of TP28/0-0.2	Soil	1 in 20 samples
TS3	Field triplicate of TP28/0-0.2	Soil	1 in 20 samples
TRIPB1	Transport blank sample	Soil	1 per batch
TRIPS1	Spike sample	Soil	1 per batch
TRIPB2	Transport blank sample	Soil	1 per batch
TRIPS2	Spike sample	Soil	1 per batch
Rinsate	Rinsate water	Water	1 per batch

Note - Rate of QC sample collection specified as 1 in 20 samples in AS4482.1

The laboratory internal QC procedures are consistent with NEPM policy on laboratory analysis of contaminated soils.

10. INVESTIGATION RESULTS

10.1 Site Geology

The geology generally encountered across the site is summarised in the table below.

Туре	Approximate Depth (m)	Description
FILL	0 – 0.5	<u>Northern half</u> : Fill was identified across the area, with greater depths observed in the locations of the dwellings on the eastern side and western side. A moderate brown clayey sand with gravels was identified across the majority of the area. In some areas (generally south of the east and west dwellings) the fill appeared similar to the tilled soils in the southern portion of the site. In some areas surrounding the onsite dwellings, fill comprised sandy gravelly clays. Some anthropogenic materials (bricks, plastic, tiles, concrete pieces, plaster cement fragments) were observed, generally in an upper clayey sand layer. A fibre cement ACM fragment was found at location TP15.
		<u>Southern half</u> : A layer of fill was encountered over this area that was observed to most likely be tilled soil, likely from the former market gardening practices. The material in majority of locations investigated comprised moderate brown clayey sands with gravels and pieces of black plastic sheeting. Some locations (TP23, TP32, TP34, TP35) had a similar but lighter colour layer fill/tilled soils (clayey sands with gravels). At location TP36 a reddish orange clayey gravelly sand with charcoal wooden pieces (0.3-0.8 m) was observed underlying the upper moderate brown fill/tilled soils. No ACM was observed in the material at the locations investigated.
NATIVE CLAYs	0.5 – 3.6+	Generally encountered was a layer <1.0m in thickness comprising yellowish orange and reddish orange sandy clays and sandy gravelly clays, damp, firm, low – medium plasticity; overlying Grey and reddish orange lean clays, damp, stiff and medium plasticity.
BEDROCK	3.6+	Weathered shale was encountered at 3.6m in BH2.

Soil testpit and borehole logs are presented in Attachment F.



10.2 Site Hydrogeology

Groundwater was not encountered during the site investigation. During the concurrent geotechnical investigation groundwater was encountered approximately 5 mbg.

The area north of the central dwelling was water logged with water infiltrating testpits in this location at around 0.4 m. The water was suspected to be from a leaking water pipe or associated with the adjacent septic tank. The water was observed with slight sheen but no odour noted.

Water was also encountered at a suspected septic absorption trench at location TP17 approximately 0.4mbg.

10.3 Soil Analytical Results

Soil analytical results are summarised in Tables 1 to 6. Laboratory reports are presented in Attachment G.

OCPs

OCPs were not detected at concentrations above the site assessment criteria in all soil samples analysed (Table 1).

Heavy Metals

Arsenic, cadmium, chromium, copper, lead, mercury, nickel and zinc were not detected at concentrations greater than the site assessment criteria in all soil samples analysed (Table 2).

Petroleum Hydrocarbons

TRH and BTEX were not detected at concentrations above the site assessment criteria in all soil samples analysed (Table 3).

PAHs

PAHs were not detected at concentrations above the site assessment criteria in all soil samples analysed (Table 4).

PCBs

PCBs were not detected at concentrations above the site assessment criteria in all soil samples analysed (Table 5).

Asbestos

Northern Half

Except for TP15/0-0.5, ACM was not observed within 10L bulk samples of fill.

A fragment of ACM fibrous cement sheeting (8.28g) was observed in the 10L bulk sample of fill at location TP15. The fragment was sent for analysis at the laboratory for identification of asbestos (TP15/A1) and laboratory results identified asbestos within the fragment. The w/w % in soil was calculated at 0.008% at this location which is less than the site assessment criteria of 0.05% for ACM. The field sheet for calculation of ACM concentration in fill at TP15 is presented as Attachment H. However, given the ACM was encountered in the top 0.1m, it exceeds the assessment criteria "No visible asbestos in the top 0.1 m".



AF/FA was not detected within 500mL samples of fill collected from each location with exception to TP15/0-0.5 and TP50/0-0.2, both at concentrations that exceed site assessment criteria 0.001%. The results are presented in Table 6.

An additional plaster cement fragment observed in TP13 (TP13/A1) was sent for laboratory analysis for asbestos identification and the analysis did not identify asbestos within the fragment.

Southern Half

ACM was not observed on the site surface or within fill/tilled soil at the locations investigated.

10.4 QA/QC Results

Field Duplicates / Triplicates

Soil duplicate/triplicate results are within the adopted acceptance criteria of 30–50% (AS4482.1) relative percent difference (RPD). It is noted that a number of RPD results exceed 50%; however, these are considered acceptable as are attributed to low concentrations detected (<10 time LOR). These include:

- Copper, lead and zin in soil triplicate pair TP16/0-0.2 and TS1;
- Arsenic in soil duplicate pair TP28/0-0.2 and DS3;
- Chromium in soil triplicate pair TP28/0-0.2 and TS3;

Rinsate Samples

COPC were not detected at concentrations above laboratory reporting limits in the rinsate samples collected from the hand auger indicating decontamination procedures were adequate to prevent cross contamination.

Field Blanks

Contaminants of Potential Concern (COPCs) were not detected at concentrations above laboratory reporting limits in the field soil blank samples indicating sample handling and transport techniques were sufficient to prevent cross contamination between samples.

Field Spikes

BTEX recoveries were between 70% and 130 % in the field soil spike samples. The results indicate the sample handling, storage, transport and analytical procedures were sufficient to prevent volatile loss.

A summary of Laboratory QA/QC data is presented on the following table.



Report #	Analysis Within Holding Time	· · · · · · · · · · · · · · · · · · ·		Lab. Duplicate Lab Matrix RPD % Spike Recovery		Lab. Control Sample	Lab Method Blank		
971509-S	Х	\checkmark		~	\checkmark	\checkmark	\checkmark		
971657-S	Х	\checkmark		\checkmark		\checkmark	\checkmark	\checkmark	\checkmark
971509-W	\checkmark	\checkmark		\checkmark	\checkmark	\checkmark	\checkmark		
\checkmark = Pass X = Fail = not required * = refer to report text									
Quality Assura	nce Criteria		Quality Control Criteria						
Holding Times			Accuracy						
TRH and BTEX	: 14 days soil		Surr	ogate, matrix spike,	control sample 70-1	30% and 30–130	% for Phenols.		
PAHs: 14 days	soil		Surr	rogate recovery 50-2	150% and 20–130%	for Phenols.			
OCPs: 14 days	soil; 7 days water		Due						
Metals: 28 days	soil; 28 days water		Pred	cision					
PCBs: 28 days soil			Method Blank Not detected						
Asbestos: no limit Duplicate – No limit (<10xEQL), 0–50% (10–20xEQL), 0–30% (>20xEQ					(>20xEQL)				

Report #971509-S

Samples were analysed 6-8 days outside of the recommended timeframes for OCPs. Analytes were either not detected above laboratory reporting limits, or marginally above laboratory reporting limits and well below assessment criteria, in primary samples, duplicates or triplicates and the exceedance of holding time is not considered to have affected results.

Report #971657-S

Samples were analysed 9-10 days outside of the recommended timeframes for OCPs, TRH, BTEX and PAHs. Analytes were either not detected above laboratory reporting limits, or marginally above laboratory reporting limits and well below assessment criteria, in primary samples, duplicates or triplicates and the exceedance of holding time is not considered to have affected results.

Field spikes recoveries also provide evidence the hold time exceedances have not impacted sample integrity.

Geo-Logix accepts the integrity of the analytical data.

11. DISCUSSION

Asbestos in soil

ACM/FA/AF where identified at concentrations above landuse assessment criteria in shallow fill (~0.5m) at locations TP15 and TP50. Both locations are adjacent and are in the location of current and former sheds/structures. The majority of shed appears to comprise corrugated metal sheeting and a non-fibrous plaster cement sheeting. At least one shed (former toilet) in this location comprised a fibrous cement sheeting, likely ACM, which was broken in some areas. A substantial number of plaster cement fragments on the site surface in and around this location. Many were observed to be the non-fibrous plaster cement sheet that was considered not likely to be ACM, however, it was not possible to differentiate non-fibrous from fibrous due to the volume of fragments. It is likely there is some ACM cement fragments on the ground surface in this location, and potentially near the adjacent central dwelling.



It is noted that potential ACM plaster cement fragments were identified in 10L bulk samples of fill from locations TP2, TP8 and TP13. These fragments were not similar to the fibrous fragment identified in TP15 and were noted to be similar to the bulk of the non-fibrous plaster cement fragments on the ground surface around location TP15. The fragment observed in TP13 (TP13/A1) was sent for laboratory analysis for asbestos identification and the results indicate the fragment did not contain asbestos.

Given the absence of asbestos detected in shallow fill across the site during the investigation, with exception to the area concentrated around the sheds and former site infrastructure, it is considered that the asbestos identified is likely associated the demolition of former structures.

12. REVISED CONCEPTUAL SITE MODEL

Conceptual Site Model – Commercial Retail Centre							
Relevant Exposure	Receptors						
Pathways	Construction Workers Site visitors/ Staff		Offsite	Other			
Soil Ingestion/Dermal Contact/Dust	\checkmark	x	х	Onsite Trench Worker $$			
Inhalation of Vapours derived from Soil	Х	х	Х				
Inhalation of Vapours Derived from Groundwater	Х	x	Х				
Soils Leaching to Groundwater				Ongoing Groundwater Impact X			
Groundwater Ingestion/Dermal contact	Х	x	Х				
Groundwater Discharge to Surface Water				Recreation/Aquatic ecosystem X			
		Comments					
X – exposure pathway inco ✓ – exposure pathway com Not relevant							

A summary of the revised CSM for contamination is presented below.

13. CONCLUSIONS

Results of the investigation identified a non-conformance of the project decision rules due to fragments of bonded ACM and AF/FA (associated with weathered ACM) in shallow soils in the central portion of the northern half of the site (surrounding TP15 and TP50).



On this basis the project decision has not been met and the site is not considered suitable for the proposed retail development without the requirement for minor soils remediation. Geo-Logix's opinion is that the site can be made suitable for the proposed development subject to the following:

- Preparation of a Remedial Action Plan (RAP) detailing the remedial methodology and validation requirements for asbestos impacted soils; and
- Remediation and validation of a minor area of asbestos impacted soils.

It is recommended site demolition be conducted prior to remediation in the event the demolition works results in localised residual hazardous building material contamination to shallow soils.

14. LIMITATIONS

This report should be read in full, and no executive summary, conclusion or other section of the report may be used or relied on in isolation, or taken as representative of the report as a whole. No responsibility is accepted by Geo-Logix, and any duty of care that may arise but for this statement is excluded, in relation to any use of any part of this report other than on this basis.

This report has been prepared for the sole benefit of and use by the Client. No other person may rely on the report for any purpose whatsoever except with Geo-Logix's express written consent. Any duty of care to third parties that would or may arise in respect of persons other than the Client, but for this statement, is excluded.

Geo-Logix owns the copyright in this report. No copies of this report are to be made or distributed by any person without express written consent to do so from Geo-Logix. If the Client provides a copy of this report to a third party, without Geo-Logix's consent, the Client indemnifies Geo-Logix against all loss, including without limitation consequential loss, damage and/or liability, howsoever arising, in connection with any use or reliance by a Third Party.

The works undertaken by Geo-Logix are based solely on the scope of works, as agreed by the Client (Scope of Works). No other investigations, sampling, monitoring works or reporting will be carried out other than as expressly provided in the Scope of Works. **A COPY OF THE SCOPE OF WORKS IS AVAILABLE ON REQUEST.**

To the extent permitted by law, Geo-Logix makes no warranties or representations as to the:

- a. suitability of the Site for any specific use, or category of use, or
- b. potential statutory requirements for remediation, if any, of the Site,
- c. approvals, if any, that may be needed in respect of any use or category of use, or
- d. level of remediation, if any, that is warranted to render the Site suitable for any specific use, or category of use, or
- e. level of ongoing monitoring of Site conditions, if any, that is required in respect of any specific use, or category of use, or
- f. presence, extent or absence of any substance in, on or under the Site, other than as expressly stated in this report.

The conclusions stated in this report are based solely on the information, Scope of Works, analysis and data that are stated or expressly referred to in this report.



To the extent that the information and data relied upon to prepare this report has been conveyed to Geo-Logix by the Client or third parties orally or in the form of documents, Geo-Logix has assumed that the information and data are completely accurate and has not sought independently to verify the accuracy of the information or data. Geo-Logix assumes no responsibility or duty of care in respect of any errors or omissions in the information or data provided to it.

Without limiting the paragraph above, where laboratory tests have been carried out by others on Geo-Logix's behalf, the tests are reproduced in this report on the assumption that the tests are accurate. Geo-Logix has not sought independently to verify the accuracy of those tests and assumes no responsibility in respect of them.

Geo-Logix assumes no responsibility in respect of any changes in the condition of the Site which have occurred since the time when Geo-Logix gathered data and/or took samples from the Site on its site inspections dated **6 to 8 March 2023**.

Given the nature of asbestos, and the difficulties involved in identifying asbestos fibres, despite the exercise of all reasonable due care and diligence, thorough investigations may not always reveal its presence in either buildings or fill. Even if asbestos has been tested for and those tests' results do not reveal the presence of asbestos at those specific points of sampling, asbestos or asbestos containing materials may still be present at the Site, particularly if fill has been imported at any time, buildings constructed prior to 1980 have been demolished on the Site or materials from such buildings have been disposed of on the Site.

Where the Scope of Works does not include offsite investigations, Geo-Logix provides no warranty as to offsite conditions, including the extent if any to which substances in the Site may be emanating off site, and if so whether any adjoining sites have been or may be impacted by contamination originating from the Site.

Where the Scope of Works does not include the investigation, sampling, monitoring or other testing of groundwater in, on or under the Site, Geo-Logix provides no warranty or representation as to the quality of groundwater on the Site or the actual or potential migration of contamination in groundwater across or off the Site.

Subsurface site conditions are typically heterogeneous, and may change with time. Samples taken from different points on the Site may not enable inferences to be drawn about the condition of areas of the Site significantly removed from the sample points, or about the condition of any part of the Site whatsoever, in particular where the proposed inferences are to be drawn a long time after the date of the report.

Geo-Logix has prepared this report with the diligence, care and skill which a reasonable person would expect from a reputable environmental consultancy and in accordance with environmental regulatory authority and industry standards, guidelines and assessment criteria applicable as at the date of this report. Industry standards and environmental criteria change frequently, and may change at any time after the date of this report.



15. REFERENCES

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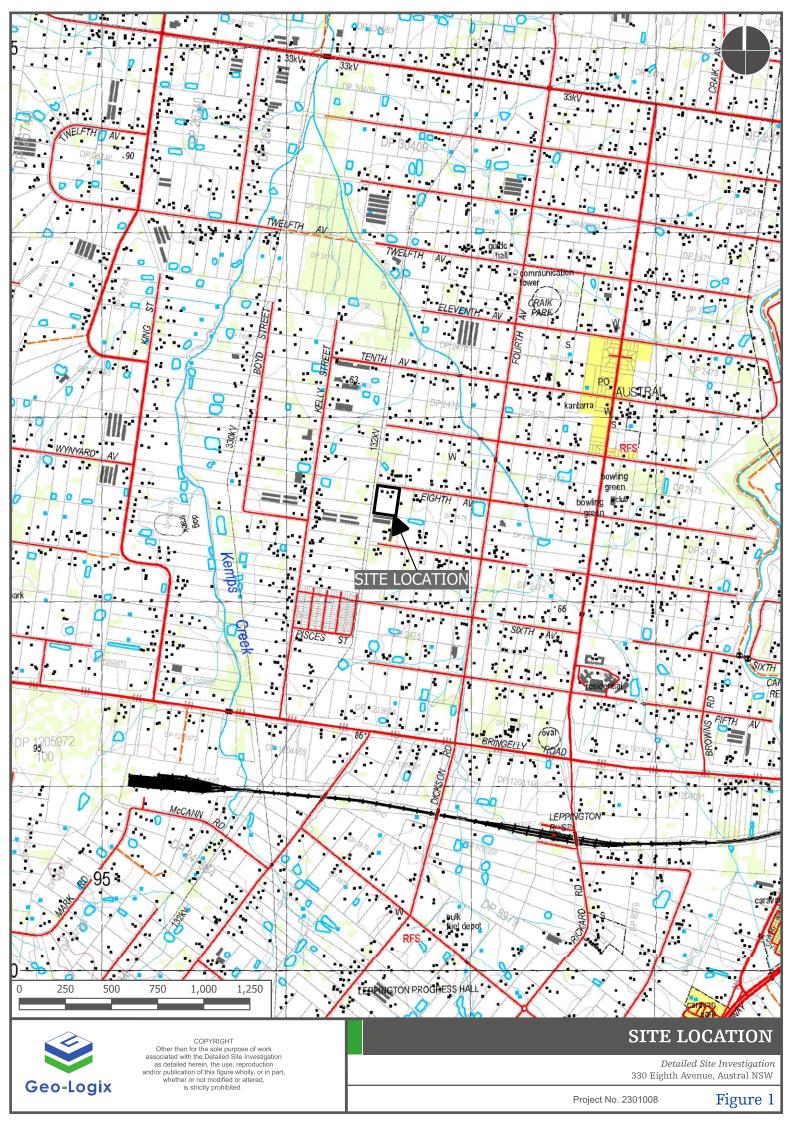
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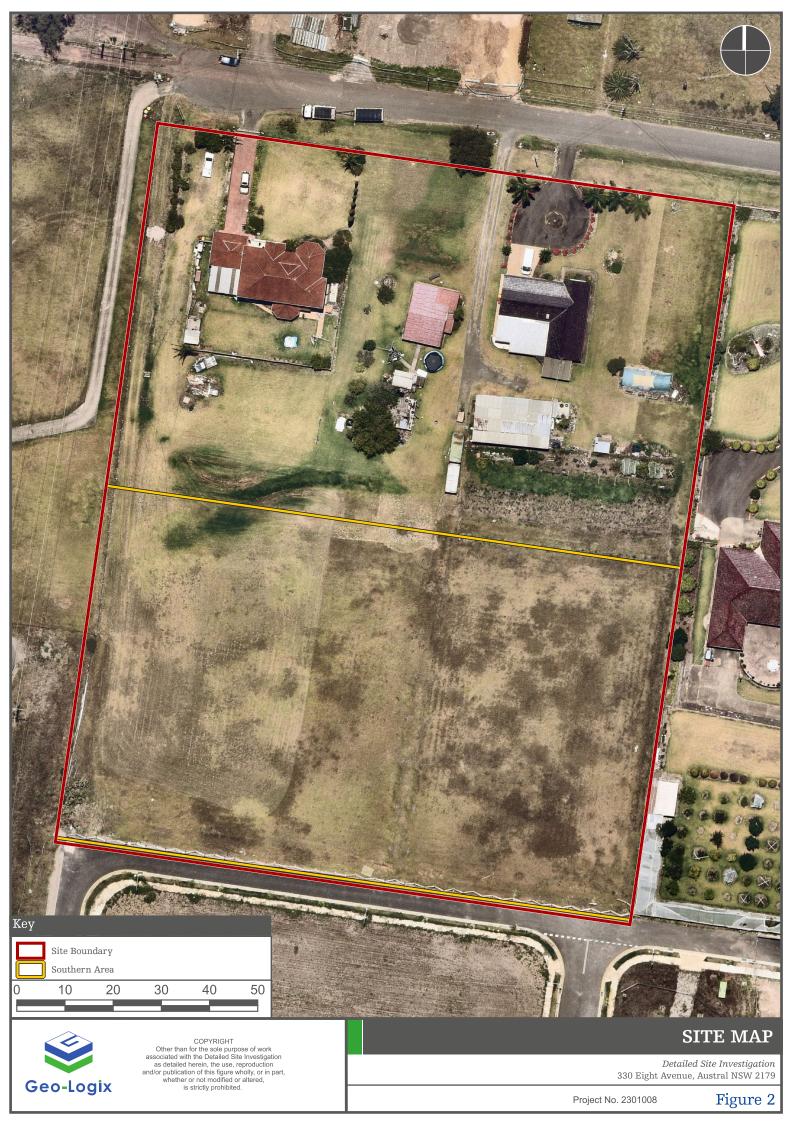
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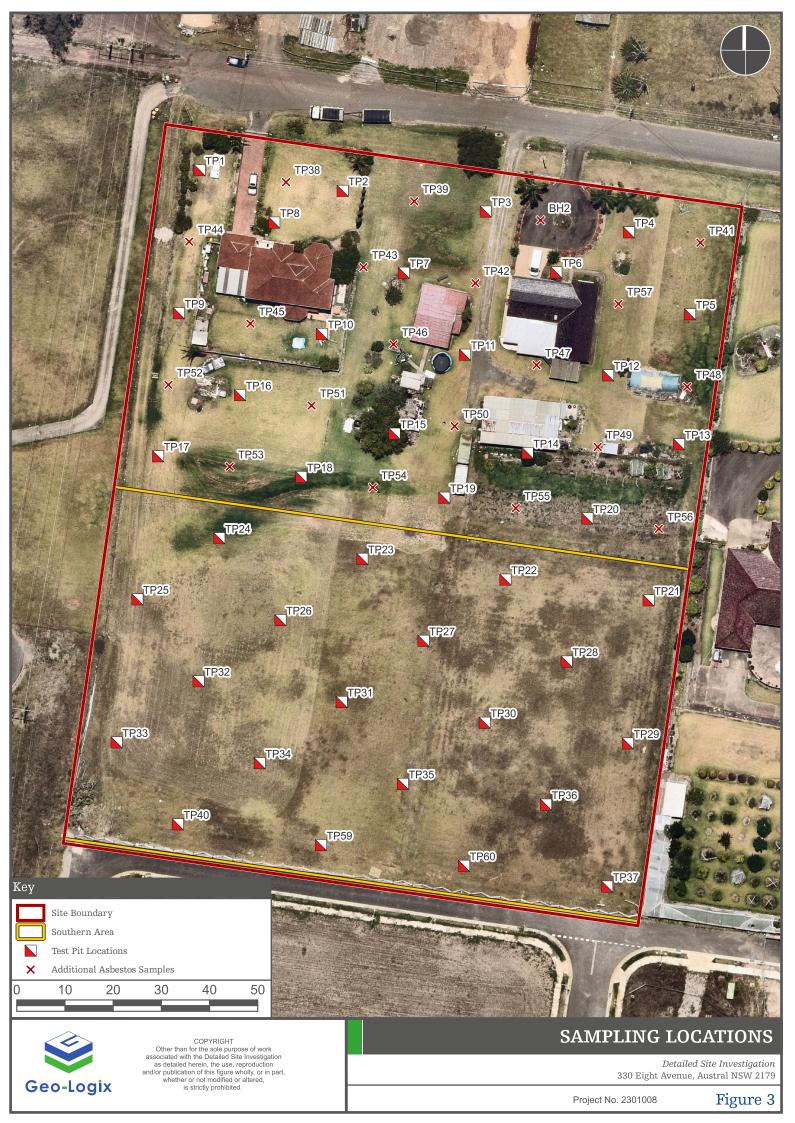
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TABLES



Table 1 : Summary of Soil Analytical Data - Organochlorine Pesticides Detailed Site Investigation Project No.: 2301008

330 - 350 Eighth Avenue

Austral NSW

	Criteria 1	Sample ID	TP1/0.1-0.3	TP1/0.3-0.5	TP2/0-0.2	DS2	RPD_DS2
		Depth (m)	0.1-0.3	0.3-0.5	0.0-0.2	-	-
	HILs - D	Туре	Fill	Fill	Fill	-	-
		Date	7/03/2023	7/03/2023	7/03/2023	7/03/2023	-
4.4'-DDD	-		< 0.05	< 0.05	< 0.05	< 0.05	nc
4.4'-DDE	-		< 0.05	< 0.05	< 0.05	< 0.05	nc
4.4'-DDT	-		< 0.05	0.06	< 0.05	< 0.05	nc
a-BHC	-		< 0.05	< 0.05	< 0.05	< 0.05	nc
Aldrin	-		< 0.05	< 0.05	< 0.05	< 0.05	nc
b-BHC	-		< 0.05	< 0.05	< 0.05	< 0.05	nc
Chlordanes - Total	530		< 0.1	< 0.1	< 0.1	< 0.1	nc
d-BHC	-		< 0.05	< 0.05	< 0.05	< 0.05	nc
Dieldrin	-		< 0.05	< 0.05	< 0.05	< 0.05	nc
Endosulfan I	-		< 0.05	< 0.05	< 0.05	< 0.05	nc
Endosulfan II	-		< 0.05	< 0.05	< 0.05	< 0.05	nc
Endosulfan sulphate	-		< 0.05	< 0.05	< 0.05	< 0.05	nc
Endrin	100		< 0.05	< 0.05	< 0.05	< 0.05	nc
Endrin aldehyde	-		< 0.05	< 0.05	< 0.05	< 0.05	nc
Endrin ketone	-		< 0.05	< 0.05	< 0.05	< 0.05	nc
g-BHC (Lindane)	-		< 0.05	< 0.05	< 0.05	< 0.05	nc
Heptachlor	50		< 0.05	< 0.05	< 0.05	< 0.05	nc
Heptachlor epoxide	-		< 0.05	< 0.05	< 0.05	< 0.05	nc
Hexachlorobenzene	80		< 0.05	< 0.05	< 0.05	< 0.05	nc

Notes:

Criteria 1 = NEPC (1999) Amended, Health-based Investigation Levels for soil contaminants.

Total concentrations in mg/kg

- = assessment criteria not available

DS2 = duplicate of TP2/0-0.2

TS2 = triplicate of TP2/0-0.2

DS1 = duplicate of TP16/0-0.2

TS1 = triplicate of TP16/0-0.2

DS3 = duplicate of TP28/0-0.2

TS3 = triplicate of TP28/0-0.2

TRIPB1 = blank sample

TRIPS1 = spike sample

TRIPB2 = blank sample

TRIPS2 = spike sample

R1 = rinsate sample

RPD = relative percent difference of duplicate/triplicate

nc = RPD not calculated, one or both samples below laboratory reporting limit

< # or ND = analyte(s) not detected in excess of laboratory reporting limit</pre>

-- = sample not analysed

Bold/red indicates exceedance of assessment criteria



Table 1 : Summary of Soil Analytical Data - Organochlorine PesticidesDetailed Site InvestigationProject No.: 2301008

330 - 350 Eighth Avenue

Austral NSW

	Criteria 1	Sample ID	TP1/0.1-0.3	TP1/0.3-0.5	TP2/0-0.2	DS2	RPD_DS2
		Depth (m)	0.1-0.3	0.3-0.5	0.0-0.2	-	-
	HILs - D	Туре	Fill	Fill	Fill	-	-
		Date	7/03/2023	7/03/2023	7/03/2023	7/03/2023	-
Methowebler	2 500		< 0.05	< 0.05	< 0.05	< 0.05	20
Methoxychlor	2,500						nc
Toxaphene	160		< 0.5	< 0.5	< 0.5	< 0.5	nc
Aldrin + Dieldrin	45		ND	ND	ND	ND	nc
Endosulfans - Total	2,000		ND	ND	ND	ND	пс
DDD + DDE + DDT	3,600		ND	0.06	ND	ND	nc
Scheduled Chemical Wastes	-		ND	0.06	ND	ND	nc

Notes:

Notes.	
Criteria 1 = NEPC (1999) Amended, Health-based Investigation Levels for soil contaminants.	TRIPS2 = spike sample
Total concentrations in mg/kg	R1 = rinsate sample
– = assessment criteria not available	RPD = relative percent difference of duplicate/triplicate
DS2 = duplicate of TP2/0-0.2	nc = RPD not calculated, one or both samples below laboratory reporting limit
TS2 = triplicate of TP2/0-0.2	< # or ND = analyte(s) not detected in excess of laboratory reporting limit
DS1 = duplicate of TP16/0-0.2	= sample not analysed
TS1 = triplicate of TP16/0-0.2	Bold/red indicates exceedance of assessment criteria
DS3 = duplicate of TP28/0-0.2	
TS3 = triplicate of TP28/0-0.2	
TRIPB1 = blank sample	
TRIPS1 = spike sample	
TRIPB2 = blank sample	



Table 1 : Summary of Soil Analytical Data - Organochlorine Pesticides Detailed Site Investigation Project No.: 2301008

330 - 350 Eighth Avenue

Austral NSW

	Criteria 1	Sample ID	TS2	RPD_TS2	TP3/0-0.2	TP4/0.15-0.35	TP5/0-0.2
		Depth (m)	-	-	0.0-0.2	0.15-0.35	0.0-0.2
	HILs - D	Туре	-	-	Fill	Fill	Fill
		Date	7/03/2023	-	7/03/2023	8/03/2023	8/03/2023
4.4'-DDD	-		< 0.05	nc	< 0.05	< 0.05	< 0.05
4.4'-DDE	-		< 0.05	nc	< 0.05	< 0.05	< 0.05
4.4'-DDT	-		< 0.05	nc	< 0.05	< 0.05	< 0.05
a-BHC	-		< 0.05	nc	< 0.05	< 0.05	< 0.05
Aldrin	-		< 0.05	nc	< 0.05	< 0.05	< 0.05
b-BHC	-		< 0.05	nc	< 0.05	< 0.05	< 0.05
Chlordanes - Total	530		< 0.1	nc	< 0.1	< 0.1	< 0.1
d-BHC	-		< 0.05	nc	< 0.05	< 0.05	< 0.05
Dieldrin	-		< 0.05	nc	< 0.05	< 0.05	< 0.05
Endosulfan I	-		< 0.05	nc	< 0.05	< 0.05	< 0.05
Endosulfan II	-		< 0.05	nc	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	-		< 0.05	nc	< 0.05	< 0.05	< 0.05
Endrin	100		< 0.05	nc	< 0.05	< 0.05	< 0.05
Endrin aldehyde	-		< 0.05	nc	< 0.05	< 0.05	< 0.05
Endrin ketone	-		< 0.05	nc	< 0.05	< 0.05	< 0.05
g-BHC (Lindane)	-		< 0.05	nc	< 0.05	< 0.05	< 0.05
Heptachlor	50		< 0.05	nc	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	-		< 0.05	nc	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	80		< 0.05	nc	< 0.05	< 0.05	< 0.05

Notes:

Criteria 1 = NEPC (1999) Amended, Health-based Investigation Levels for soil contaminants.

Total concentrations in mg/kg

- = assessment criteria not available

DS2 = duplicate of TP2/0-0.2

TS2 = triplicate of TP2/0-0.2

DS1 = duplicate of TP16/0-0.2

TS1 = triplicate of TP16/0-0.2

DS3 = duplicate of TP28/0-0.2

TS3 = triplicate of TP28/0-0.2

TRIPB1 = blank sample

TRIPS1 = spike sample

TRIPB2 = blank sample

TRIPS2 = spike sample

R1 = rinsate sample

RPD = relative percent difference of duplicate/triplicate

nc = RPD not calculated, one or both samples below laboratory reporting limit

< # or ND = analyte(s) not detected in excess of laboratory reporting limit</pre>

-- = sample not analysed

Bold/red indicates exceedance of assessment criteria



Table 1 : Summary of Soil Analytical Data - Organochlorine PesticidesDetailed Site InvestigationProject No.: 2301008

330 - 350 Eighth Avenue

Austral NSW

	Criteria 1	Sample ID	TS2	RPD_TS2	TP3/0-0.2	TP4/0.15-0.35	TP5/0-0.2
		Depth (m)	-	-	0.0-0.2	0.15-0.35	0.0-0.2
	HILs - D	Туре	-	-	Fill	Fill	Fill
		Date	7/03/2023	-	7/03/2023	8/03/2023	8/03/2023
Methoxychlor	2,500		< 0.05	20	< 0.05	< 0.05	< 0.05
				nc			
Toxaphene	160		< 0.5	nc	< 0.5	< 0.5	< 0.5
Aldrin + Dieldrin	45		ND	nc	ND	ND	ND
Endosulfans - Total	2,000		ND	nc	ND	ND	ND
DDD + DDE + DDT	3,600		ND	nc	ND	ND	ND
Scheduled Chemical Wastes	-		ND	nc	ND	ND	ND

Notes:

TRIPS2 = spike sample
R1 = rinsate sample
RPD = relative percent difference of duplicate/triplicate
nc = RPD not calculated, one or both samples below laboratory reporting limit
<pre>< # or ND = analyte(s) not detected in excess of laboratory reporting limit</pre>
= sample not analysed
Bold/red indicates exceedance of assessment criteria



Table 1 : Summary of Soil Analytical Data - Organochlorine Pesticides Detailed Site Investigation Project No.: 2301008

330 - 350 Eighth Avenue

Austral NSW

	Criteria 1	Sample ID	TP6/0.2-0.4	TP7/0-0.2	TP8/0.15-0.35	TP9/0-0.3	TP10/0-0.2
		Depth (m)	0.2-0.4	0.0-0.2	0.15-0.35	0.0-0.3	0.0-0.2
	HILs - D	Туре	Fill	Fill	Fill	Fill	Fill
		Date	8/03/2023	7/03/2023	7/03/2023	7/03/2023	6/03/2023
4.4'-DDD	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.5
4.4'-DDE	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.5
4.4'-DDT	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.5
a-BHC	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.5
Aldrin	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.5
b-BHC	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.5
Chlordanes - Total	530		< 0.1	< 0.1	< 0.1	< 0.1	< 1
d-BHC	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.5
Dieldrin	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.5
Endosulfan I	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.5
Endosulfan II	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.5
Endosulfan sulphate	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.5
Endrin	100		< 0.05	< 0.05	< 0.05	< 0.05	< 0.5
Endrin aldehyde	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.5
Endrin ketone	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.5
g-BHC (Lindane)	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.5
Heptachlor	50		< 0.05	< 0.05	< 0.05	< 0.05	< 0.5
Heptachlor epoxide	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.5
Hexachlorobenzene	80		< 0.05	< 0.05	< 0.05	< 0.05	< 0.5

Notes:

Criteria 1 = NEPC (1999) Amended, Health-based Investigation Levels for soil contaminants.

Total concentrations in mg/kg

- = assessment criteria not available

DS2 = duplicate of TP2/0-0.2

TS2 = triplicate of TP2/0-0.2

DS1 = duplicate of TP16/0-0.2

TS1 = triplicate of TP16/0-0.2

DS3 = duplicate of TP28/0-0.2

TS3 = triplicate of TP28/0-0.2

TRIPB1 = blank sample

TRIPS1 = spike sample

TRIPB2 = blank sample

TRIPS2 = spike sample

R1 = rinsate sample

RPD = relative percent difference of duplicate/triplicate

nc = RPD not calculated, one or both samples below laboratory reporting limit

< # or ND = analyte(s) not detected in excess of laboratory reporting limit</pre>

-- = sample not analysed

Bold/red indicates exceedance of assessment criteria



Table 1 : Summary of Soil Analytical Data - Organochlorine PesticidesDetailed Site InvestigationProject No.: 2301008

330 - 350 Eighth Avenue

Austral NSW

	Criteria 1	Sample ID	TP6/0.2-0.4	TP7/0-0.2	TP8/0.15-0.35	TP9/0-0.3	TP10/0-0.2
		Depth (m)	0.2-0.4	0.0-0.2	0.15-0.35	0.0-0.3	0.0-0.2
	HILs - D	Туре	Fill	Fill	Fill	Fill	Fill
		Date	8/03/2023	7/03/2023	7/03/2023	7/03/2023	6/03/2023
Methoxychlor	2,500		< 0.05	< 0.05	< 0.05	< 0.05	< 0.5
Toxaphene	160		< 0.5	< 0.5	< 0.5	< 0.5	< 10
Aldrin + Dieldrin	45		ND	ND	ND	ND	ND
Endosulfans - Total	2,000		ND	ND	ND	ND	ND
DDD + DDE + DDT	3,600		ND	ND	ND	ND	ND
Scheduled Chemical Wastes	-		ND	ND	ND	ND	ND

Notes:

Notes.	
Criteria 1 = NEPC (1999) Amended, Health-based Investigation Levels for soil contaminants.	TRIPS2 = spike sample
Total concentrations in mg/kg	R1 = rinsate sample
– = assessment criteria not available	RPD = relative percent difference of duplicate/triplicate
DS2 = duplicate of TP2/0-0.2	nc = RPD not calculated, one or both samples below laboratory reporting limit
TS2 = triplicate of TP2/0-0.2	<pre>< # or ND = analyte(s) not detected in excess of laboratory reporting limit</pre>
DS1 = duplicate of TP16/0-0.2	= sample not analysed
TS1 = triplicate of TP16/0-0.2	Bold/red indicates exceedance of assessment criteria
DS3 = duplicate of TP28/0-0.2	
TS3 = triplicate of TP28/0-0.2	
TRIPB1 = blank sample	
TRIPS1 = spike sample	
TRIPB2 = blank sample	



Table 1 : Summary of Soil Analytical Data - Organochlorine Pesticides Detailed Site Investigation Project No.: 2301008

330 - 350 Eighth Avenue

Austral NSW

	Criteria 1	Sample ID	TP11/0-0.2	TP12/0-0.2	TP13/0-0.2	TP14/0-0.2	TP15/0-0.2
		Depth (m) Type	0.0-0.2 Fill	0.0-0.2 Fill	0.0-0.2 Fill	0.0-0.2 Fill	0.0-0.2 Fill
	HILs - D						
		Date	8/03/2023	8/03/2023	8/03/2023	8/03/2023	8/03/2023
4.4'-DDD	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	-		< 0.05	< 0.05	< 0.05	< 0.05	0.06
4.4'-DDT	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
a-BHC	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
b-BHC	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chlordanes - Total	530		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
d-BHC	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	100		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
g-BHC (Lindane)	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	50		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	80		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

Notes:

Criteria 1 = NEPC (1999) Amended, Health-based Investigation Levels for soil contaminants.

Total concentrations in mg/kg

- = assessment criteria not available

DS2 = duplicate of TP2/0-0.2

TS2 = triplicate of TP2/0-0.2

DS1 = duplicate of TP16/0-0.2

TS1 = triplicate of TP16/0-0.2

DS3 = duplicate of TP28/0-0.2

TS3 = triplicate of TP28/0-0.2

TRIPB1 = blank sample

TRIPS1 = spike sample

TRIPB2 = blank sample

TRIPS2 = spike sample

R1 = rinsate sample

RPD = relative percent difference of duplicate/triplicate

nc = RPD not calculated, one or both samples below laboratory reporting limit

< # or ND = analyte(s) not detected in excess of laboratory reporting limit</pre>

-- = sample not analysed

Bold/red indicates exceedance of assessment criteria



Table 1 : Summary of Soil Analytical Data - Organochlorine PesticidesDetailed Site InvestigationProject No.: 2301008

330 - 350 Eighth Avenue

Austral NSW

	Criteria 1	Sample ID	TP11/0-0.2	TP12/0-0.2	TP13/0-0.2	TP14/0-0.2	TP15/0-0.2
		Depth (m)	0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.2
	HILs - D	Туре	Fill	Fill	Fill	Fill	Fill
		Date	8/03/2023	8/03/2023	8/03/2023	8/03/2023	8/03/2023
Methoxychlor	2,500		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	160		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin + Dieldrin	45		ND	ND	ND	ND	ND
Endosulfans - Total	2,000		ND	ND	ND	ND	ND
DDD + DDE + DDT	3,600		ND	ND	ND	ND	0.06
Scheduled Chemical Wastes	-		ND	ND	ND	ND	0.06

Notes.	
Criteria 1 = NEPC (1999) Amended, Health-based Investigation Levels for soil contaminants.	TRIPS2 = spike sample
Total concentrations in mg/kg	R1 = rinsate sample
– = assessment criteria not available	RPD = relative percent difference of duplicate/triplicate
DS2 = duplicate of TP2/0-0.2	nc = RPD not calculated, one or both samples below laboratory reporting limit
TS2 = triplicate of TP2/0-0.2	<pre>< # or ND = analyte(s) not detected in excess of laboratory reporting limit</pre>
DS1 = duplicate of TP16/0-0.2	= sample not analysed
TS1 = triplicate of TP16/0-0.2	Bold/red indicates exceedance of assessment criteria
DS3 = duplicate of TP28/0-0.2	
TS3 = triplicate of TP28/0-0.2	
TRIPB1 = blank sample	
TRIPS1 = spike sample	
TRIPB2 = blank sample	



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	Criteria 1	Sample ID	TP16/0-0.2	DS1	RPD_DS1	TS1	RPD_TS1
		Depth (m)	0.0-0.2	-	-	-	-
	HILs - D	Туре	Fill	-	-	-	-
		Date	7/03/2023	7/03/2023	-	7/03/2023	-
4.4'-DDD	-		< 0.05	< 0.05	nc	< 0.05	nc
4.4'-DDE	-		< 0.05	< 0.05	nc	< 0.05	nc
4.4'-DDT	-		< 0.05	< 0.05	nc	< 0.05	nc
a-BHC	-		< 0.05	< 0.05	nc	< 0.05	nc
Aldrin	-		< 0.05	< 0.05	nc	< 0.05	nc
b-BHC	• •		< 0.05	< 0.05	nc	< 0.05	nc
Chlordanes - Total	530		< 0.1	< 0.1	nc	< 0.1	nc
d-BHC	• •		< 0.05	< 0.05	nc	< 0.05	nc
Dieldrin	-		< 0.05	< 0.05	nc	< 0.05	nc
Endosulfan I	-		< 0.05	< 0.05	nc	< 0.05	nc
Endosulfan II	-		< 0.05	< 0.05	nc	< 0.05	nc
Endosulfan sulphate	• •		< 0.05	< 0.05	nc	< 0.05	nc
Endrin	100		< 0.05	< 0.05	nc	< 0.05	nc
Endrin aldehyde	• •		< 0.05	< 0.05	nc	< 0.05	nc
Endrin ketone	-		< 0.05	< 0.05	nc	< 0.05	nc
g-BHC (Lindane)	-		< 0.05	< 0.05	nc	< 0.05	nc
Heptachlor	50		< 0.05	< 0.05	nc	< 0.05	nc
Heptachlor epoxide	-		< 0.05	< 0.05	nc	< 0.05	nc
Hexachlorobenzene	80		< 0.05	< 0.05	nc	< 0.05	nc

Notes:

Criteria 1 = NEPC (1999) Amended, Health-based Investigation Levels for soil contaminants.

Total concentrations in mg/kg

- = assessment criteria not available

DS2 = duplicate of TP2/0-0.2

TS2 = triplicate of TP2/0-0.2

DS1 = duplicate of TP16/0-0.2

TS1 = triplicate of TP16/0-0.2

DS3 = duplicate of TP28/0-0.2

TS3 = triplicate of TP28/0-0.2

TRIPB1 = blank sample

TRIPS1 = spike sample

TRIPB2 = blank sample

TRIPS2 = spike sample

R1 = rinsate sample

RPD = relative percent difference of duplicate/triplicate

nc = RPD not calculated, one or both samples below laboratory reporting limit

< # or ND = analyte(s) not detected in excess of laboratory reporting limit</pre>

-- = sample not analysed



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Austral NSW

Criteria 1	Sample ID	TP16/0-0.2	DS1	RPD_DS1	TS1	RPD_TS1
	Depth (m)	0.0-0.2	-	-	-	-
HILs - D	Туре	Fill	-	-	-	-
	Date	7/03/2023	7/03/2023	-	7/03/2023	-
				nc		nc
160		< 0.5	< 0.5	nc	< 0.5	nc
45		ND	ND	nc	ND	nc
2,000		ND	ND	nc	ND	nc
3,600		ND	ND	nc	ND	nc
-		ND	ND	nc	ND	nc
	HILs - D 2,500 160 45 2,000 3,600	Depth (m) HILs - D Type Date Date 2,500 160 45 2,000 3,600	Depth (m) 0.0-0.2 HILs - D Type Fill Date 7/03/2023 2,500 < 0.05	Depth (m) 0.0-0.2 - HILs - D Type Fill - Date 7/03/2023 7/03/2023 7/03/2023 2,500 < 0.05	Depth (m) 0.0-0.2 - - HILs - D Type Fill - - Date 7/03/2023 7/03/2023 - - 2,500 < 0.05	Depth (m) 0.0-0.2 - - HILS - D Type Fill - - Date 7/03/2023 7/03/2023 - 7/03/2023 Date 7/03/2023 7/03/2023 - - Date <0.05

Notes.	
Criteria 1 = NEPC (1999) Amended, Health-based Investigation Levels for soil contaminants.	TRIPS2 = spike sample
Total concentrations in mg/kg	R1 = rinsate sample
- = assessment criteria not available	RPD = relative percent difference of duplicate/triplicate
DS2 = duplicate of TP2/0-0.2	nc = RPD not calculated, one or both samples below laboratory reporting limit
TS2 = triplicate of TP2/0-0.2	< # or ND = analyte(s) not detected in excess of laboratory reporting limit
DS1 = duplicate of TP16/0-0.2	= sample not analysed
TS1 = triplicate of TP16/0-0.2	Bold/red indicates exceedance of assessment criteria
DS3 = duplicate of TP28/0-0.2	
TS3 = triplicate of TP28/0-0.2	
TRIPB1 = blank sample	
TRIPS1 = spike sample	
TRIPB2 = blank sample	



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Austral NSW

	Criteria 1	Sample ID	TP17/0-0.2	TP17/0.4-0.6	TP18/0-0.2	TP19/0-0.2	TP20/0-0.2
		Depth (m)	0.0-0.2	0.4-0.6	0.0-0.2	0.0-0.2	0.0-0.2
	HILs - D	Туре	Fill	Fill	Fill	Fill	Fill
		Date	7/03/2023	7/03/2023	7/03/2023	8/03/2023	8/03/2023
4.4'-DDD	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDT	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
a-BHC	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
b-BHC			< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chlordanes - Total	530		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
d-BHC	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	-		< 0.05	< 0.05	< 0.05	< 0.05	0.06
Endosulfan I	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	100		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	·		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
g-BHC (Lindane)	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	50		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	·		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	80		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

Notes:

Criteria 1 = NEPC (1999) Amended, Health-based Investigation Levels for soil contaminants.

Total concentrations in mg/kg

- = assessment criteria not available

DS2 = duplicate of TP2/0-0.2

TS2 = triplicate of TP2/0-0.2

DS1 = duplicate of TP16/0-0.2

TS1 = triplicate of TP16/0-0.2

DS3 = duplicate of TP28/0-0.2

TS3 = triplicate of TP28/0-0.2

TRIPB1 = blank sample

TRIPS1 = spike sample

TRIPB2 = blank sample

TRIPS2 = spike sample

R1 = rinsate sample

RPD = relative percent difference of duplicate/triplicate

nc = RPD not calculated, one or both samples below laboratory reporting limit

< # or ND = analyte(s) not detected in excess of laboratory reporting limit</pre>

-- = sample not analysed



Table 1 : Summary of Soil Analytical Data - Organochlorine PesticidesDetailed Site InvestigationProject No.: 2301008

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Austral NSW

	Criteria 1	Sample ID	TP17/0-0.2	TP17/0.4-0.6	TP18/0-0.2	TP19/0-0.2	TP20/0-0.2
		Depth (m)	0.0-0.2	0.4-0.6	0.0-0.2	0.0-0.2	0.0-0.2
	HILs - D	Туре	Fill	Fill	Fill	Fill	Fill
		Date	7/03/2023	7/03/2023	7/03/2023	8/03/2023	8/03/2023
Methoxychlor	2,500		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	160		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin + Dieldrin	45		ND	ND	ND	ND	0.06
Endosulfans - Total	2,000		ND	ND	ND	ND	ND
DDD + DDE + DDT	3,600		ND	ND	ND	ND	ND
Scheduled Chemical Wastes	-		ND	ND	ND	ND	0.06

Notes.	
Criteria 1 = NEPC (1999) Amended, Health-based Investigation Levels for soil contaminants.	TRIPS2 = spike sample
Total concentrations in mg/kg	R1 = rinsate sample
- = assessment criteria not available	RPD = relative percent difference of duplicate/triplicate
DS2 = duplicate of TP2/0-0.2	nc = RPD not calculated, one or both samples below laboratory reporting limit
TS2 = triplicate of TP2/0-0.2	< # or ND = analyte(s) not detected in excess of laboratory reporting limit
DS1 = duplicate of TP16/0-0.2	= sample not analysed
TS1 = triplicate of TP16/0-0.2	Bold/red indicates exceedance of assessment criteria
DS3 = duplicate of TP28/0-0.2	
TS3 = triplicate of TP28/0-0.2	
TRIPB1 = blank sample	
TRIPS1 = spike sample	
TRIPB2 = blank sample	



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Austral NSW

	Criteria 1	Sample ID	TP21/0-0.2	TP22/0-0.2	TP23/0-0.2	TP24/0-0.2	TP25/0-0.1
		Depth (m)	0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.1
	HILs - D	Туре	Fill	Fill	Fill	Fill	Fill
		Date	8/03/2023	8/03/2023	8/03/2023	7/03/2023	6/03/2023
4.4'-DDD	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDT	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
a-BHC	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
b-BHC	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chlordanes - Total	530		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
d-BHC	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	100		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
g-BHC (Lindane)	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	50		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	80		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

Notes:

Criteria 1 = NEPC (1999) Amended, Health-based Investigation Levels for soil contaminants.

Total concentrations in mg/kg

- = assessment criteria not available

DS2 = duplicate of TP2/0-0.2

TS2 = triplicate of TP2/0-0.2

DS1 = duplicate of TP16/0-0.2

TS1 = triplicate of TP16/0-0.2

DS3 = duplicate of TP28/0-0.2

TS3 = triplicate of TP28/0-0.2

TRIPB1 = blank sample

TRIPS1 = spike sample

TRIPB2 = blank sample

TRIPS2 = spike sample

R1 = rinsate sample

RPD = relative percent difference of duplicate/triplicate

nc = RPD not calculated, one or both samples below laboratory reporting limit

< # or ND = analyte(s) not detected in excess of laboratory reporting limit</pre>

-- = sample not analysed



Table 1 : Summary of Soil Analytical Data - Organochlorine PesticidesDetailed Site InvestigationProject No.: 2301008

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Austral NSW

	Criteria 1	Sample ID	TP21/0-0.2	TP22/0-0.2	TP23/0-0.2	TP24/0-0.2	TP25/0-0.1
		Depth (m)	0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.1
	HILs - D	Туре	Fill	Fill	Fill	Fill	Fill
		Date	8/03/2023	8/03/2023	8/03/2023	7/03/2023	6/03/2023
Methoxychlor	2,500		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	160		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin + Dieldrin	45		ND	ND	ND	ND	ND
Endosulfans - Total	2,000		ND	ND	ND	ND	ND
DDD + DDE + DDT	3,600		ND	ND	ND	ND	ND
Scheduled Chemical Wastes	-		ND	ND	ND	ND	ND

Notes.	
Criteria 1 = NEPC (1999) Amended, Health-based Investigation Levels for soil contaminants.	TRIPS2 = spike sample
Total concentrations in mg/kg	R1 = rinsate sample
- = assessment criteria not available	RPD = relative percent difference of duplicate/triplicate
DS2 = duplicate of TP2/0-0.2	nc = RPD not calculated, one or both samples below laboratory reporting limit
TS2 = triplicate of TP2/0-0.2	< # or ND = analyte(s) not detected in excess of laboratory reporting limit
DS1 = duplicate of TP16/0-0.2	= sample not analysed
TS1 = triplicate of TP16/0-0.2	Bold/red indicates exceedance of assessment criteria
DS3 = duplicate of TP28/0-0.2	
TS3 = triplicate of TP28/0-0.2	
TRIPB1 = blank sample	
TRIPS1 = spike sample	
TRIPB2 = blank sample	



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Austral NSW

	Criteria 1	Sample ID	TP26/0-0.2	TP27/0-0.2	TP28/0-0.2	DS3	RPD_DS3
		Depth (m)	0.0-0.2	0.0-0.2	0.0-0.2	-	-
	HILs - D	Туре	Fill	Fill	Fill	-	-
		Date	7/03/2023	8/03/2023	8/03/2023	8/03/2023	-
4.4'-DDD	-		< 0.05	< 0.05	< 0.05	< 0.05	nc
4.4'-DDE	-		< 0.05	0.14	< 0.05	< 0.05	nc
4.4'-DDT	-		< 0.05	0.14	< 0.05	< 0.05	nc
a-BHC	-		< 0.05	< 0.05	< 0.05	< 0.05	nc
Aldrin	-		< 0.05	< 0.05	< 0.05	< 0.05	nc
b-BHC	-		< 0.05	< 0.05	< 0.05	< 0.05	nc
Chlordanes - Total	530		< 0.1	< 0.1	< 0.1	< 0.1	nc
d-BHC	-		< 0.05	< 0.05	< 0.05	< 0.05	nc
Dieldrin	-		< 0.05	< 0.05	< 0.05	< 0.05	nc
Endosulfan I	-		< 0.05	< 0.05	< 0.05	< 0.05	nc
Endosulfan II	-		< 0.05	< 0.05	< 0.05	< 0.05	nc
Endosulfan sulphate	-		< 0.05	< 0.05	< 0.05	< 0.05	nc
Endrin	100		< 0.05	< 0.05	< 0.05	< 0.05	nc
Endrin aldehyde	-		< 0.05	< 0.05	< 0.05	< 0.05	nc
Endrin ketone	-		< 0.05	< 0.05	< 0.05	< 0.05	nc
g-BHC (Lindane)	-		< 0.05	< 0.05	< 0.05	< 0.05	nc
Heptachlor	50		< 0.05	< 0.05	< 0.05	< 0.05	nc
Heptachlor epoxide	-		< 0.05	< 0.05	< 0.05	< 0.05	nc
Hexachlorobenzene	80		< 0.05	< 0.05	< 0.05	< 0.05	nc
Hexachlorobenzene	80		< 0.05	< 0.05	< 0.05	< 0.05	nc

Notes:

Criteria 1 = NEPC (1999) Amended, Health-based Investigation Levels for soil contaminants.

Total concentrations in mg/kg

- = assessment criteria not available

DS2 = duplicate of TP2/0-0.2

TS2 = triplicate of TP2/0-0.2

DS1 = duplicate of TP16/0-0.2

TS1 = triplicate of TP16/0-0.2

DS3 = duplicate of TP28/0-0.2

TS3 = triplicate of TP28/0-0.2

TRIPB1 = blank sample

TRIPS1 = spike sample

TRIPB2 = blank sample

TRIPS2 = spike sample

R1 = rinsate sample

RPD = relative percent difference of duplicate/triplicate

nc = RPD not calculated, one or both samples below laboratory reporting limit

< # or ND = analyte(s) not detected in excess of laboratory reporting limit</pre>

-- = sample not analysed



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	Criteria 1	Sample ID	TP26/0-0.2	TP27/0-0.2	TP28/0-0.2	DS3	RPD_DS3
		Depth (m)	0.0-0.2	0.0-0.2	0.0-0.2	-	-
	HILs - D	Туре	Fill	Fill	Fill	-	-
		Date	7/03/2023	8/03/2023	8/03/2023	8/03/2023	-
Methoxychlor	2,500		< 0.05	< 0.05	< 0.05	< 0.05	nc
Toxaphene	160		< 0.5	< 0.5	< 0.5	< 0.5	nc
Aldrin + Dieldrin	45		ND	ND	ND	ND	nc
Endosulfans - Total	2,000		ND	ND	ND	ND	nc
DDD + DDE + DDT	3,600		ND	0.28	ND	ND	nc
Scheduled Chemical Wastes	-		ND	0.28	ND	ND	nc

Notoo.	
Criteria 1 = NEPC (1999) Amended, Health-based Investigation Levels for soil contaminants.	TRIPS2 = spike sample
Total concentrations in mg/kg	R1 = rinsate sample
- = assessment criteria not available	RPD = relative percent difference of duplicate/triplicate
DS2 = duplicate of TP2/0-0.2	nc = RPD not calculated, one or both samples below laboratory reporting limit
TS2 = triplicate of TP2/0-0.2	<pre>< # or ND = analyte(s) not detected in excess of laboratory reporting limit</pre>
DS1 = duplicate of TP16/0-0.2	= sample not analysed
TS1 = triplicate of TP16/0-0.2	Bold/red indicates exceedance of assessment criteria
DS3 = duplicate of TP28/0-0.2	
TS3 = triplicate of TP28/0-0.2	
TRIPB1 = blank sample	
TRIPS1 = spike sample	
TRIPB2 = blank sample	



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	Criteria 1	Sample ID	TS3	RPD_TS3	TP29/0-0.2	TP30/0-0.2	TP31/0-0.2
		Depth (m)	-	-	0.0-0.2	0.0-0.2	0.0-0.2
	HILs - D	Туре	-	-	Fill	Fill	Fill
		Date	8/03/2023	-	8/03/2023	8/03/2023	8/03/2023
4.4'-DDD	-		< 0.05	nc	< 0.05	< 0.05	< 0.05
4.4'-DDE	-		< 0.05	nc	< 0.05	< 0.05	< 0.05
4.4'-DDT	-		< 0.05	nc	< 0.05	< 0.05	0.06
a-BHC	-		< 0.05	nc	< 0.05	< 0.05	< 0.05
Aldrin	-		< 0.05	nc	< 0.05	< 0.05	< 0.05
b-BHC	-		< 0.05	nc	< 0.05	< 0.05	< 0.05
Chlordanes - Total	530		< 0.1	nc	< 0.1	< 0.1	< 0.1
d-BHC	-		< 0.05	nc	< 0.05	< 0.05	< 0.05
Dieldrin	-		< 0.05	nc	< 0.05	< 0.05	< 0.05
Endosulfan I	-		< 0.05	nc	< 0.05	< 0.05	< 0.05
Endosulfan II	-		< 0.05	nc	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	-		< 0.05	nc	< 0.05	< 0.05	< 0.05
Endrin	100		< 0.05	nc	< 0.05	< 0.05	< 0.05
Endrin aldehyde	-		< 0.05	nc	< 0.05	< 0.05	< 0.05
Endrin ketone	-		< 0.05	nc	< 0.05	< 0.05	< 0.05
g-BHC (Lindane)	-		< 0.05	nc	< 0.05	< 0.05	< 0.05
Heptachlor	50		< 0.05	nc	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	-		< 0.05	nc	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	80		< 0.05	nc	< 0.05	< 0.05	< 0.05

Notes:

Criteria 1 = NEPC (1999) Amended, Health-based Investigation Levels for soil contaminants.

Total concentrations in mg/kg

- = assessment criteria not available

DS2 = duplicate of TP2/0-0.2

TS2 = triplicate of TP2/0-0.2

DS1 = duplicate of TP16/0-0.2

TS1 = triplicate of TP16/0-0.2

DS3 = duplicate of TP28/0-0.2

TS3 = triplicate of TP28/0-0.2

TRIPB1 = blank sample

TRIPS1 = spike sample

TRIPB2 = blank sample

TRIPS2 = spike sample

R1 = rinsate sample

RPD = relative percent difference of duplicate/triplicate

nc = RPD not calculated, one or both samples below laboratory reporting limit

< # or ND = analyte(s) not detected in excess of laboratory reporting limit</pre>

-- = sample not analysed



Table 1 : Summary of Soil Analytical Data - Organochlorine PesticidesDetailed Site InvestigationProject No.: 2301008

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	Criteria 1	Sample ID	TS3	RPD_TS3	TP29/0-0.2	TP30/0-0.2	TP31/0-0.2
		Depth (m)	-	-	0.0-0.2	0.0-0.2	0.0-0.2
	HILs - D	Туре	-	-	Fill	Fill	Fill
		Date	8/03/2023	-	8/03/2023	8/03/2023	8/03/2023
Methoxychlor	2,500		< 0.05	nc	< 0.05	< 0.05	< 0.05
Toxaphene	160		< 0.5	nc	< 0.5	< 0.5	< 0.5
	45		ND		ND	ND	ND
Aldrin + Dieldrin	45		ND	nc	ND	ND	ND
Endosulfans - Total	2,000		ND	nc	ND	ND	ND
DDD + DDE + DDT	3,600		ND	nc	ND	ND	0.06
Scheduled Chemical Wastes	-		ND	nc	ND	ND	0.06

Criteria 1 = NEPC (1999) Amended, Health-based Investigation Levels for soil contaminants.	TRIPS2 = spike sample
Total concentrations in mg/kg	R1 = rinsate sample
- = assessment criteria not available	RPD = relative percent difference of duplicate/triplicate
DS2 = duplicate of TP2/0-0.2	nc = RPD not calculated, one or both samples below laboratory reporting limit
TS2 = triplicate of TP2/0-0.2	< # or ND = analyte(s) not detected in excess of laboratory reporting limit
DS1 = duplicate of TP16/0-0.2	= sample not analysed
TS1 = triplicate of TP16/0-0.2	Bold/red indicates exceedance of assessment criteria
DS3 = duplicate of TP28/0-0.2	
TS3 = triplicate of TP28/0-0.2	
TRIPB1 = blank sample	
TRIPS1 = spike sample	
TRIPB2 = blank sample	



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	Criteria 1	Sample ID	TP32/0-0.3	TP33/0-0.1	TP34/0-0.1	TP35/0-0.2	TP36/0.3-0.5
		Depth (m)	0.0-0.3	0.0-0.1	0.0-0.1	0.0-0.2	0.3-0.5
	HILs - D	Туре	Fill	Fill	Fill	Fill	Fill
		Date	7/03/2023	8/03/2023	6/03/2023	8/03/2023	8/03/2023
4.4'-DDD	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	-		0.08	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDT	-		0.07	< 0.05	< 0.05	< 0.05	< 0.05
a-BHC	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
b-BHC	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chlordanes - Total	530		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
d-BHC	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	100		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
g-BHC (Lindane)	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	50		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	80		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

Notes:

Criteria 1 = NEPC (1999) Amended, Health-based Investigation Levels for soil contaminants.

Total concentrations in mg/kg

- = assessment criteria not available

DS2 = duplicate of TP2/0-0.2

TS2 = triplicate of TP2/0-0.2

DS1 = duplicate of TP16/0-0.2

TS1 = triplicate of TP16/0-0.2

DS3 = duplicate of TP28/0-0.2

TS3 = triplicate of TP28/0-0.2

TRIPB1 = blank sample

TRIPS1 = spike sample

TRIPB2 = blank sample

TRIPS2 = spike sample

R1 = rinsate sample

RPD = relative percent difference of duplicate/triplicate

nc = RPD not calculated, one or both samples below laboratory reporting limit

< # or ND = analyte(s) not detected in excess of laboratory reporting limit</pre>

-- = sample not analysed



Table 1 : Summary of Soil Analytical Data - Organochlorine PesticidesDetailed Site InvestigationProject No.: 2301008

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	Criteria 1	Sample ID	TP32/0-0.3	TP33/0-0.1	TP34/0-0.1	TP35/0-0.2	TP36/0.3-0.5
		Depth (m)	0.0-0.3	0.0-0.1	0.0-0.1	0.0-0.2	0.3-0.5
	HILs - D	Туре	Fill	Fill	Fill	Fill	Fill
		Date	7/03/2023	8/03/2023	6/03/2023	8/03/2023	8/03/2023
Methoxychlor	2,500		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	160		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin + Dieldrin	45		ND	ND	ND	ND	ND
Endosulfans - Total	2,000		ND	ND	ND	ND	ND
DDD + DDE + DDT	3,600		0.15	ND	ND	ND	ND
Scheduled Chemical Wastes	-		0.15	ND	ND	ND	ND

Notes.	
Criteria 1 = NEPC (1999) Amended, Health-based Investigation Levels for soil contaminants.	TRIPS2 = spike sample
Total concentrations in mg/kg	R1 = rinsate sample
- = assessment criteria not available	RPD = relative percent difference of duplicate/triplicate
DS2 = duplicate of TP2/0-0.2	nc = RPD not calculated, one or both samples below laboratory reporting limit
TS2 = triplicate of TP2/0-0.2	< # or ND = analyte(s) not detected in excess of laboratory reporting limit
DS1 = duplicate of TP16/0-0.2	= sample not analysed
TS1 = triplicate of TP16/0-0.2	Bold/red indicates exceedance of assessment criteria
DS3 = duplicate of TP28/0-0.2	
TS3 = triplicate of TP28/0-0.2	
TRIPB1 = blank sample	
TRIPS1 = spike sample	
TRIPB2 = blank sample	



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	Criteria 1	Sample ID	TP37/0-0.2	TP40/0-0.1	TP41/0-0.3	TP57/0.3-0.5	TP59/0-0.2
		Depth (m)	0.0-0.2	0.0-0.1	0.0-0.3	0.3-0.5	0.0-0.2
	HILs - D	Туре	Fill	Fill	Fill	Fill	Fill
		Date	8/03/2023	7/03/2023	8/03/2023	8/03/2023	8/03/2023
4.4'-DDD	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDE	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
4.4'-DDT	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
a-BHC	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aldrin	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
b-BHC	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chlordanes - Total	530		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
d-BHC	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan I	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan II	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Endrin	100		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Endrin aldehyde	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Endrin ketone	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
g-BHC (Lindane)	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	50		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	-		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	80		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

Notes:

Criteria 1 = NEPC (1999) Amended, Health-based Investigation Levels for soil contaminants.

Total concentrations in mg/kg

- = assessment criteria not available

DS2 = duplicate of TP2/0-0.2

TS2 = triplicate of TP2/0-0.2

DS1 = duplicate of TP16/0-0.2

TS1 = triplicate of TP16/0-0.2

DS3 = duplicate of TP28/0-0.2

TS3 = triplicate of TP28/0-0.2

TRIPB1 = blank sample

TRIPS1 = spike sample

TRIPB2 = blank sample

TRIPS2 = spike sample

R1 = rinsate sample

RPD = relative percent difference of duplicate/triplicate

nc = RPD not calculated, one or both samples below laboratory reporting limit

< # or ND = analyte(s) not detected in excess of laboratory reporting limit</pre>

-- = sample not analysed



Table 1 : Summary of Soil Analytical Data - Organochlorine PesticidesDetailed Site InvestigationProject No.: 2301008

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	Criteria 1	Sample ID	TP37/0-0.2	TP40/0-0.1	TP41/0-0.3	TP57/0.3-0.5	TP59/0-0.2
		Depth (m)	0.0-0.2	0.0-0.1	0.0-0.3	0.3-0.5	0.0-0.2
	HILs - D	Туре	Fill	Fill	Fill	Fill	Fill
		Date	8/03/2023	7/03/2023	8/03/2023	8/03/2023	8/03/2023
Methoxychlor	2,500		< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	160		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin + Dieldrin	45		ND	ND	ND	ND	ND
Endosulfans - Total	2,000		ND	ND	ND	ND	ND
DDD + DDE + DDT	3,600		ND	ND	ND	ND	ND
Scheduled Chemical Wastes	-		ND	ND	ND	ND	ND

Notes.	
Criteria 1 = NEPC (1999) Amended, Health-based Investigation Levels for soil contaminants.	TRIPS2 = spike sample
Total concentrations in mg/kg	R1 = rinsate sample
– = assessment criteria not available	RPD = relative percent difference of duplicate/triplicate
DS2 = duplicate of TP2/0-0.2	nc = RPD not calculated, one or both samples below laboratory reporting limit
TS2 = triplicate of TP2/0-0.2	< # or ND = analyte(s) not detected in excess of laboratory reporting limit
DS1 = duplicate of TP16/0-0.2	= sample not analysed
TS1 = triplicate of TP16/0-0.2	Bold/red indicates exceedance of assessment criteria
DS3 = duplicate of TP28/0-0.2	
TS3 = triplicate of TP28/0-0.2	
TRIPB1 = blank sample	
TRIPS1 = spike sample	
TRIPB2 = blank sample	



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	Criteria 1	Sample ID	TP60/0-0.2	TRIPB1	TRIPS1	TRIPB2	TRIPS2
		Depth (m)	0.0-0.2	-	-	-	-
	HILs - D	Туре	Fill	-	-	-	-
		Date	8/03/2023	-	-	-	-
4.4'-DDD	-		< 0.05				
4.4'-DDE	-		< 0.05				
4.4'-DDT	-		< 0.05				
a-BHC	-		< 0.05				
Aldrin	-		< 0.05				
b-BHC	-		< 0.05				
Chlordanes - Total	530		< 0.1				
d-BHC	-		< 0.05				
Dieldrin	-		< 0.05				
Endosulfan I	-		< 0.05				
Endosulfan II	-		< 0.05				
Endosulfan sulphate	-		< 0.05				
Endrin	100		< 0.05				
Endrin aldehyde	-		< 0.05				
Endrin ketone	-		< 0.05				
g-BHC (Lindane)	-		< 0.05				
Heptachlor	50		< 0.05				
Heptachlor epoxide	-		< 0.05				
Hexachlorobenzene	80		< 0.05				

Notes:

Criteria 1 = NEPC (1999) Amended, Health-based Investigation Levels for soil contaminants.

Total concentrations in mg/kg

- = assessment criteria not available

DS2 = duplicate of TP2/0-0.2

TS2 = triplicate of TP2/0-0.2

DS1 = duplicate of TP16/0-0.2

TS1 = triplicate of TP16/0-0.2

DS3 = duplicate of TP28/0-0.2

TS3 = triplicate of TP28/0-0.2

TRIPB1 = blank sample

TRIPS1 = spike sample

TRIPB2 = blank sample

TRIPS2 = spike sample

R1 = rinsate sample

RPD = relative percent difference of duplicate/triplicate

nc = RPD not calculated, one or both samples below laboratory reporting limit

< # or ND = analyte(s) not detected in excess of laboratory reporting limit

-- = sample not analysed



Table 1 : Summary of Soil Analytical Data - Organochlorine PesticidesDetailed Site InvestigationProject No.: 2301008

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	Criteria 1	Sample ID	TP60/0-0.2	TRIPB1	TRIPS1	TRIPB2	TRIPS2
		Depth (m)	0.0-0.2	-	-	-	-
	HILs - D	Туре	Fill	-	-	-	-
		Date	8/03/2023	-	-	-	-
Methoxychlor	2,500		< 0.05				
Toxaphene	160		< 0.5				
Aldrin + Dieldrin	45		ND				
Endosulfans - Total	2,000		ND				
DDD + DDE + DDT	3,600		ND				
Scheduled Chemical Wastes	-		ND				

Notes.	
Criteria 1 = NEPC (1999) Amended, Health-based Investigation Levels for soil contaminants.	TRIPS2 = spike sample
Total concentrations in mg/kg	R1 = rinsate sample
- = assessment criteria not available	RPD = relative percent difference of duplicate/triplicate
DS2 = duplicate of TP2/0-0.2	nc = RPD not calculated, one or both samples below laboratory reporting limit
TS2 = triplicate of TP2/0-0.2	< # or ND = analyte(s) not detected in excess of laboratory reporting limit
DS1 = duplicate of TP16/0-0.2	= sample not analysed
TS1 = triplicate of TP16/0-0.2	Bold/red indicates exceedance of assessment criteria
DS3 = duplicate of TP28/0-0.2	
TS3 = triplicate of TP28/0-0.2	
TRIPB1 = blank sample	
TRIPS1 = spike sample	
TRIPB2 = blank sample	



Table 1 : Summary of Soil Analytical Data - Organochlorine Pesticides Detailed Site Investigation

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	Criteria 1	Sample ID R1
		Depth (m) -
	HILs - D	Туре -
		Date 8/03/2023
4.4'-DDD	-	< 0.0002
4.4'-DDE	-	< 0.0002
4.4'-DDT	-	< 0.0002
a-BHC	-	< 0.0002
Aldrin	-	< 0.0002
b-BHC	-	< 0.0002
Chlordanes - Total	530	< 0.002
d-BHC	-	< 0.0002
Dieldrin	-	< 0.0002
Endosulfan I	-	< 0.0002
Endosulfan II	-	< 0.0002
Endosulfan sulphate	-	< 0.0002
Endrin	100	< 0.0002
Endrin aldehyde	-	< 0.0005
Endrin ketone	-	< 0.0002
g-BHC (Lindane)	-	< 0.0002
Heptachlor	50	< 0.0002
Heptachlor epoxide	-	< 0.0002
Hexachlorobenzene	80	< 0.0002

Notes:

Criteria 1 = NEPC (1999) Amended, Health-based Investigation Levels for soil contaminants.

Total concentrations in mg/kg

- = assessment criteria not available

DS2 = duplicate of TP2/0-0.2

TS2 = triplicate of TP2/0-0.2

DS1 = duplicate of TP16/0-0.2

TS1 = triplicate of TP16/0-0.2

DS3 = duplicate of TP28/0-0.2

TS3 = triplicate of TP28/0-0.2

TRIPB1 = blank sample

TRIPS1 = spike sample

TRIPB2 = blank sample

TRIPS2 = spike sample

R1 = rinsate sample

RPD = relative percent difference of duplicate/triplicate

nc = RPD not calculated, one or both samples below laboratory reporting limit

< # or ND = analyte(s) not detected in excess of laboratory reporting limit</pre>

-- = sample not analysed



Table 1 : Summary of Soil Analytical Data - Organochlorine Pesticides Detailed Site Investigation

Project No.: 2301008

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Austral NSW

	Criteria 1	Sample ID R1	
		Depth (m) -	
	HILs - D	Туре -	
		Date 8/03/2023	
Methoxychlor	2,500	< 0.0002	
Toxaphene	160	< 0.005	
Aldrin + Dieldrin	45	ND	
Endosulfans - Total	2,000	ND	
DDD + DDE + DDT	3,600	ND	
Scheduled Chemical Wastes	-	ND	

1003.	
Criteria 1 = NEPC (1999) Amended, Health-based Investigation Levels for soil contaminants.	TRIPS2 = spike sample
Total concentrations in mg/kg	R1 = rinsate sample
- = assessment criteria not available	RPD = relative percent difference of duplicate/triplicate
DS2 = duplicate of TP2/0-0.2	nc = RPD not calculated, one or both samples below laboratory reporting limit
TS2 = triplicate of TP2/0-0.2	<pre>< # or ND = analyte(s) not detected in excess of laboratory reporting limit</pre>
DS1 = duplicate of TP16/0-0.2	= sample not analysed
TS1 = triplicate of TP16/0-0.2	Bold/red indicates exceedance of assessment criteria
DS3 = duplicate of TP28/0-0.2	
TS3 = triplicate of TP28/0-0.2	
TRIPB1 = blank sample	
TRIPS1 = spike sample	
TRIPB2 = blank sample	



Table 2 : Summary of Soil Analytical Data - Heavy Metals

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	Criteria 1	Sample ID	TP1/0.1-0.3	TP1/0.3-0.5	TP2/0-0.2	DS2	RPD_DS2
		Depth (m)	0.1-0.3	0.3-0.5	0.0-0.2	-	-
	HILs - D	Туре	Fill	Fill	Fill	-	-
		Date	7/03/2023	7/03/2023	7/03/2023	7/03/2023	-
Arsenic	3,000		4.2	16	11	12	9%
Cadmium	900		< 0.4	< 0.4	< 0.4	< 0.4	nc
Chromium	3,600 ¹		10	34	17	20	16%
Copper	240,000		22	20	24	23	4%
Lead	1,500		9.8	22	18	19	5%
Mercury	730		< 0.1	< 0.1	< 0.1	< 0.1	nc
Nickel	6,000		5.6	7.3	8.8	8.9	1%
Zinc	400,000		35	33	43	44	2%

Notes:

Criteria 1 = NEPC (1999) Amended, Health-based Investigation Levels for soil contaminants.	TRIPB2 = blank sample
Total concentrations in mg/kg	TRIPS2 = spike sample
– = assessment criteria not available	R1 = rinsate sample
'Guideline for Chromium (VI) used conservatively.	RPD = relative percent difference of duplicate/triplicate
DS2 = duplicate of TP2/0-0.2	nc = RPD not calculated, one or both samples below laboratory reporting limit
TS2 = triplicate of TP2/0-0.2	< # or ND = analyte(s) not detected in excess of laboratory reporting limit
DS1 = duplicate of TP16/0-0.2	= sample not analysed
TS1 = triplicate of TP16/0-0.2	Bold/red indicates exceedance of assessment criteria
DS3 = duplicate of TP28/0-0.2	
TS3 = triplicate of TP28/0-0.2	
TRIPB1 = blank sample	



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Criteria 1	Sample ID	TS2	RPD_TS2	TP3/0-0.2	TP4/0.15-0.35	TP5/0-0.2
	Depth (m)	-	-	0.0-0.2	0.15-0.35	0.0-0.2
HILs - D	Туре	-	-	Fill	Fill	Fill
	Date	7/03/2023	-	7/03/2023	8/03/2023	8/03/2023
			24%			22
900		< 0.4	nc	< 0.4	< 0.4	< 0.4
3,6001		26	42%	36	14	51
240,000		28	15%	13	8.6	25
1,500		21	15%	22	8.6	20
730		< 0.1	nc	< 0.1	< 0.1	< 0.1
6,000		12	31%	5.7	< 5	5.3
400,000		50	15%	24	9.4	38
	HILs - D 3,000 900 3,600 ¹ 240,000 1,500 730 6,000	Depth (m) HILs - D Type Date Date 3,000 - 900 - 3,600 ¹ - 240,000 - 1,500 - 730 - 6,000 -	Depth (m) - HILs - D Type - Date 7/03/2023 Date 7/03/2023 14 - 900 - - 4 900 - - 5 - - - 14 900 - - 900 - - 26 26 - - 1,500 21 - 21 730 - - - 6,000 12 - 12	Depth (m) - - HILS - D Type - - Date 7/03/2023 - - Date 7/03/2023 - - 14 24% - - 900 - - - 900 <	Depth (m) - - 0.0-0.2 HILS - D Type - Fill Date 7/03/2023 - 7/03/2023 Date 7/03/2023 - 7/03/2023 3,000 14 24% 17 900 <	Depth (m) - 0.0-0.2 0.15-0.35 HILS - D Type - Fill Fill Date 7/03/2023 - 7/03/2023 8/03/2023 Date 7/03/2023 - 7/03/2023 8/03/2023 Statistical Control -

Notes:

Criteria 1	= NEPC (1999) Amended, Health-based Investigation Levels for soil contaminants.	TRIPB2 = blank sample
Total con	icentrations in mg/kg	TRIPS2 = spike sample
- = asses	esment criteria not available	R1 = rinsate sample
'Guideline	for Chromium (VI) used conservatively.	RPD = relative percent difference of duplicate/triplicate
DS2 = du	plicate of TP2/0-0.2	nc = RPD not calculated, one or both samples below laboratory reporting limit
TS2 = trip	plicate of TP2/0-0.2	< # or ND = analyte(s) not detected in excess of laboratory reporting limit
DS1 = du	plicate of TP16/0-0.2	= sample not analysed
TS1 = trip	plicate of TP16/0-0.2	Bold/red indicates exceedance of assessment criteria
DS3 = du	plicate of TP28/0-0.2	
TS3 = trip	plicate of TP28/0-0.2	
TRIPB1 =	blank sample	



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	Criteria 1	Sample ID	TP6/0.2-0.4	TP7/0-0.2	TP8/0.15-0.35	TP9/0-0.3	TP10/0-0.2
		Depth (m)	0.2-0.4	0.0-0.2	0.15-0.35	0.0-0.3	0.0-0.2
	HILs - D	Туре	Fill	Fill	Fill	Fill	Fill
		Date	8/03/2023	7/03/2023	7/03/2023	7/03/2023	6/03/2023
Arsenic	3,000		7.7	12	17	16	11
Cadmium	900		< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	3,600 ¹		13	21	37	30	17
Copper	240,000		8.2	11	22	25	27
Lead	1,500		8.9	44	29	22	26
Mercury	730		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	6,000		< 5	5.2	6.1	6.5	5.1
Zinc	400,000		7.3	54	36	39	88

Notes:

Criteria 1 = NEPC (1999) Amended, Health-based Investigation Levels for soil contaminants.	TRIPB2 = blank sample
Total concentrations in mg/kg	TRIPS2 = spike sample
– = assessment criteria not available	R1 = rinsate sample
'Guideline for Chromium (VI) used conservatively.	RPD = relative percent difference of duplicate/triplicate
DS2 = duplicate of TP2/0-0.2	nc = RPD not calculated, one or both samples below laboratory reporting limit
TS2 = triplicate of TP2/0-0.2	<pre>< # or ND = analyte(s) not detected in excess of laboratory reporting limit</pre>
DS1 = duplicate of TP16/0-0.2	= sample not analysed
TS1 = triplicate of TP16/0-0.2	Bold/red indicates exceedance of assessment criteria
DS3 = duplicate of TP28/0-0.2	
TS3 = triplicate of TP28/0-0.2	
TRIPB1 = blank sample	



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	Criteria 1	Sample ID	TP11/0-0.2	TP12/0-0.2	TP13/0-0.2	TP14/0-0.2	TP15/0-0.2
		Depth (m)	0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.2
	HILs - D	Туре	Fill	Fill	Fill	Fill	Fill
		Date	8/03/2023	8/03/2023	8/03/2023	8/03/2023	8/03/2023
Arsenic	3,000		23	17	24	20	17
Cadmium	900		< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	3,600 ¹		37	29	23	44	28
Copper	240,000		8.8	13	19	17	36
Lead	1,500		23	17	16	23	64
Mercury	730		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	6,000		< 5	< 5	6.8	5.2	6
Zinc	400,000		24	24	46	47	100

Notes:

Criteria 1 = NEPC (1999) Amended, Health-based Investigation Levels for soil contaminants.	TRIPB2 = blank sample
Total concentrations in mg/kg	TRIPS2 = spike sample
– = assessment criteria not available	R1 = rinsate sample
'Guideline for Chromium (VI) used conservatively.	RPD = relative percent difference of duplicate/triplicate
DS2 = duplicate of TP2/0-0.2	nc = RPD not calculated, one or both samples below laboratory reporting limit
TS2 = triplicate of TP2/0-0.2	<pre>< # or ND = analyte(s) not detected in excess of laboratory reporting limit</pre>
DS1 = duplicate of TP16/0-0.2	= sample not analysed
TS1 = triplicate of TP16/0-0.2	Bold/red indicates exceedance of assessment criteria
DS3 = duplicate of TP28/0-0.2	
TS3 = triplicate of TP28/0-0.2	
TRIPB1 = blank sample	



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	Criteria 1	Sample ID	TP16/0-0.2	DS1	RPD_DS1	TS1	RPD_TS1
		Depth (m)	0.0-0.2	-	-	-	-
	HILs - D	Туре	Fill	-	-	-	-
		Date	7/03/2023	7/03/2023	-	7/03/2023	-
			10	10			
Arsenic	3,000		18	16	12%	29	47%
Cadmium	900		< 0.4	< 0.4	nc	< 0.4	nc
Chromium	3,600 ¹		36	33	9%	47	27%
Copper	240,000		13	15	14%	22	51%
Lead	1,500		20	22	10%	58	97%
Mercury	730		< 0.1	< 0.1	nc	< 0.1	nc
Nickel	6,000		< 5	6.5	nc	6.9	nc
Zinc	400,000		21	30	35%	40	62%

Notes:

Notes:	
Criteria 1 = NEPC (1999) Amended, Health-based Investigation Levels for soil contaminants.	TRIPB2 = blank sample
Total concentrations in mg/kg	TRIPS2 = spike sample
- = assessment criteria not available	R1 = rinsate sample
'Guideline for Chromium (VI) used conservatively.	RPD = relative percent difference of duplicate/triplicate
DS2 = duplicate of TP2/0-0.2	nc = RPD not calculated, one or both samples below laboratory reporting limit
TS2 = triplicate of TP2/0-0.2	< # or ND = analyte(s) not detected in excess of laboratory reporting limit
DS1 = duplicate of TP16/0-0.2	= sample not analysed
TS1 = triplicate of TP16/0-0.2	Bold/red indicates exceedance of assessment criteria
DS3 = duplicate of TP28/0-0.2	
TS3 = triplicate of TP28/0-0.2	
TRIPB1 = blank sample	



Table 2 : Summary of Soil Analytical Data - Heavy Metals

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	Criteria 1	Sample ID	TP17/0-0.2	TP17/0.4-0.6	TP18/0-0.2	TP19/0-0.2	TP20/0-0.2
		Depth (m)	0.0-0.2	0.4-0.6	0.0-0.2	0.0-0.2	0.0-0.2
	HILs - D	Туре	Fill	Fill	Fill	Fill	Fill
		Date	7/03/2023	7/03/2023	7/03/2023	8/03/2023	8/03/2023
Arsenic	3,000		18	18	18	17	9.9
Cadmium	900		< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	3,600 ¹		34	33	31	33	24
Copper	240,000		18	12	27	12	26
Lead	1,500		16	19	20	12	17
Mercury	730		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	6,000		< 5	5	7.7	< 5	< 5
Zinc	400,000		26	19	55	31	46

Notes:

Criteria 1 = NEPC (1999) Amended, Health-based Investigation Levels for soil contaminants.	TRIPB2 = blank sample
Total concentrations in mg/kg	TRIPS2 = spike sample
- = assessment criteria not available	R1 = rinsate sample
'Guideline for Chromium (VI) used conservatively.	RPD = relative percent difference of duplicate/triplicate
DS2 = duplicate of TP2/0-0.2	nc = RPD not calculated, one or both samples below laboratory reporting limit
TS2 = triplicate of TP2/0-0.2	<pre>< # or ND = analyte(s) not detected in excess of laboratory reporting limit</pre>
DS1 = duplicate of TP16/0-0.2	= sample not analysed
TS1 = triplicate of TP16/0-0.2	Bold/red indicates exceedance of assessment criteria
DS3 = duplicate of TP28/0-0.2	
TS3 = triplicate of TP28/0-0.2	
TRIPB1 = blank sample	



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	Criteria 1	Sample ID	TP21/0-0.2	TP22/0-0.2	TP23/0-0.2	TP24/0-0.2	TP25/0-0.1
		Depth (m)	0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.1
	HILs - D	Туре	Fill	Fill	Fill	Fill	Fill
		Date	8/03/2023	8/03/2023	8/03/2023	7/03/2023	6/03/2023
Arsenic	3,000		19	15	17	9.9	24
Cadmium	900		< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	3,600 ¹		41	44	31	26	35
Copper	240,000		25	18	24	12	33
Lead	1,500		18	16	20	19	20
Mercury	730		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	6,000		< 5	< 5	6.6	5.2	5.3
Zinc	400,000		44	21	38	18	65

Notes:

Criteria 1 = NEPC (1999) Amended, Health-based Investigation Levels for soil contaminants.	TRIPB2 = blank sample
Total concentrations in mg/kg	TRIPS2 = spike sample
– = assessment criteria not available	R1 = rinsate sample
'Guideline for Chromium (VI) used conservatively.	RPD = relative percent difference of duplicate/triplicate
DS2 = duplicate of TP2/0-0.2	nc = RPD not calculated, one or both samples below laboratory reporting limit
TS2 = triplicate of TP2/0-0.2	< # or ND = analyte(s) not detected in excess of laboratory reporting limit
DS1 = duplicate of TP16/0-0.2	= sample not analysed
TS1 = triplicate of TP16/0-0.2	Bold/red indicates exceedance of assessment criteria
DS3 = duplicate of TP28/0-0.2	
TS3 = triplicate of TP28/0-0.2	
TRIPB1 = blank sample	



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	Criteria 1	Sample ID	TP26/0-0.2	TP27/0-0.2	TP28/0-0.2	DS3	RPD_DS3
		Depth (m)	0.0-0.2	0.0-0.2	0.0-0.2	-	-
	HILs - D	Туре	Fill	Fill	Fill	-	-
		Date	7/03/2023	8/03/2023	8/03/2023	8/03/2023	-
A	0.000		45	40	40	00	500/
Arsenic	3,000		15	16	16	29	58%
Cadmium	900		< 0.4	< 0.4	< 0.4	< 0.4	nc
Chromium	3,600 ¹		28	27	30	41	31%
Copper	240,000		30	27	23	15	42%
Lead	1,500		19	18	16	20	22%
Mercury	730		< 0.1	< 0.1	< 0.1	< 0.1	nc
Nickel	6,000		6.1	5.2	< 5	< 5	nc
Zinc	400,000		63	43	40	26	42%

Notes:

Criteria 1 = NEPC (1999) Amended, Health-based Investigation Levels for soil contaminants.	TRIPB2 = blank sample
Total concentrations in mg/kg	TRIPS2 = spike sample
– = assessment criteria not available	R1 = rinsate sample
'Guideline for Chromium (VI) used conservatively.	RPD = relative percent difference of duplicate/triplicate
DS2 = duplicate of TP2/0-0.2	nc = RPD not calculated, one or both samples below laboratory reporting limit
TS2 = triplicate of TP2/0-0.2	< # or ND = analyte(s) not detected in excess of laboratory reporting limit
DS1 = duplicate of TP16/0-0.2	= sample not analysed
TS1 = triplicate of TP16/0-0.2	Bold/red indicates exceedance of assessment criteria
DS3 = duplicate of TP28/0-0.2	
TS3 = triplicate of TP28/0-0.2	
TRIPB1 = blank sample	



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Criteria 1	Sample ID	TS3	RPD_TS3	TP29/0-0.2	TP30/0-0.2	TP31/0-0.2
	Depth (m)	-	-	0.0-0.2	0.0-0.2	0.0-0.2
HILs - D	Туре	-	-	Fill	Fill	Fill
	Date	8/03/2023	-	8/03/2023	8/03/2023	8/03/2023
3,000		24	40%	18	13	18
900		< 0.4	nc	< 0.4	< 0.4	< 0.4
3,600 ¹		53	55%	36	26	33
240,000		22	4%	24	13	26
1,500		22	32%	17	26	18
730		< 0.1	nc	< 0.1	< 0.1	< 0.1
6,000		< 5	nc	< 5	< 5	< 5
400,000		37	8%	52	28	39
	HILs - D 3,000 900 3,600 ¹ 240,000 1,500 730 6,000	Depth (m) HILs - D Type Date Date 3,000 - 900 - 3,6001 - 240,000 - 1,500 - 730 - 6,000 -	Depth (m) - HILs - D Type - Date 8/03/2023 Jobe 8/03/2023 3,000 24 900 <0.4	Depth (m) - - HILs - D Type - - Date 8/03/2023 - - Date 8/03/2023 - - 3,000 24 40% 900 < 0.4	Depth (m) - - 0.0-0.2 HILS - D Type - Fill Date 8/03/2023 - 8/03/2023 Jate 24 40% 18 Jate 53 55% 36 Jate 22 4% 24 Jate 22 32% 17 Jate 300 - 0.1 Jate - 0.1 nc Jate - 0.1 - Jate - 5 nc -	Depth (m)0.0-0.20.0-0.2HILs - DTypeFillFillDate $8/03/2023$ - $8/03/2023$ $8/03/2023$ 0Date $8/03/2023$ - $8/03/2023$ $8/03/2023$ 0Date 24 40% 18131900 < 0.4 < 0.4 < 0.4 < 0.4 3,6001 < 0.4 < 53 55% 3626240,000 < 22 4% 24131,500 < 22 32% 17261,500 < 0.1 < 0.1 < 0.1 < 0.1 6,000 < 5 < 5 nc < 5 < 5

Notes:

Criteria 1 = NEPC (1999) Amended, Health-based Investigation Levels for soil contaminants.	TRIPB2 = blank sample
Total concentrations in mg/kg	TRIPS2 = spike sample
– = assessment criteria not available	R1 = rinsate sample
'Guideline for Chromium (VI) used conservatively.	RPD = relative percent difference of duplicate/triplicate
DS2 = duplicate of TP2/0-0.2	nc = RPD not calculated, one or both samples below laboratory reporting limit
TS2 = triplicate of TP2/0-0.2	< # or ND = analyte(s) not detected in excess of laboratory reporting limit
DS1 = duplicate of TP16/0-0.2	= sample not analysed
TS1 = triplicate of TP16/0-0.2	Bold/red indicates exceedance of assessment criteria
DS3 = duplicate of TP28/0-0.2	
TS3 = triplicate of TP28/0-0.2	
TRIPB1 = blank sample	



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	Criteria 1	Sample ID	TP32/0-0.3	TP33/0-0.1	TP34/0-0.1	TP35/0-0.2	TP36/0.3-0.5
		Depth (m)	0.0-0.3	0.0-0.1	0.0-0.1	0.0-0.2	0.3-0.5
	HILs - D	Туре	Fill	Fill	Fill	Fill	Fill
		Date	7/03/2023	8/03/2023	6/03/2023	8/03/2023	8/03/2023
Arsenic	3,000		15	20	11	12	20
Cadmium	900		< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	3,600 ¹		27	40	25	25	37
Copper	240,000		27	26	39	24	21
Lead	1,500		18	16	14	16	19
Mercury	730		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	6,000		< 5	< 5	< 5	< 5	5.3
Zinc	400,000		38	44	75	30	34

Notes:

Criteria 1 = NEPC (1999) Amended, Health-based Investigation Levels for soil contaminants.	TRIPB2 = blank sample
Total concentrations in mg/kg	TRIPS2 = spike sample
- = assessment criteria not available	R1 = rinsate sample
'Guideline for Chromium (VI) used conservatively.	RPD = relative percent difference of duplicate/triplicate
DS2 = duplicate of TP2/0-0.2	nc = RPD not calculated, one or both samples below laboratory reporting limit
TS2 = triplicate of TP2/0-0.2	< # or ND = analyte(s) not detected in excess of laboratory reporting limit
DS1 = duplicate of TP16/0-0.2	= sample not analysed
TS1 = triplicate of TP16/0-0.2	Bold/red indicates exceedance of assessment criteria
DS3 = duplicate of TP28/0-0.2	
TS3 = triplicate of TP28/0-0.2	
TRIPB1 = blank sample	



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	Criteria 1	Sample ID	TP37/0-0.2	TP40/0-0.1	TP41/0-0.3	TP57/0.3-0.5	TP59/0-0.2
		Depth (m)	0.0-0.2	0.0-0.1	0.0-0.3	0.3-0.5	0.0-0.2
	HILs - D	Туре	Fill	Fill	Fill	Fill	Fill
		Date	8/03/2023	7/03/2023	8/03/2023	8/03/2023	8/03/2023
Arsenic	3,000		23	19	15	15	21
Cadmium	900		< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	3,600 ¹		39	35	26	31	43
Copper	240,000		18	25	25	19	27
Lead	1,500		18	15	18	20	20
Mercury	730		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	6,000		< 5	< 5	5.9	< 5	< 5
Zinc	400,000		49	44	51	23	57

Notes:

Notion.	
Criteria 1 = NEPC (1999) Amended, Health-based Investigation Levels for soil contaminants.	TRIPB2 = blank sample
Total concentrations in mg/kg	TRIPS2 = spike sample
- = assessment criteria not available	R1 = rinsate sample
'Guideline for Chromium (VI) used conservatively.	RPD = relative percent difference of duplicate/triplicate
DS2 = duplicate of TP2/0-0.2	nc = RPD not calculated, one or both samples below laboratory reporting limit
TS2 = triplicate of TP2/0-0.2	< # or ND = analyte(s) not detected in excess of laboratory reporting limit
DS1 = duplicate of TP16/0-0.2	= sample not analysed
TS1 = triplicate of TP16/0-0.2	Bold/red indicates exceedance of assessment criteria
DS3 = duplicate of TP28/0-0.2	
TS3 = triplicate of TP28/0-0.2	
TRIPB1 = blank sample	



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	Criteria 1	Sample ID	TP60/0-0.2	TRIPB1	TRIPS1	TRIPB2	TRIPS2
		Depth (m)	0.0-0.2	-	-	-	-
	HILs - D	Туре	Fill	-	-	-	-
		Date	8/03/2023	-	-	-	-
Arsenic	3,000		19				
Cadmium	900		< 0.4				
Chromium	3,600 ¹		36				
Copper	240,000		17				
Lead	1,500		15				
Mercury	730		< 0.1				
Nickel	6,000		< 5				
Zinc	400,000		36				

Notes:

Criteria 1 = NEPC (1999) Amended, Health-based Investigation Levels for soil contaminants.	TRIPB2 = blank sample
Total concentrations in mg/kg	TRIPS2 = spike sample
- = assessment criteria not available	R1 = rinsate sample
'Guideline for Chromium (VI) used conservatively.	RPD = relative percent difference of duplicate/triplicate
DS2 = duplicate of TP2/0-0.2	nc = RPD not calculated, one or both samples below laboratory reporting limit
TS2 = triplicate of TP2/0-0.2	< # or ND = analyte(s) not detected in excess of laboratory reporting limit
DS1 = duplicate of TP16/0-0.2	= sample not analysed
TS1 = triplicate of TP16/0-0.2	Bold/red indicates exceedance of assessment criteria
DS3 = duplicate of TP28/0-0.2	
TS3 = triplicate of TP28/0-0.2	
TRIPB1 = blank sample	



Project No.: 2301008

330 - 350 Eighth Avenue

Austral NSW

	Criteria 1	Sample ID R1
		Depth (m) -
	HILs - D	Туре -
		Date 8/03/2023
Arsenic	3,000	< 0.001
Cadmium	900	< 0.0002
Chromium	3,600 ¹	< 0.001
Copper	240,000	< 0.001
Lead	1,500	< 0.001
Mercury	730	< 0.0001
Nickel	6,000	< 0.001
Zinc	400,000	< 0.005

Notes:

Criteria 1 = NEPC (1999) Amended, Health-based Investigation Levels for soil contaminants.	TRIPB2 = blank sample
Total concentrations in mg/kg	TRIPS2 = spike sample
- = assessment criteria not available	R1 = rinsate sample
'Guideline for Chromium (VI) used conservatively.	RPD = relative percent difference of duplicate/triplicate
DS2 = duplicate of TP2/0-0.2	nc = RPD not calculated, one or both samples below laboratory reporting limit
TS2 = triplicate of TP2/0-0.2	< # or ND = analyte(s) not detected in excess of laboratory reporting limit
DS1 = duplicate of TP16/0-0.2	= sample not analysed
TS1 = triplicate of TP16/0-0.2	Bold/red indicates exceedance of assessment criteria
DS3 = duplicate of TP28/0-0.2	
TS3 = triplicate of TP28/0-0.2	
TRIPB1 = blank sample	



330 - 350 Eighth Avenue

Austral NSW

	Criteria 1		Sample ID	TP1/0.1-0.3	TP1/0.3-0.5	TP2/0-0.2	DS2	RPD_DS2
	HSLs - D	Management	Depth (m)	0.1-0.3	0.3-0.5	0.0-0.2	-	-
	Sand	Limits	Туре	Fill	Fill	Fill	-	-
	0 to <1 m	Comm/Ind	Date	7/03/2023	7/03/2023	7/03/2023	7/03/2023	-
TRH C ₆ -C ₁₀	-	700		< 20	< 20	< 20		
TRH C_6 - C_{10} less BTEX (F1)	260	-		< 20	< 20	< 20		
$TRH > C_{10} - C_{16}$	-	1,000		< 50	< 50	< 50		
TRH > C_{10} - C_{16} less Naphthalene (F2)	NL	-		< 50	< 50	< 50		
$TRH > C_{16} - C_{34}$	-	3,500		< 100	< 100	< 100		
$TRH > C_{34} - C_{40}$	-	10,000		< 100	< 100	< 100		
Benzene	3	-		< 0.1	< 0.1	< 0.1		
Toluene	NL	-		< 0.1	< 0.1	< 0.1		
Ethylbenzene	NL	-		< 0.1	< 0.1	< 0.1		
m&p-Xylenes	-	-		< 0.2	< 0.2	< 0.2		
o-Xylene	-	-		< 0.1	< 0.1	< 0.1		
Xylenes - Total	230	-		< 0.3	< 0.3	< 0.3		
Naphthalene (MAH)	NL	-		< 0.5	< 0.5	< 0.5		

Notes:



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Austral NSW

	Criteria 1	Criteria 2	Sample ID	TS2	RPD_TS2	TP3/0-0.2	TP4/0.15-0.35	TP5/0-0.2
	HSLs - D	Management	Depth (m)	-	-	0.0-0.2	0.15-0.35	0.0-0.2
	Sand	Limits	Туре	-	-	Fill	Fill	Fill
	0 to <1 m	Comm/Ind	Date	7/03/2023	-	7/03/2023	8/03/2023	8/03/2023
TRH C ₆ -C ₁₀	-	700				< 20	< 20	
TRH C_6 - C_{10} less BTEX (F1)	260	-				< 20	< 20	
$TRH > C_{10} - C_{16}$	-	1,000				< 50	< 50	
TRH > C_{10} - C_{16} less Naphthalene (F2)	NL	-				< 50	< 50	
$TRH > C_{16} - C_{34}$	-	3,500				< 100	< 100	
$TRH > C_{34} - C_{40}$	-	10,000				< 100	< 100	
Benzene	3	-				< 0.1	< 0.1	
Toluene	NL					< 0.1	< 0.1	
Ethylbenzene	NL	-				< 0.1	< 0.1	
m&p-Xylenes	-	-				< 0.2	< 0.2	
o-Xylene	-	-				< 0.1	< 0.1	
Xylenes - Total	230	-				< 0.3	< 0.3	
Naphthalene (MAH)	NL	-				< 0.5	< 0.5	

Notes:



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Austral NSW

	Criteria 1	Criteria 1 Criteria 2	Sample ID	TP6/0.2-0.4 0.2-0.4	TP7/0-0.2	TP8/0.15-0.35	TP9/0-0.3 0.0-0.3 Fill	TP10/0-0.2 0.0-0.2 Fill
	HSLs - D	Management	Depth (m)		0.0-0.2	0.15-0.35		
	Sand	Limits	Туре	Fill	Fill	Fill		
	0 to <1 m	Comm/Ind	Date	8/03/2023	7/03/2023	7/03/2023	7/03/2023	6/03/2023
TRH C ₆ -C ₁₀	-	700		< 20	< 20	< 20	< 20	< 20
TRH C ₆ -C ₁₀ less BTEX (F1)	260	-		< 20	< 20	< 20	< 20	< 20
TRH >C ₁₀ -C ₁₆	-	1,000		< 50	< 50	< 50	< 50	< 50
TRH >C ₁₀ -C ₁₆ less Naphthalene (F2)	NL			< 50	< 50	< 50	< 50	< 50
TRH > C_{16} - C_{34}	-	3,500		< 100	< 100	< 100	< 100	130
TRH >C ₃₄ -C ₄₀	-	10,000		< 100	< 100	< 100	< 100	< 100
Benzene	3	-		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	NL	-		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	NL	-		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	-	-		< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	-	-		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total	230	-		< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Naphthalene (MAH)	NL	-		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

Notes:



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Austral NSW

	Criteria 1		Sample ID	TP11/0-0.2	TP12/0-0.2	TP13/0-0.2	TP14/0-0.2 0.0-0.2	TP15/0-0.2 0.0-0.2 Fill
	HSLs - D	Management	Depth (m)	0.0-0.2	0.0-0.2	0.0-0.2		
	Sand	Limits	Туре	Fill	Fill	Fill	Fill	
	0 to <1 m	Comm/Ind	Date	8/03/2023	8/03/2023	8/03/2023	8/03/2023	8/03/2023
TRH C ₆ -C ₁₀	-	700			< 20	< 20	< 20	< 20
TRH C ₆ -C ₁₀ less BTEX (F1)	260	-			< 20	< 20	< 20	< 20
$TRH > C_{10}-C_{16}$	-	1,000			< 50	< 50	< 50	< 50
TRH > C_{10} - C_{16} less Naphthalene (F2)	NL	-			< 50	< 50	< 50	< 50
$TRH > C_{16} - C_{34}$	-	3,500			150	< 100	< 100	< 100
$TRH > C_{34} - C_{40}$	-	10,000			< 100	< 100	< 100	< 100
Benzene	3	-			< 0.1	< 0.1	< 0.1	< 0.1
Toluene	NL	-			< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	NL	-			< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	-	-			< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	-	-			< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total	230	-			< 0.3	< 0.3	< 0.3	< 0.3
Naphthalene (MAH)	NL	-			< 0.5	< 0.5	< 0.5	< 0.5

Notes:



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Austral NSW

	Criteria 1	Criteria 2	Sample ID	TP16/0-0.2	DS1	RPD_DS1	TS1	RPD_TS1
	HSLs - D	Management	Depth (m)	0.0-0.2	-	-	-	-
	Sand	Limits	Туре	Fill	-	-	-	-
	0 to <1 m	Comm/Ind	Date	7/03/2023	7/03/2023	-	7/03/2023	-
$TRHC_6\text{-}C_{10}$	-	700			< 20		< 20	
TRH C_6 - C_{10} less BTEX (F1)	260	-			< 20		< 20	
$TRH > C_{10} - C_{16}$	-	1,000			< 50		< 50	
TRH >C ₁₀ -C ₁₆ less Naphthalene (F2)	NL	-			< 50		< 50	
TRH > C_{16} - C_{34}	-	3,500			< 100		< 100	
$TRH > C_{34} - C_{40}$	-	10,000			< 100		< 100	
Benzene	3	-			< 0.1		< 0.1	
Toluene	NL	-			< 0.1		< 0.1	
Ethylbenzene	NL	-			< 0.1		< 0.1	
m&p-Xylenes	-	-			< 0.2		< 0.2	
o-Xylene	-	-			< 0.1		< 0.1	
Xylenes - Total	230	-			< 0.3		< 0.3	
Naphthalene (MAH)	NL	-			< 0.5		< 0.5	

Notes:



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Austral NSW

	Criteria 1	Criteria 2	Sample ID	TP17/0-0.2	TP17/0.4-0.6	TP18/0-0.2	TP19/0-0.2	TP20/0-0.2
	HSLs - D	Management	Depth (m)	0.0-0.2	0.4-0.6	0.0-0.2	0.0-0.2	0.0-0.2
	Sand	Limits	Туре	Fill	Fill	Fill	Fill	Fill
	0 to <1 m	Comm/Ind	Date	7/03/2023	/03/2023 7/03/2023	7/03/2023	8/03/2023	8/03/2023
TRH C ₆ -C ₁₀	-	700		< 20	< 20			
TRH C_6 - C_{10} less BTEX (F1)	260	-		< 20	< 20			
TRH >C ₁₀ -C ₁₆	-	1,000		< 50	< 50			
TRH >C ₁₀ -C ₁₆ less Naphthalene (F2)	NL	-		< 50	< 50			
$TRH > C_{16} - C_{34}$	-	3,500		< 100	< 100			
TRH >C ₃₄ -C ₄₀	-	10,000		< 100	< 100			
Benzene	3	-		< 0.1	< 0.1			
Toluene	NL	-		< 0.1	< 0.1			
Ethylbenzene	NL	-		< 0.1	< 0.1			
m&p-Xylenes	-	-		< 0.2	< 0.2			
o-Xylene	-	-		< 0.1	< 0.1			
Xylenes - Total	230	-		< 0.3	< 0.3			
Naphthalene (MAH)	NL	-		< 0.5	< 0.5			
			_					

Notes:



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Austral NSW

	Criteria 1	Criteria 2	Sample ID	TP21/0-0.2	TP22/0-0.2	TP23/0-0.2	TP24/0-0.2	TP25/0-0.1
	HSLs - D	Management	Depth (m)	0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.1
	Sand	Limits	Туре	Fill	Fill	Fill	Fill	Fill
	0 to <1 m	Comm/Ind	Date	8/03/2023	8/03/2023	8/03/2023	7/03/2023	6/03/2023
TRH C_6 - C_{10}	-	700				< 20		
TRH C_6 - C_{10} less BTEX (F1)	260	-				< 20		
$TRH > C_{10}-C_{16}$	-	1,000				< 50		
TRH >C ₁₀ -C ₁₆ less Naphthalene (F2)	NL	-				< 50		
$TRH > C_{16} - C_{34}$	-	3,500				< 100		
$TRH > C_{34} - C_{40}$	-	10,000				< 100		
Benzene	3	-				< 0.1		
Toluene	NL	-				< 0.1		
Ethylbenzene	NL	-				< 0.1		
m&p-Xylenes	-	-				< 0.2		
o-Xylene	-	-				< 0.1		
Xylenes - Total	230	-				< 0.3		
Naphthalene (MAH)	NL	-				< 0.5		

Notes:



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Austral NSW

	Criteria 1	Criteria 2	Sample ID	TP26/0-0.2	TP27/0-0.2	TP28/0-0.2	DS3	RPD_DS3
	HSLs - D	Management	Depth (m)	0.0-0.2	0.0-0.2	0.0-0.2	-	-
	Sand	Limits	Туре	Fill	Fill	Fill	-	-
	0 to <1 m	Comm/Ind	Date	7/03/2023	8/03/2023	8/03/2023	8/03/2023	-
TRH C ₆ -C ₁₀	-	700				< 20		
TRH C_6 - C_{10} less BTEX (F1)	260	-				< 20		
$TRH > C_{10} - C_{16}$	-	1,000				< 50		
TRH > C_{10} - C_{16} less Naphthalene (F2)	NL	-				< 50		
$TRH > C_{16} - C_{34}$	-	3,500				< 100		
$TRH > C_{34}-C_{40}$	-	10,000				< 100		
Benzene	3	-				< 0.1		
Toluene	NL	-				< 0.1		
Ethylbenzene	NL	-				< 0.1		
m&p-Xylenes	-	-				< 0.2		
o-Xylene	-	-				< 0.1		
Xylenes - Total	230	-				< 0.3		
Naphthalene (MAH)	NL	-				< 0.5		

Notes:



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Austral NSW

	Criteria 1	Criteria 2	Sample ID	TS3	RPD_TS3	TP29/0-0.2	TP30/0-0.2	TP31/0-0.2
	HSLs - D	Management	Depth (m)	-	-	0.0-0.2	0.0-0.2	0.0-0.2
	Sand	Limits	Туре	-	-	Fill	Fill	Fill
	0 to <1 m	Comm/Ind	Date	8/03/2023	-	8/03/2023	8/03/2023	8/03/2023
TRH C ₆ -C ₁₀	-	700						< 20
TRH C ₆ -C ₁₀ less BTEX (F1)	260	-						< 20
$TRH > C_{10}-C_{16}$	-	1,000						< 50
TRH >C ₁₀ -C ₁₆ less Naphthalene (F2)	NL	-						< 50
$TRH > C_{16} - C_{34}$	-	3,500						< 100
TRH > C_{34} - C_{40}	-	10,000						< 100
Benzene	3							< 0.1
Toluene	NL	-						< 0.1
Ethylbenzene	NL	-						< 0.1
m&p-Xylenes	-	-						< 0.2
o-Xylene	-	-						< 0.1
Xylenes - Total	230	-						< 0.3
Naphthalene (MAH)	NL	-						< 0.5

Notes:



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Austral NSW

	Criteria 1	Criteria 2	Sample ID	TP32/0-0.3	TP33/0-0.1	TP34/0-0.1	TP35/0-0.2	TP36/0.3-0.5
	HSLs - D	Management	Depth (m)	0.0-0.3	0.0-0.1	0.0-0.1	0.0-0.2	0.3-0.5
	Sand	Limits	Туре	Fill	Fill	Fill	Fill	Fill
	0 to <1 m	Comm/Ind	Date	7/03/2023	8/03/2023	6/03/2023	8/03/2023	8/03/2023
TRUCC		700					< 20	< 20
TRH C ₆ -C ₁₀	-	700					< 20	
TRH C ₆ -C ₁₀ less BTEX (F1)	260	-					< 20	< 20
$TRH > C_{10}-C_{16}$	-	1,000					< 50	< 50
TRH > C_{10} - C_{16} less Naphthalene (F2)	NL	-					< 50	< 50
$TRH > C_{16} - C_{34}$	-	3,500					< 100	< 100
TRH >C ₃₄ -C ₄₀	-	10,000					< 100	< 100
Benzene	3	-					< 0.1	< 0.1
Toluene	NL	-					< 0.1	< 0.1
Ethylbenzene	NL	-					< 0.1	< 0.1
m&p-Xylenes	-	-					< 0.2	< 0.2
o-Xylene	-	-					< 0.1	< 0.1
Xylenes - Total	230	-					< 0.3	< 0.3
Naphthalene (MAH)	NL	-					< 0.5	< 0.5

Notes:



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Austral NSW

	Criteria 1	Criteria 2	Sample ID	TP37/0-0.2	TP40/0-0.1	TP41/0-0.3	TP57/0.3-0.5	TP59/0-0.2
	HSLs - D	Management	Depth (m)	0.0-0.2	0.0-0.1	0.0-0.3	0.3-0.5	0.0-0.2
	Sand	Limits	Туре	Fill	Fill	Fill	Fill	Fill
	0 to <1 m	Comm/Ind	Date	8/03/2023	7/03/2023	8/03/2023	8/03/2023	8/03/2023
TRH C_6 - C_{10}	-	700					< 20	
TRH C ₆ -C ₁₀ less BTEX (F1)	260	-					< 20	
$TRH > C_{10} - C_{16}$	-	1,000					< 50	
TRH >C ₁₀ -C ₁₆ less Naphthalene (F2)	NL	-					< 50	
TRH > C_{16} - C_{34}	-	3,500					< 100	
TRH >C ₃₄ -C ₄₀	-	10,000					< 100	
Benzene	3	-					< 0.1	
Toluene	NL	-					< 0.1	
Ethylbenzene	NL	-					< 0.1	
m&p-Xylenes	-	-					< 0.2	
o-Xylene	-	-					< 0.1	
Xylenes - Total	230	-					< 0.3	
Naphthalene (MAH)	NL	-					< 0.5	

Notes:



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Austral NSW

	Criteria 1	Criteria 2	Sample ID	TP60/0-0.2	TRIPB1	TRIPS1	TRIPB2	TRIPS2
	HSLs - D	Management	Depth (m)	0.0-0.2	-	-	-	-
	Sand	Limits	Туре	Fill	-	-	-	-
	0 to <1 m	Comm/Ind	Date	8/03/2023	-	-	-	-
TRH C ₆ -C ₁₀	-	700			< 20	99	< 20	110
TRH C_6 - C_{10} less BTEX (F1)	260	-			< 20		< 20	
TRH >C ₁₀ -C ₁₆	-	1,000						
TRH > C_{10} - C_{16} less Naphthalene (F2)	NL	-						
TRH > C_{16} - C_{34}	-	3,500						
TRH > C_{34} - C_{40}	•	10,000						
Benzene	3	-			< 0.1	97	< 0.1	110
Toluene	NL	-			< 0.1	99	< 0.1	110
Ethylbenzene	NL	-			< 0.1	100	< 0.1	110
m&p-Xylenes	-	-			< 0.2	100	< 0.2	100
o-Xylene	-	-			< 0.1	110	< 0.1	100
Xylenes - Total	230	-			< 0.3	100	< 0.3	100
Naphthalene (MAH)	NL	-			< 0.5	91	< 0.5	100

Notes:



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Austral NSW

	Criteria 1	Criteria 2	Sample ID	R1
	HSLs - D	Management	Depth (m)	-
	Sand	Limits	Туре	-
	0 to <1 m	Comm/Ind	Date	8/03/2023
TRH C ₆ -C ₁₀	-	700		
TRH C_6 - C_{10} less BTEX (F1)	260	-		
$TRH > C_{10} - C_{16}$	-	1,000		
TRH > C_{10} - C_{16} less Naphthalene (F2)	NL	-		
TRH >C ₁₆ -C ₃₄	-	3,500		
TRH >C ₃₄ -C ₄₀	-	10,000		
Benzene	3	-		
Toluene	NL	-		
Ethylbenzene	NL	-		
m&p-Xylenes	-	-		
o-Xylene	-	-		
Xylenes - Total	230	-		
Naphthalene (MAH)	NL	-		

Notes:



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Austral NSW

Criteria 1	Sample ID	TP1/0.1-0.3	TP1/0.3-0.5	TP2/0-0.2	DS2	RPD_DS2
	Depth (m)	0.1-0.3	0.3-0.5	0.0-0.2	-	-
HILs - D	Туре	Fill	Fill	Fill	-	-
	Date	7/03/2023	7/03/2023	7/03/2023	7/03/2023	-
-		< 0.5	< 0.5	< 0.5		
-		< 0.5	< 0.5	< 0.5		
-		< 0.5	< 0.5	< 0.5		
-		< 0.5	< 0.5	< 0.5		
-		< 0.5	< 0.5	< 0.5		
-		< 0.5	< 0.5	< 0.5		
-		< 0.5	< 0.5	< 0.5		
-		< 0.5	< 0.5	< 0.5		
-		< 0.5	< 0.5	< 0.5		
-		< 0.5	< 0.5	< 0.5		
-		< 0.5	< 0.5	< 0.5		
-		< 0.5	< 0.5	< 0.5		
-		< 0.5	< 0.5	< 0.5		
-		< 0.5	< 0.5	< 0.5		
-		< 0.5	< 0.5	< 0.5		
-		< 0.5	< 0.5	< 0.5		
40		0.6	0.6	0.6		
4,000		< 0.5	< 0.5	< 0.5		
	HILS - D	Depth (m) HILS - D Type Date Date - - <td>Depth (m) 0.1-0.3 HILs - D Type Fill Date 7/03/2023 - - - <0.5</td> - <0.5	Depth (m) 0.1-0.3 HILs - D Type Fill Date 7/03/2023 - - - <0.5	Depth (m) 0.1-0.3 0.3-0.5 HILS - D Type Fill Fill Date 7/03/2023 7/03/2023 7/03/2023 - - - - - <0.5	Depth (m) 0.1-0.3 0.3-0.5 0.0-0.2 Type Fill Fill Fill Fill Date 7/03/2023 7/03/2023 7/03/2023 7/03/2023 -	Depth (m) 0.1-0.3 0.3-0.5 0.0-0.2 - HILS - D Type Fill Fill Fill Fill Fill - Date 7/03/2023

Notes:

Criteria 1 = NEPC (1999) Amended, Health-based Investigation Levels for soil contaminants.

Total concentrations in mg/kg

- = assessment criteria not available

DS2 = duplicate of TP2/0-0.2

TS2 = triplicate of TP2/0-0.2

DS1 = duplicate of TP16/0-0.2

TS1 = triplicate of TP16/0-0.2

DS3 = duplicate of TP28/0-0.2

TS3 = triplicate of TP28/0-0.2

TRIPB1 = blank sample

TRIPS1 = spike sample

TRIPB2 = blank sample

TRIPS2 = spike sample

R1 = rinsate sample

RPD = relative percent difference of duplicate/triplicate

nc = RPD not calculated, one or both samples below laboratory reporting limit

< # or ND = analyte(s) not detected in excess of laboratory reporting limit</pre>

-- = sample not analysed



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Austral NSW

	Criteria 1	Sample ID	TS2	RPD_TS2	TP3/0-0.2	TP4/0.15-0.35	TP5/0-0.2
		Depth (m)	-	-	0.0-0.2	0.15-0.35	0.0-0.2
	HILs - D	Туре	-	-	Fill	Fill	Fill
		Date	7/03/2023	-	7/03/2023	8/03/2023	8/03/2023
Acenaphthene	-				< 0.5	< 0.5	
Acenaphthylene	-				< 0.5	< 0.5	
Anthracene	-				< 0.5	< 0.5	
Benz(a)anthracene	-				< 0.5	< 0.5	
Benzo(a)pyrene	-				< 0.5	< 0.5	
Benzo(b&j)fluoranthene	-				< 0.5	< 0.5	
Benzo(g.h.i)perylene	-				< 0.5	< 0.5	
Benzo(k)fluoranthene	-				< 0.5	< 0.5	
Chrysene	-				< 0.5	< 0.5	
Dibenz(a.h)anthracene	-				< 0.5	< 0.5	
Fluoranthene	-				< 0.5	< 0.5	
Fluorene	-				< 0.5	< 0.5	
Indeno(1.2.3-cd)pyrene					< 0.5	< 0.5	
Naphthalene	-				< 0.5	< 0.5	
Phenanthrene					< 0.5	< 0.5	
Pyrene	-				< 0.5	< 0.5	
Benzo(a)pyrene TEQ	40				0.6	0.6	
Total PAH	4,000				< 0.5	< 0.5	

Notes:

Criteria 1 = NEPC (1999) Amended, Health-based Investigation Levels for soil contaminants.

Total concentrations in mg/kg

- = assessment criteria not available

DS2 = duplicate of TP2/0-0.2

TS2 = triplicate of TP2/0-0.2

DS1 = duplicate of TP16/0-0.2

TS1 = triplicate of TP16/0-0.2

DS3 = duplicate of TP28/0-0.2

TS3 = triplicate of TP28/0-0.2

TRIPB1 = blank sample

TRIPS1 = spike sample

TRIPB2 = blank sample

TRIPS2 = spike sample

R1 = rinsate sample

RPD = relative percent difference of duplicate/triplicate

nc = RPD not calculated, one or both samples below laboratory reporting limit

< # or ND = analyte(s) not detected in excess of laboratory reporting limit</pre>

-- = sample not analysed



330 - 350 Eighth Avenue

Austral NSW

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Notes:

Criteria 1 = NEPC (1999) Amended, Health-based Investigation Levels for soil contaminants.

Total concentrations in mg/kg

- = assessment criteria not available

DS2 = duplicate of TP2/0-0.2

TS2 = triplicate of TP2/0-0.2

DS1 = duplicate of TP16/0-0.2

TS1 = triplicate of TP16/0-0.2

DS3 = duplicate of TP28/0-0.2

TS3 = triplicate of TP28/0–0.2

TRIPB1 = blank sample

TRIPS1 = spike sample

TRIPB2 = blank sample

TRIPS2 = spike sample

R1 = rinsate sample

RPD = relative percent difference of duplicate/triplicate

nc = RPD not calculated, one or both samples below laboratory reporting limit

< # or ND = analyte(s) not detected in excess of laboratory reporting limit</pre>

-- = sample not analysed



330 - 350 Eighth Avenue

Austral NSW

	Criteria 1	Sample ID	TP11/0-0.2	TP12/0-0.2	TP13/0-0.2	TP14/0-0.2	TP15/0-0.2
		Depth (m)	0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.2
	HILs - D	Туре	Fill	Fill	Fill	Fill	Fill
		Date	8/03/2023	8/03/2023	8/03/2023	8/03/2023	8/03/2023
Acenaphthene				< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	-			< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	-			< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	-			< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	-			< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene	-			< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	-			< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	-			< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	•			< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	-			< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	•			< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	· ·			< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	-			< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	· ·			< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	-			< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	-			< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ	40			0.6	0.6	0.6	0.6
Total PAH	4,000			< 0.5	< 0.5	< 0.5	< 0.5

Notes:

Criteria 1 = NEPC (1999) Amended, Health-based Investigation Levels for soil contaminants.

Total concentrations in mg/kg

- = assessment criteria not available

DS2 = duplicate of TP2/0-0.2

TS2 = triplicate of TP2/0-0.2

DS1 = duplicate of TP16/0-0.2

TS1 = triplicate of TP16/0-0.2

DS3 = duplicate of TP28/0-0.2

TS3 = triplicate of TP28/0–0.2

TRIPB1 = blank sample

TRIPS1 = spike sample

TRIPB2 = blank sample

TRIPS2 = spike sample

R1 = rinsate sample

RPD = relative percent difference of duplicate/triplicate

nc = RPD not calculated, one or both samples below laboratory reporting limit

< # or ND = analyte(s) not detected in excess of laboratory reporting limit</pre>

-- = sample not analysed



330 - 350 Eighth Avenue

Austral NSW

	Criteria 1	Sample ID	TP16/0-0.2	DS1	RPD_DS1	TS1	RPD_TS1
		Depth (m)	0.0-0.2	-	-	-	-
	HILs - D	Туре	Fill	-	-	-	-
		Date	7/03/2023	7/03/2023	-	7/03/2023	-
Acenaphthene	-			< 0.5		< 0.5	
Acenaphthylene	-			< 0.5		< 0.5	
Anthracene	-			< 0.5		< 0.5	
Benz(a)anthracene	-			< 0.5		< 0.5	
Benzo(a)pyrene	-			< 0.5		< 0.5	
Benzo(b&j)fluoranthene	-			< 0.5		< 0.5	
Benzo(g.h.i)perylene	-			< 0.5		< 0.5	
Benzo(k)fluoranthene	-			< 0.5		< 0.5	
Chrysene	-			< 0.5		< 0.5	
Dibenz(a.h)anthracene	-			< 0.5		< 0.5	
Fluoranthene	-			< 0.5		< 0.5	
Fluorene	-			< 0.5		< 0.5	
Indeno(1.2.3-cd)pyrene	-			< 0.5		< 0.5	
Naphthalene	-			< 0.5		< 0.5	
Phenanthrene	-			< 0.5		< 0.5	
Pyrene	-			< 0.5		< 0.5	
Benzo(a)pyrene TEQ	40			0.6		0.6	
Total PAH	4,000			< 0.5		< 0.5	

Notes:

Criteria 1 = NEPC (1999) Amended, Health-based Investigation Levels for soil contaminants.

Total concentrations in mg/kg

- = assessment criteria not available

DS2 = duplicate of TP2/0-0.2

TS2 = triplicate of TP2/0-0.2

DS1 = duplicate of TP16/0-0.2

TS1 = triplicate of TP16/0-0.2

DS3 = duplicate of TP28/0-0.2

TS3 = triplicate of TP28/0-0.2

TRIPB1 = blank sample

TRIPS1 = spike sample

TRIPB2 = blank sample

TRIPS2 = spike sample

R1 = rinsate sample

RPD = relative percent difference of duplicate/triplicate

nc = RPD not calculated, one or both samples below laboratory reporting limit

< # or ND = analyte(s) not detected in excess of laboratory reporting limit</pre>

-- = sample not analysed



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Austral NSW

	Criteria 1	Sample ID	TP17/0-0.2	TP17/0.4-0.6	TP18/0-0.2	TP19/0-0.2	TP20/0-0.2
		Depth (m)	0.0-0.2	0.4-0.6	0.0-0.2	0.0-0.2	0.0-0.2
	HILs - D	Туре	Fill	Fill	Fill	Fill	Fill
		Date	7/03/2023	7/03/2023	7/03/2023	8/03/2023	8/03/2023
Acenaphthene	-		< 0.5	< 0.5			
Acenaphthylene	-		< 0.5	< 0.5			
Anthracene	-		< 0.5	< 0.5			
Benz(a)anthracene	-		< 0.5	< 0.5			
Benzo(a)pyrene	-		< 0.5	< 0.5			
Benzo(b&j)fluoranthene	-		< 0.5	< 0.5			
Benzo(g.h.i)perylene	-		< 0.5	< 0.5			
Benzo(k)fluoranthene	-		< 0.5	< 0.5			
Chrysene	-		< 0.5	< 0.5			
Dibenz(a.h)anthracene	-		< 0.5	< 0.5			
Fluoranthene	-		< 0.5	< 0.5			
Fluorene	·		< 0.5	< 0.5			
Indeno(1.2.3-cd)pyrene	-		< 0.5	< 0.5			
Naphthalene	-		< 0.5	< 0.5			
Phenanthrene	-		< 0.5	< 0.5			
Pyrene	-		< 0.5	< 0.5			
Benzo(a)pyrene TEQ	40		0.6	0.6			
Total PAH	4,000		< 0.5	< 0.5			

Notes:

Criteria 1 = NEPC (1999) Amended, Health-based Investigation Levels for soil contaminants.

Total concentrations in mg/kg

- = assessment criteria not available

DS2 = duplicate of TP2/0-0.2

TS2 = triplicate of TP2/0-0.2

DS1 = duplicate of TP16/0-0.2

TS1 = triplicate of TP16/0-0.2

DS3 = duplicate of TP28/0-0.2

TS3 = triplicate of TP28/0-0.2

TRIPB1 = blank sample

TRIPS1 = spike sample

TRIPB2 = blank sample

TRIPS2 = spike sample

R1 = rinsate sample

RPD = relative percent difference of duplicate/triplicate

nc = RPD not calculated, one or both samples below laboratory reporting limit

< # or ND = analyte(s) not detected in excess of laboratory reporting limit</pre>

--- = sample not analysed



Table 4 : Summary of Soil Analytical Data - Polycyclic Aromatic Hydrocarbons Detailed Site Investigation

Project No.: 2301008

330 - 350 Eighth Avenue

Austral NSW

	Criteria 1	Sample ID	TP21/0-0.2	TP22/0-0.2	TP23/0-0.2	TP24/0-0.2	TP25/0-0.1
		Depth (m)	0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.1
	HILs - D	Туре	Fill	Fill	Fill	Fill	Fill
		Date	8/03/2023	8/03/2023	8/03/2023	7/03/2023	6/03/2023
Acenaphthene	-				< 0.5		
Acenaphthylene	-				< 0.5		
Anthracene	-				< 0.5		
Benz(a)anthracene	-				< 0.5		
Benzo(a)pyrene	-				< 0.5		
Benzo(b&j)fluoranthene	· ·				< 0.5		
Benzo(g.h.i)perylene	-				< 0.5		
Benzo(k)fluoranthene	•				< 0.5		
Chrysene	-				< 0.5		
Dibenz(a.h)anthracene	· ·				< 0.5		
Fluoranthene	-				< 0.5		
Fluorene	-				< 0.5		
Indeno(1.2.3-cd)pyrene	-				< 0.5		
Naphthalene	-				< 0.5		
Phenanthrene	-				< 0.5		
Pyrene	-				< 0.5		
Benzo(a)pyrene TEQ	40				0.6		
Total PAH	4,000				< 0.5		
					0.0		

Notes:

Criteria 1 = NEPC (1999) Amended, Health-based Investigation Levels for soil contaminants.

Total concentrations in mg/kg

- = assessment criteria not available

DS2 = duplicate of TP2/0-0.2

TS2 = triplicate of TP2/0-0.2

DS1 = duplicate of TP16/0-0.2

TS1 = triplicate of TP16/0-0.2

DS3 = duplicate of TP28/0-0.2

TS3 = triplicate of TP28/0-0.2

TRIPB1 = blank sample

TRIPS1 = spike sample

TRIPB2 = blank sample

TRIPS2 = spike sample

R1 = rinsate sample

RPD = relative percent difference of duplicate/triplicate

nc = RPD not calculated, one or both samples below laboratory reporting limit

< # or ND = analyte(s) not detected in excess of laboratory reporting limit</pre>

-- = sample not analysed



Table 4 : Summary of Soil Analytical Data - Polycyclic Aromatic Hydrocarbons Detailed Site Investigation

Project No.: 2301008

330 - 350 Eighth Avenue

Austral NSW

	Criteria 1	Sample ID	TP26/0-0.2	TP27/0-0.2	TP28/0-0.2	DS3	RPD_DS3
		Depth (m)	0.0-0.2	0.0-0.2	0.0-0.2	-	-
	HILs - D	Туре	Fill	Fill	Fill	-	-
		Date	7/03/2023	8/03/2023	8/03/2023	8/03/2023	-
Acenaphthene	-				< 0.5		
Acenaphthylene	-				< 0.5		
Anthracene	-				< 0.5		
Benz(a)anthracene	-				< 0.5		
Benzo(a)pyrene	-				< 0.5		
Benzo(b&j)fluoranthene	-				< 0.5		
Benzo(g.h.i)perylene	-				< 0.5		
Benzo(k)fluoranthene	-				< 0.5		
Chrysene	-				< 0.5		
Dibenz(a.h)anthracene	-				< 0.5		
Fluoranthene	-				< 0.5		
Fluorene	-				< 0.5		
Indeno(1.2.3-cd)pyrene	-				< 0.5		
Naphthalene	-				< 0.5		
Phenanthrene	-				< 0.5		
Pyrene	-				< 0.5		
Benzo(a)pyrene TEQ	40				0.6		
Total PAH	4,000				< 0.5		
Total PAH	4,000				< 0.5		

Notes:

Criteria 1 = NEPC (1999) Amended, Health-based Investigation Levels for soil contaminants.

Total concentrations in mg/kg

- = assessment criteria not available

DS2 = duplicate of TP2/0-0.2

TS2 = triplicate of TP2/0-0.2

DS1 = duplicate of TP16/0-0.2

TS1 = triplicate of TP16/0-0.2

DS3 = duplicate of TP28/0-0.2

TS3 = triplicate of TP28/0-0.2

TRIPB1 = blank sample

TRIPS1 = spike sample

TRIPB2 = blank sample

TRIPS2 = spike sample

R1 = rinsate sample

RPD = relative percent difference of duplicate/triplicate

nc = RPD not calculated, one or both samples below laboratory reporting limit

< # or ND = analyte(s) not detected in excess of laboratory reporting limit</pre>

-- = sample not analysed



330 - 350 Eighth Avenue

Austral NSW

	Criteria 1	Sample ID	TS3	RPD_TS3	TP29/0-0.2	TP30/0-0.2	TP31/0-0.2
		Depth (m)	-	-	0.0-0.2	0.0-0.2	0.0-0.2
	HILs - D	Туре	-	-	Fill	Fill	Fill
		Date	8/03/2023	-	8/03/2023	8/03/2023	8/03/2023
Acenaphthene	-						< 0.5
Acenaphthylene	-						< 0.5
Anthracene	-						< 0.5
Benz(a)anthracene	-						< 0.5
Benzo(a)pyrene	-						< 0.5
Benzo(b&j)fluoranthene	-						< 0.5
Benzo(g.h.i)perylene	-						< 0.5
Benzo(k)fluoranthene	-						< 0.5
Chrysene	-						< 0.5
Dibenz(a.h)anthracene	-						< 0.5
Fluoranthene	-						< 0.5
Fluorene	-						< 0.5
Indeno(1.2.3-cd)pyrene	-						< 0.5
Naphthalene	-						< 0.5
Phenanthrene	-						< 0.5
Pyrene	-						< 0.5
Benzo(a)pyrene TEQ	40						0.6
Total PAH	4,000						< 0.5

Notes:

Criteria 1 = NEPC (1999) Amended, Health-based Investigation Levels for soil contaminants.

Total concentrations in mg/kg

- = assessment criteria not available

DS2 = duplicate of TP2/0-0.2

TS2 = triplicate of TP2/0-0.2

DS1 = duplicate of TP16/0-0.2

TS1 = triplicate of TP16/0-0.2

DS3 = duplicate of TP28/0-0.2

TS3 = triplicate of TP28/0-0.2

TRIPB1 = blank sample

TRIPS1 = spike sample

TRIPB2 = blank sample

TRIPS2 = spike sample

R1 = rinsate sample

RPD = relative percent difference of duplicate/triplicate

nc = RPD not calculated, one or both samples below laboratory reporting limit

< # or ND = analyte(s) not detected in excess of laboratory reporting limit</pre>

-- = sample not analysed



Table 4 : Summary of Soil Analytical Data - Polycyclic Aromatic Hydrocarbons Detailed Site Investigation

Project No.: 2301008

330 - 350 Eighth Avenue

Austral NSW

	Criteria 1	Sample ID	TP32/0-0.3	TP33/0-0.1	TP34/0-0.1	TP35/0-0.2	TP36/0.3-0.5
		Depth (m)	0.0-0.3	0.0-0.1	0.0-0.1	0.0-0.2	0.3-0.5
	HILs - D	Туре	Fill	Fill	Fill	Fill	Fill
		Date	7/03/2023	8/03/2023	6/03/2023	8/03/2023	8/03/2023
Acenaphthene	-					< 0.5	< 0.5
Acenaphthylene	-					< 0.5	< 0.5
Anthracene	-					< 0.5	< 0.5
Benz(a)anthracene	-					< 0.5	< 0.5
Benzo(a)pyrene	-					< 0.5	< 0.5
Benzo(b&j)fluoranthene	-					< 0.5	< 0.5
Benzo(g.h.i)perylene	-					< 0.5	< 0.5
Benzo(k)fluoranthene	-					< 0.5	< 0.5
Chrysene	-					< 0.5	< 0.5
Dibenz(a.h)anthracene	-					< 0.5	< 0.5
Fluoranthene	-					< 0.5	< 0.5
Fluorene	-					< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	-					< 0.5	< 0.5
Naphthalene	-					< 0.5	< 0.5
Phenanthrene	-					< 0.5	< 0.5
Pyrene	-					< 0.5	< 0.5
Benzo(a)pyrene TEQ	40					0.6	0.6
Total PAH	4,000					< 0.5	< 0.5

Notes:

Criteria 1 = NEPC (1999) Amended, Health-based Investigation Levels for soil contaminants.

Total concentrations in mg/kg

- = assessment criteria not available

DS2 = duplicate of TP2/0-0.2

TS2 = triplicate of TP2/0-0.2

DS1 = duplicate of TP16/0-0.2

TS1 = triplicate of TP16/0-0.2

DS3 = duplicate of TP28/0-0.2

TS3 = triplicate of TP28/0-0.2

TRIPB1 = blank sample

TRIPS1 = spike sample

TRIPB2 = blank sample

TRIPS2 = spike sample

R1 = rinsate sample

RPD = relative percent difference of duplicate/triplicate

nc = RPD not calculated, one or both samples below laboratory reporting limit

< # or ND = analyte(s) not detected in excess of laboratory reporting limit</pre>

-- = sample not analysed



Table 4 : Summary of Soil Analytical Data - Polycyclic Aromatic Hydrocarbons Detailed Site Investigation

Project No.: 2301008

330 - 350 Eighth Avenue

Austral NSW

	Criteria 1	Sample ID	TP37/0-0.2	TP40/0-0.1	TP41/0-0.3	TP57/0.3-0.5	TP59/0-0.2
		Depth (m)	0.0-0.2	0.0-0.1	0.0-0.3	0.3-0.5	0.0-0.2
	HILs - D	Туре	Fill	Fill	Fill	Fill	Fill
		Date	8/03/2023	7/03/2023	8/03/2023	8/03/2023	8/03/2023
Acenaphthene	-					< 0.5	
Acenaphthylene	-					< 0.5	
Anthracene	-					< 0.5	
Benz(a)anthracene	-					< 0.5	
Benzo(a)pyrene	-					< 0.5	
Benzo(b&j)fluoranthene	-					< 0.5	
Benzo(g.h.i)perylene	-					< 0.5	
Benzo(k)fluoranthene	-					< 0.5	
Chrysene	-					< 0.5	
Dibenz(a.h)anthracene	-					< 0.5	
Fluoranthene	-					< 0.5	
Fluorene	-					< 0.5	
Indeno(1.2.3-cd)pyrene	-					< 0.5	
Naphthalene	-					< 0.5	
Phenanthrene	-					< 0.5	
Pyrene	-					< 0.5	
Benzo(a)pyrene TEQ	40					0.6	
Total PAH	4,000					< 0.5	

Notes:

Criteria 1 = NEPC (1999) Amended, Health-based Investigation Levels for soil contaminants.

Total concentrations in mg/kg

- = assessment criteria not available

DS2 = duplicate of TP2/0-0.2

TS2 = triplicate of TP2/0-0.2

DS1 = duplicate of TP16/0-0.2

TS1 = triplicate of TP16/0-0.2

DS3 = duplicate of TP28/0-0.2

TS3 = triplicate of TP28/0-0.2

TRIPB1 = blank sample

TRIPS1 = spike sample

TRIPB2 = blank sample

TRIPS2 = spike sample

R1 = rinsate sample

RPD = relative percent difference of duplicate/triplicate

nc = RPD not calculated, one or both samples below laboratory reporting limit

< # or ND = analyte(s) not detected in excess of laboratory reporting limit</pre>

-- = sample not analysed



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Austral NSW

	Criteria 1	Sample ID	TP60/0-0.2	TRIPB1	TRIPS1	TRIPB2	TRIPS2
		Depth (m)	0.0-0.2	-	-	-	-
	HILs - D	Туре	Fill	-	-	-	-
		Date	8/03/2023	-	-	-	-
Acenaphthene	-						
Acenaphthylene	-						
Anthracene	-						
Benz(a)anthracene	-						
Benzo(a)pyrene	-						
Benzo(b&j)fluoranthene	-						
Benzo(g.h.i)perylene	-						
Benzo(k)fluoranthene	-						
Chrysene	-						
Dibenz(a.h)anthracene	-						
Fluoranthene	-						
Fluorene	-						
Indeno(1.2.3-cd)pyrene	-						
Naphthalene	-						
Phenanthrene	-						
Pyrene	-						
Benzo(a)pyrene TEQ	40						
Total PAH	4,000						

Notes:

Criteria 1 = NEPC (1999) Amended, Health-based Investigation Levels for soil contaminants.

Total concentrations in mg/kg

- = assessment criteria not available

DS2 = duplicate of TP2/0-0.2

TS2 = triplicate of TP2/0-0.2

DS1 = duplicate of TP16/0-0.2

TS1 = triplicate of TP16/0-0.2

DS3 = duplicate of TP28/0-0.2

TS3 = triplicate of TP28/0-0.2

TRIPB1 = blank sample

TRIPS1 = spike sample

TRIPB2 = blank sample

TRIPS2 = spike sample

R1 = rinsate sample

RPD = relative percent difference of duplicate/triplicate

nc = RPD not calculated, one or both samples below laboratory reporting limit

< # or ND = analyte(s) not detected in excess of laboratory reporting limit</pre>

-- = sample not analysed



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Austral NSW

	Criteria 1	Sample ID R1
		Depth (m) -
	HILs - D	Type -
		Date 8/03/2023
Acenaphthene	-	
Acenaphthylene	-	-
Anthracene	-	-
Benz(a)anthracene	-	-
Benzo(a)pyrene	-	-
Benzo(b&j)fluoranthene	· ·	-
Benzo(g.h.i)perylene	-	-
Benzo(k)fluoranthene	-	
Chrysene	· ·	
Dibenz(a.h)anthracene	-	-
Fluoranthene	-	
Fluorene	- ·	
Indeno(1.2.3-cd)pyrene	-	
Naphthalene	- ·	
Phenanthrene	-	
Pyrene	-	
Benzo(a)pyrene TEQ	40	
Total PAH	4,000	

Notes:

Criteria 1 = NEPC (1999) Amended, Health-based Investigation Levels for soil contaminants.

Total concentrations in mg/kg

- = assessment criteria not available

DS2 = duplicate of TP2/0-0.2

TS2 = triplicate of TP2/0-0.2

DS1 = duplicate of TP16/0-0.2

TS1 = triplicate of TP16/0-0.2

DS3 = duplicate of TP28/0-0.2

TS3 = triplicate of TP28/0-0.2

TRIPB1 = blank sample

TRIPS1 = spike sample

TRIPB2 = blank sample

TRIPS2 = spike sample

R1 = rinsate sample

RPD = relative percent difference of duplicate/triplicate

nc = RPD not calculated, one or both samples below laboratory reporting limit

< # or ND = analyte(s) not detected in excess of laboratory reporting limit</pre>

-- = sample not analysed



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Austral NSW

	Criteria 1	Sample ID	TP1/0.1-0.3	TP1/0.3-0.5	TP2/0-0.2	DS2	RPD_DS2
		Depth (m)	0.1-0.3	0.3-0.5	0.0-0.2	-	-
	HILs - D	Туре	Fill	Fill	Fill	-	-
		Date	7/03/2023	7/03/2023	7/03/2023	7/03/2023	-
Aroclor 1016	-				< 0.1		
Aroclor 1221	-				< 0.1		
Aroclor 1232	-				< 0.1		
Aroclor 1242	-				< 0.1		
Aroclor 1248	-				< 0.1		
Aroclor 1254	-				< 0.1		
Aroclor 1260	-				< 0.1		
Total PCBs	7				< 0.1		

10000.	
Criteria 1 = NEPC (1999) Amended, Health-based Investigation Levels for soil contaminants.	TRIPS2 = spike sample
Total concentrations in mg/kg	R1 = rinsate sample
– = assessment criteria not available	RPD = relative percent difference of duplicate/triplicate
DS2 = duplicate of TP2/0-0.2	nc = RPD not calculated, one or both samples below laboratory reporting limit
TS2 = triplicate of TP2/0-0.2	< # or ND = analyte(s) not detected in excess of laboratory reporting limit
DS1 = duplicate of TP16/0-0.2	= sample not analysed
TS1 = triplicate of TP16/0-0.2	Bold/red indicates exceedance of assessment criteria
DS3 = duplicate of TP28/0-0.2	
TS3 = triplicate of TP28/0-0.2	
TRIPB1 = blank sample	
TRIPS1 = spike sample	
TRIPB2 = blank sample	



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Austral NSW

	Criteria 1	Sample ID	TS2	RPD_TS2	TP3/0-0.2	TP4/0.15-0.35	TP5/0-0.2
		Depth (m)	-	-	0.0-0.2	0.15-0.35	0.0-0.2
	HILs - D	Туре	-	-	Fill	Fill	Fill
		Date	7/03/2023	-	7/03/2023	8/03/2023	8/03/2023
Aroclor 1016	-						
Aroclor 1221	-						
Aroclor 1232	-						
Aroclor 1242	-						
Aroclor 1248	-						
Aroclor 1254	-						
Aroclor 1260	-						
Total PCBs	7						

1003.	
Criteria 1 = NEPC (1999) Amended, Health-based Investigation Levels for soil contaminants.	TRIPS2 = spike sample
Total concentrations in mg/kg	R1 = rinsate sample
- = assessment criteria not available	RPD = relative percent difference of duplicate/triplicate
DS2 = duplicate of TP2/0-0.2	nc = RPD not calculated, one or both samples below laboratory reporting limit
TS2 = triplicate of TP2/0-0.2	<pre>< # or ND = analyte(s) not detected in excess of laboratory reporting limit</pre>
DS1 = duplicate of TP16/0-0.2	= sample not analysed
TS1 = triplicate of TP16/0-0.2	Bold/red indicates exceedance of assessment criteria
DS3 = duplicate of TP28/0-0.2	
TS3 = triplicate of TP28/0-0.2	
TRIPB1 = blank sample	
TRIPS1 = spike sample	
TRIPB2 = blank sample	



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Austral NSW

	Criteria 1	Sample ID	TP6/0.2-0.4	TP7/0-0.2	TP8/0.15-0.35	TP9/0-0.3	TP10/0-0.2
		Depth (m)	0.2-0.4	0.0-0.2	0.15-0.35	0.0-0.3	0.0-0.2
	HILs - D	Туре	Fill	Fill	Fill	Fill	Fill
		Date	8/03/2023	7/03/2023	7/03/2023	7/03/2023	6/03/2023
Aroclor 1016	-				< 0.1		
Aroclor 1221	-				< 0.1		
Aroclor 1232	-				< 0.1		
Aroclor 1242	-				< 0.1		
Aroclor 1248	-				< 0.1		
Aroclor 1254	-				< 0.1		
Aroclor 1260	-				< 0.1		
Total PCBs	7				< 0.1		

Notes.	
Criteria 1 = NEPC (1999) Amended, Health-based Investigation Levels for soil contaminants.	TRIPS2 = spike sample
Total concentrations in mg/kg	R1 = rinsate sample
– = assessment criteria not available	RPD = relative percent difference of duplicate/triplicate
DS2 = duplicate of TP2/0-0.2	nc = RPD not calculated, one or both samples below laboratory reporting limit
TS2 = triplicate of TP2/0-0.2	< # or ND = analyte(s) not detected in excess of laboratory reporting limit
DS1 = duplicate of TP16/0-0.2	= sample not analysed
TS1 = triplicate of TP16/0-0.2	Bold/red indicates exceedance of assessment criteria
DS3 = duplicate of TP28/0-0.2	
TS3 = triplicate of TP28/0-0.2	
TRIPB1 = blank sample	
TRIPS1 = spike sample	
TRIPB2 = blank sample	



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Austral NSW

	Criteria 1	Sample ID	TP11/0-0.2	TP12/0-0.2	TP13/0-0.2	TP14/0-0.2	TP15/0-0.2
		Depth (m)	0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.2
	HILs - D	Туре	Fill	Fill	Fill	Fill	Fill
		Date	8/03/2023	8/03/2023	8/03/2023	8/03/2023	8/03/2023
Aroclor 1016	-				< 0.1		< 0.1
Aroclor 1221	-				< 0.1		< 0.1
Aroclor 1232	-				< 0.1		< 0.1
Aroclor 1242	-				< 0.1		< 0.1
Aroclor 1248	-				< 0.1		< 0.1
Aroclor 1254	-				< 0.1		< 0.1
Aroclor 1260	-				< 0.1		< 0.1
Total PCBs	7				< 0.1		< 0.1

TRIPS2 = spike sample
R1 = rinsate sample
RPD = relative percent difference of duplicate/triplicate
nc = RPD not calculated, one or both samples below laboratory reporting limit
< # or ND = analyte(s) not detected in excess of laboratory reporting limit
= sample not analysed
Bold/red indicates exceedance of assessment criteria



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Austral NSW

	Criteria 1	Sample ID	TP16/0-0.2	DS1	RPD_DS1	TS1	RPD_TS1
		Depth (m)	0.0-0.2	-	-	-	-
	HILs - D	Туре	Fill	-	-	-	-
		Date	7/03/2023	7/03/2023	-	7/03/2023	-
Aroclor 1016	-						
Aroclor 1221	-						
Aroclor 1232	-						
Aroclor 1242	· ·						
Aroclor 1248	-						
Aroclor 1254	-						
Aroclor 1260	-						
Total PCBs	7						

Criteria 1 = NEPC (1999) Amended, Health-based Investigation Levels for soil contaminants.	TRIPS2 = spike sample
Total concentrations in mg/kg	R1 = rinsate sample
- = assessment criteria not available	RPD = relative percent difference of duplicate/triplicate
DS2 = duplicate of TP2/0-0.2	nc = RPD not calculated, one or both samples below laboratory reporting limit
TS2 = triplicate of TP2/0-0.2	<pre>< # or ND = analyte(s) not detected in excess of laboratory reporting limit</pre>
DS1 = duplicate of TP16/0-0.2	= sample not analysed
TS1 = triplicate of TP16/0-0.2	Bold/red indicates exceedance of assessment criteria
DS3 = duplicate of TP28/0-0.2	
TS3 = triplicate of TP28/0-0.2	
TRIPB1 = blank sample	
TRIPS1 = spike sample	
TRIPB2 = blank sample	



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Austral NSW

	Criteria 1	Sample ID	TP17/0-0.2	TP17/0.4-0.6	TP18/0-0.2	TP19/0-0.2	TP20/0-0.2
		Depth (m)	0.0-0.2	0.4-0.6	0.0-0.2	0.0-0.2	0.0-0.2
	HILs - D	Туре	Fill	Fill	Fill	Fill	Fill
		Date	7/03/2023	7/03/2023	7/03/2023	8/03/2023	8/03/2023
Aroclor 1016	-						
Aroclor 1221	-						
Aroclor 1232	-						
Aroclor 1242	-						
Aroclor 1248	-						
Aroclor 1254	-						
Aroclor 1260	-						
Total PCBs	7						

1003.	
Criteria 1 = NEPC (1999) Amended, Health-based Investigation Levels for soil contaminants.	TRIPS2 = spike sample
Total concentrations in mg/kg	R1 = rinsate sample
- = assessment criteria not available	RPD = relative percent difference of duplicate/triplicate
DS2 = duplicate of TP2/0-0.2	nc = RPD not calculated, one or both samples below laboratory reporting limit
TS2 = triplicate of TP2/0-0.2	<pre>< # or ND = analyte(s) not detected in excess of laboratory reporting limit</pre>
DS1 = duplicate of TP16/0-0.2	= sample not analysed
TS1 = triplicate of TP16/0-0.2	Bold/red indicates exceedance of assessment criteria
DS3 = duplicate of TP28/0-0.2	
TS3 = triplicate of TP28/0-0.2	
TRIPB1 = blank sample	
TRIPS1 = spike sample	
TRIPB2 = blank sample	



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Austral NSW

	Criteria 1	Sample ID	TP21/0-0.2	TP22/0-0.2	TP23/0-0.2	TP24/0-0.2	TP25/0-0.1
		Depth (m)	0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.1
	HILs - D	Туре	Fill	Fill	Fill	Fill	Fill
		Date	8/03/2023	8/03/2023	8/03/2023	7/03/2023	6/03/2023
Aroclor 1016	-						
Aroclor 1221	-						
Aroclor 1232	-						
Aroclor 1242	-						
Aroclor 1248	-						
Aroclor 1254	-						
Aroclor 1260	-						
Total PCBs	7						

1003.	
Criteria 1 = NEPC (1999) Amended, Health-based Investigation Levels for soil contaminants.	TRIPS2 = spike sample
Total concentrations in mg/kg	R1 = rinsate sample
- = assessment criteria not available	RPD = relative percent difference of duplicate/triplicate
DS2 = duplicate of TP2/0-0.2	nc = RPD not calculated, one or both samples below laboratory reporting limit
TS2 = triplicate of TP2/0-0.2	<pre>< # or ND = analyte(s) not detected in excess of laboratory reporting limit</pre>
DS1 = duplicate of TP16/0-0.2	= sample not analysed
TS1 = triplicate of TP16/0-0.2	Bold/red indicates exceedance of assessment criteria
DS3 = duplicate of TP28/0-0.2	
TS3 = triplicate of TP28/0-0.2	
TRIPB1 = blank sample	
TRIPS1 = spike sample	
TRIPB2 = blank sample	



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Austral NSW

	Criteria 1	Sample ID	TP26/0-0.2	TP27/0-0.2	TP28/0-0.2	DS3	RPD_DS3
		Depth (m)	0.0-0.2	0.0-0.2	0.0-0.2	-	-
	HILs - D	Туре	Fill	Fill	Fill	-	-
		Date	7/03/2023	8/03/2023	8/03/2023	8/03/2023	-
Aroclor 1016	-						
Aroclor 1221	-						
Aroclor 1232	-						
Aroclor 1242	-						
Aroclor 1248	-						
Aroclor 1254	-						
Aroclor 1260	-						
Total PCBs	7						

1003.	
Criteria 1 = NEPC (1999) Amended, Health-based Investigation Levels for soil contaminants.	TRIPS2 = spike sample
Total concentrations in mg/kg	R1 = rinsate sample
- = assessment criteria not available	RPD = relative percent difference of duplicate/triplicate
DS2 = duplicate of TP2/0-0.2	nc = RPD not calculated, one or both samples below laboratory reporting limit
TS2 = triplicate of TP2/0-0.2	<pre>< # or ND = analyte(s) not detected in excess of laboratory reporting limit</pre>
DS1 = duplicate of TP16/0-0.2	= sample not analysed
TS1 = triplicate of TP16/0-0.2	Bold/red indicates exceedance of assessment criteria
DS3 = duplicate of TP28/0-0.2	
TS3 = triplicate of TP28/0-0.2	
TRIPB1 = blank sample	
TRIPS1 = spike sample	
TRIPB2 = blank sample	



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Austral NSW

	Criteria 1	Sample ID	TS3	RPD_TS3	TP29/0-0.2	TP30/0-0.2	TP31/0-0.2
		Depth (m)	-	-	0.0-0.2	0.0-0.2	0.0-0.2
	HILs - D	Туре	-	-	Fill	Fill	Fill
		Date	8/03/2023	-	8/03/2023	8/03/2023	8/03/2023
Aroclor 1016	-						
Aroclor 1221	-						
Aroclor 1232	-						
Aroclor 1242	-						
Aroclor 1248	-						
Aroclor 1254	-						
Aroclor 1260	-						
Total PCBs	7						

Criteria 1 = NEPC (1999) Amended, Health-based Investigation Levels for soil contaminants.	TRIPS2 = spike sample
Total concentrations in mg/kg	R1 = rinsate sample
– = assessment criteria not available	RPD = relative percent difference of duplicate/triplicate
DS2 = duplicate of TP2/0-0.2	nc = RPD not calculated, one or both samples below laboratory reporting limit
TS2 = triplicate of TP2/0-0.2	<pre>< # or ND = analyte(s) not detected in excess of laboratory reporting limit</pre>
DS1 = duplicate of TP16/0-0.2	= sample not analysed
TS1 = triplicate of TP16/0-0.2	Bold/red indicates exceedance of assessment criteria
DS3 = duplicate of TP28/0-0.2	
TS3 = triplicate of TP28/0-0.2	
TRIPB1 = blank sample	
TRIPS1 = spike sample	
TRIPB2 = blank sample	



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Austral NSW

	Criteria 1	Sample ID	TP32/0-0.3	TP33/0-0.1	TP34/0-0.1	TP35/0-0.2	TP36/0.3-0.5
		Depth (m)	0.0-0.3	0.0-0.1	0.0-0.1	0.0-0.2	0.3-0.5
	HILs - D	Туре	Fill	Fill	Fill	Fill	Fill
		Date	7/03/2023	8/03/2023	6/03/2023	8/03/2023	8/03/2023
Aroclor 1016	-						
Aroclor 1221	-						
Aroclor 1232	-						
Aroclor 1242	-						
Aroclor 1248	-						
Aroclor 1254	-						
Aroclor 1260	-						
Total PCBs	7						

1003.	
Criteria 1 = NEPC (1999) Amended, Health-based Investigation Levels for soil contaminants.	TRIPS2 = spike sample
Total concentrations in mg/kg	R1 = rinsate sample
- = assessment criteria not available	RPD = relative percent difference of duplicate/triplicate
DS2 = duplicate of TP2/0-0.2	nc = RPD not calculated, one or both samples below laboratory reporting limit
TS2 = triplicate of TP2/0-0.2	<pre>< # or ND = analyte(s) not detected in excess of laboratory reporting limit</pre>
DS1 = duplicate of TP16/0-0.2	= sample not analysed
TS1 = triplicate of TP16/0-0.2	Bold/red indicates exceedance of assessment criteria
DS3 = duplicate of TP28/0-0.2	
TS3 = triplicate of TP28/0-0.2	
TRIPB1 = blank sample	
TRIPS1 = spike sample	
TRIPB2 = blank sample	



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Austral NSW

	Criteria 1	Sample ID	TP37/0-0.2	TP40/0-0.1	TP41/0-0.3	TP57/0.3-0.5	TP59/0-0.2
		Depth (m)	0.0-0.2	0.0-0.1	0.0-0.3	0.3-0.5	0.0-0.2
	HILs - D	Туре	Fill	Fill	Fill	Fill	Fill
		Date	8/03/2023	7/03/2023	8/03/2023	8/03/2023	8/03/2023
Aroclor 1016	-					< 0.1	
Aroclor 1221	-					< 0.1	
Aroclor 1232	-					< 0.1	
Aroclor 1242	-					< 0.1	
Aroclor 1248	-					< 0.1	
Aroclor 1254	-					< 0.1	
Aroclor 1260	-					< 0.1	
Total PCBs	7					< 0.1	

1000	
Criteria 1 = NEPC (1999) Amended, Health-based Investigation Levels for soil contaminants.	TRIPS2 = spike sample
Total concentrations in mg/kg	R1 = rinsate sample
– = assessment criteria not available	RPD = relative percent difference of duplicate/triplicate
DS2 = duplicate of TP2/0-0.2	nc = RPD not calculated, one or both samples below laboratory reporting limit
TS2 = triplicate of TP2/0-0.2	< # or ND = analyte(s) not detected in excess of laboratory reporting limit
DS1 = duplicate of TP16/0-0.2	= sample not analysed
TS1 = triplicate of TP16/0-0.2	Bold/red indicates exceedance of assessment criteria
DS3 = duplicate of TP28/0-0.2	
TS3 = triplicate of TP28/0-0.2	
TRIPB1 = blank sample	
TRIPS1 = spike sample	
TRIPB2 = blank sample	



Table 5 : Summary of Soil Analytical Data - Polychlorinated BiphenylsDetailed Site InvestigationProject No.: 2301008

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Austral NSW

	Criteria 1	Sample ID	TP60/0-0.2	TRIPB1	TRIPS1	TRIPB2	TRIPS2
		Depth (m)	0.0-0.2	-	-	-	-
	HILs - D	Туре	Fill	-	-	-	-
		Date	8/03/2023	-	-	-	-
Aroclor 1016	-						
Aroclor 1221	-						
Aroclor 1232	-						
Aroclor 1242	-						
Aroclor 1248	-						
Aroclor 1254	-						
Aroclor 1260	-						
Total PCBs	7						

Criteria 1 = NEPC (1999) Amended, Health-based Investigation Levels for soil contaminants.	TRIPS2 = spike sample
Total concentrations in mg/kg	R1 = rinsate sample
– = assessment criteria not available	RPD = relative percent difference of duplicate/triplicate
DS2 = duplicate of TP2/0-0.2	nc = RPD not calculated, one or both samples below laboratory reporting limit
TS2 = triplicate of TP2/0-0.2	<pre>< # or ND = analyte(s) not detected in excess of laboratory reporting limit</pre>
DS1 = duplicate of TP16/0-0.2	= sample not analysed
TS1 = triplicate of TP16/0-0.2	Bold/red indicates exceedance of assessment criteria
DS3 = duplicate of TP28/0-0.2	
TS3 = triplicate of TP28/0-0.2	
TRIPB1 = blank sample	
TRIPS1 = spike sample	
TRIPB2 = blank sample	



Table 5 : Summary of Soil Analytical Data - Polychlorinated BiphenylsDetailed Site InvestigationProject No.: 2301008

330 - 350 Eighth Avenue

Austral NSW

	Criteria 1	Sample ID R1
		Depth (m) -
	HILs - D	Type -
		Date 8/03/2023
Aroclor 1016	-	
Aroclor 1221	-	
Aroclor 1232	-	
Aroclor 1242	-	
Aroclor 1248	-	
Aroclor 1254	-	
Aroclor 1260	-	
Total PCBs	7	

Notice.	
Criteria 1 = NEPC (1999) Amended, Health-based Investigation Levels for soil contaminants.	TRIPS2 = spike sample
Total concentrations in mg/kg	R1 = rinsate sample
- = assessment criteria not available	RPD = relative percent difference of duplicate/triplicate
DS2 = duplicate of TP2/0-0.2	nc = RPD not calculated, one or both samples below laboratory reporting limit
TS2 = triplicate of TP2/0-0.2	<pre>< # or ND = analyte(s) not detected in excess of laboratory reporting limit</pre>
DS1 = duplicate of TP16/0-0.2	= sample not analysed
TS1 = triplicate of TP16/0-0.2	Bold/red indicates exceedance of assessment criteria
DS3 = duplicate of TP28/0-0.2	
TS3 = triplicate of TP28/0-0.2	
TRIPB1 = blank sample	
TRIPS1 = spike sample	
TRIPB2 = blank sample	



	Criteria 1	Criteria 2						
	Asbestos	Asbestos						
	HSL D - >0.1m	HSL D - Surface	Sample ID	TP56/0-0.2	TP48/0-0.2	TP14/0-0.2	TP55/0-0.2	TP12/0-0.2
		(Top 10 cm)	Date	8/03/2023	8/03/2023	8/03/2023	8/03/2023	8/03/2023
Approximate Sample Mass (kg)^	-	-		16	16	16	16	16
Mass ACM (g)*	-	ND		ND	ND	ND	ND	ND
Mass Asbestos in ACM (g)*	-	-		ND	ND	ND	ND	ND
Asbestos from ACM in Soil (%w/w)*	0.05	-		ND	ND	ND	ND	ND
Approximate Sample Mass (g)	-	-		802	700	838	782	815
Mass ACM (g)**	-	ND						
Mass Asbestos in ACM (g)**	-	-						
Asbestos from ACM in Soil (%w/w)**	0.05	-						
Mass FA (g)	-	ND		ND	ND	ND	ND	ND
Mass Asbestos in FA (g)	-	-		ND	ND	ND	ND	ND
Mass AF (g)	-	ND		ND	ND	ND	ND	ND
Mass Asbestos in AF (g)	-	-		ND	ND	ND	ND	ND
Mass Asbestos in FA & AF (g)	-	-		ND	ND	ND	ND	ND
Asbestos from FA & AF in Soil (%w/w)	0.001	•		ND	ND	ND	ND	ND

Notes:

Criteria 1 = NEPC (1999) Amended, Health Screening Levels for asbestos contamination in soil.

Total concentrations in g

- = assessment criteria not available

< # or ND = analyte(s) not detected in excess of laboratory reporting limit

-- = sample not analysed

Bold/red indicates exceedance of assessment criteria

^ soil density assumed to be 1.6 kg/L

* Field gravemetric data for 10L bulk sample ACM %w/w

** Laboratory data for 500mL sample bag for ACM %w/w

ACM = Bonded Asbestos Containing Material

FA = Fibrous Asbestos

AF = Asbestos Fines



	Criteria 1	Criteria 2						
	Asbestos	Asbestos						
	HSL D - >0.1m	HSL D - Surface	Sample ID	TP57/0-0.15	TP6/0-0.2	TP46/0-0.2	TP43/0-0.2	TP47/0-0.2
		(Top 10 cm)	Date	8/03/2023	8/03/2023	8/03/2023	8/03/2023	8/03/2023
Approximate Sample Mass (kg)^	-	-		16	16	16	16	16
Mass ACM (g)*	-	ND		ND	ND	ND	ND	ND
Mass Asbestos in ACM (g)*	-	-		ND	ND	ND	ND	ND
Asbestos from ACM in Soil (%w/w)*	0.05	-		ND	ND	ND	ND	ND
Approximate Sample Mass (g)	-	-		607	724	617	704	795
Mass ACM (g)**	-	ND						
Mass Asbestos in ACM (g)**	-	-						
Asbestos from ACM in Soil (%w/w)**	0.05	-						
Mass FA (g)	-	ND		ND	ND	ND	ND	ND
Mass Asbestos in FA (g)	-	-		ND	ND	ND	ND	ND
Mass AF (g)	-	ND		ND	ND	ND	ND	ND
Mass Asbestos in AF (g)	-	-		ND	ND	ND	ND	ND
Mass Asbestos in FA & AF (g)	-	-		ND	ND	ND	ND	ND
Asbestos from FA & AF in Soil (%w/w)	0.001	-		ND	ND	ND	ND	ND

Criteria 1 = NEPC (1999) Amended, Health Screening Levels for asbestos contamination in soil.

Total concentrations in g

- = assessment criteria not available

< # or ND = analyte(s) not detected in excess of laboratory reporting limit

-- = sample not analysed

Bold/red indicates exceedance of assessment criteria

^ soil density assumed to be 1.6 kg/L

* Field gravemetric data for 10L bulk sample ACM %w/w

** Laboratory data for 500mL sample bag for ACM %w/w

ACM = Bonded Asbestos Containing Material

FA = Fibrous Asbestos



	Criteria 1	Criteria 2						
	Asbestos	Asbestos						
	HSL D - >0.1m	HSL D - Surface	Sample ID	TP49/0-0.2	TP50/0-0.2	TP10/0-0.2	TP45/0-0.2	TP9/0-0.3
		(Top 10 cm)	Date	8/03/2023	8/03/2023	6/03/2023	6/03/2023	7/03/2023
Approximate Sample Mass (kg)^	-	-		16	16	16	16	16
Mass ACM (g)*	-	ND		ND	ND	ND	ND	ND
Mass Asbestos in ACM (g)*	-	-		ND	ND	ND	ND	ND
Asbestos from ACM in Soil (%w/w)*	0.05	-		ND	ND	ND	ND	ND
Approximate Sample Mass (g)	-	-		820	928	501	545	742
Mass ACM (g)**	-	ND						
Mass Asbestos in ACM (g)**	-	-						
Asbestos from ACM in Soil (%w/w)**	0.05	-						
Mass FA (g)	-	ND		ND	0.02	ND	ND	ND
Mass Asbestos in FA (g)	-	-		ND	0.005	ND	ND	ND
Mass AF (g)	-	ND		ND	0.22	ND	ND	ND
Mass Asbestos in AF (g)	-	-		ND	0.022	ND	ND	ND
Mass Asbestos in FA & AF (g)	-	-		ND	0.027	ND	ND	ND
Asbestos from FA & AF in Soil (%w/w)	0.001	-		ND	0.0029	ND	ND	ND

Criteria 1 = NEPC (1999) Amended, Health Screening Levels for asbestos contamination in soil.

Total concentrations in g

- = assessment criteria not available

< # or ND = analyte(s) not detected in excess of laboratory reporting limit

-- = sample not analysed

Bold/red indicates exceedance of assessment criteria

^ soil density assumed to be 1.6 kg/L

* Field gravemetric data for 10L bulk sample ACM %w/w

** Laboratory data for 500mL sample bag for ACM %w/w

ACM = Bonded Asbestos Containing Material

FA = Fibrous Asbestos



	Criteria 1	Criteria 2						
	Asbestos	Asbestos						
	HSL D - >0.1m	HSL D - Surface	Sample ID	TP52/0-0.5	TP1/0.3-0.5	TP44/0.15-0.35	TP51/0-0.3	TP2/0-0.7
		(Top 10 cm)	Date	7/03/2023	7/03/2023	7/03/2023	7/03/2023	7/03/2023
Approximate Sample Mass (kg) ^A	-	-		16	16	16	16	16
Mass ACM (g)*	-	ND		ND	ND	ND	ND	ND
Mass Asbestos in ACM (g)*	-	-		ND	ND	ND	ND	ND
Asbestos from ACM in Soil (%w/w)*	0.05	-		ND	ND	ND	ND	ND
Approximate Sample Mass (g)	-	-		628	703	593	721	754
Mass ACM (g)**	-	ND						
Mass Asbestos in ACM (g)**	-	-						
Asbestos from ACM in Soil (%w/w)**	0.05	-						
Mass FA (g)	-	ND		ND	ND	ND	ND	ND
Mass Asbestos in FA (g)	-	-		ND	ND	ND	ND	ND
Mass AF (g)	-	ND		ND	ND	ND	ND	ND
Mass Asbestos in AF (g)	-	-		ND	ND	ND	ND	ND
Mass Asbestos in FA & AF (g)	-	-		ND	ND	ND	ND	ND
Asbestos from FA & AF in Soil (%w/w)	0.001	-		ND	ND	ND	ND	ND

Criteria 1 = NEPC (1999) Amended, Health Screening Levels for asbestos contamination in soil.

Total concentrations in g

- = assessment criteria not available

< # or ND = analyte(s) not detected in excess of laboratory reporting limit

-- = sample not analysed

Bold/red indicates exceedance of assessment criteria

^ soil density assumed to be 1.6 kg/L

* Field gravemetric data for 10L bulk sample ACM %w/w

** Laboratory data for 500mL sample bag for ACM %w/w

ACM = Bonded Asbestos Containing Material

FA = Fibrous Asbestos



	Criteria 1	Criteria 2						
	Asbestos	Asbestos						
	HSL D - >0.1m	HSL D - Surface	Sample ID	TP38/0-0.6	TP8/0.15-1	TP39/0-0.6	TP7/0-0.4	TP42/0-0.3
		(Top 10 cm)	Date	7/03/2023	7/03/2023	7/03/2023	7/03/2023	7/03/2023
Approximate Sample Mass (kg)^	-	-		16	16	16	16	16
Mass ACM (g)*	-	ND		ND	ND	ND	ND	ND
Mass Asbestos in ACM (g)*	-	-		ND	ND	ND	ND	ND
Asbestos from ACM in Soil (%w/w)*	0.05	-		ND	ND	ND	ND	ND
Approximate Sample Mass (g)	-	-		780	592	696	670	503
Mass ACM (g)**	-	ND						
Mass Asbestos in ACM (g)**	-	-						
Asbestos from ACM in Soil (%w/w)**	0.05	-						
Mass FA (g)	-	ND		ND	ND	ND	ND	ND
Mass Asbestos in FA (g)	-	-		ND	ND	ND	ND	ND
Mass AF (g)	-	ND		ND	ND	ND	ND	ND
Mass Asbestos in AF (g)	-	-		ND	ND	ND	ND	ND
Mass Asbestos in FA & AF (g)	-	-		ND	ND	ND	ND	ND
Asbestos from FA & AF in Soil (%w/w)	0.001	-		ND	ND	ND	ND	ND

Criteria 1 = NEPC (1999) Amended, Health Screening Levels for asbestos contamination in soil.

Total concentrations in g

- = assessment criteria not available

< # or ND = analyte(s) not detected in excess of laboratory reporting limit

-- = sample not analysed

Bold/red indicates exceedance of assessment criteria

^ soil density assumed to be 1.6 kg/L

* Field gravemetric data for 10L bulk sample ACM %w/w

** Laboratory data for 500mL sample bag for ACM %w/w

ACM = Bonded Asbestos Containing Material

FA = Fibrous Asbestos



	Criteria 1	Criteria 2						
	Asbestos	Asbestos						
	HSL D - >0.1m	HSL D - Surface	Sample ID	TP13/0-0.3	TP54/0-0.4	TP15/0-0.5	BH02/0.15-0.35	TP17/0-0.4
		(Top 10 cm)	Date	8/03/2023	8/03/2023	8/03/2023	7/03/2023	7/03/2023
Approximate Sample Mass (kg)^	-	-		16	16	16	16	16
Mass ACM (g)*	-	ND		ND	ND	8.28	ND	ND
Mass Asbestos in ACM (g)*	-	-		ND	ND	1.242	ND	ND
Asbestos from ACM in Soil (%w/w)*	0.05	-		ND	ND	0.008%	ND	ND
Approximate Sample Mass (g)	-	-		712	641	872	317	782
Mass ACM (g)**	-	ND						
Mass Asbestos in ACM (g)**	-	-						
Asbestos from ACM in Soil (%w/w)**	0.05	-						
Mass FA (g)	-	ND		ND	ND	0.036	ND	ND
Mass Asbestos in FA (g)	-	-		ND	ND	0.014	ND	ND
Mass AF (g)	-	ND		ND	ND	ND	ND	ND
Mass Asbestos in AF (g)	-	-		ND	ND	ND	ND	ND
Mass Asbestos in FA & AF (g)	-	-		ND	ND	0.014	ND	ND
Asbestos from FA & AF in Soil (%w/w)	0.001	-		ND	ND	0.0016	ND	ND

Criteria 1 = NEPC (1999) Amended, Health Screening Levels for asbestos contamination in soil.

Total concentrations in g

- = assessment criteria not available

< # or ND = analyte(s) not detected in excess of laboratory reporting limit

-- = sample not analysed

Bold/red indicates exceedance of assessment criteria

^ soil density assumed to be 1.6 kg/L

* Field gravemetric data for 10L bulk sample ACM %w/w

** Laboratory data for 500mL sample bag for ACM %w/w

ACM = Bonded Asbestos Containing Material

FA = Fibrous Asbestos



	Criteria 1	Criteria 2						
	Asbestos	Asbestos						
	HSL D - >0.1m	HSL D - Surface	Sample ID	TP16/0-0.2	TP53/0-0.4	TP18/0-0.3	TP3/0-0.4	TP11/0-0.2
		(Top 10 cm)	Date	7/03/2023	7/03/2023	7/03/2023	7/03/2023	8/03/2023
Approximate Sample Mass (kg)^	-	-		16	16	16	16	16
Mass ACM (g)*	-	ND		ND	ND	ND	ND	ND
Mass Asbestos in ACM (g)*	-	-		ND	ND	ND	ND	ND
Asbestos from ACM in Soil (%w/w)*	0.05	-		ND	ND	ND	ND	ND
Approximate Sample Mass (g)	-	-		699	705	578	573	835
Mass ACM (g)**	-	ND						
Mass Asbestos in ACM (g)**	-	-						
Asbestos from ACM in Soil (%w/w)**	0.05	-						
Mass FA (g)	-	ND		ND	ND	ND	ND	ND
Mass Asbestos in FA (g)	-	-		ND	ND	ND	ND	ND
Mass AF (g)	-	ND		ND	ND	ND	ND	ND
Mass Asbestos in AF (g)	-	-		ND	ND	ND	ND	ND
Mass Asbestos in FA & AF (g)	-	-		ND	ND	ND	ND	ND
Asbestos from FA & AF in Soil (%w/w)	0.001	-		ND	ND	ND	ND	ND

Criteria 1 = NEPC (1999) Amended, Health Screening Levels for asbestos contamination in soil.

Total concentrations in g

- = assessment criteria not available

< # or ND = analyte(s) not detected in excess of laboratory reporting limit

-- = sample not analysed

Bold/red indicates exceedance of assessment criteria

^ soil density assumed to be 1.6 kg/L

* Field gravemetric data for 10L bulk sample ACM %w/w

** Laboratory data for 500mL sample bag for ACM %w/w

ACM = Bonded Asbestos Containing Material

FA = Fibrous Asbestos



	Criteria 1	Criteria 2						
	Asbestos	Asbestos						
	HSL D - >0.1m	HSL D - Surface	Sample ID	TP19/0-0.2	TP20/0-0.2	TP4/0-0.15	TP41/0-0.3	TP5/0-0.3
		(Top 10 cm)	Date	8/03/2023	8/03/2023	8/03/2023	8/03/2023	8/03/2023
Approximate Sample Mass (kg)^	-	-		16	16	16	16	16
Mass ACM (g)*	-	ND		ND	ND	ND	ND	ND
Mass Asbestos in ACM (g)*	-	-		ND	ND	ND	ND	ND
Asbestos from ACM in Soil (%w/w)*	0.05	-		ND	ND	ND	ND	ND
Approximate Sample Mass (g)	-	-		799	657	799	501	648
Mass ACM (g)**	-	ND						
Mass Asbestos in ACM (g)**	-	-						
Asbestos from ACM in Soil (%w/w)**	0.05	-						
Mass FA (g)	-	ND		ND	ND	ND	ND	ND
Mass Asbestos in FA (g)	-	-		ND	ND	ND	ND	ND
Mass AF (g)	-	ND		ND	ND	ND	ND	ND
Mass Asbestos in AF (g)	-	-		ND	ND	ND	ND	ND
Mass Asbestos in FA & AF (g)	-	-		ND	ND	ND	ND	ND
Asbestos from FA & AF in Soil (%w/w)	0.001			ND	ND	ND	ND	ND

Criteria 1 = NEPC (1999) Amended, Health Screening Levels for asbestos contamination in soil.

Total concentrations in g

- = assessment criteria not available

< # or ND = analyte(s) not detected in excess of laboratory reporting limit

-- = sample not analysed

Bold/red indicates exceedance of assessment criteria

^ soil density assumed to be 1.6 kg/L

* Field gravemetric data for 10L bulk sample ACM %w/w

** Laboratory data for 500mL sample bag for ACM %w/w

ACM = Bonded Asbestos Containing Material

FA = Fibrous Asbestos

ATTACHMENT A

DETAILED SITE INVESTIGATION

330 - 350 Eighth Avenue, Austral NSW



Plate 1 – View from the northwest corner of the site, facing east.



Plate 2 – View of southeast corner of the site facing east.



Plate 3 – View of water logged area in central northern portion of the site.



Plate 4 – View of eastern boundary in the northern half of the site.



Plate 5 – View of the central western portion of the site, facing north.



Plate 6 – View of southwest corner of the site, facing west.

DETAILED SITE INVESTIGATION

330 – 350 Eighth Avenue, Austral NSW



Plate 7 – Fill excavated from TP8 with non-fibrous plaster fragments.



Plate 8 – Fill excavated from TP8 with non-fibrous plaster fragments.



Plate 9 – Tilled soil/fill from TP5 inspected for ACM.



Plate 10 – Fill excavated from TP57 adjacent to eastern dwelling on northern portion of site.



Plate 11 – Fill excavated from TP15 inspected for ACM, adjacent to sheds in central portion of north half of site.



Plate 12 – Test pit excavated near the shed (TP15) in the north half of the site.

DETAILED SITE INVESTIGATION

330 - 350 Eighth Avenue, Austral NSW



Plate 13 – One of the sheds comprising plaster cement sheeting that does not appear fibrous, on central portion of northern half of site.



Plate 14 – Area of potential ACM fragments on the ground surface near location TP15, majority observed to be non-fibrous and not ACM .

ATTACHMENT B



Job No 33721751

Caller Details

Contact:	Tiffany Mabbott	Caller Id:	3007457	Phone:	0455 278 841
Company:	Not supplied				
Address:	Unit 2309/4 Daydream Street Warriewood NSW 2102	Email:	tmabbott@geo-logi	x.com.au	

Dig Site and Enquiry Details

WARNING: The map below only displays the location of the proposed dig site and does not display any asset owners' pipe or cables. The area highlighted has been used only to identify the participating asset owners, who will send information to you directly.



wners, who will send information to	you directly.	
User Reference:	2301008	
Working on Behalf of:	Private	
Enquiry Date:	Start Date:	End Date:
01/03/2023	02/03/2023	10/03/2023
Address:		
254 Eighth Avenue Austral NSW 2179		
Job Purpose:	Onsite Ac	tivities:
Excavation	Vertical B	oring
Location of Workplace:	Location i	n Road:
Private		
 Check that the location of the d Should the scope of works char enquiry. 	nge, or plan validity dates	s expire, you must submit a new
 Do NOT dig without plans. Safe plans or how to proceed safely. 		onsibility. If you do not understand the ant asset owners.

Notes/Description of Works:

Not supplied

Your Responsibilities and Duty of Care

- The lodgement of an enquiry does not authorise the project to commence. You must obtain all necessary information from any and all likely impacted asset owners prior to excavation.
- If plans are not received within 2 working days, contact the asset owners directly & quote their Sequence No.
- ALWAYS perform an onsite inspection for the presence of assets. Should you require an onsite location, contact the asset owners directly. Please remember, plans do not detail the exact location of assets.
- Pothole to establish the exact location of all underground assets using a hand shovel, before using heavy machinery.
- Ensure you adhere to any State legislative requirements regarding Duty of Care and safe digging requirements.
- If you damage an underground asset you MUST advise the asset owner immediately.
- By using this service, you agree to Privacy Policy and the terms and disclaimers set out at www.byda.com.au
- · For more information on safe excavation practices, visit www.byda.com.au

Asset Owner Details

The assets owners listed below have been requested to contact you with information about their asset locations within 2 working days.

Additional time should be allowed for information issued by post. It is your responsibility to identify the presence of any underground assets in and around your proposed dig site. Please be aware, that not all asset owners are registered with the Before You Dig service, so it is your responsibility to identify and contact any asset owners not listed here directly.

** Asset owners highlighted by asterisks ** require that you visit their offices to collect plans.

Asset owners highlighted with a hash # require that you call them to discuss your enquiry or to obtain plans.

Seq. No.	Authority Name	Phone	Status
221794463	Endeavour Energy	(02) 9853 4161	NOTIFIED
221794461	Jemena Gas West	1300 880 906	NOTIFIED
221794459	Liverpool City Council	1300 362 170	NOTIFIED
221794460	NBN Co NswAct	1800 687 626	NOTIFIED
221794462	Sydney Water	13 20 92	NOTIFIED
221794464	Telstra NSW Central	1800 653 935	NOTIFIED

END OF UTILITIES LIST



BYDA Underground Search Report

Date: 01/03/2023

BYDA Sequence No:	221794463	BYDA Job No: 33721751
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ENDEAVOUR ENERGY ASSETS AFFECTED

To:	Tiffany Mabbott		Company:	Not Supplied			
Address:	Unit 2309/4 Daydream Street, Warriewood, NSW 2102						
Cust. ID:	3007457 Email: tmabbott@geo-logix.com.au			p-logix.com.au			
Phone:	Phone: +61455278841						
Enquiry Location	: 254 Eighth Avenue, Austral, NSV	V 2179					

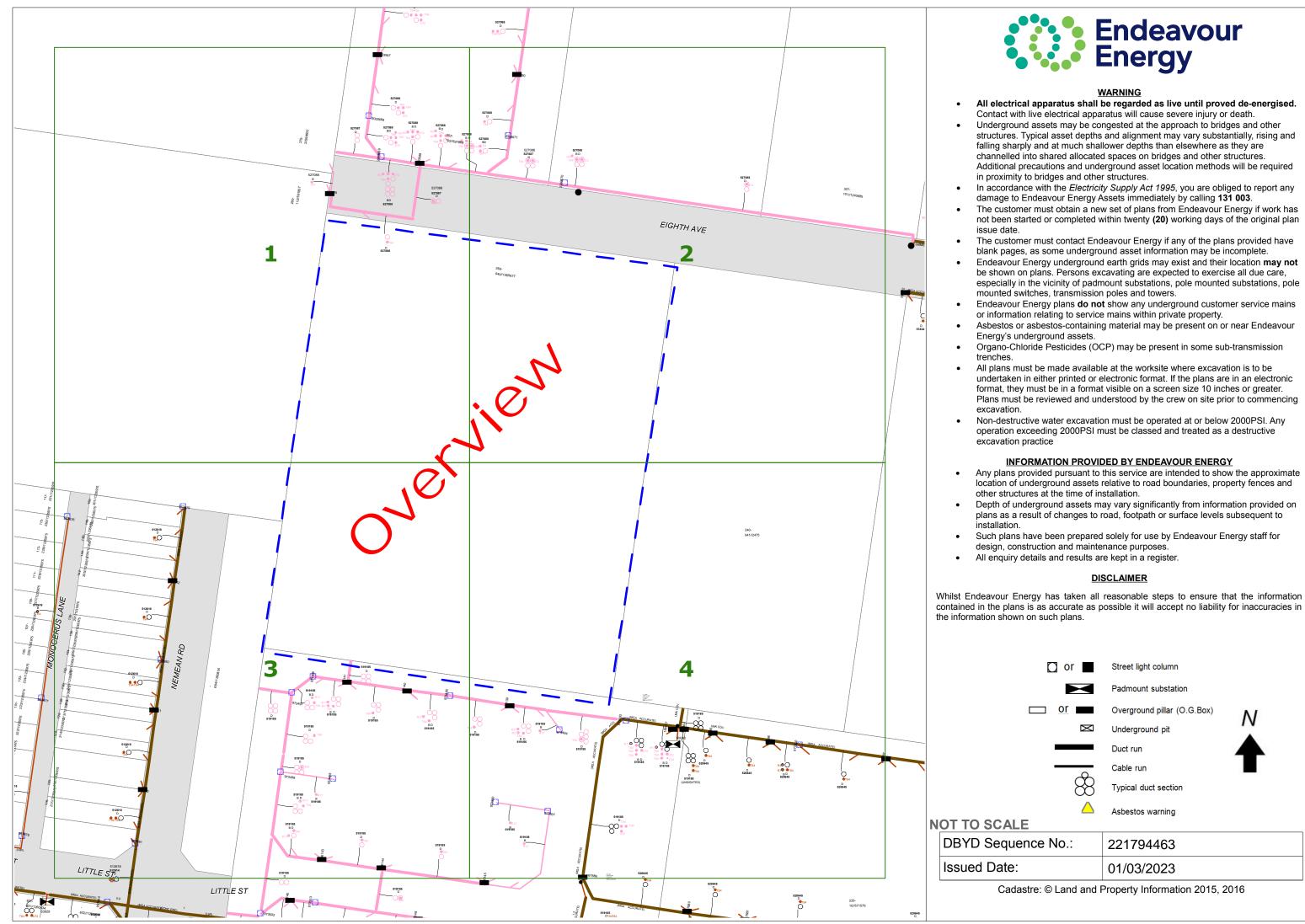
Our Search has shown that **UNDERGROUND ASSETS ARE PRESENT** on our plans within the nominated enquiry location. This search is based on the graphical position of the excavation site as denoted in the BYDA customer confirmation sheet.

WARNING

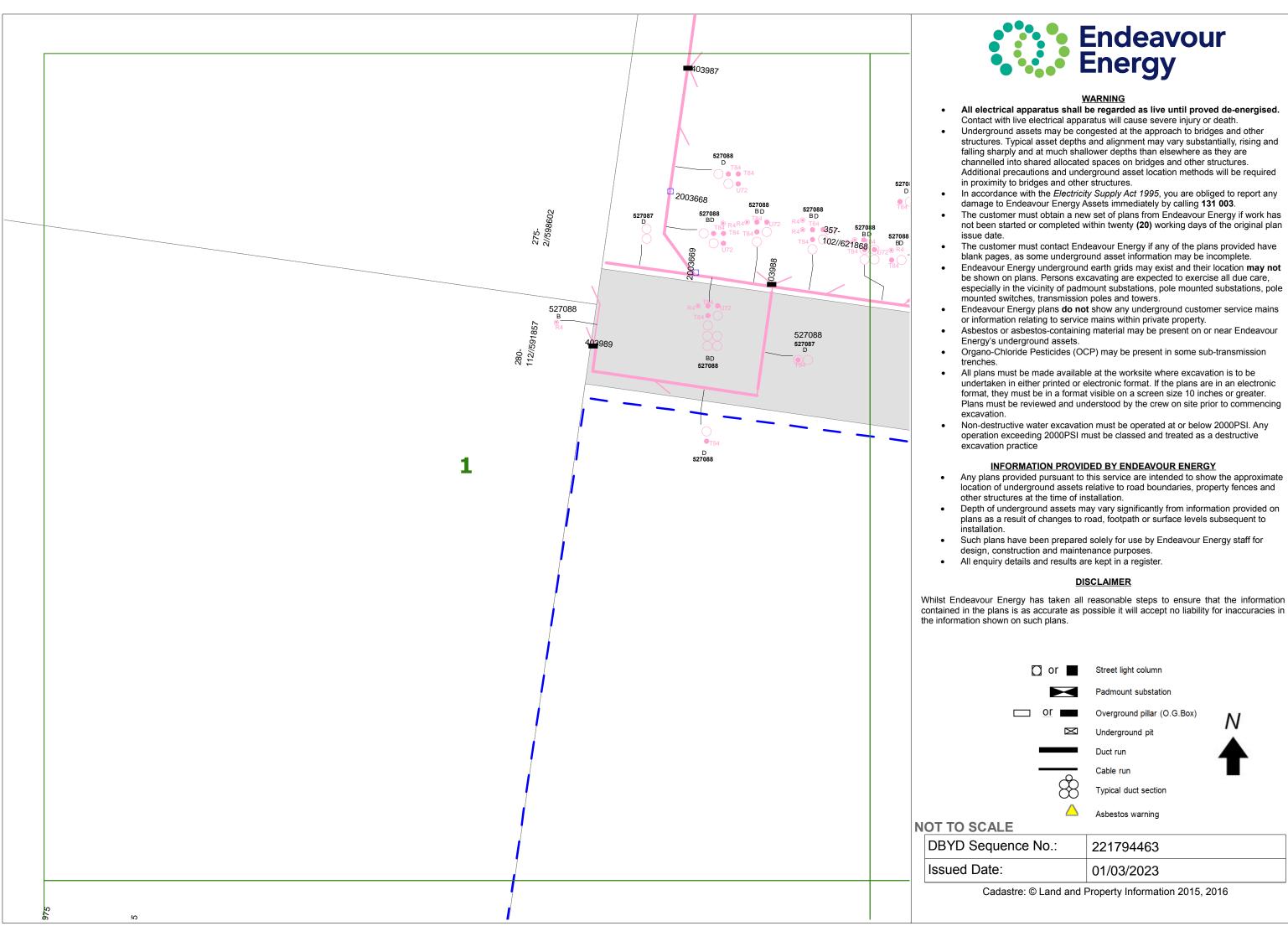
- All electrical apparatus shall be regarded as live until proved de-energised. Contact with live electrical apparatus will cause severe injury or death.
- Underground assets may be congested at the approach to bridges and other structures. Typical asset depths and alignment may vary substantially, rising and falling sharply and at much shallower depths than elsewhere as they are channelled into shared allocated spaces on bridges and other structures. Additional precautions and underground asset location methods will be required in proximity to bridges and other structures.
- In accordance with the *Electricity Supply Act 1995*, you are obliged to report any damage to Endeavour Energy Assets immediately by calling **131 003**.
- The customer must obtain a new set of plans from Endeavour Energy if work has not been started or completed within twenty (20) working days of the original plan issue date.
- The customer must contact Endeavour Energy if any of the plans provided have blank pages, as some underground asset information may be incomplete.
- Endeavour Energy underground earth grids may exist and their location **may not** be shown on plans. Persons excavating are expected to exercise all due care, especially in the vicinity of padmount substations, pole mounted substations, pole mounted switches, transmission poles and towers.
- Endeavour Energy plans **do not** show any underground customer service mains or information relating to service mains within private property.
- Asbestos or asbestos-containing material may be present on or near Endeavour Energy's underground assets.
- Organo-Chloride Pesticides (OCP) may be present in some sub-transmission trenches.
- All plans must be made available at the worksite where excavation is to be undertaken in either printed or electronic format. If the plans are in an electronic format, they must be in a format visible on a screen size 10 inches or greater. Plans must be reviewed and understood by the crew on site prior to commencing excavation.
- Non-destructive water excavation must be operated at or below 2000PSI. Any operation exceeding 2000PSI
 must be classed and treated as a destructive excavation practice

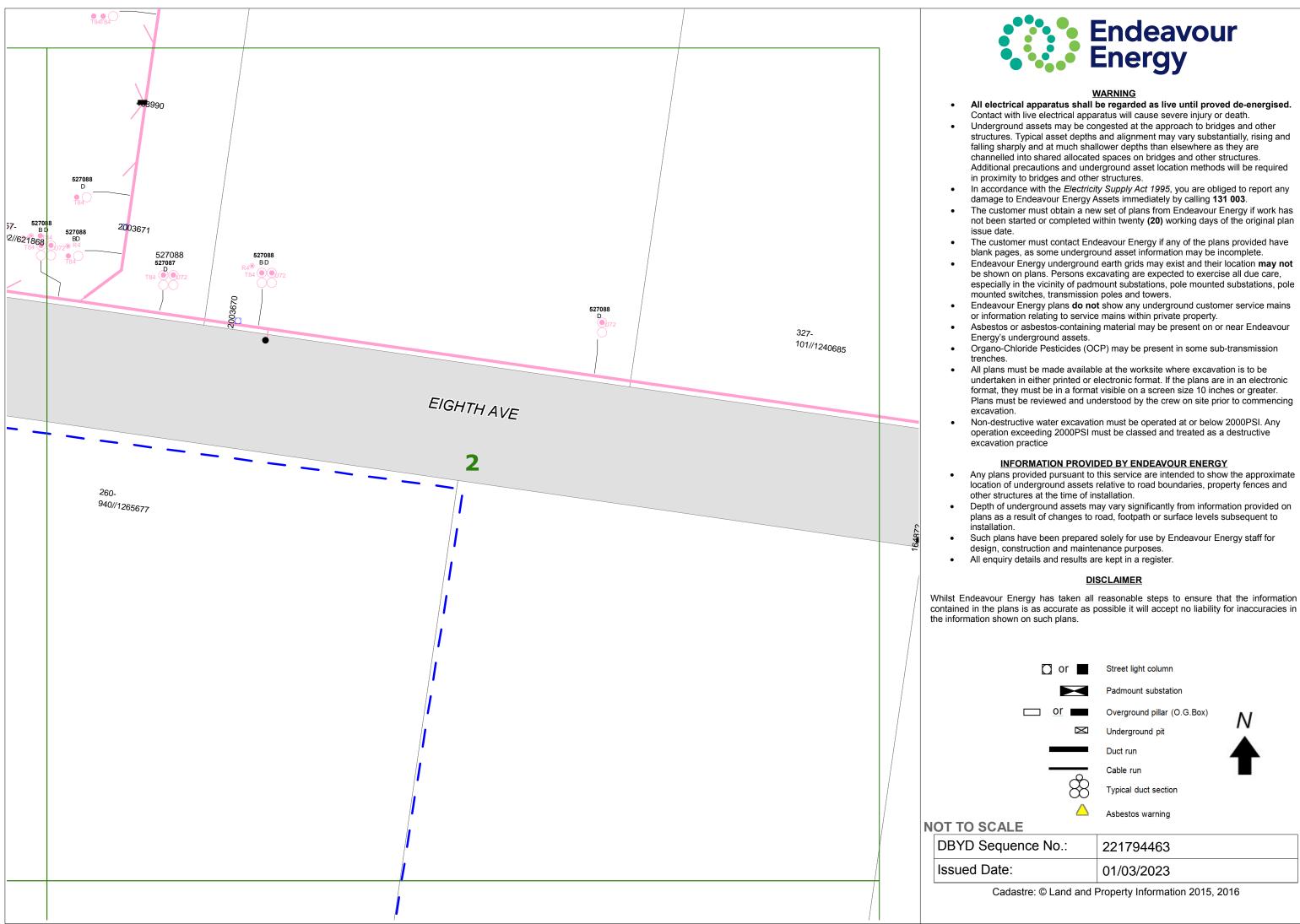
Material	Purpose	Location	
BYDA Cover Letter	Endeavour Energy BYDA response Cover Letter	Attached	
BYDA Important Information & Disclaimer	Endeavour Energy disclaimer, responsibilities and information on understanding plans	Attached	
BYDA Response Plans	Endeavour Energy BYDA plans	Attached	
Work Cover NSW "Work near underground assets: Guide"	Guideline for anyone involved in construction work near underground assets	Contact Work Cover NSW for a copy	
Work Cover NSW "Excavation work: Code of practice"	Practical guidance on managing health and safety risks associated with excavation	URL [Click Here]	
Safe Work Australia "Working in the vicinity of overhead and underground electric lines guidance material"	Provides information on how to manage risks when working in the vicinity of overhead and underground electric lines at a workplace	URL [Click Here]	
Endeavour Energy Safety Brochures & Guides	To raise awareness of dangers of working on or near Endeavour Energy's assets	URL [Click Here]	

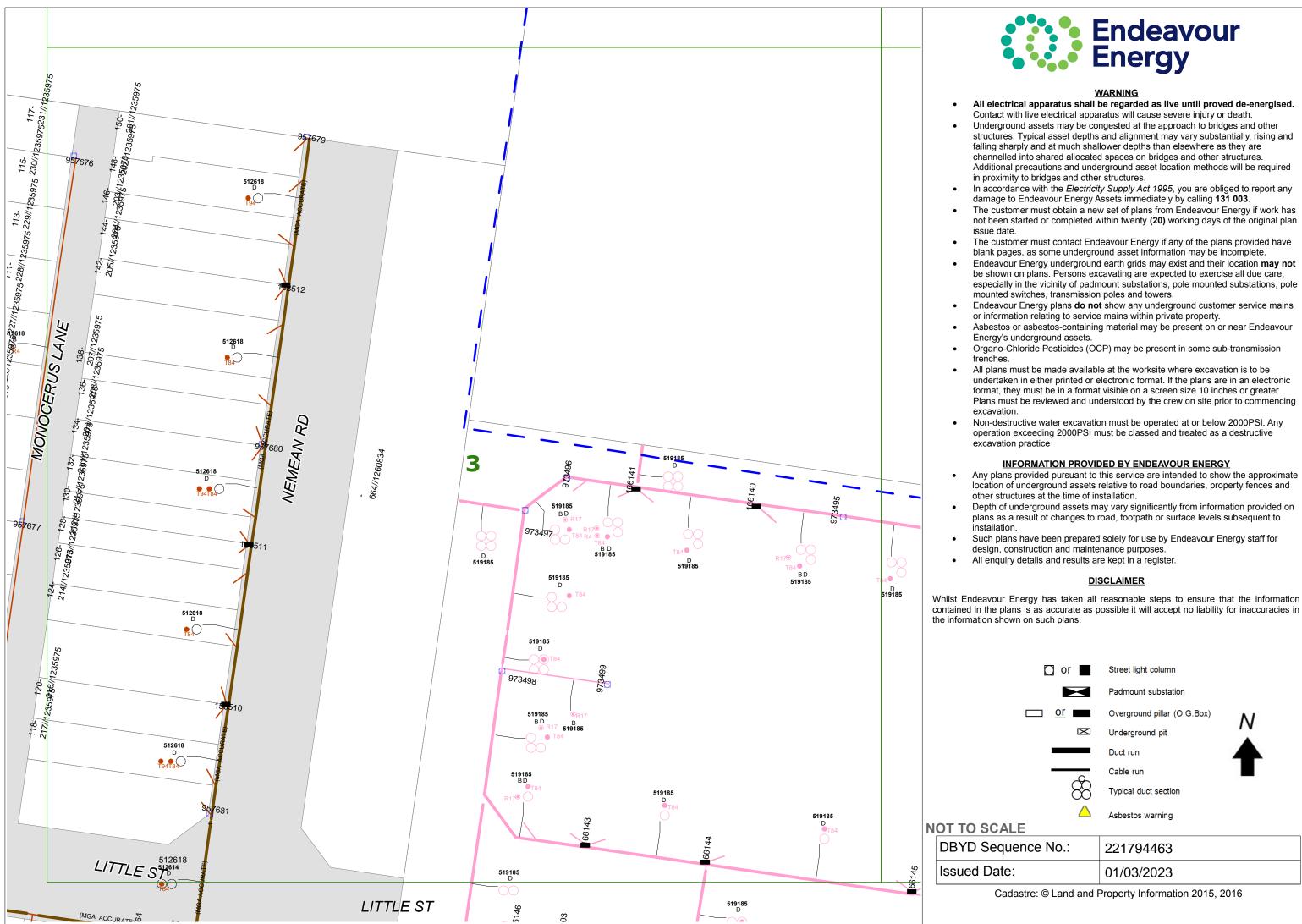
SUPPLEMENTARY MATERIAL

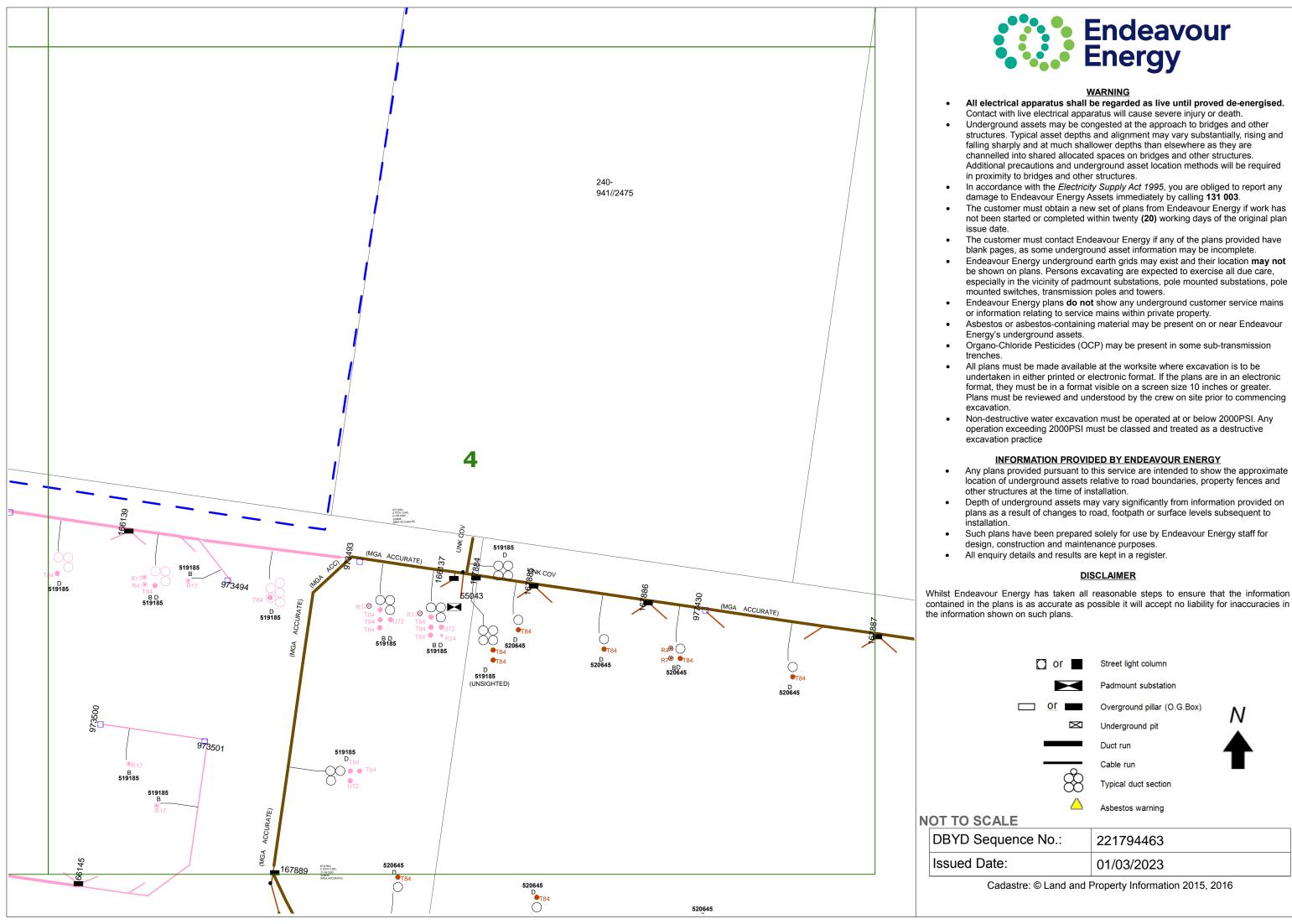














ASSETS AFFECTED

This information is only valid for 28 days from the date of issue

Please note that there are **Gas Mains or Services** in the vicinity of your intended work, as generally illustrated on the attached map. There may also be other mains or services at the location. For an explanation of the map, please see the legend attachment and read the important information below.

Please note that you have duty of care to ensure that Jemena's assets are not compromised or damaged during any digging, future development or construction work.

Excavation Guidelines:

It is essential that the location of gas pipe/s are confirmed by carefully pot-holing by hand excavation prior to proceeding with mechanical excavation in the vicinity of gas pipes. If you cannot locate the pipe, contact the local depot.

Important Information:

- The enclosed plans have been prepared solely for the use of Jemena Gas Networks (NSW) Ltd and Jemena Asset Management Pty Ltd (together "Jemena") and. show the position of Jemena's underground gas mains and installations in public gazetted roads. If the enclosed plans show gas assets located on private property or other third party property, these are approximate locations.
- 2. There may be underground assets owned by other utilities in the vicinity of your work and it is your responsibility to identify and locate such assets.
- 3. The plans may show the position of underground mains and installations relative to fences, buildings and other structures_as they existed at the time the assets were installed and may not have been updated to take account of any subsequent change in the location or style of those features. Depth of underground assets may also vary as a result of changes to road, footpath or surface levels subsequent to installation.
- 4. While Jemena takes all reasonable care to ensure the accuracy and completeness of the information provided, it makes no warranty as to the accuracy or completeness of the enclosed plans and does not assume any duty of care to you nor any responsibility for the accuracy, adequacy, suitability or completeness of the plans or for any error or omission. It is intended to be indicative only and must not be solely relied upon when undertaking underground works.
- 5. Except to the extent that liability may not be capable of being lawfully excluded, Jemena, its employees, agents, officers and contractors will not be liable to any person for loss or damage (including indirect and consequential loss or damage) which may be suffered or incurred in connection with the provision of this information.
- 6. Persons excavating or carrying out other earthworks will be held responsible for any damage caused to Jemena's underground mains, service lines and equipment. In accordance with the *Work Near Underground Assets Guide* published in 2007 by Work Cover Authority*, Jemena recommends that you carry out potholing by hand to accurately confirm the location of gas mains and installation prior to commencing excavations.

Jemena BYDA Administration: 1300 880 906 *Guide available via: <u>www.safework.nsw.gov.au</u> In case of Emergency Phone 131 909 (24 hours) Nov 2022



Network Mains

 Proposed New Main (coloured as per kPa)	
 Proposed Isolate (coloured as per kPa)	
 Unknown kPa	
 2kPa Low Pressure gas main	
 7kPa Low Pressure gas main	
 30kPa Medium pressure gas main	
 100kPa Medium Pressure gas main	
 210kPa Medium Pressure gas main	
 300kPa Medium Pressure gas main	
 400kPa Medium Pressure gas main	
 1050kPa High Pressure gas main	
 3500kPa High Pressure gas main	
 7000kPa High Pressure gas main	
 >7000kPa Transmission pipeline	

- Isolated Service Former Med/High Pressure
- Isolated Steel Main -Treat as High Pressure

100 PVC

Conduit or Casing Size & Material (see conduit material codes)

Critical Main -Treat as High Pressure (Main coloured as per kPa)



SHALLOW-SP

Exposed Main section

Shallow Main section: see Protection Code below, no code assume no protection Steel Plate SP CE Concrete Encased PP PE Plate UNK Unknown Type Concrete Slab CS

Gas Services

Gas service - coloured by kPa

Serviced Site indicator

Jemena has created service pipe features programmatically based on known pipe characteristics and cartographic principles. They may provide guidance to identify assets whilst in the field in addition to existing processes.

Network Assets

2	Siphon
	Network Valve
	High Pressure Main Line Valve (=>1050kPa)
	High Pressure Automatic Line Break Valve (>1050kPa)
	Boundary Regulator Set (=<1050kPa)
	Distribution Regulator Set (=<1050kPa)
	High Pressure Regulating Station (>1050kPa)

Annotations

Pipe and Conduit Material Codes

NY	Nylon	NB	Nominal Bore – Cast Iron

- ΡE Polyethylene ST Steel
- P/PL Plastic (undefined) C/CO Copper
- PVC Polyvinyl Chloride

Pipe code combinations and dimension references

- 6 NB 50MM NY 50mm Nylon main inserted into 6 inch (Nominal Bore) Cast Iron pipe
- 50MM 32MM NY 32mm Nylon main inserted into 50mm Steel pipe
- ~1.5 Distance (in metres) of main from Boundary Line (MBL)
- MBK Distance in Metres Back of Kerb
- MKL Distance in Metres from Kerb Line
- Distance in Metres from Eastern Boundary Line (North/South/West) MEBL
- MCI Distance in Metres from Centre Line of Road
- MFL Distance in Metres from Fence Line



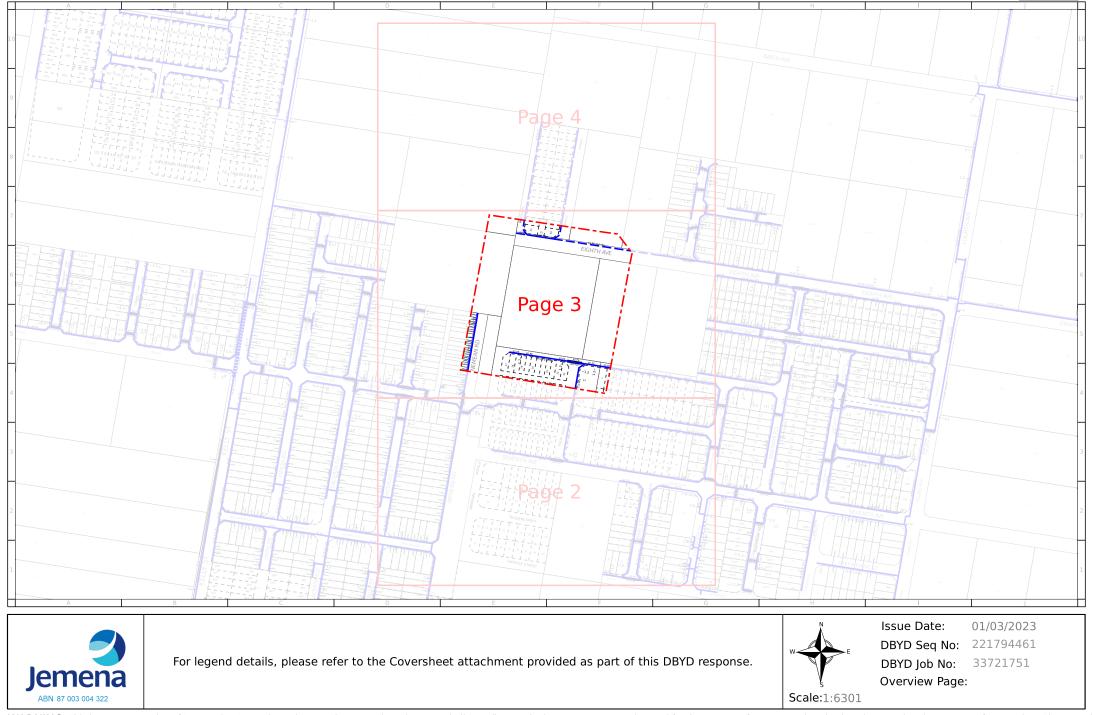
Distance (in metres) of service from side Boundary where the service pipe crosses from the road reserve into the private lot

Service placed towards left or right boundary Service pipe size & material where known



For connected sites with insufficient asset details, service is shown down the centre of the lot with no attributes plotted

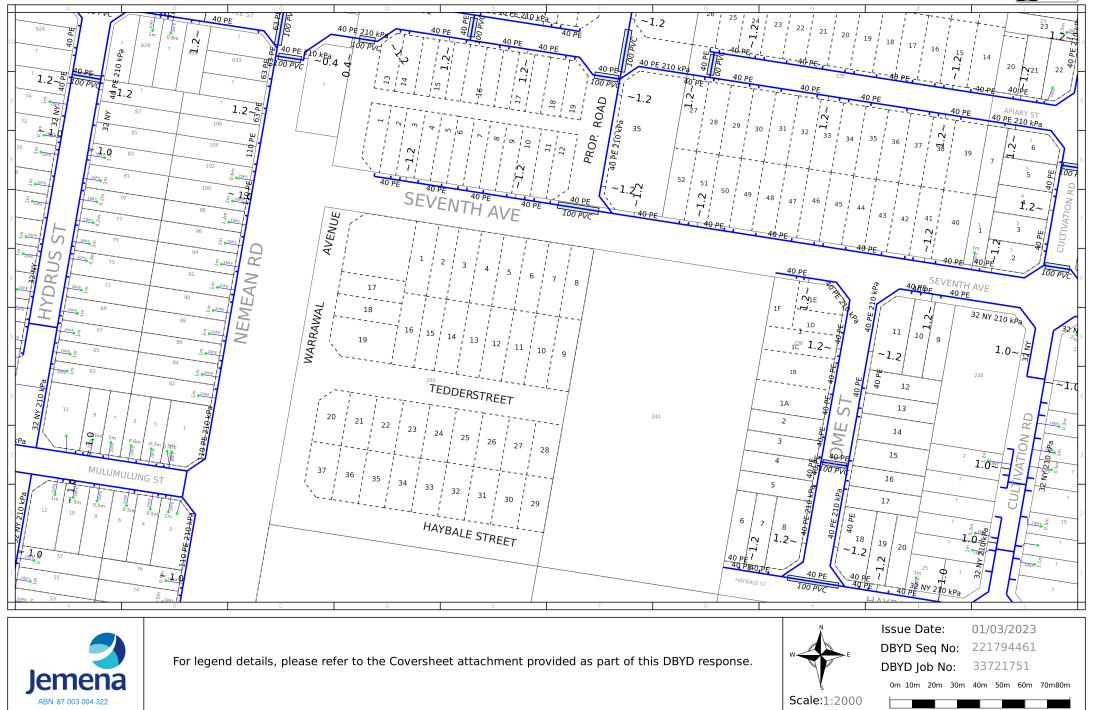




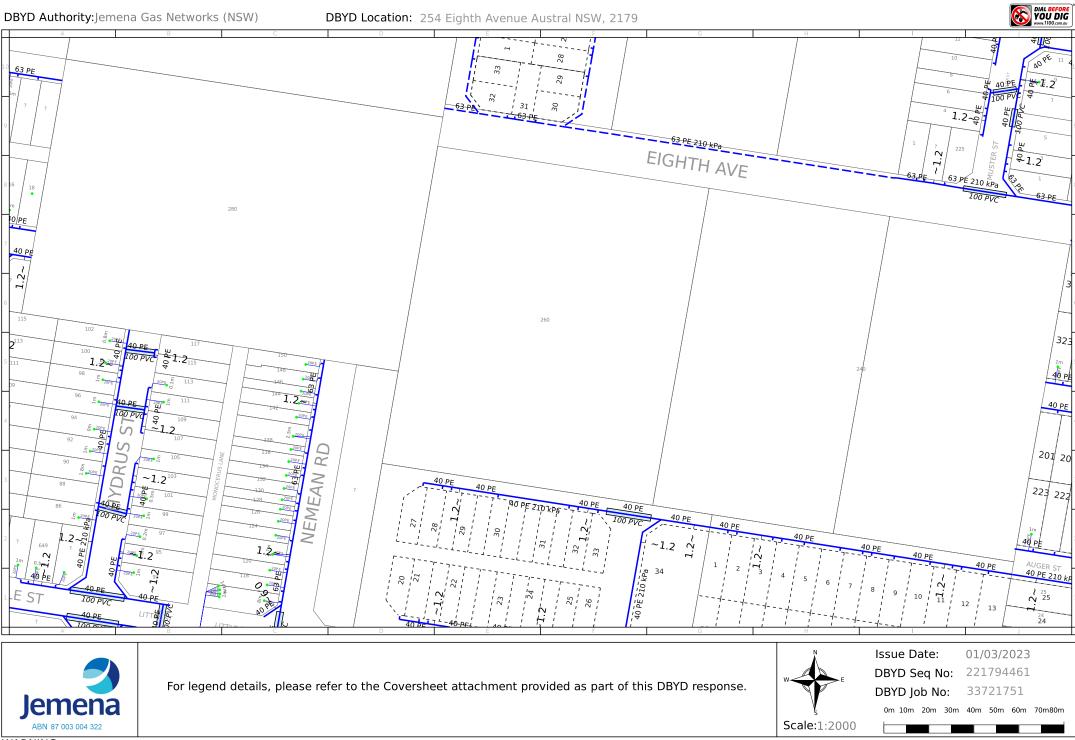
WARNING: This is a representation of Jemena Gas Networks underground assets only and may not indicate all assets in the area. It must not be used for the purpose of exact asset location in order to undertake any type of excavation. Please read all conditions and information on the attached information sheet. This extract is subject to those conditions.

The information contained on this plan is only valid for 28 days from the date of issue.



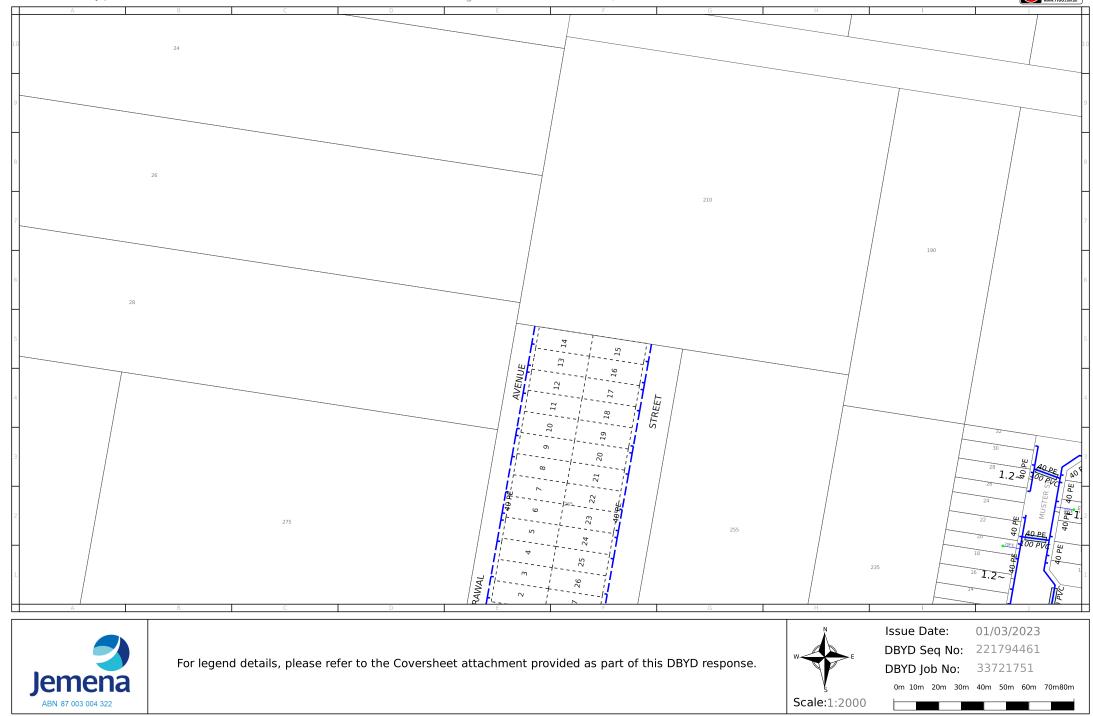


WARNING: This is a representation of Jemena Gas Networks underground assets only and may not indicate all assets in the area. It must not be used for the purpose of exact asset location in order to undertake any type of excavation This plan is diagramatic only, and distances scaled from this plan may not be accurate. Please read all conditions and information on the attached information sheet. This extract is subject to those conditions. The information contained on this plan is only valid for 28 days from the date of issue.



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Response Cover Letter

Liverpool City Council Locked Bag 7064 Liverpool BC NSW 1871 www.liverpool.nsw.gov.au

LIVERPOOL CITY COUNCIL•

Date: 01/03/2023

To: Tiffany Mabbott Not Supplied Unit 2309/4 Daydream Street Warriewood NSW 2102

According to our records your enquiry with the following details <u>impacts our infrastructure</u>. Please review other documents included with this response for additional details:

 Sequence No:
 221794459

 Job No:
 33721751

 Location:
 254 Eighth Avenue

Austral NSW 2179

If you require further information, please contact the Liverpool City Council's Customer Centre on 1300 362 170 or lcc@liverpool.nsw.gov.au

Important Notice: This enquiry response, including any associated documentation, has been assessed and compiled from the information detailed within the DBYD enquiry outlined above. Please ensure that the DBYD enquiry details and this response accurately reflect your proposed works.

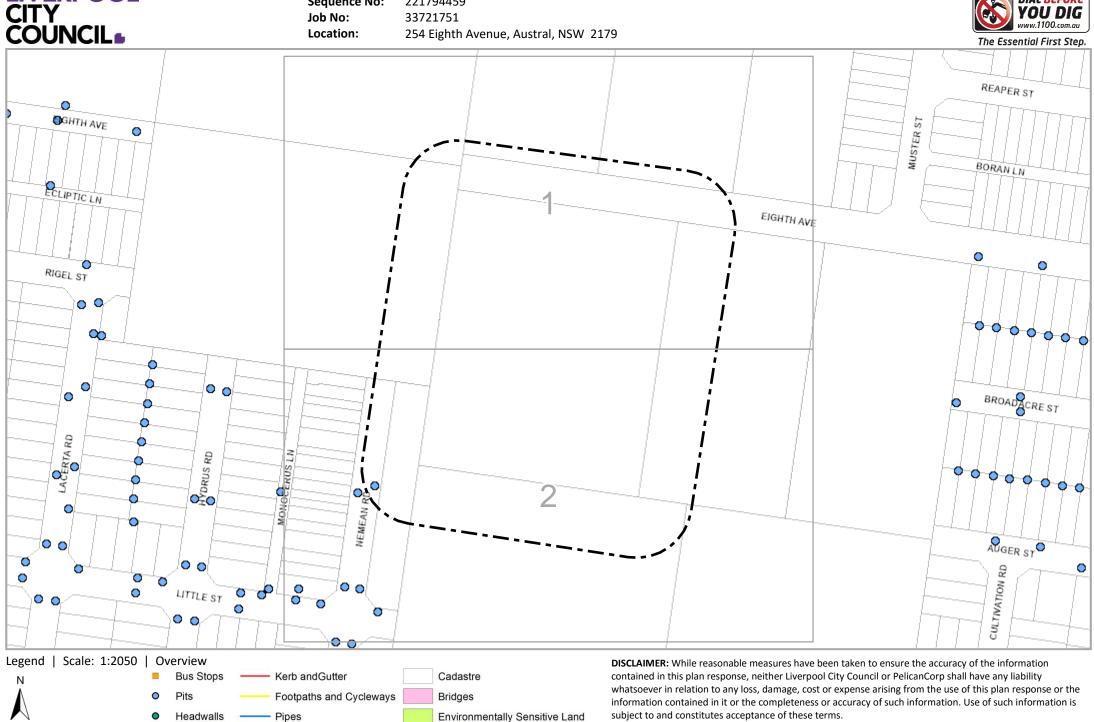
This response is intended for use only by the addressee. If you have received the enquiry response in error, please let us know by telephone and delete all copies; you are advised that copying, distributing, disclosing or otherwise acting in reliance on the response is expressly prohibited.



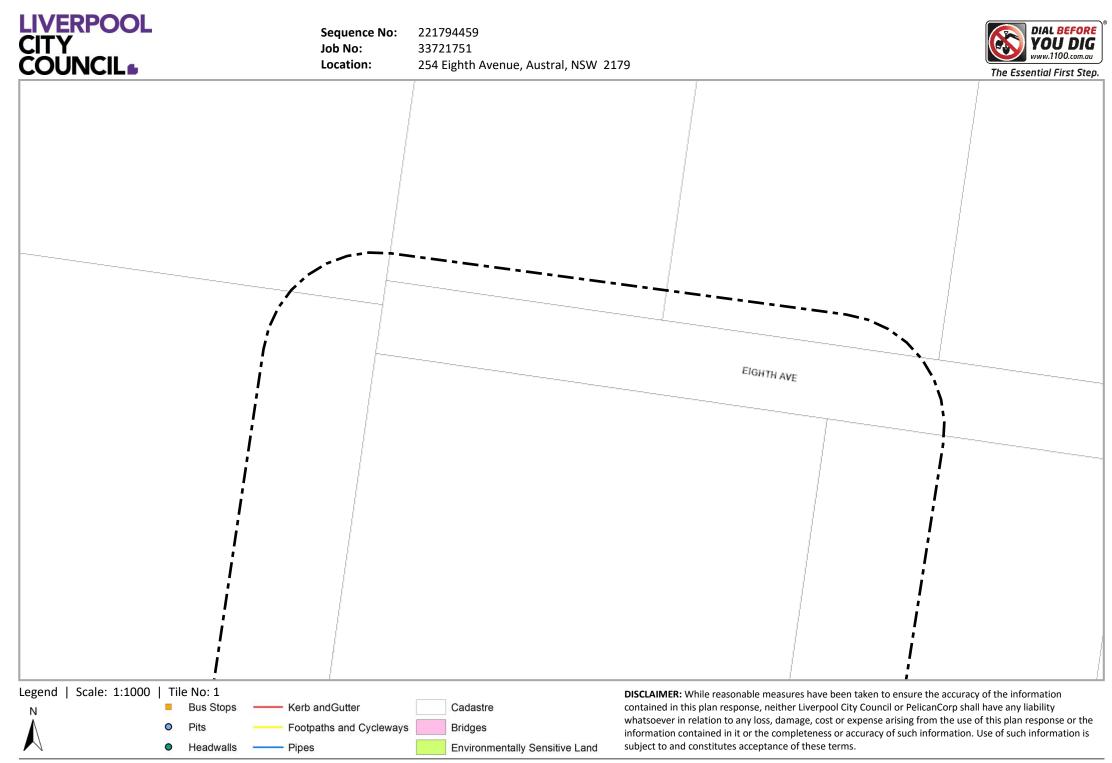
While reasonable measures have been taken to ensure the accuracy of the information contained in this plan response, neither Liverpool City Council or PelicanCorp shall have any liability whatsoever in relation to any loss, damage, cost or expense arising from the use of this plan response or the information contained in it or the completeness or accuracy of such information. Use of such information is subject to and constitutes acceptance of these terms.

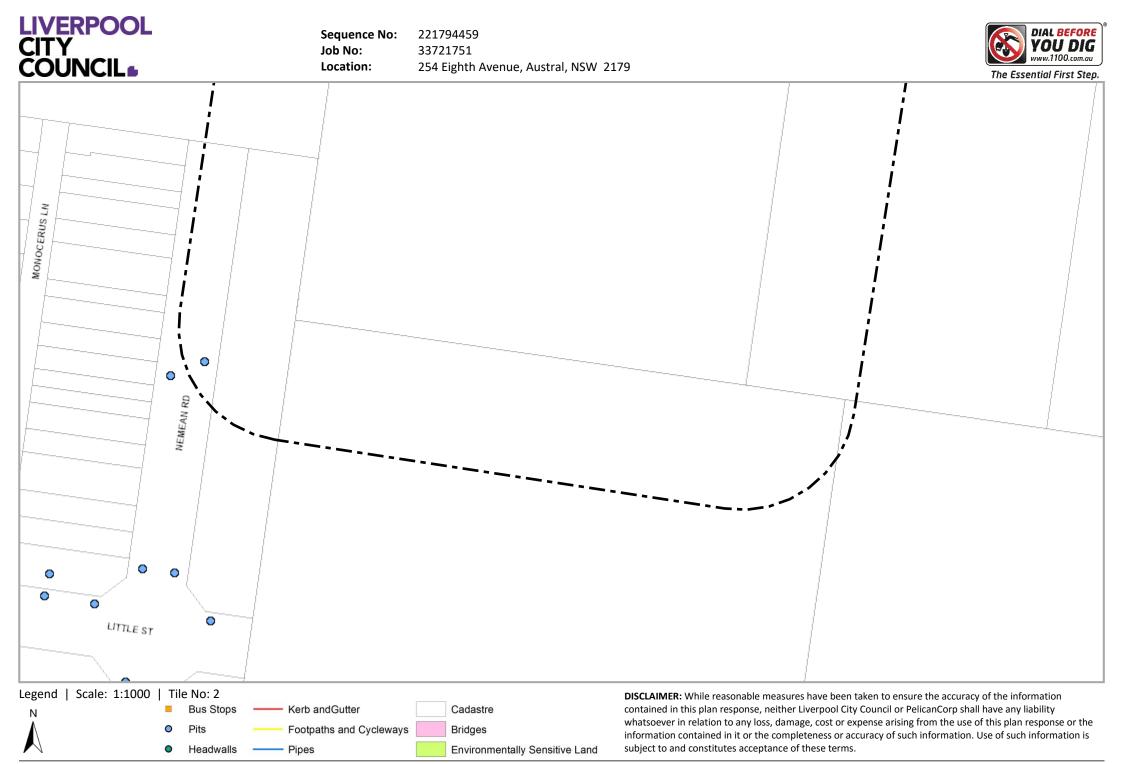
Sequence No: 221794459 Job No: 33721751 Location: 254 Eighth Avenue, Austral, NSW 2179





LIVERPOOL







Working near **nbn**™ cables

nbn has partnered with Dial Before You Dig to give you a single point of contact to get information about **nbn** underground services owned by **nbn** and other utility/service providers in your area including communications, electricity, gas and other services. Contact with underground power cables and gas services can result in serious injury to the worker, and damage and costly repairs. You must familiarise yourself with all of the Referral Conditions (meaning the referral conditions referred to in the DBYD Notice provided by **nbn**).

Practice safe work habits

Once the DBYD plans are reviewed, the Five P's of Excavation should be adopted in conjunction with your safe work practices (which must be compliant with the relevant state Electrical Safety Act and Safe Work Australia "Excavation Work Code of Practice", as a minimum) to ensure the risk of any contact with underground **nbn** assets are minimised.



Plan: Plan your job by ensuring the plans received are current and apply to the work to be performed. Also check for any visual cues that may indicate the presence of services not covered in the DBYD plans.



Prepare: Prepare for your job by engaging a DBYD Certified Plant Locator to help interpret plans and identify on-site assets. Contact **nbn** should you require further assistance.



Pothole: Nondestructive potholing (i.e. hand digging or hydro excavation) should be used to positively locate **nbn** underground assets with minimal risk of contact and service damage.



Protect: Protecting and supporting the exposed **nbn** underground asset is the responsibility of the worker. Exclusion zones for **nbn** assets are clearly stated in the plan and appropriate controls must be implemented to ensure that encroachment into the exclusion zone by machinery or activities with the potential to damage the asset is prevented.



Proceed: Proceed only when the appropriate planning, preparation, potholing and protective measures are in place.

Working near nbmcablesImage: Constraint of the state of the state

Once all work is completed, the excavation should be re-instated with the same type of excavated material unless specified by **nbn**. Please note:

- Construction Partners of **nbn** may require additional controls to be in place when performing excavation activities.
- The information contained within this pamphlet must be used in conjunction with other material supplied as part of this request for information to adequately control the risk of potential asset damage.

Contact

All **nbn**[™] network facility damages must be reported online <u>here</u>. For enquiries related to your DBYD request please call 1800 626 329.

Disclaimer

This brochure is a guide only. It does not address all the matters you need to consider when working near our cables. You must familiarise yourself with other material provided (including the Referral Conditions) and make your own inquiries as appropriate. **nbn** will not be liable or responsible for any loss, damage or costs incurred as a result of reliance on this brochure.

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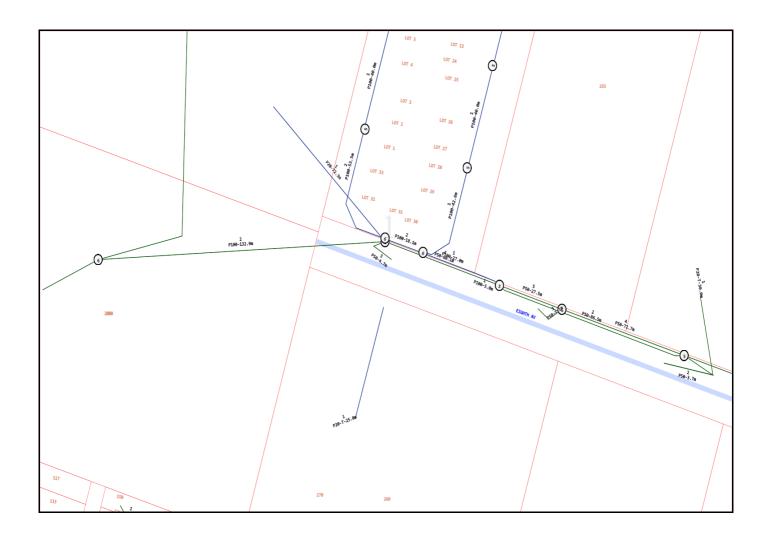


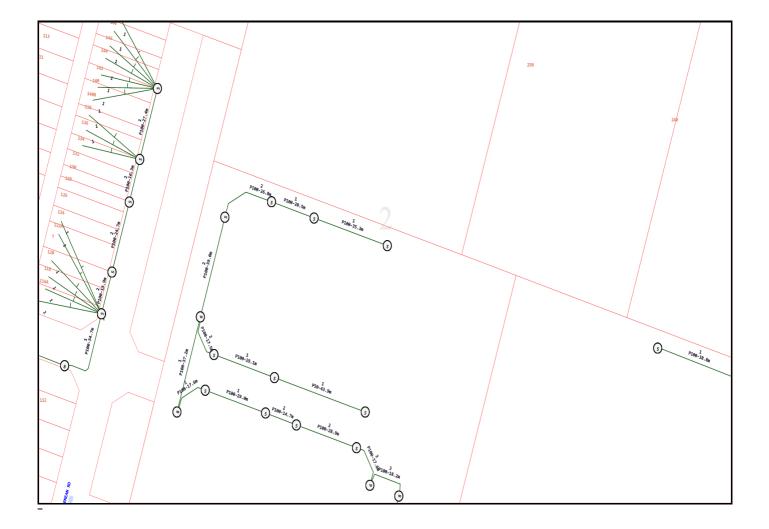
То:	Tiffany Mabbott
Phone:	Not Supplied
Fax:	Not Supplied
Email:	tmabbott@geo-logix.com.au

Dial before you dig Job #:	33721751	
Sequence #	221794460	YOU DIG
Issue Date:	01/03/2023	www.1100.com.au
Location:	254 Eighth Avenue, Austral, NSW, 2179	

Indicative Plans

· + ·	LEGEND nbn ()	
34	Parcel and the location	
3	Pit with size "5"	
25	Power Pit with size "2E". Valid PIT Size: e.g. 2E, 5E, 6E, 8E, 9E, E, null.	
	Manhole	
\otimes	Pillar	
2 PO - T- 25.0m P40 - 20.0m 9	Cable count of trench is 2. One "Other size" PVC conduit (PO) owned by Telstra (-T-), between pits of sizes, "5" and "9" are 25.0m apart. One 40mm PVC conduit (P40) owned by NBN, between pits of sizes, "5" and "9" are 20.0m apart.	
-0 10.0m	2 Direct buried cables between pits of sizes ,"5" and "9" are 10.0m apart.	
-0	Trench containing any INSERVICE/CONSTRUCTED (Copper/RF/Fibre) cables.	
-0	Trench containing only DESIGNED/PLANNED (Copper/RF/Fibre/Power) cables.	
-0	Trench containing any INSERVICE/CONSTRUCTED (Power) cables.	
BROADWAY ST	Road and the street name "Broadway ST"	
Scale	0 20 40 60 Meters 1:2000 1 cm equals 20 m	





Emergency Contacts

You must immediately report any damage to the **nbn**[™] network that you are/become aware of. Notification may be by telephone - 1800 626 329.





Guide to reading Sydney Water DBYD Plans



This guide will help you understand our plans and what our services are.

Symbol	Meaning	Symbol	Meaning
225 PVC	Sewer main with flow arrow and size type text.	- FOR	Sewer vertical
	Disuses sewer main This means the sewer has been disused but remains in the ground.	O SP0882	Sewer pumping station
1.7	Sewer maintenance hole with upstream depth invert.		
	Sewer Sub-surface chamber		Pressure sewer main These are also found in Vacuum sewer areas.
-	Sewer Maintenance hole with overflow chamber	₫•	Pressure sewer Pump unit Alarm, electrical cable and pump unit.
¥	Sewer Ventshaft EDUCT		Pressure sewer property valve boundary assembly
¢	Sewer Ventshaft IDUCT	— ×—	Pressure sewer stop valve
10.6	Sewer property connection point With chainage to downstream maintenance hole.		Pressure sewer reducer / taper
Concrete Encosed	Sewer concrete encased section	®	Pressure sewer flushing point
	Sewer Rehabilitation		Vacuum sewer division valve
	Sewer terminal maintenance shaft		Vacuum sewer vacuum chamber
Ö	Sewer maintenance shaft	<u>_</u>	Vacuum sewer clean out pot
 ¢	Sewer rodding point		Stormwater pipe
	Sewer lamphole		Stormwater channel





Symbol	Meaning	Symbol	Meaning
	Stormwater gully	- X -	 Potable water stop valves with Tapers
	Stormwater maintenance hole		 Potable water closed stop valve
200 PVC	Watermain – potable drinking water With size type text.		
	Disconnected watermain potable drinking water		 Potable water air valve
	This means the watermain has been disused but remains in the ground.		
	Recycled watermain	—	Potable water valve
	Special supply conditions – potable drinking water		Potable water scour
	Special supply conditions – recycled water		 Potable water reducer / taper
	Restrained joints – Potable drinking water	$\rightarrow \leftarrow$	Potable water vertical bends
	Sewer concrete encased section		Potable water reservoir
-	Restrained joints – Potable drinking water	-× •	 Recycled water is shown as per potable above. Colour as indicated
	Detable water hydrost	<u> </u>	 Private potable water main
	Potable water hydrant Potable water maintenance hole		Private recycled water main
	Potable water stop valve		Private sewer main
	Potable water stop valve with By- pass		







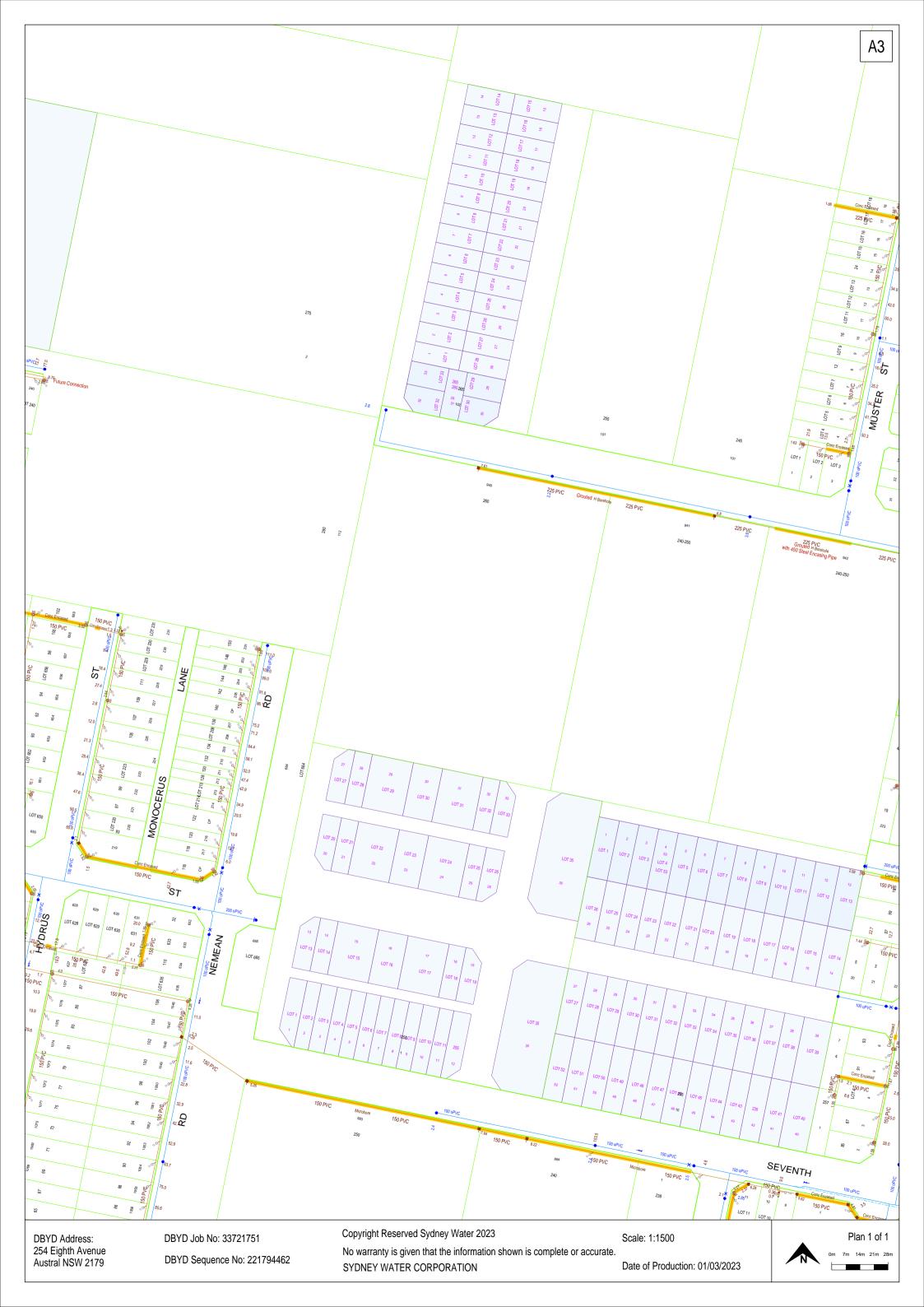


Further Information

Please consult the Dial Before You Dig enquiries page on our website.

For general enquiries please call the Customer Contact Centre on 132 092

In an emergency, or to notify Sydney Water of damage or threats to its structures, call 13 20 90 (24 hours, 7 days)





OPENING ELECTRONIC MAP ATTACHMENTS -

Telstra Cable Plans are generated automatically in either PDF or DWF file types dependant on the site address and the size of area selected. You may need to download and install free viewing software from the internet e.g.

PDF Map Files (max size A3)

Adobe Acrobat Reader (http://get.adobe.com/reader/),

DWF Map Files (all sizes over A3)

Autodesk A360 (https://360.autodesk.com/viewer) or

Autodesk Design Review (<u>http://usa.autodesk.com/design-review/</u>) for DWF files. (Windows)

DWF

Telstra DBYD map related enquiries

email - Telstra.Plans@team.telstra.com

1800 653 935 (AEST Business Hours only)



REPORT ANY DAMAGE TO THE TELSTRA NETWORK IMMEDIATELY

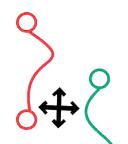
Report online - <u>https://service.telstra.com.au/customer/general/forms/report-damage-to-telstra-equipment</u>

Ph: 13 22 03

If you receive a message asking for a phone or account number say: "I don't have one" then say "Report Damage" then press 1 to speak to an operator.



Telstra New Connections / Disconnections
13 22 00



Telstra asset relocation enquiries:1800 810 443 (AEST business hours only).NetworkIntegrity@team.telstra.comhttps://www.telstra.com.au/consumer-advice/digging-construction



Certified Locating Organisation (CLO)

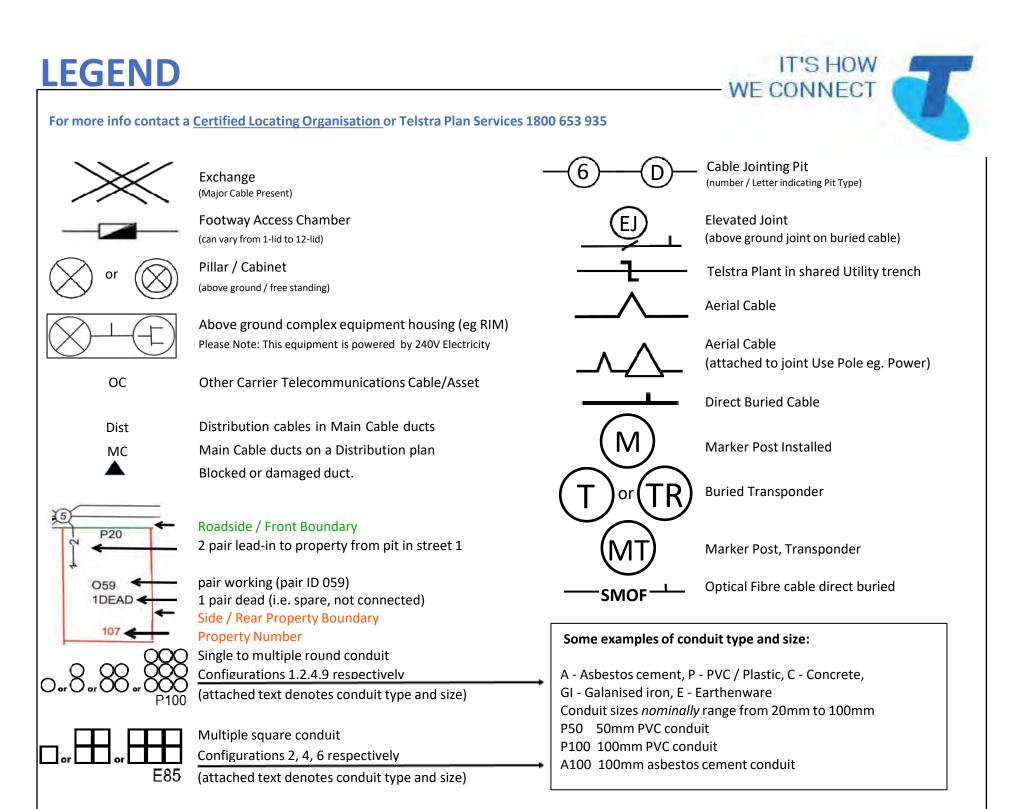
https://dbydlocator.com/certified-locating-organisation/

DBYDCertification B Please refer to attached Accredited Plant Locator.pdf

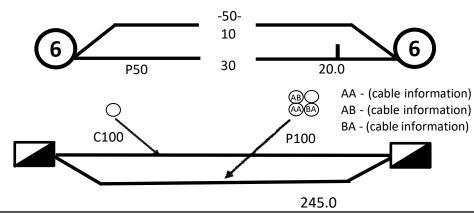


Telstra Smart Communities Information for new developments (developers, builders, homeowners) <u>https://www.telstra.com.au/smart-community</u>

Telstra Map Legend v3_7a



Some Examples of how to read Telstra Plans



One 50mm PVC conduit (P50) containing a 50-pair and a 10-pair cable between two 6-pits. approximately 20.0m apart, with a direct buried 30-pair cable along the same route

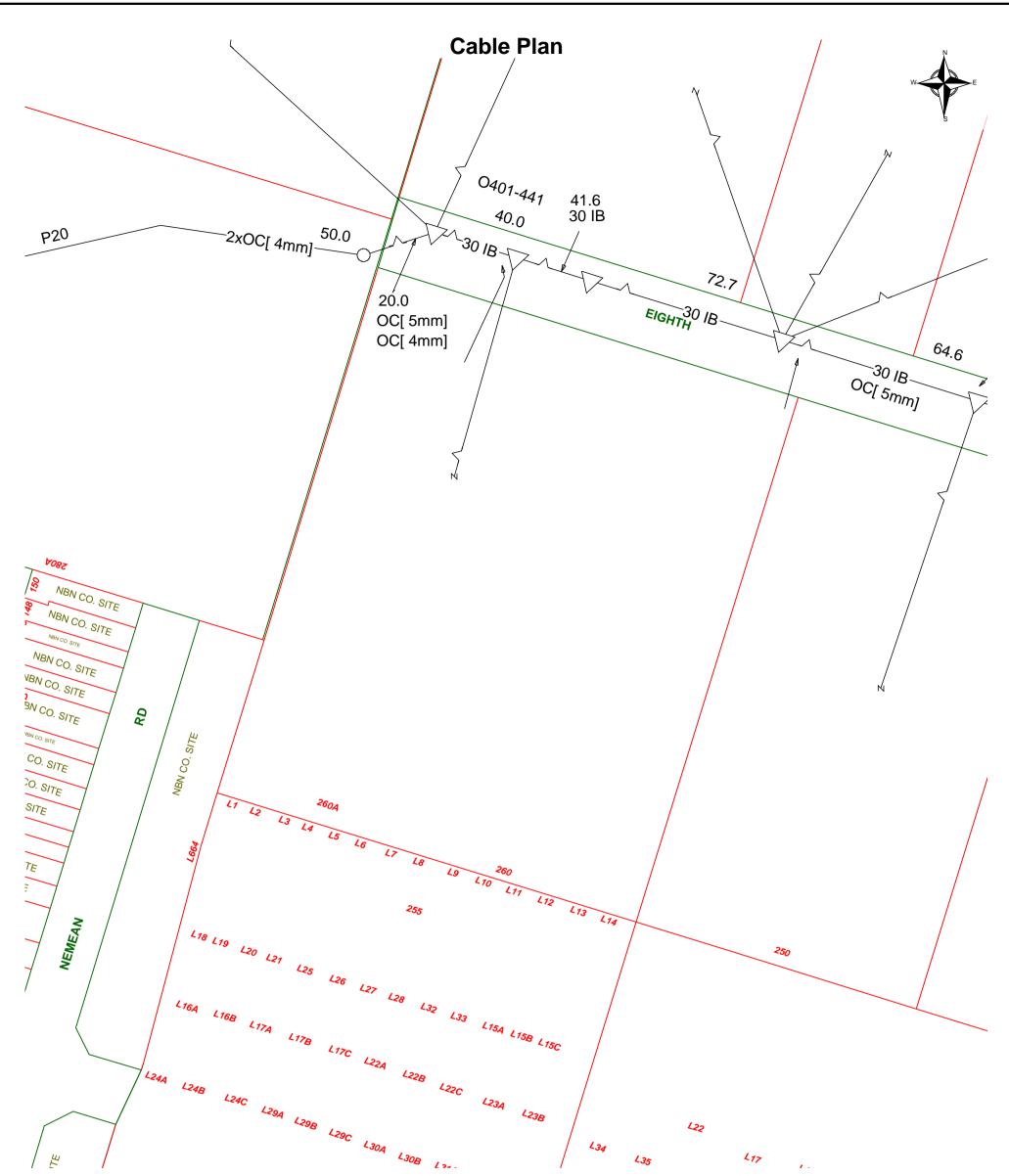
Two separate conduit runs between two footway access chambers (manholes) approximately 245m apart A nest of four 100mm PVC conduits (P100) containing assorted cables in three ducts (one being empty) and one empty 100mm concrete duct (C100) along

WARNING: Telstra plans and location information conform to Quality Level 'D' of the Australian Standard AS 5488 -Classification of Subsurface Utility Information. As such, Telstra supplied location information is indicative only. Spatial accuracy is not applicable to Quality Level D. Refer to AS 5488 for further details. Telstra does not warrant or hold out that its plans are accurate and accepts no responsibility for any inaccuracy shown on the plans. FURTHER ON SITE INVESTIGATION IS REQUIRED TO VALIDATE THE EXACT LOCATION OF TELSTRA PLANT PRIOR TO COMMENCING CONSTRUCTION WORK. A plant location service is an essential part of the process to validate the exact location of Telstra assets and to ensure the assets are protected during construction works. The exact position of Telstra assets can only be validated by physically exposing them. Telstra will seek compensation for damages caused to its property and losses caused to Telstra and its customers.

Telstra Map Legend v3_7a

Page 2

TELSTRA CORPORATION ACN 051 775 556



L34.	/ 235 217 /.
 Report Damage: https://service.telstra.com.au/customer/general/forms/report-damage-to-telstra-equipment Ph - 13 22 03	Sequence Number: 221794464
Email - Telstra.Plans@team.telstra.com Planned Services - ph 1800 653 935 (AEST bus hrs only) General Enquiries	Please read Duty of Care prior to any excavating
TELSTRA LIMITED A.C.N. 086 174 781	
Generated On 01/03/2023 15:23:16	

WARNING

Telstra plans and location information conform to Quality Level "D" of the Australian Standard AS 5488-Classification of Subsurface Utility Information.

As such, Telstra supplied location information is indicative only. Spatial accuracy is not applicable to Quality Level D.

Refer to AS 5488 for further details. The exact position of Telstra assets can only be validated by physically exposing it.

Telstra does not warrant or hold out that its plans are accurate and accepts no responsibility for any inaccuracy.

Further on site investigation is required to validate the exact location of Telstra plant prior to commencing construction work.

A Certified Locating Organisation is an essential part of the process to validate the exact location of Telstra assets and to ensure the asset is protected during construction works.

See the Steps- Telstra Duty of Care that was provided in the email response.

ATTACHMENT C



Subject area



Land Insight & Resources do no warrant the accuracy or completeness of information in this publication and any person using or relying upon such information does so on the basis that this company shall bear no responsibility or liability whatsoever for any errors, faults, defects or omissions in the information.



Subject area



Land Insight & Resources do no warrant the accuracy or completeness of information in this publication and any person using or relying upon such information does so on the basis that this company shall bear no responsibility or liability whatsoever for any errors, faults, defects or omissions in the information.

100m



Subject area



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100m



Subject area



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1001



Subject area



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Subject area



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100m



Subject area



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100m



Subject area



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ATTACHMENT D

Home Public registers POEO Public Register Licences, applications and notices search

Search results

Your search for: General Search with the following criteria

Suburb - austral

returned 17 results

Export to exc	<u>cel</u>	1 of 1 Pages			Search Again	
Number	Name	Location	Туре	Status	Issued date	
<u>1583321</u>	CHRISTOPHER BINOS	235 Tenth Ave, AUSTRAL, NSW 2179	s.91 Clean Up Notice	Issued	31 Mar 2020	
<u>317352918</u>	8CHRISTOPHER BINOS	235 Tenth Ave, AUSTRAL, NSW 2179	Penalty Notice	Issued	06 Aug 2020	
<u>3501075</u>	CHRISTOPHER MURRAY		Up Notice	Issued	30 Sep 2021	
<u>1595824</u>	DUNG LUU	210 GURNER AVENUE, AUSTRAL, NSW 2179	s.91 Clean Up Notice	Issued	06 Oct 2020	
<u>317353034</u>	<u>2</u> FOUAD ARJA	1 KELLY STREET, AUSTRAL, NSW 2179	Penalty Notice	Issued	01 Jul 2021	
<u>1573301</u>	KIET MA	130 Edmondson Avenue, AUSTRAL, NSW 2179	s.91 Clean Up Notice	Issued	21 Feb 2019	
<u>1600802</u>	LOW COST HOUSING NO4 PTY LTD	1 KELLY STREET, AUSTRAL, NSW 2179	s.91 Clean Up Notice	Issued	15 Apr 2021	
<u>1609589</u>	LOW COST HOUSING NO4 PTY LTD	1 KELLY STREET, AUSTRAL, NSW 2179	s.110 Variation of Clean Up Notice	Issued	07 Jun 2021	
<u>1613766</u>	LOW COST HOUSING NO4 PTY LTD	1 KELLY STREET, AUSTRAL, NSW 2179	s.110 Variation of Clean Up	Issued	28 Oct 2021	For business
<u>1614897</u>	LOW COST HOUSING NO4 PTY LTD	1 KELLY STREET, AUSTRAL, NSW 2179	Notice s.110 Variation of Clean Up Notice	Issued	07 Dec 2021	and industry ^
<u>1617640</u>	LOW COST HOUSING NO4 PTY LTD	1 KELLY STREET, AUSTRAL, NSW 2179	s.110 Variation of Clean Up Notice	Issued	29 Mar 2022	For local government ^
<u>1593777</u>	SANJANA CHAND	28-32 BOYD STREET AUSTRAL, NSW 2179		Issued	22 Sep 2020	Contact us
<u>1602214</u>	SANJANA CHAND	28-32 BOYD STREET AUSTRAL, NSW 2179	r,s.110 Variation of Clean Up Notice	Issued	29 Oct 2020	
<u>1611587</u>	SANJANA CHAND	28-32 BOYD STREET AUSTRAL, NSW 2179		Issued	13 Aug 2021	
<u>1789</u>	SCALABRINI VILLAGE LTD	65 EDMONDSON AVE, AUSTRAL, NSW 2171	POEO	Surrender	red25 Sep 2000	
<u>1028758</u>	SCALABRINI VILLAGE LTD	65 EDMONDSON AVE, AUSTRAL, NSW 2171	s.80 / Surrender of a Licence	Issued	13 Jan 2004	
<u>1568507</u>	SUMAN DESHPANDE	210B Seventh Avenue, AUSTRAL, NSW 2179	s.91 Clean Up Notice	Issued	30 Oct 2018	
					05 April 2023	

131 555 (tel:131555)

Online (https://www.epa.nsw.gov.au/about-us/contact-us/feedback)

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

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Search results

Your search for:Suburb: AUSTRAL

did not find any records in our database.

If a site does not appear on the record it may still be affected by contamination. For example:

- Contamination may be present but the site has not been regulated by the EPA under the Contaminated Land Management Act 1997 or the Environmentally Hazardous Chemicals Act 1985.
- The EPA may be regulating contamination at the site through a licence or notice under the Protection of the Environment Operations Act 1997 (POEO Act).
- Contamination at the site may be being managed under the <u>planning</u> process.

More information about particular sites may be available from:

- The POEO public register
- The appropriate planning authority: for example, on a planning certificate issued by the local council under section 149 of the Environmental Planning and Assessment Act.

See What's in the record and What's not in the record.

If you want to know whether a specific site has been the subject of notices issued by the EPA under the CLM Act, we suggest that you search by Local Government Area only and carefully review the sites that are listed.

This public record provides information about sites regulated by the EPA under the Contaminated Land Management Act 1997, including sites currently and previously regulated under the Environmentally Hazardous Chemicals Act 1985. Your inquiry using the above search criteria has not matched any record of current or former regulation. You should consider searching again using different criteria. The fact that a site does not appear on the record does not necessarily mean that it is not affected by contamination. The site may have been notified to the EPA but not yet assessed, or contamination may be present but the site is not yet being regulated by the EPA. Further information about particular sites may be available from the appropriate planning authority, for example, on a planning certificate issued by the local council under section 149 of the Environmental Planning and Assessment Act. In addition the EPA may be regulating contamination at the site through a licence under the Protection of the Environment Operations Act 1997. You may wish to search the POEO public register. POEO public register.

For business and industry ^

5 April 2023

For local government ^

Contact us

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Refine Search
Search TIP

Search Again

To search for a specific site, search by LGA (local government area) and carefully review all sites listed.

... more search tips

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
AUBURN	Department of Corrective Services land adjacent to the former Auburn Landfill	Jamieson STREET	Landfill	Contamination formerly regulated under the CLM Act	-33.82928257	151.0590653
AUBURN	Commercial Premises	11-13 Percy STREET	Other Industry	Under assessment	-33.85021046	151.0410097
AUBURN	Commercial Premises				-53.63021040	131,0410037
AWABA	Awaba Colliery	Wilton ROAD	Other Industry	Regulation under CLM Act not required	-33.02098186	151.5383612
BALGOWLAH	BP Service Station	Cnr Sydney Road and Maretimo STREET	Service Station	Regulation under CLM Act not required	-33.79546175	151.2559309
BALGOWLAH	Part of Manly Council Maintenance Depot	8-10 Roseberry STREET	Other Petroleum	Regulation under CLM Act not required	-33.78928907	151.2679557
BALGOWNIE	Fuel Power Plus	99 Balgownie ROAD	Service Station	Contamination currently regulated under POEO Act	-34.38925632	150.8808544
BALLINA	Former Mobil Service Station	37-41 Cherry STREET	Service Station	Regulation under CLM Act not required	-28.86952673	153.5624436
BALLINA	Ballina Shell	273 River STREET	Service Station	Regulation under CLM Act not required	-28.86809272	153.5552789
BALLINA	Woolworths Petrol	Kerr STREET	Service Station	Regulation under CLM Act not required	-28.85824461	153.5605439
BALLINA	Ballina Mays Motors	River STREET	Other Petroleum	Regulation under CLM Act not required	-28.86935402	153.5585931
BALRANALD	Caltex Service Station	Sturt HIGHWAY	Service Station	Regulation under CLM Act not required	-34.66747746	143.5662034
BANKSIA	Woolworths Petrol Service Station Banksia	314 Princes HIGHWAY	Service Station	Regulation under CLM Act not required	-33.94567308	151.1416884
BANKSIA	Cooks Cove Development	Cooks Cove PARK	Landfill	Regulation under CLM Act not required	-33.94492759	151.1549947
BANKSMEADOW	Orica Botany Groundwater Project	16-20 Beauchamp ROAD	Chemical Industry	Contamination currently regulated under CLM Act	-33.95526361	151.2152005
BANKSMEADOW	Discovery Cove, Former Ampol Rail Terminal	1801 Botany ROAD	Other Petroleum	Regulation being finalised	-33.96162178	151.2184122

ATTACHMENT E



Gas Detector MiniRAE 3000

Company Name	WAM Scientific	
Office Address	26 Bungarra Crescent, Chipping Norton NSW 2170	
Phone Number	umber +61 405 241 484	
Contact Name	William Pak	
Instrument	MiniRAE 3000 (PGM 7320)	
Serial Number	592-932890	
Client Name	Tiffany Mabbott (Geo-Logix)	
Project Number	PO5820TM	

Instrument Check						
Item	Test	Test Passed	Comments			
Li-Ion Rechargeable Battery	Battery Charge and Drain	✓	Unit runs for > 8 hours on a full charge			
Charger and Power Supply	Operation/Check	✓	No damage			
Unit Display	Operation	✓	Screen visible, no damage			
Keypad	Operation	✓	Responsive, no damage			
Pump	Flow Check	✓	Flow rate > 0.5 L/min			
Monitor Housing	Condition/Check	✓	No damage			
Rubber Boot	Check	✓	Clean, no damage			
Flexi Probe	Condition/Check	✓	No leaks, no damage			
Water Trap Filter	Visual Check	✓	Clean			
Alarms	Audible, Visual, Vibration Check	✓	All modes of alarms are functional			
Data Logger	Operation	✓	Unit records data, default set at 60 seconds			
Lamp and Sensor	Clean and Calibration	✓	Lamp and PID sensor cleaned and calibrated			
PCB	Operation	✓	Unit is fully functional			
Firmware	Version	✓	v2.20A			

Instrument Readings							
Parameter Calibration Gas Concentration Reference No. Zero Reading Span Readin							
PID (10.6eV) Isobutylene 100 ppm WO233801-61 0 ppm 100.0 ppm							

Declaration

WAM Scientific certifies that the above instrument was successfully tested according to manufacturer's standards and all necessary checks were conducted to ensure the instrument was fully operational prior to dispatch. The calibration data supplied was obtained in accordance with manufacturer's specifications using gases of known concentrations.

Calibrated By	William Pak
Calibration Date	09/01/2023
Calibration Due	09/07/2023



WAM Scientific: 26 Bungarra Crescent CHIPPING NORTON NSW 2170 T: +61 405 241 484 | +61 424 198 667 E: rentals@wamscientific.com.au E: accounts@wamscientific.com.au

ATTACHMENT F



Geo-Logix Test Pit Logs Detailed Site Investigation Project No.: 2301008 330 - 350 Eighth Avenue, Austral NSW

Location	Depth	Description
	0.0-0.1	Fill - moderate brown (5YR3/4), 35% clay, 55% sand, 10% gravel, damp, well compacted, top soil, semi-rounded gravel, no ACM observed.
TP1	0.1-0.3	Fill - greyish pink (5R8/2), 85% clay, 10% sand, 5% gravel, damp, well compacted, reworked natural clay, semi-rounded gravels, no ACM observed.
	0.3-0.6	Fill - moderate brown (5YR3/4), 35% clay, 55% sand, 10% gravel, damp, well compacted, old top soil, no ACM observed.
	0.6-0.8	Fat Clay (CH) - light red (5R6/6), 85% clay, 10% sand, 5% gravel, damp, firm, high plasticity, rounded gravels.
	0.0-0.7	Fill - moderate brown (5YR3/4), 40% clay, 40% sand, 20% gravel, dry, well compacted, non-fibrous plaster cement fragment observed.
TP2	0.7-1.1	Fat Clay (CH) - moderate reddish orange (10R6/6), 80% clay, 10% sand, 10% gravel, damp, stiff, high plasticity, possibly reworked with some rounded gravel.
	1.1-1.2	Fat Clay (CH) - pale red (10R6/2), 90% clay, 10% sand, damp, firm, high plasticity, presence of ironstone.
TP3	0.0-0.4	Fill - moderate brown (5YR3/4), 40% clay, 40% sand, 20% gravel, wet, well compacted, suspected leaking pipe, top soil, no ACM observed.
	0.4-0.9	Fat Clay (CH) - pale red (5R6/2), 90% clay, 10% sand, wet, firm, high plasticity, water infiltrating at 0.4 m, sheen on water. Fill - moderate brown (5YR4/4), 30% clay, 30% sand, 40% gravel, damp, well compacted, no ACM was observed.
TP4	0.15-0.6	Fill - dark yellowish orange (10YR6/6), 70% clay, 30% sand, damp, well compacted, no ACM was observed.
	0.6-1.0	Fat Clay (Ch) - light grey (N7), 80% clay, 20% sand, damp, stiff, high plasticity.
	0.0-0.3	Fill - moderate brown (5YR3/4), 40% clay, 40% sand, 20% gravel, damp, well compacted, no ACM was observed, top soil, plastic found.
TP5	0.3-0.5	Fat Clay (CH) - light red (5R6/6), 80% clay, 15% sand, 5% gravel, damp, firm, high plasticity, sub rounded gravels.
	0.5-0.6	Fat Clay (CH) - light brown (5YR5/6), 90% clay, 10% sand, damp, firm, high plasticity.
TP6	0.0-0.2	Fill - moderate brown (5YR4/4), 30% clay, 30% sand, 40% gravel, damp, well compacted, no ACM was observed. Fill - dark yellowish orange (10YR6/6), 70% clay, 30% sand, damp, well compacted, no ACM was observed.
IFU	0.2-0.8	Fat Clay (CH) - light grey (N7), 80% clay, 20% sand, damp, stiff, high plasticity.
	0.0-0.4	Fill - moderate brown (5YR3/4), 40% clay, 40% sand, 20% gravel, wet, well compacted, no ACM observed, top soil.
TP7	0.4-0.7	Fat Clay (CH) - light brown (5YR5/6), 80% clay, 15% sand, 5% gravel, wet, soft, high plasticity, water infiltrating around 0.4 m.
	0.7-0.9	Fat Clay (CH) - pale red (5R6/2), 90% clay, 10% sand, wet, soft, high plasticity.
	0.0-0.15	Fill - moderate brown (5YR3/4), 40% clay, 60% sand, dry, well compacted, top soil.
TP8	0.15-1.0	Fill - moderate brown (5YR3/4), 40% clay, 40% sand, 20% gravel, dry, well compacted, non-fibrous plaster cement fragment, brick, plastic, concrete pieces.
	1.0-1.3	Fat Clay (CH) - light red (5R6/6), 90% clay, 10% sand, damp, firm, high plasticity.
	0.0-0.3	Fill - moderate brown (5YR3/4), 30% clay, 60% sand, 10% gravel, damp, well compacted, top soil, no ACM, concrete pieces, plastic pieces.
TP9		
11.5	0.3-0.4	Fill - pale red (5R6/2), 80% clay, 15% sand, 5% gravel, damp, well compacted, top 0.1 m has reworked clay, semi angular gravel.
	0.4-0.6	Fat Clay (CH) - moderate reddish orange (10R6/6), 90% clay, 10% sand, damp, firm, high plasticity.
TP10	0.0-0.5	Fill - moderate brown (5YR3/4), 40% clay, 55% sand, 5% gravel, damp, well compacted, top soil, some plastic pieces, no ACM. Fat Clay (CH) - moderate reddish orange (10R6/6), 85% clay, 10% sand, 5% gravel, damp, stiff, high plasticity, some subangular gravel.
	0.0-0.3	Fill - moderate brown (5YR4/4), 40% clay, 30% sand, 30% gravel, damp, well compacted, no ACM observed.
TP11	0.3-0.6	Sandy Clay (CH) - dark yellowish orange (10YR6/6), 70% clay, 30% sand, damp, firm, high plasticity.
	0.6-1.0	Fat Clay (CH) - light grey (N7), 90% clay, 10% sand, damp, firm, high plasticity.
TP12	0.0-0.4	Fill - moderate brown (5YR4/4), 40% clay, 30% sand, 30% gravel, damp, well compacted, no ACM was observed.
	0.4-1.0	Fat Clay (CH) - dark yellowish orange (10YR6/6), 80% clay, 20% sand, damp, stiff, high plasticity. Fill - moderate brown (5YR3/4), 40% clay, 40% sand, 20% gravel, damp, well compacted, top soil, non-fibrous plaster cement fragment
TP13	0.0-0.0	observed.
	0.3-0.6	Fat Clay (CH) - moderate red (5R4/6), 90% clay, 10% sand, damp, firm, high plasticity.
TP14	0.0-0.3	Fill - moderate brown (5YR4/4), 40% clay, 30% sand, 30% gravel, damp, well compacted, no ACM was observed.
	0.3-1.0	Fat Clay (CH) - moderate reddish orange (10R6/6), 80% clay, 20% sand, damp, stiff, high plasticity. Fill - moderate brown (5YR3/4), 40% clay, 40% sand, 20% gravel, dry, well compacted, top soil, bricks found, potential ACM fragment
TP15	0.0-0.0	observed.
	0.5-0.7	Fat Clay (CH) - moderate reddish orange (10R6/6), 80% clay, 10% sand, 10% gravel, damp, firm, high plasticity.
	0.0-0.4	Fill - moderate brown (5YR3/4), 40% clay, 55% sand, 5% gravel, damp, well compacted, no ACM was observed, top soil, sub angular
TD40		gravel.
TP16	0.4-0.7	Fat Clay (CH) - light brown (5YR5/6), 85% clay, 10% sand, 5% gravel, damp, stiff, high plasticity, some rounded gravel.
	0.7-0.9	Fat Clay (CH) - moderate reddish orange (10R6/6), 90% clay, 10% sand, damp, firm, high plasticity.
TP17	0.0-0.4	Fill - moderate brown (5YR3/4), 40% clay, 55% sand, 5% gravel, moist, well compacted, top soil, semi angular gravel, no ACM observed.
1617	0.4-0.65	Fill - pale red (5R6/2), 20% clav, 20% sand, 60% gravel, wet, well compacted, septic trench pit, wet, gravel,
	0.0-0.3	Fill - moderate brown (5YR3/4), 40% clay, 50% sand, 10% gravel, damp, well compacted, opsoil, no. ACM was observed.
TP18	0.3-0.6	Fat Clay (CH) - dark yellowish orange (10YR6/6), 85% clay, 10% sand, 5% gravel, damp, soft, medium plasticity, some sub angular gravel.
	0000	
	0.6-0.8	Fat Clay (CH) - pale red (10R6/2), 90% clay, 10% sand, damp, firm, high plasticity. Fill - moderate brown (5YR4/4), 60% clay, 40% sand, damp, well compacted, no ACM was observed.
TP19	0.25-0.6	Sandy Clay (CH) - moderate red (5R4/6), 70% clay, 30% sand, damp, firm.
	0.6-0.8	Fat Clay (CH) - light grey (N7), 90% clay, 10% sand, damp, firm, high plasticity.
TP20	0.0-0.2	Fill - moderate brown (5YR4/4), 40% clay, 30% sand, 30% gravel, damp, well compacted, no ACM was observed.
	0.2-1.0	Fat Clay (CH) - moderate reddish orange (10R6/6), 80% clay, 20% sand, damp, stiff, high plasticity.
TP21	0.0-0.2	Fill - moderate brown (5YR4/4), 30% clay, 40% sand, 30% gravel, dry, well compacted, no ACM was observed. Fat Clay (CH) - dark yellowish orange (10YR6/6), 80% clay, 20% sand, damp, stiff, high plasticity.
	0.2-0.9	Fat Clay (CH) - light grey (N7), 80% clay, 20% sand, damp, stiff, high plasticity.
	0.0-0.4	Fill - moderate brown (5YR3/4), 40% clay, 40% sand, 20% gravel, dry, well compacted, top soil, no ACM observed.
TP22	0.4-0.6	Fat Clay (CH) - greyish orange (10YR7/4), 70% clay, 20% sand, 10% gravel, dry, firm, medium plasticity.
	0.6-0.8	Fat Clay (CH) - moderate red (5R4/6), 90% clay, 10% sand, damp, firm, high plasticity.
	0.0-0.2	Fill - moderate brown (5YR4/4), 30% clay, 40% sand, 30% gravel, dry, well compacted, no ACM observed. Fill - very pale orange (10YR8/2), 30% clay, 30% sand, 40% gravel, dry, well compacted.
TP23	0.25-0.25	Fat Clay (CH) - dark yellowish orange (10YR6/6), 80% clay, 20% sand, damp, stiff, high plasticity.
	0.9-1.5	Fat Clay (CH) - light grey (N7), 90% clay, 10% sand, damp, stiff, high plasticity.
	0.0-0.4	Fill - moderate brown (5YR3/4), 40% clay, 55% sand, 5% gravel, damp, medium dense, No ACM, top soil, gravel.
TP24	0.4-0.9	Fat Clay (CH) - very dark red (5R2/6), 85% clay, 15% sand, damp, soft, high plasticity.
	0.9-1.0	Fat Clay (CH) - dark yellowish orange (10YR6/6), 85% clay, 15% sand, damp, soft, high plasticity.



 Geo-Logix
 Test Pit Logs

 Detailed Site Investigation
 Project No.: 2301008

 330 - 350 Eighth Avenue,
 Austral NSW

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Location	Depth	Description
	0.0-0.2	Fill - moderate brown (5YR3/4), 40% clay, 55% sand, 5% gravel, damp, well compacted, some plastic film, no ACM observed, top soil,
TDOF	0.0 0.2	subrounded gravel.
TP25	0.2-0.5	Fat Clay (CH) - pale red (5R6/2), 80% clay, 15% sand, 5% gravel, damp, firm.
	0.5-0.7	Fat Clay (CH) - moderate reddish orange (10R6/6), 90% clay, 10% sand, damp, firm, high plasticity.
TP26	0.0-0.3	Fill - moderate brown (5YR3/4), 40% clay, 50% sand, 10% gravel, damp, well compacted, no ACM was observed, top soil. Fat Clay (CH) - light brown (5YR5/6), 85% clay, 10% sand, 5% gravel, damp, stiff, high plasticity, subangular gravel.
IF20	0.3-0.8	Fat Clay (CH) - light brown (51R5/6), 65% clay, 10% sand, 5% gravel, damp, sun, high plasticity, subangular gravel. Fat Clay (CH) - pale red (10R6/2), 90% clay, 10% sand, damp, firm, high plasticity.
	0.0-0.3	Fill - moderate brown (5YR4/4), 30% clay, 40% sand, 30% gravel, damp, well compacted, no ACM observed.
TP27	0.3-1.0	Fat Clay (CH) - dark yellowish orange (10YR6/6), 80% clay, 20% sand, damp, stiff, high plasticity.
	1.0-1.5	Fat Clay (CH) - light grey (N7), 80% clay, 20% sand, damp, stiff, high plasticity.
	0.0-0.4	Fill - moderate brown (5YR3/4), 40% clay, 40% sand, 20% gravel, dry, well compacted, top soil, no ACM was observed.
TP28	0.4-0.5	Fill - moderate brown (5YR4/4), 50% clay, 40% sand, 10% gravel, dry, well compacted, no ACM was observed. Sandy Clay (CL) - grevish orange (10YR7/4), 70% clay, 20% sand, 10% gravel, dry, firm, medium plasticity.
	0.3-0.8	Fat Clay (CH) - pale red (10R6/2), 90% clay, 10% sand, damp, firm, high plasticity.
	0.0-0.4	Fill - moderate brown (5YR3/4), 40% clay, 40% sand, 20% gravel, damp, well compacted, top soil, no ACM was observed.
TP29	0.4-0.7	Sandy Clay (CL) - greyish orange (10YR7/4), 70% clay, 20% sand, 10% gravel, damp, firm, medium plasticity, semi rounded gravel.
	0.7-0.9	Fat Clay (CH) - greyish pink (5R8/2), 90% clay, 10% sand, damp, firm, high plasticity.
TD20	0.0-0.3	Fill - moderate brown (5YR4/4), 30% clay, 40% sand, 30% gravel, damp, well compacted, no ACM observed.
TP30	0.3-0.7	Fat Clay (CH) - dark yellowish orange (10YR6/6), 80% clay, 20% sand, damp, stiff, high plasticity. Fat Clay (CH) - light grey (N7), 90% clay, 10% sand, damp, stiff, high plasticity.
	0.0-0.3	Fill - moderate brown (5YR3/4), 40% clay, 40% sand, 20% gravel, damp, well compacted, top soil, no ACM was observed.
TP31	0.3-0.4	Fill - moderate brown (5YR4/4), 50% clay, 40% sand, 10% gravel, damp, well compacted, old top soil, no ACM observed.
1831	0.4-0.6	Sandy Clay (CH) - greyish orange (10YR7/4), 70% clay, 20% sand, 10% gravel, damp, firm, high plasticity, sub rounded gravel.
	0.6-0.7	Fat Clay (CH) - moderate red (5R4/6), 90% clay, 10% sand, damp, firm, high plasticity.
	0.0-0.3	Fill - moderate brown (5YR3/4), 40% clay, 50% sand, 10% gravel, damp, well compacted, top soil, sub angular gravels, no ACM was
	0.2.0.4	observed.
TP32	0.3-0.4	Fill - moderate orange pink (10R7/4), 50% clay, 40% sand, 10% gravel, dry, well compacted, sub rounded gravels, no ACM was observed.
	0.4-1.3	Fat Clay (CH) - modrate yellowish brown (10YR5/4), 90% clay, 10% sand, damp, firm, high plasticity.
	1.3-3.0	Fat Clay (CH) - dark yellowish orange (10YR6/6), 85% clay, 15% sand, damp, soft, high plasticity, sub rounded gravel.
TP33	0.0-0.2	Fill - moderate brown (5YR3/4), 40% clay, 60% sand, damp, well compacted, top soil, no ACM was observed.
	0.2-0.5	Fat Clay (CH) - light brown (5YR5/6), 85% clay, 15% sand, damp, very stiff, high plasticity.
	0.0-0.2	Fill - moderate brown (5YR3/4), 40% clay, 55% sand, 5% gravel, damp, well compacted, top soil, semi-rounded gravel, black plastic sheet
TP34	0.2-0.3	found, no ACM observed. Fill - moderate brown (5YR4/4), 30% clay, 65% sand, 5% gravel, dry, well compacted, finer sand.
	0.3-0.6	Fat Clay (CH) - moderate redisis orange (0108/6), 80% clay, 15% sand, 5% gravel, damp, stiff, high plasticity, semi rounded gravel.
	0.0-0.3	Fill - moderate brown (5YR4/4), 30% clay, 40% sand, 30% gravel, damp, well compacted, no ACM observed.
TP35	0.3-0.6	Fill - very pale orange (10YR8/2), 30% clay, 30% sand, 40% gravel, damp, well compacted, no ACM observed.
-	0.6-1.0	Fat Clay (CH) - dark yellowish orange (10YR8/6), 80% clay, 20% sand, damp, stiff, high plasticity.
	0.0-0.3	Fill - moderate brown (5YR3/4), 40% clay, 40% sand, 20% gravel, dry, well compacted, top soil, gravel, black plastic, no ACM observed.
TP36	0.3-0.8	Fill - moderate reddish orange (10R6/6), 40% clay, 50% sand, 10% gravel, dry, well compacted, charcoal wooden pieces found, no ACM
		found.
	0.8-0.9	Fat Clay (CH) - pale red (10R6/2), 85% clay, 15% sand, dry, firm, medium plasticity.
TP37	0.0-0.2	Fill - moderate brown (5YR4/4), 30% clay, 40% sand, 30% gravel, dry, well compacted, no ACM was observed.
1537	0.2-0.9	Fat Clay (CH) - dark yellowish orange (10YR6/6), 80% clay, 20% sand, damp, stiff, high plasticity. Fat Clay (CH) - light grey (N7), 70% clay, 30% sand, damp, stiff, high plasticity.
	0.0-0.6	Fill - moderate brown (5YR3/4), 40% clay, 40% sand, 20% gravel, dry, well compacted, lumps of clay, bricks, concrete, tin, plastic
TP38		observed, no ACM was observed.
	0.6-0.8	Fat Clay (CH) - moderate red (5R4/6), 90% clay, 10% sand, damp, firm, high plasticity.
	0.0-0.6	Fill - moderate brown (5YR3/4), 40% clay, 50% sand, 10% gravel, damp, well compacted, top soil, no ACM was observed.
TP39	0.6-1.0	Gravelly Clay (CL) - moderate reddish orange (10R6/6), 70% clay, 10% sand, 20% gravel, damp, soft, medium plasticity, semi rounded gravel.
	1.0-1.5	Fat Clay (CH) - pale red (5R6/2), 90% clay, 10% sand, damp, soft, high plasticity.
	0.0-0.15	Fill - moderate brown (5YR3/4), 40% clay, 55% sand, 5% gravel, damp, well compacted, top soil with semi rounded gravel, black plastic
TP40		shells found, no ACM was observed.
11 70	0.15-0.40	Fat Clay (CH) - moderate reddish orange (10R6/6), 80% clay, 15% sand, 5% gravel, damp, very stiff, high plasticity, presence of ironstone.
	0.0.0.0	
	0.0-0.3	Fill - moderate brown (5YR3/4), 40% clay, 40% sand, 20% gravel, damp, well compacted, no ACM was observed, top soil, black plastic
TP41	0 2 0 7	found.
	0.3-0.7 0.7-3.0	Fat Clay (CH) - greyish orange (10YR7/4), 80% clay, 10% sand, 10% gravel, damp, firm, high plasticity. Fat Clay (CH) - moderate red (5R4/6), 90% clay, 10% sand, damp, firm, high plasticity.
	0.0-0.3	Fill - moderate brown (5YR3/4), 40% clay, 40% sand, 20% gravel, damp, well compacted, no ACM was observed.
TP42	0.3-0.5	Fat Clay (CH) - light brown (5YR5/6), 80% clay, 15% sand, 5% gravel, damp, firm, high plasticity.
	0.5-0.8	Fat Clay (CH) - pale red (5R6/2), 90% clay, 10% sand, damp, soft, high plasticity.
TP43	0.0-0.7	Fill - moderate brown (5YR4/4), 50% clay, 40% sand, 10% gravel, damp, well compacted, no ACM was observed.
	0.7-1.0	Fat Clay (CH) - dark yellowish orange (10YR6/6), 80% clay, 20% sand, damp, stiff, high plasticity.
1		Fill - moderate brown (5YR3/4), 35% clay, 55% sand, 10% gravel, damp, well compacted, some angular gravels, no ACM observed. Fill - light red (5R6/6), 85% clay, 10% sand, 5% gravel, damp, well compacted, no ACM observed.
TP44	0.05-0.15	Fill - moderate brown (5YR3/4), 35% clay, 55% sand, 10% gravel, damp, well compacted, no ACM observed.
	0.3-3.0	Fat Clay (CH) - light red (5R6/6), 85% clay, 10% sand, 5% gravel, damp, firm, high plasticity, Presence of red iron stone.
	0.0-0.5	Fill - moderate brown (5YR3/4), 40% clay, 40% sand, 10% gravel, damp, well compacted, top soil, some plastic pieces, no ACM.
TP45	0.5-0.7	Fat Clay (CH) - moderate reddish orange (10R6/6), 85% clay, 15% sand, 5% gravel, damp, stiff, high plasticity, top 0.1 m reworked clay,
	0004	sub angular and sub rounded gravel found.
TP46	0.0-0.4	Fill - greyish black (N2), 60% clay, 30% sand, 10% gravel, moist, well compacted, no ACM was observed. Fat Clay (CH) - dark yellowish orange (10YR6/6), 80% clay, 20% sand, damp, stiff, high plasticity.
L	0.4-1.0	n at Giay (Grif) - dant yellowish Grange (10 mto/0), ou /0 day, 20 /0 sand, damp, still, high plasticity.



Geo-Logix

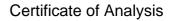
Test Pit Logs Detailed Site Investigation Project No.: 2301008

330 - 350 Eighth Avenue,

Austral NSW

Description Location Depth 0.0-0.4 Fill - moderate brown (5YR4/4), 50% clay, 40% sand, 10% gravel, damp, well compacted, no ACM was observed. TP47 Fat Clay (CH) - dark yellowish orange (10YR6/6), 80% clay, 20% sand, damp, stiff, high plasticity 0.4-1.0 0.0-0.2 Fill - moderate brown (5YR4/4), 40% clay, 30% sand, 30% gravel, damp, well compacted, no ACM was observed. TP48 Fat Clay (CH) - moderate reddish orange (10R6/6), 80% clay, 20% sand, damp, stiff, high plasticity 0 2-1 0 Fill - moderate brown (5YR4/4), 30% clay, 30% sand, 40% gravel, damp, well compacted, no ACM was observed. 0.0-0.25 TP49 0.25-1.0 Fat Clay (CH) - dark yellowish orange (10YR6/6), 80% clay, 20% sand, damp, stiff, high plasticity. Fill - moderate brown (5YR4/4), 25% clay, 25% sand, 50% gravel, damp, well compacted, top soil with grass, presence of gravel, no ACM 0.0-0.4 **TP50** was observed 0.4-1.0 Fat Clay (CH) - dark yellowish orange (10YR6/6), 80% clay, 20% sand, damp, firm, high plasticity 0.0-0.3 Fill - moderate brown (5YR3/4), 40% clay, 55% sand, 5% gravel, damp, well compacted, no ACM was observed, top soil. Fat Clay (CH) - light brown (5YR5/6), 85% clay, 10% sand, 5% gravel, damp, stiff, high plasticity, reworked natural clay, sub-angular gravel. 0 3-0 6 TP51 Fat Clay (CH) - moderate reddish orange (10R6/6), 90% clay, 10% sand, damp, firm, high plasticity. 0.6-0.8 Fill - moderate brown (5YR3/4), 30% clay, 60% sand, 10% gravel, damp, well compacted, top soil, gravels, concrete, plastic and brick 0.0-0.5 pieces, no ACM found Fill - pale red (5R6/2), 80% clay, 15% sand, 5% gravel, damp, well compacted, semi-angular gravels, reworked natural clay, no ACM TP52 0.5-0.6 observed 0.6-0.9 Fat Clay (CH) - moderate reddish orange (10R6/6), 90% clay, 10% sand, damp, firm, high plasticity, native soil. 0.0-0.3 Fill - moderate brown (5YR3/4), 40% clay, 55% sand, 5% gravel, damp, well compacted, No ACM observed, top soil, occasional gravel. TP53 Fat Clay (CH) - light brown (5YR5/6), 85% clay, 10% sand, 5% gravel, damp, stiff, high plasticity, reworked clay, sub gravels. 0.3-0.7 0.7-0.9 Fat Clay (CH) - moderate reddish orange (10R6/6), 90% clay, 10% sand, damp, firm, high plasticity. 0.0-0.4 Fill - moderate brown (5YR3/4), 40% clay, 40% sand, 20% gravel, damp, well compacted, no ACM was observed, semi-rounded gravel TP54 found. 0.4-0.7 Gravelly Clay (CL) - light brown (5YR6/4), 70% clay, 10% sand, 20% gravel, damp, soft, high plasticity. Fill - moderate brown (5YR4/4), 40% clay, 30% sand, 30% gravel, damp, well compacted, no ACM was observed. 0.0-0.2 TP55 0.2-1.0 Fat Clay (CH) - moderate reddish orange (10R6/6), 80% clay, 20% sand, damp, stiff, high plasticity. 0.0-0.3 Fill - moderate brown (5YR4/4), 30% clay, 40% sand, 30% gravel, dry, well compacted, no ACM was observed. TP56 0.3-1.0 Fat Clay (CH) - moderate red (5R4/6), 80% clay, 20% sand, damp, stiff, high plasticity. Fill - moderate brown (5YR4/4), 30% clay, 60% sand, 10% gravel, dry, well compacted, no ACM was observed. Fill - dark yellowish orange (10YR6/6), 20% clay, 70% sand, 10% gravel, damp, well compacted. 0 0-0 15 0.15-0.3 TP57 Fill - light grey (N7), 60% clay, 40% sand, damp, well compacted 0.3-1.2 Fat Clay (CH) - light grey (N7), 80% clay, 20% sand, damp, stiff, high plasticity. 1.2-1.3 0.0-0.3 Fill - moderate brown (5YR3/4), 40% clay, 40% sand, 20% gravel, dry, well compacted, top soil, no ACM observed TP59 0.3-0.7 Fat Clay (CH) - moderate reddish orange (10R6/6), 70% clay, 20% sand, 10% gravel, damp, firm, medium plasticity. 0.7-1.5 Fat Clay (CH) - pale red (10R6/2), 85% clay, 15% sand, damp, firm, medium plasticity. Fill - moderate brown (5YR4/4), 30% clay, 40% sand, 30% gravel, dry, well compacted, no ACM was observed. Fat Clay (CH) - dark yellowish orange (10YR6/6), 80% clay, 20% sand, damp, stiff, high plasticity. 0.0-0.2 **TP60** 0.2-0.5 Fat Clay (CH) - moderate reddish orange (10R6/6), 90% clay, 10% sand, damp, stiff, high plasticity 0.5-1.0 0.0-0.15 Asphalt 0.15-0.7 Fill - light grey (N7), 80% clay, 20% sand, damp, well compacted, No ACM was observed. 0.7-2.0 Fat Clay (CH) - moderate red (5R4/6), 80% clay, 20% sand, damp, stiff, high plasticity, V-bit refusal at 2m, change to TC bit BH2 Fat Clay (CH) - light brown (5YR5/6), 80% clay, 20% sand, damp, stiff, high plasticity. 2.0-2.3 2.3-3.6 Fat Clay (CH) - light grey (N7), 80% clay, 20% sand, damp, stiff, high plasticity, Shale at 3.6 m. 3.6-9.0 Weathered Shale - light grey (N7), 80% clay, 20% sand, damp, hard.

ATTACHMENT G



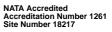
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Environment Testing

Geo-Logix P/L Bld Q2 Level 3, 2309/4 Daydream St Warriewood NSW 2102



NATA



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.

Ted Lilly

Report Project name Project ID Received Date **971509-S** AUSTRAL - PRIMARY 2301008 Mar 10, 2023

Client Sample ID			TP60/0-0.2	TP37/0-0.2	TP27/0-0.2	TP30/0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
			S23-	S23-	S23-	S23-
Eurofins Sample No.			Ma0031528	Ma0031529	Ma0031530	Ma0031531
Date Sampled			Mar 08, 2023	Mar 08, 2023	Mar 08, 2023	Mar 08, 2023
Test/Reference	LOR	Unit				
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	0.14	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	0.14	< 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
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	0.28	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	0.28	< 0.1
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Dibutylchlorendate (surr.)	1	%	89	93	108	97
Tetrachloro-m-xylene (surr.)	1	%	99	95	97	96
Heavy Metals						
Arsenic	2	mg/kg	19	23	16	13
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	36	39	27	26
Copper	5	mg/kg	17	18	27	13
Lead	5	mg/kg	15	18	18	26
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	< 5	5.2	< 5
Zinc	5	mg/kg	36	49	43	28



Environment Testing

Client Sample ID			TP60/0-0.2	TP37/0-0.2	TP27/0-0.2	TP30/0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S23- Ma0031528	S23- Ma0031529	S23- Ma0031530	S23- Ma0031531
Date Sampled			Mar 08, 2023	Mar 08, 2023	Mar 08, 2023	Mar 08, 2023
Test/Reference	LOR	Unit				
Sample Properties						
% Moisture	1	%	8.1	10	8.9	11

Client Sample ID			TP35/0-0.2	TP35/0.3-0.5	TP35/0.6-0.8	TP21/0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S23- Ma0031532	S23- Ma0031533	S23- Ma0031534	S23- Ma0031536
Date Sampled			Mar 08, 2023	Mar 08, 2023	Mar 08, 2023	Mar 08, 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	%	66	-	-	114
Tetrachloro-m-xylene (surr.)	1	%	72	-	-	103
Heavy Metals						
Arsenic	2	mg/kg	12	-	-	19
Cadmium	0.4	mg/kg	< 0.4	-	-	< 0.4
Chromium	5	mg/kg	25	-	-	41
Copper	5	mg/kg	24	-	-	25
Lead	5	mg/kg	16	-	-	18
Mercury	0.1	mg/kg	< 0.1	-	-	< 0.1
Nickel	5	mg/kg	< 5	-	-	< 5
Zinc	5	mg/kg	30	-	-	44
Sample Properties	·					
% Moisture	1	%	7.1	7.4	15	12



Client Sample ID			TP35/0-0.2	TP35/0.3-0.5	TP35/0.6-0.8	TP21/0-0.2
Sample Matrix			Soil S23-	Soil S23-	Soil S23-	Soil S23-
Eurofins Sample No.			Ma0031532	Ma0031533	Ma0031534	Ma0031536
Date Sampled			Mar 08, 2023	Mar 08, 2023	Mar 08, 2023	Mar 08, 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	%	101	-	-	-
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	111g/kg %	70	-	-	-
p-Terphenyl-d14 (surr.)	1	%	70	-	-	-



Client Sample ID			TP35/0-0.2	TP35/0.3-0.5	TP35/0.6-0.8	TP21/0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S23- Ma0031532	S23- Ma0031533	S23- Ma0031534	S23- Ma0031536
Date Sampled			Mar 08, 2023	Mar 08, 2023	Mar 08, 2023	Mar 08, 2023
Test/Reference	LOR	Unit				
Chloride	10	mg/kg	< 10	< 10	320	-
Conductivity (1:5 aqueous extract at 25 °C as rec.)	10	uS/cm	15	20	260	-
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	5.9	5.8	6.0	-
Resistivity*	0.5	ohm.m	660	500	38	-
Sulphate (as SO4)	10	mg/kg	20	32	130	-

Client Sample ID			TP23/0-0.2	TP14/0-0.2	TP14/0.3-0.5	TP20/0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
			S23-	S23-	S23-	S23-
Eurofins Sample No.			Ma0031537	Ma0031539	Ma0031540	Ma0031542
Date Sampled			Mar 08, 2023	Mar 08, 2023	Mar 08, 2023	Mar 08, 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	-	0.06
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	-	0.06
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	%	111	115	-	114
Tetrachloro-m-xylene (surr.)	1	%	102	101	-	101
Heavy Metals						
Arsenic	2	mg/kg	17	20	-	9.9
Cadmium	0.4	mg/kg	< 0.4	< 0.4	-	< 0.4
Chromium	5	mg/kg	31	44	-	24
Copper	5	mg/kg	24	17	-	26
Lead	5	mg/kg	20	23	-	17
Mercury	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Nickel	5	mg/kg	6.6	5.2	-	< 5
Zinc	5	mg/kg	38	47	-	46



Client Sample ID			TP23/0-0.2	TP14/0-0.2	TP14/0.3-0.5	TP20/0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S23- Ma0031537	S23- Ma0031539	S23- Ma0031540	S23- Ma0031542
Date Sampled			Mar 08, 2023	Mar 08, 2023	Mar 08, 2023	Mar 08, 2023
Test/Reference	LOR	Unit				
Sample Properties	ł	-				
% Moisture	1	%	9.6	12	22	9.2
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	100	ing/ng	100			
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	0.1	mg/kg	< 0.2	< 0.2	-	
o-Xylene	0.2	mg/kg	< 0.2	< 0.1		
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	-	
4-Bromofluorobenzene (surr.)	1	<u> </u>	80	73	-	
Total Recoverable Hydrocarbons - 2013 NEPM	-	70	00	13		
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	_	
Polycyclic Aromatic Hydrocarbons	0.0	iiig/kg	< 0.5	< 0.5		
Benzo(a)pyrene TEQ (lower bound) *	0.5	ma/ka	< 0.5	< 0.5		
Benzo(a)pyrene TEQ (nedium bound) *	0.5	mg/kg	0.6	0.6	-	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg mg/kg	1.2	1.2	-	-
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	-	-
•	0.5		< 0.5	< 0.5		
Acenaphthylene		mg/kg			-	-
Anthracene Benz(a)anthracene	0.5	mg/kg mg/kg	< 0.5	< 0.5		-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(a)pyrene 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(g.n.)perylene 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		< 0.5	< 0.5	-	-
ndeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	
	0.5	mg/kg mg/kg	< 0.5	< 0.5		-
Naphthalene					-	-
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	-	-
	0.5	mg/kg	< 0.5	< 0.5	-	-
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	-	-
2-Fluorobiphenyl (surr.)	1	%	100	100	-	-



Client Sample ID			TP23/0-0.2	TP14/0-0.2	TP14/0.3-0.5	TP20/0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S23- Ma0031537	S23- Ma0031539	S23- Ma0031540	S23- Ma0031542
Date Sampled			Mar 08, 2023	Mar 08, 2023	Mar 08, 2023	Mar 08, 2023
Test/Reference	LOR	Unit				
Chloride	10	mg/kg	-	21	130	-
Conductivity (1:5 aqueous extract at 25 °C as rec.)	10	uS/cm	-	38	220	-
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	-	6.3	5.4	-
Resistivity*	0.5	ohm.m	-	270	45	-
Sulphate (as SO4)	10	mg/kg	-	21	370	-

Client Sample ID			TP12/0-0.2	TP57/0.3-0.5	TP4/0.15-0.35	TP6/0.2-0.4
Sample Matrix			Soil	Soil	Soil	Soil
			S23-	S23-	S23-	S23-
Eurofins Sample No.			Ma0031543	Ma0031544	Ma0031546	Ma0031548
Date Sampled			Mar 08, 2023	Mar 08, 2023	Mar 08, 2023	Mar 08, 2023
Test/Reference	LOR	Unit				
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
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	%	144	146	135	84
Tetrachloro-m-xylene (surr.)	1	%	98	104	105	68
Heavy Metals						
Arsenic	2	mg/kg	17	15	6.2	7.7
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	29	31	14	13
Copper	5	mg/kg	13	19	8.6	8.2
Lead	5	mg/kg	17	20	8.6	8.9
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	24	23	9.4	7.3



Client Sample ID			TP12/0-0.2	TP57/0.3-0.5	TP4/0.15-0.35	TP6/0.2-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S23- Ma0031543	S23- Ma0031544	S23- Ma0031546	S23- Ma0031548
Date Sampled			Mar 08, 2023	Mar 08, 2023	Mar 08, 2023	Mar 08, 2023
•		Linit	Wai 00, 2025	War 00, 2025	Wai 00, 2023	
Test/Reference	LOR	Unit				
Sample Properties						
% Moisture	1	%	19	15	14	18
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	59	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	120	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	179	< 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	150	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	150	< 100	< 100	< 100
BTEX		-				
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	78	69	111	73
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
Fluorantinene	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		< 0.5	< 0.5	< 0.5	< 0.5
•		mg/kg				
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
	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	%	98	101	98	66
p-Terphenyl-d14 (surr.)	1	%	98	105	104	74



Client Sample ID			TP12/0-0.2	TP57/0.3-0.5	TP4/0.15-0.35	TP6/0.2-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S23- Ma0031543	S23- Ma0031544	S23- Ma0031546	S23- Ma0031548
Date Sampled			Mar 08, 2023	Mar 08, 2023	Mar 08, 2023	Mar 08, 2023
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1016	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1232	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1242	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1248	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1254	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1260	0.1	mg/kg	-	< 0.1	-	-
Total PCB*	0.1	mg/kg	-	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	-	146	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	104	-	-

Client Sample ID			TP19/0-0.2	TP11/0-0.2	TP33/0-0.1	TP40/0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S23- Ma0031553	S23- Ma0031555	S23- Ma0031556	S23- Ma0031557
Date Sampled			Mar 08, 2023	Mar 08, 2023	Mar 08, 2023	Mar 07, 2023
Test/Reference	LOR	Unit				
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
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	%	118	86	94	134
Tetrachloro-m-xylene (surr.)	1	%	101	76	74	100



Client Sample ID			TP19/0-0.2	TP11/0-0.2	TP33/0-0.1	TP40/0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S23- Ma0031553	S23- Ma0031555	S23- Ma0031556	S23- Ma0031557
Date Sampled			Mar 08, 2023	Mar 08, 2023	Mar 08, 2023	Mar 07, 2023
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	17	23	20	19
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	33	37	40	35
Copper	5	mg/kg	12	8.8	26	25
Lead	5	mg/kg	12	23	16	15
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	31	24	44	44
Sample Properties						
% Moisture	1	%	16	11	12	14

Client Sample ID			TP34/0-0.1	TP25/0-0.1	G01 TP10/0-0.2	TP32/0-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofino Somple No			S23- Ma0031558	S23- Ma0031559	S23- Ma0031560	S23- Ma0031562
Eurofins Sample No.						
Date Sampled			Mar 06, 2023	Mar 06, 2023	Mar 06, 2023	Mar 07, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides		1				
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.5	0.08
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.5	0.07
a-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.05
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.05
b-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.05
d-HCH	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.05
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 10	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.5	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.5	0.15
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 1	0.15
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	< 1	< 0.1
Dibutylchlorendate (surr.)	1	%	109	106	91	66
Tetrachloro-m-xylene (surr.)	1	%	97	95	70	109



Client Sample ID			TP34/0-0.1	TP25/0-0.1	G01 TP10/0-0.2	TP32/0-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S23- Ma0031558	S23- Ma0031559	S23- Ma0031560	S23- Ma0031562
Date Sampled			Mar 06, 2023	Mar 06, 2023	Mar 06, 2023	Mar 07, 2023
Test/Reference	LOR	Unit	11101 00, 2020	inal 00, 2020	indi 00, 2020	11111 07, 2020
Heavy Metals	LOR	Unit				
•						45
Arsenic	2	mg/kg	11	24	11	15
	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	25 39	33	27	27
Copper	5	mg/kg	14	20	26	18
Lead	0.1	mg/kg			< 0.1	
Mercury		mg/kg	< 0.1	< 0.1	5.1	< 0.1
	5	mg/kg	< 5 75	5.3	88	< 5
Zinc Semple Properties	5	mg/kg	/5	65	00	30
Sample Properties		0(7.0
% Moisture Total Recoverable Hydrocarbons	1	%	24	25	26	7.3
· · · · · · · · · · · · · · · · · · ·						
TRH C6-C9	20	mg/kg	-	-	< 20	-
TRH C10-C14	20	mg/kg	-	-	< 20	-
TRH C15-C28	50	mg/kg	-	-	63	-
TRH C29-C36	50	mg/kg	-	-	98	-
TRH C10-C36 (Total)	50	mg/kg	-	-	161	-
	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	-	-	130	-
TRH >C34-C40	100	mg/kg	-	-	< 100	-
TRH >C10-C40 (total)* BTEX	100	mg/kg	-	-	130	-
	0.1					
Benzene	0.1	mg/kg	-	-	< 0.1	-
	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.)		%	-	-	55	-
Total Recoverable Hydrocarbons - 2013 NEPM			-		0.5	
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	-



Client Sample ID			TP34/0-0.1	TP25/0-0.1	G01TP10/0-0.2	TP32/0-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S23- Ma0031558	S23- Ma0031559	S23- Ma0031560	S23- Ma0031562
Date Sampled			Mar 06, 2023	Mar 06, 2023	Mar 06, 2023	Mar 07, 2023
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Fluorene	0.5	mg/kg	-	-	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	-	< 0.5	-
Naphthalene	0.5	mg/kg	-	-	< 0.5	-
Phenanthrene	0.5	mg/kg	-	-	< 0.5	-
Pyrene	0.5	mg/kg	-	-	< 0.5	-
Total PAH*	0.5	mg/kg	-	-	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	-	-	80	-
p-Terphenyl-d14 (surr.)	1	%	-	-	72	-

Client Sample ID			TP24/0-0.2	TP9/0-0.3	TP1/0.1-0.3	TP1/0.3-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S23- Ma0031563	S23- Ma0031564	S23- Ma0031566	S23- Ma0031567
· · · · · · · · · · · · · · · · · · ·						
Date Sampled			Mar 07, 2023	Mar 07, 2023	Mar 07, 2023	Mar 07, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides		1				
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	0.06
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
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	0.06
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	%	143	71	76	89
Tetrachloro-m-xylene (surr.)	1	%	100	71	82	78
Heavy Metals						
Arsenic	2	mg/kg	9.9	16	4.2	16
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	26	30	10	34
Copper	5	mg/kg	12	25	22	20



Client Sample ID			TP24/0-0.2	TP9/0-0.3	TP1/0.1-0.3	TP1/0.3-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S23- Ma0031563	S23- Ma0031564	S23- Ma0031566	S23- Ma0031567
Date Sampled			Mar 07, 2023	Mar 07, 2023	Mar 07, 2023	Mar 07, 2023
Test/Reference	LOR	Unit				
Heavy Metals	LOK	Unit				
· · · · · · · · · · · · · · · · · · ·	5	mallea	19	22	9.8	22
Lead	0.1	mg/kg	< 0.1		9.8 < 0.1	
MercuryNickel	5	mg/kg	5.2	< 0.1 6.5	5.6	< 0.1
Zinc	5	mg/kg			35	
Sample Properties	5	mg/kg	18	39	35	33
• •	4	0/	40			40
% Moisture	1	%	18	8.6	24	13
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	%	-	114	63	105
Total Recoverable Hydrocarbons - 2013 NEPM F						
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
	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene Naphthalene	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5



Client Sample ID			TP24/0-0.2	TP9/0-0.3	TP1/0.1-0.3	TP1/0.3-0.5
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S23- Ma0031563	S23- Ma0031564	S23- Ma0031566	S23- Ma0031567
Date Sampled			Mar 07, 2023	Mar 07, 2023	Mar 07, 2023	Mar 07, 2023
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
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	%	-	67	92	71
p-Terphenyl-d14 (surr.)	1	%	-	68	97	65

Client Sample ID			TP17/0-0.2	TP17/0.4-0.6	TP16/0-0.2	TP18/0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
			S23-	S23-	S23-	S23-
Eurofins Sample No.			Ma0031569	Ma0031570	Ma0031571	Ma0031573
Date Sampled			Mar 07, 2023	Mar 07, 2023	Mar 07, 2023	Mar 07, 2023
Test/Reference	LOR	Unit				
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
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	%	89	104	93	111
Tetrachloro-m-xylene (surr.)	1	%	74	101	85	97
Heavy Metals						
Arsenic	2	mg/kg	18	18	18	18
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	34	33	36	31
Copper	5	mg/kg	18	12	13	27
Lead	5	mg/kg	16	19	20	20
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	5.0	< 5	7.7
Zinc	5	mg/kg	26	19	21	55



Client Sample ID			TP17/0-0.2	TP17/0.4-0.6	TP16/0-0.2	TP18/0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S23- Ma0031569	S23- Ma0031570	S23- Ma0031571	S23- Ma0031573
Date Sampled			Mar 07, 2023	Mar 07, 2023	Mar 07, 2023	Mar 07, 2023
Test/Reference	LOR	Unit				
Sample Properties		-				
% Moisture	1	%	13	14	17	15
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	100	iiig/iig				
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	0.1	mg/kg	< 0.2	< 0.2		
o-Xylene	0.2	mg/kg	< 0.2	< 0.1		-
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3		_
4-Bromofluorobenzene (surr.)	1	<u>%</u>	99	108	-	
Total Recoverable Hydrocarbons - 2013 NEPM		70		100		
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	_	_
Polycyclic Aromatic Hydrocarbons	0.0	iiig/kg	< 0.5	< 0.0		
Benzo(a)pyrene TEQ (lower bound) *	0.5	ma/ka	< 0.5	< 0.5		
Benzo(a)pyrene TEQ (nedium bound) *	0.5	mg/kg	0.6	0.6		-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg mg/kg	1.2	1.2		-
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	-	-
			< 0.5	< 0.5		
Acenaphthylene	0.5	mg/kg			-	-
Anthracene Benz(a)anthracene	0.5	mg/kg mg/kg	< 0.5 < 0.5	< 0.5	-	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	-
Benzo(a)pyrene 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(g.n.)perylene 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	-	-
ndeno(1.2.3-cd)pyrene	0.5		< 0.5	< 0.5	-	-
		mg/kg				
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	-	-
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	-	-
	0.5	mg/kg	< 0.5	< 0.5	-	-
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	-	-
2-Fluorobiphenyl (surr.)	1	%	78	111	-	-



Client Sample ID			TP17/0-0.2	TP17/0.4-0.6	TP16/0-0.2	TP18/0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S23- Ma0031569	S23- Ma0031570	S23- Ma0031571	S23- Ma0031573
Date Sampled			Mar 07, 2023	Mar 07, 2023	Mar 07, 2023	Mar 07, 2023
Test/Reference	LOR	Unit				
Chloride	10	mg/kg	< 10	< 10	-	-
Conductivity (1:5 aqueous extract at 25 °C as rec.)	10	uS/cm	15	11	-	-
pH (1:5 Aqueous extract at 25 °C as rec.)	0.1	pH Units	6.2	6.3	-	-
Resistivity*	0.5	ohm.m	680	890	-	-
Sulphate (as SO4)	10	mg/kg	< 10	< 10	-	-

Client Sample ID			TP26/0-0.2	TP2/0-0.2	TP8/0.15-0.35	TP3/0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofine Semple No			S23-	S23- Ma0031575	S23-	S23- Ma0031581
Eurofins Sample No.			Ma0031574		Ma0031579	
Date Sampled			Mar 07, 2023	Mar 07, 2023	Mar 07, 2023	Mar 07, 2023
Test/Reference	LOR	Unit				_
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
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	%	136	131	95	104
Tetrachloro-m-xylene (surr.)	1	%	100	104	86	97
Heavy Metals		•				
Arsenic	2	mg/kg	15	11	17	17
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	28	17	37	36
Copper	5	mg/kg	30	24	22	13
Lead	5	mg/kg	19	18	29	22
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	6.1	8.8	6.1	5.7
Zinc	5	mg/kg	63	43	36	24



Client Sample ID			TP26/0-0.2	TP2/0-0.2	TP8/0.15-0.35	TP3/0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S23- Ma0031574	S23- Ma0031575	S23- Ma0031579	S23- Ma0031581
Date Sampled			Mar 07, 2023	Mar 07, 2023	Mar 07, 2023	Mar 07, 2023
Test/Reference	LOR	Unit	Mai 07, 2023	Mar 07, 2023	Mar 07, 2023	Mai 07, 2023
Sample Properties	LOK	Unit				
	4	0/	0.1	10	42	24
% Moisture	1	%	9.1	18	13	24
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	%	-	65	105	97
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	%	-	92	86	102
p-Terphenyl-d14 (surr.)	1	%	-	95	81	88



Client Sample ID			TP26/0-0.2	TP2/0-0.2	TP8/0.15-0.35	TP3/0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S23- Ma0031574	S23- Ma0031575	S23- Ma0031579	S23- Ma0031581
Date Sampled			Mar 07, 2023	Mar 07, 2023	Mar 07, 2023	Mar 07, 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	%	-	131	95	-
Tetrachloro-m-xylene (surr.)	1	%	-	104	86	-

Client Sample ID			TP7/0-0.2	TP5/0-0.2	TP41/0-0.3	TP13/0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S23- Ma0031582	S23- Ma0031585	S23- Ma0031586	S23- Ma0031588
Date Sampled			Mar 07, 2023	Mar 08, 2023	Mar 08, 2023	Mar 08, 2023
Test/Reference	LOR	Unit				
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
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	%	85	110	129	82
Tetrachloro-m-xylene (surr.)	1	%	75	108	97	76



Client Sample ID			TP7/0-0.2	TP5/0-0.2	TP41/0-0.3	TP13/0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S23- Ma0031582	S23- Ma0031585	S23- Ma0031586	S23- Ma0031588
Date Sampled			Mar 07, 2023	Mar 08, 2023	Mar 08, 2023	Mar 08, 2023
Test/Reference	LOR	Unit				
Heavy Metals	Loix	Onit				
Arsenic	2	mg/kg	12	22	15	24
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	21	51	26	23
Copper	5	mg/kg	11	25	25	19
Lead	5	mg/kg	44	20	18	16
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	5.2	5.3	5.9	6.8
Zinc	5	mg/kg	54	38	51	46
Sample Properties	Ŭ	mg/ng				10
% Moisture	1	%	16	16	10	9.1
Fotal Recoverable Hydrocarbons		70	10		10	0.1
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
втех						
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
p-Xylene	0.1	mg/kg	< 0.1	-	-	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	-	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	73	-	-	59
Total Recoverable Hydrocarbons - 2013 NEPM	I 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



Client Sample ID Sample Matrix			TP7/0-0.2 Soil	TP5/0-0.2 Soil	TP41/0-0.3 Soil	TP13/0-0.2 Soil	
Eurofins Sample No.			S23- Ma0031582	S23- Ma0031585	S23- Ma0031586	S23- Ma0031588	
Date Sampled			Mar 07, 2023	Mar 08, 2023	Mar 08, 2023	Mar 08, 2023	
Test/Reference	LOR	Unit					
Polycyclic Aromatic Hydrocarbons							
Fluorene	0.5	mg/kg	< 0.5	-	-	< 0.5	
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	-	< 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	%	68	-	-	71	
p-Terphenyl-d14 (surr.)	1	%	63	-	-	68	
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	%	-	-	-	82	
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	76	

Client Sample ID			TP15/0-0.2	TP22/0-0.2	TP31/0-0.2	TP59/0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S23- Ma0031591	S23- Ma0031592	S23- Ma0031593	S23- Ma0031594
Date Sampled			Mar 08, 2023	Mar 08, 2023	Mar 08, 2023	Mar 08, 2023
Test/Reference	LOR	Unit				
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	0.06	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	0.06	< 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
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



Client Sample ID			TP15/0-0.2	TD22/0.0.2	TD24/0.0.2	TP59/0-0.2
Sample Matrix			Soil	TP22/0-0.2 Soil	TP31/0-0.2 Soil	Soil
			S01 S23- Ma0031591	S23- Ma0031592	S23- Ma0031593	S23- Ma0031594
Eurofins Sample No.						
Date Sampled			Mar 08, 2023	Mar 08, 2023	Mar 08, 2023	Mar 08, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides			-			
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	0.06	< 0.05	0.06	< 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	%	99	96	113	99
Tetrachloro-m-xylene (surr.)	1	%	96	92	96	97
Heavy Metals						
Arsenic	2	mg/kg	17	15	18	21
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	28	44	33	43
Copper	5	mg/kg	36	18	26	27
Lead	5	mg/kg	64	16	18	20
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	6.0	< 5	< 5	< 5
Zinc	5	mg/kg	100	21	39	57
Sample Properties						
% Moisture	1	%	11	13	19	8.5
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	%	117	-	107	-
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	-



Client Sample ID			TP15/0-0.2	TP22/0-0.2	TP31/0-0.2	TP59/0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S23- Ma0031591	S23- Ma0031592	S23- Ma0031593	S23- Ma0031594
Date Sampled			Mar 08, 2023	Mar 08, 2023	Mar 08, 2023	Mar 08, 2023
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	< 0.5	-
Benzo(b&j)fluoranthene ^{N07}	d Mar ce LOR Unit romatic Hydrocarbons 0.5 mg/kg ne 0.5 mg/kg oranthene ^{N07} 0.5 mg/kg erylene 0.5 mg/kg anthene 0.5 mg/kg nthracene 0.5 mg/kg 0.5 mg/kg 0.5 of thracene 0.5 mg/kg 0.5 mg/kg 0.5 cd)pyrene 0.5 mg/kg 0.5 mg/kg 0.5 of thracene 0.5 mg/kg 0.5 mg/kg 0.5 cd)pyrene 0.5 mg/kg 0.5 mg/kg 0.5 of the full (surr.) 1 % ted Biphenyls 0.1 mg/kg 0.1 mg/kg 0.1			-	< 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	%	93	-	86	-
p-Terphenyl-d14 (surr.)	1	%	96	-	90	-
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	%	99	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	96	-	-	-

Client Sample ID			TP28/0-0.2	TP29/0-0.2	TP36/0.3-0.5	DS1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S23- Ma0031595	S23- Ma0031596	S23- Ma0031597	S23- Ma0031598
Date Sampled			Mar 08, 2023	Mar 08, 2023	Mar 08, 2023	Mar 07, 2023
Test/Reference	LOR	Unit				
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



Client Sample ID			TP28/0-0.2	TP29/0-0.2	TP36/0.3-0.5	DS1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S23- Ma0031595	S23- Ma0031596	S23- Ma0031597	S23- Ma0031598
Date Sampled			Mar 08, 2023	Mar 08, 2023	Mar 08, 2023	Mar 07, 2023
Test/Reference	LOR	Unit				
Organochlorine Pesticides		U				
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
g-HCH (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.00	mg/kg	< 0.00	< 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	%	144	124	101	109
Tetrachloro-m-xylene (surr.)	1	%	121	96	99	92
Heavy Metals	I	/0	121			52
Arsenic	2	ma/ka	16	18	20	16
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 0.4 30	36	37	33
	5	mg/kg	23	24	21	15
Copper Lead	5	mg/kg	16	17	19	22
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 0.1	< 5	5.3	6.5
Zinc	5	mg/kg	40	52	34	30
Sample Properties	5	mg/kg	40	52		
• •		%	10	40	40	40
% Moisture	1	70	10	16	13	16
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	%	78	-	100	107
Total Recoverable Hydrocarbons - 2013 NEPM	Fractions		1			1



Client Sample ID			TP28/0-0.2	TP29/0-0.2	TP36/0.3-0.5	DS1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S23- Ma0031595	S23- Ma0031596	S23- Ma0031597	S23- Ma0031598
Date Sampled			Mar 08, 2023	Mar 08, 2023	Mar 08, 2023	Mar 07, 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	%	117	-	91	88
p-Terphenyl-d14 (surr.)	1	%	134	-	92	87

Client Sample ID			DS2	DS3	TRIPB1	TRIPS1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S23- Ma0031599	S23- Ma0031600	S23- Ma0031603	S23- Ma0031604
Date Sampled			Mar 07, 2023	Mar 08, 2023	Not Provided ¹¹²	Not Provided ¹¹²
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	-	-



Client Sample ID			DS2	DS3	TRIPB1	TRIPS1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S23- Ma0031599	S23- Ma0031600	S23- Ma0031603	S23- Ma0031604
Date Sampled			Mar 07, 2023	Mar 08, 2023	Not Provided ¹¹²	Not Provided ¹¹²
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	-	-
Methoxychlor	0.05	mg/kg	< 0.05	< 0.05	-	-
Toxaphene	0.5	mg/kg	< 0.5	< 0.5	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1	< 0.1	-	-
Dibutylchlorendate (surr.)	1	%	83	111	-	-
Tetrachloro-m-xylene (surr.)	1	%	91	91	-	-
Heavy Metals						
Arsenic	2	mg/kg	12	29	-	_
Cadmium	0.4	mg/kg	< 0.4	< 0.4	-	-
Chromium	5	mg/kg	20	41	-	_
Copper	5	mg/kg	23	15	-	_
Lead	5	mg/kg	19	20	-	-
Mercury	0.1	mg/kg	< 0.1	< 0.1	-	-
Nickel	5	mg/kg	8.9	< 5	-	-
Zinc	5	mg/kg	44	26	-	-
Sample Properties		1				
% Moisture	1	%	23	11	-	_
Total Recoverable Hydrocarbons	•	/0	20			
TRH C6-C9	20	mg/kg	_	_	< 20	-
TRH C6-C10	20	mg/kg	_	_	< 20	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	_	-	< 20	-
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	%	-	-	106	-
		,,,				
Naphthalene ^{N02}	0.5	mg/kg	-	_	< 0.5	_
TRH C6-C10	1	%	-	-	-	99
Total Recoverable Hydrocarbons	· ·	,,,				
Naphthalene	1	%	-	-	-	91
TRH C6-C9	1	%	_	_	_	100
BTEX	•	/0				100
Benzene	1	%	_			97
Ethylbenzene	1	%		_	-	100
m&p-Xylenes	1	%			-	100
o-Xylene	1	%			-	110
Toluene	1	%			-	99
Xylenes - Total	1	%			-	100
4-Bromofluorobenzene (surr.)	1	%		_	-	103



Client Sample ID			TRIPB2	TRIPS2
Sample Matrix			Soil	Soil
Eurofins Sample No.			S23- Ma0031605	S23- Ma0031606
Date Sampled			Not Provided ¹¹²	Not Provided ¹¹²
Test/Reference	LOR	Unit		
Total Recoverable Hydrocarbons				
TRH C6-C9	20	mg/kg	< 20	-
TRH C6-C10	20	mg/kg	< 20	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	-
втех				
Benzene	0.1	mg/kg	< 0.1	-
Toluene	0.1	mg/kg	< 0.1	-
Ethylbenzene	0.1	mg/kg	< 0.1	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-
o-Xylene	0.1	mg/kg	< 0.1	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	105	-
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	-
TRH C6-C10	1	%	-	110
Total Recoverable Hydrocarbons				
Naphthalene	1	%	-	100
TRH C6-C9	1	%	-	110
BTEX				
Benzene	1	%	-	110
Ethylbenzene	1	%	-	110
m&p-Xylenes	1	%	-	100
o-Xylene	1	%	-	100
Toluene	1	%	-	110
Xylenes - Total	1	%	-	100
4-Bromofluorobenzene (surr.)	1	%	-	97



Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Eurofins Suite B9			
Organochlorine Pesticides	Sydney	Mar 28, 2023	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Metals M8	Sydney	Mar 28, 2023	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Mar 16, 2023	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Mar 16, 2023	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Mar 16, 2023	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons	Sydney	Mar 16, 2023	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
% Moisture	Sydney	Mar 14, 2023	14 Days
- Method: LTM-GEN-7080 Moisture			
Total Recoverable Hydrocarbons	Sydney	Mar 16, 2023	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Mar 16, 2023	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			
Chloride	Sydney	Mar 16, 2023	28 Days
- Method: LTM-INO-4270 Anions by Ion Chromatography			
Conductivity (1:5 aqueous extract at 25 °C as rec.)	Sydney	Mar 16, 2023	7 Days
- Method: LTM-INO-4030 Conductivity			
pH (1:5 Aqueous extract at 25 °C as rec.)	Sydney	Mar 16, 2023	7 Days
- Method: LTM-GEN-7090 pH by ISE			
Sulphate (as SO4)	Sydney	Mar 16, 2023	28 Days
- Method: In-house method LTM-INO-4270 Sulphate by Ion Chromatograph			
Polychlorinated Biphenyls	Sydney	Mar 16, 2023	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			

		C '	Eurofins Env ABN: 50 005 08		g Australia Pty Ltd													Eurofins ARL Pty Ltd ABN: 91 05 0159 898	ent Testing NZ Ltd	
web: w	ABN: 50 005 085 521 Metbourne 6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254			e Girrawee NSW 214 3 8564 5000 Tel: +61 2	179 Magowar Road Girraween NSW 2145 Tel: +61 2 9900 8400			Canberra Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 17 NATA# 1261 Site# 2546		t 1/ M Q 1 Te	Brisbane 1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 466 NATA# 1261 Site# 20794		Newcastle 1/2 Frost Drive Mayfield West NSW 2304 Tel: +61 2 4968 8448 NATA# 1261 94 Site# 25079 & 25289		st NSW 2304 68 8448	Perth 46-48 Banksia Road 4 Welshpool WA 6106 Tel: +61 8 6253 4444 NATA# 2377 Site# 2370	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		
	mpany Name: dress:	Geo-Logix F Bld Q2 Leve Warriewood NSW 2102	el 3, 2309/4 D	Daydream St			R(Pl	rder N eport hone: ax:	#:	9	PO583 97150 92 997 92 997	9 79 172						Received: Due: Priority: Contact Name:	Mar 10, 2023 10:27 Mar 17, 2023 5 Day Ted Lilly	7 AM
	oject Name: oject ID:														Eurofins Analytical	Services Manager :	Asim Khan			
		Sá	ample Detail			Asbestos - WA guidelines	Asbestos Absence /Presence	HOLD	Organochlorine Pesticides	Metals M8	Suite B13: OCP/PCB	Aggressivity Soil Set	Moisture Set	Eurofins Suite B7	Eurofins Suite B9	BTEXN and Volatile TRH	BTEXN and Volatile TRH			
Mell	ourne Laborat	ory - NATA # 12	261 Site # 12	54						Х				х	х					
Syd	ney Laboratory	- NATA # 1261	Site # 18217	7		х	Х	х	х	Х	Х	х	Х	Х	Х	х	х			
Exte	rnal Laboratory	<u>y</u>			_															
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID															
1	TP60/0-0.2	Mar 08, 2023		Soil	S23-Ma0031528				Х	Х			Х							
2	TP37/0-0.2	Mar 08, 2023		Soil	S23-Ma0031529				Х	Х	<u> </u>		Х	<u> </u>						
3	TP27/0-0.2	Mar 08, 2023		Soil	S23-Ma0031530				Х	X			Х				 			
4	TP30/0-0.2	Mar 08, 2023		Soil	S23-Ma0031531				Х	X			Х							
5	TP35/0-0.2	Mar 08, 2023		Soil	S23-Ma0031532							X	Х		X					
6	TP35/0.3-0.5	Mar 08, 2023		Soil	S23-Ma0031533							X	X				 			
7	TP35/0.6-0.8	Mar 08, 2023		Soil	S23-Ma0031534							Х	Х				┨──┤			
8	TP56/0-0.2	Mar 08, 2023		Soil	S23-Ma0031535	Х							<u> </u>				┨──┤			
9	TP21/0-0.2	Mar 08, 2023		Soil	S23-Ma0031536				Х	Х			X							
10	TP23/0-0.2	Mar 08, 2023		Soil	S23-Ma0031537								Х		X		┣──┤			
11	TP48/0-0.2	Mar 08, 2023		Soil	S23-Ma0031538	X											┨──┤			
12	TP14/0-0.2	Mar 08, 2023		Soil	S23-Ma0031539	Х						Х	Х		Х					

		C:	Eurofins Environme	ent Testing Australia I	Pty Ltd													Eurofins ARL Pty Ltd ABN: 91 05 0159 898	Eurofins Environm	-
web: w	Melbourne Geelong Sydi 6 Monterey Road 19/8 Lewalan Street 179 Dandenong South Grovedale Girre VIC 3175 VIC 3216 NSV			Sydney 179 Mago Girraweer NSW 214 Tel: +61 2 NATA# 12	n 5 2 9900 8	3400	Mitche ACT 2 Tel: +	,2 Dacr ell 2911 61 2 61	re Street 13 809' Site# 2	t 1/ M Q 1 Te	urarrie LD 417 el: +61 7	Illwood 2 7 3902 4	1600	Mayfi Tel: + NATA	ost Driv eld Wes 61 2 49 # 1261	st NSW 2304 968 8448	Perth 46-48 Banksia Road	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	
	mpany Name: dress:		el 3, 2309/4 Daydre	am St			R	rder N eport hone: ax:	#:	9	PO583 97150 92 997 92 997	9 '9 172						Received: Due: Priority: Contact Name:	Mar 10, 2023 10:27 Mar 17, 2023 5 Day Ted Lilly	' AM
	oject Name: oject ID:	AUSTRAL 2301008	- PRIMARY															Eurofins Analytical	Services Manager :	Asim Khan
		Sample Detail Laboratory - NATA # 1261 Site # 1254				Asbestos - WA guidelines	Asbestos Absence /Presence	HOLD	Organochlorine Pesticides	Metals M8	Suite B13: OCP/PCB	Aggressivity Soil Set	Moisture Set	Eurofins Suite B7	Eurofins Suite B9	BTEXN and Volatile TRH	BTEXN and Volatile TRH			
Melb	ourne Laborato	orv - NATA # 1	261 Site # 1254							х				х	x					
	ney Laboratory					x	x	х	х	х	х	x	х	х	x	х	х			
13		Mar 08, 2023	Soil	S23-Ma0	031540							х	х							
14	TP55/0-0.2	Mar 08, 2023	Soil	S23-Ma0		х														
15	TP20/0-0.2	Mar 08, 2023	Soil	S23-Ma0	031542				х	Х			х							
16	TP12/0-0.2	Mar 08, 2023	Soil	S23-Ma0	031543	х							Х		х					
17	TP57/0.3-0.5	Mar 08, 2023	Soil	S23-Ma0	031544						х		х	х						
18	TP57/0-0.15	Mar 08, 2023	Soil	S23-Ma0	031545	х														
19	TP4/0.15-0.35	Mar 08, 2023	Soil	S23-Ma0	031546								х		х					
20	TP6/0-0.2	Mar 08, 2023	Soil	S23-Ma0	031547	х														
21	TP6/0.2-0.4	Mar 08, 2023	Soil	S23-Ma0	031548								х		х					
22	TP46/0-0.2	Mar 08, 2023	Soil	S23-Ma0	031549	х														
23	TP43/0-0.2	Mar 08, 2023	Soil	S23-Ma0	031550	х														
24	TP47/0-0.2	Mar 08, 2023	Soil	S23-Ma0	031551	х														
25	TP49/0-0.2	Mar 08, 2023	Soil	S23-Ma0	031552	х														
26	TP19/0-0.2	Mar 08, 2023	Soil	S23-Ma0	031553				х	Х			Х							
27	TP50/0-0.2	Mar 08, 2023	Soil	S23-Ma0	031554	х														

		fine	Eurofins Environ	ment Testing Australia	Pty Ltd													Eurofins ARL Pty Ltd ABN: 91 05 0159 898	Eurofins Environm NZBN: 9429046024954	-
web: w	Company Name: Geo-Logix P/L		Melbourne 6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 12	Geelong 19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 54 NATA# 1261 Site# 2540	Sydney 179 Mago Girrawee NSW 214 Tel: +61 2 3 NATA# 1	n 5 2 9900 8	8400	Mitche ACT 2 Tel: +	,2 Dacr ell 2911 61 2 61	e Stree 13 809 [.] Site# 2	t 1/ M Q 1 Te	urarrie LD 417 el: +61	Illwood 2 7 3902 4	4600	Mayfie Tel: + NATA	ost Driv eld Wes 61 2 49 # 1261	st NSW 2304 68 8448	Perth 46-48 Banksia Road Welshpool WA 6106 Tel: +61 8 6253 4444 NATA# 2377 Site# 2370	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
	mpany Name: dress:		el 3, 2309/4 Dayd d	ream St			R Pl	rder N eport hone: ax:	#:	9 (PO583 97150 92 997 92 997	9 79 172						Received: Due: Priority: Contact Name:	Mar 10, 2023 10:27 Mar 17, 2023 5 Day Ted Lilly	7 AM
	oject Name: oject ID:	AUSTRAL 2301008	- PRIMARY															Eurofins Analytical	Services Manager :	Asim Khan
		s	ample Detail			Asbestos - WA guidelines	Asbestos Absence /Presence	HOLD	Organochlorine Pesticides	Metals M8	Suite B13: OCP/PCB	Aggressivity Soil Set	Moisture Set	Eurofins Suite B7	Eurofins Suite B9	BTEXN and Volatile TRH	BTEXN and Volatile TRH			
Melb	ourne Laborato	ory - NATA # 1	261 Site # 1254							х				х	x					
Sydı	ney Laboratory	- NATA # 1261	Site # 18217			х	X	Х	х	Х	Х	х	Х	х	X	Х	х			
28	TP11/0-0.2	Mar 08, 2023	Soi	S23-Ma0	031555				Х	Х			Х							
29	TP33/0-0.1	Mar 08, 2023	Soi	S23-Ma0	031556				х	х			х							
30	TP40/0-0.1	Mar 07, 2023	Soi	S23-Ma0	031557				х	х			х							
31	TP34/0-0.1	Mar 06, 2023	Soi	S23-Ma0	031558				х	х			х							
32	TP25/0-0.1	Mar 06, 2023	Soi	S23-Ma0	031559				х	Х			Х							
33	TP10/0-0.2	Mar 06, 2023	Soi	S23-Ma0	031560	х							Х		х					
34	TP45/0-0.2	Mar 06, 2023	Soi	S23-Ma0	031561	х														
35	TP32/0-0.3	Mar 07, 2023	Soi	S23-Ma0	031562				Х	Х			Х							
36	TP24/0-0.2	Mar 07, 2023	Soi	S23-Ma0	031563				х	Х			х							
37	TP9/0-0.3	Mar 07, 2023	Soi			х							х		X					
38	TP52/0-0.5	Mar 07, 2023	Soi			х														
39	TP1/0.1-0.3	Mar 07, 2023	Soi										х		x					
40	TP1/0.3-0.5	Mar 07, 2023	Soi			х	1	1			1	1	х	1	x					
41	TP44/0.15- 0.35	Mar 07, 2023	Soi			х														

		C:	Eurofins Enviro ABN: 50 005 085 5		g Australia Pty L	.td												Eurofins ARL Pty Ltd ABN: 91 05 0159 898	Eurofins Environm NZBN: 9429046024954	
web: w	Melbourne Geelong Syd 6 Monterey Road 19/8 Lewalan Street 179 Dandenong South Grovedale Girra VIC 3175 VIC 3216 NSV			Iney Magowar raween W 2145 : +61 2 99 TA# 1261	00 8400	Unit Mitc ACT Tel:	hell Γ 2911 +61 2 6	cre Stree 113 809 1 Site# 2	et 1/ M Q 91 Te	/lurarrie 2LD 417 el: +61 7	allwood F 72 7 3902 4	4600	Mayfi Tel: + NATA	rost Driv eld Wes 61 2 496 # 1261	st NSW 2304 68 8448	Perth 46-48 Banksia Road	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		
	mpany Name: dress:		vel 3, 2309/4 Day d	/dream St				Order Repor Phone Fax:	t #:	(PO583 97150 02 997 02 997)9 79 172						Received: Due: Priority: Contact Name:	Mar 10, 2023 10:27 Mar 17, 2023 5 Day Ted Lilly	' AM
	oject Name: oject ID:	AUSTRAL 2301008	- PRIMARY															Eurofins Analytical S	Services Manager :	Asim Khan
		s	Sample Detail			Aspesitos - WA guidelines	Asbestos Absence /Presence		Organochlorine Pesticides	Metals M8	Suite B13: OCP/PCB	Aggressivity Soil Set	Moisture Set	Eurofins Suite B7	Eurofins Suite B9	BTEXN and Volatile TRH	BTEXN and Volatile TRH			
Melb	ourne Laborato	ory - NATA # 1	261 Site # 1254						-	X	-		-	X	x					
	ney Laboratory					:	< >	(X	X	X	x	x	X	X	X	Х	x			
	TP17/0-0.2	Mar 07, 2023		oil	S23-Ma00315	569	-		-	+	1	x	х		x					
43	TP17/0.4-0.6	Mar 07, 2023		Soil	S23-Ma00315		+	1	1	1		x	Х		x					
44	TP16/0-0.2	Mar 07, 2023		oil	S23-Ma00315		\top	1	X	X	1	1	Х	1						
45	TP51/0-0.3	Mar 07, 2023		Soil	S23-Ma00315			1	1	1	1	1	1	1						
46	TP18/0-0.2	Mar 07, 2023		Soil	S23-Ma00315				Х	X	1		х							
47	TP26/0-0.2	Mar 07, 2023		oil	S23-Ma00315				Х	Х			Х							
48	TP2/0-0.2	Mar 07, 2023		oil	S23-Ma00315	575					Х		Х	х						
49	TP2/0-0.7	Mar 07, 2023		oil	S23-Ma00315		<													
50	TP38/0-0.6	Mar 07, 2023		oil	S23-Ma00315		<													
51	TP8/0.15-1	Mar 07, 2023		oil	S23-Ma00315	578 >	<													
52	TP8/0.15-0.35	Mar 07, 2023		oil	S23-Ma00315						Х		Х	х						
53	TP39/0-0.6	Mar 07, 2023		oil	S23-Ma00315		<													
54	TP3/0-0.2	Mar 07, 2023		oil	S23-Ma00315	581							Х		X					
55	TP7/0-0.2	Mar 07, 2023	s	oil	S23-Ma00315	582							Х		Х					
	TP7/0-0.4	Mar 07, 2023		oil	S23-Ma00315	583 >					T	T	T	T						

		C :	Eurofins Enviror ABN: 50 005 085 52	nment Testing Austra	alia Pty Ltd													Eurofins ARL Pty Ltd ABN: 91 05 0159 898	Eurofins Environm NZBN: 9429046024954	-
web: w	Melbourne Geelong Sy 6 Monterey Road 19/8 Lewalan Street 17 Dandenong South Grovedale Gi Vic 3175 VIC 3216 NS Tel: +61 3 8564 5000 Tel: +61 3 8564 5000 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254 NATA# 1261 Site# 25403 NA			Girraweer NSW 214 00 Tel: +61 2	n 15 2 9900 8	8400	Mitche ACT 2 Tel: +6	,2 Dacro ell 2911 ∙61 2 61	re Street 13 8091 Site# 2	et 1/2 M QI 1 Te	urarrie LD 417 el: +61 1	allwood 72 7 3902 4	1600	Mayfie Tel: + NATA	ost Driv eld Wes 61 2 49 # 1261	st NSW 2304 68 8448	Perth 46-48 Banksia Road	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	
	mpany Name: dress:	0	vel 3, 2309/4 Day d	dream St			Re	eport a hone: ax:	#:	9 0	PO583 971509 02 997 02 997	9 79 172						Received: Due: Priority: Contact Name:	Mar 10, 2023 10:27 Mar 17, 2023 5 Day Ted Lilly	AM
	oject Name: oject ID:	AUSTRAL 2301008	- PRIMARY															Eurofins Analytical S	Services Manager :	Asim Khan
		s	Sample Detail			Asbestos - WA guidelines	Asbestos Absence /Presence	НОГД	Organochlorine Pesticides	Metals M8	Suite B13: OCP/PCB	Aggressivity Soil Set	Moisture Set	Eurofins Suite B7	Eurofins Suite B9	BTEXN and Volatile TRH	BTEXN and Volatile TRH			
Melb	ourne Laborato	orv - NATA # 1	261 Site # 1254							X				х	х					
	ney Laboratory					X	x	х	х	X	х	x	х	х	x	х	x			
57	TP42/0-0.3	Mar 07, 2023		oil S23-M	Ma0031584	X														
58	TP5/0-0.2	Mar 08, 2023			Ma0031585				х	Х			х							
59	TP41/0-0.3	Mar 08, 2023			Ma0031586				х	Х			х							
60	TP13/0-0.3	Mar 08, 2023			Ma0031587	Х														
61	TP13/0-0.2	Mar 08, 2023			Ma0031588						Х		Х	Х						
62	TP54/0-0.4	Mar 08, 2023	So	oil S23-M	Ma0031589	Х														
63	TP15/0-0.5	Mar 08, 2023	S	oil S23-N	Ma0031590	Х														
64	TP15/0-0.2	Mar 08, 2023			Ma0031591						Х		Х	Х						
65	TP22/0-0.2	Mar 08, 2023	So	oil S23-M	Ma0031592				х	Х			Х							
66	TP31/0-0.2	Mar 08, 2023	So	oil S23-M	Ma0031593								Х		х					
67	TP59/0-0.2	Mar 08, 2023	S	oil S23-N	Ma0031594				х	Х			Х							
68	TP28/0-0.2	Mar 08, 2023	So	oil S23-M	Ma0031595								Х		х					
69	TP29/0-0.2	Mar 08, 2023	So	oil S23-M	Ma0031596				х	Х			Х							
70	TP36/0.3-0.5	Mar 08, 2023	Sc	oil S23-M	Ma0031597								Х		Х					
									<u> </u>											

•		c :	Eurofins Envir ABN: 50 005 085		ing Australia Pty Lt	d												Eurofins ARL Pty Ltd ABN: 91 05 0159 898	Eurofins Environm NZBN: 9429046024954	
web: w	Melbourne Geelong Si 6 Monterey Road 19/8 Lewalan Street 17 Dandenong South Grovedale G VIC 3175 VIC 3216 N			walan Street 179 M ale Girra 16 NSW 1 3 8564 5000 Tel: +	Nagowar ween 2145 61 2 990	0 8400	Unit Mito AC ⁻ Tel:	h berra t 1,2 Dao chell Γ 2911 +61 2 6 ΓΑ# 126	113 809	et 1. N G 01 T	lurarrie LD 417 el: +61	allwood 72 7 3902 -	4600	1/2 Fi Mayfi Tel: + NATA	+61 2 49 \# 1261	st NSW 2304 968 8448	Perth 46-48 Banksia Road	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	
Ad Pre	ompany Name: Idress: oject Name: oject ID:	Bld Q2 Lev Warriewood NSW 2102 AUSTRAL	rel 3, 2309/4 Da d	3, 2309/4 Daydream St				Order Repor Phone Fax:	t #:	1	PO58 97150 02 99 02 99	9 79 172						Received: Due: Priority: Contact Name:	Mar 10, 2023 10:23 Mar 17, 2023 5 Day Ted Lilly	7 AM
	oject ib.	2. 20000																Eurofins Analytical	Services Manager :	Asim Khan
		2301008 Sample Detail boratory - NATA # 1261 Site # 1254				Asbestos - WA guidelines	Asbestos Absence /Presence		Organochlorine Pesticides	Metals M8	Suite B13: OCP/PCB	Aggressivity Soil Set	Moisture Set	Eurofins Suite B7	Eurofins Suite B9	BTEXN and Volatile TRH	BTEXN and Volatile TRH			
Mell	bourne Laborate	ory - NATA # 1	261 Site # 125	4						X				х	X					
	ney Laboratory					Х	X	X	Х	Х	Х	Х	Х	Х	Х	Х	Х			
72	DS2	Mar 07, 2023		Soil	S23-Ma00315	99			Х	Х			Х							
73	DS3	Mar 08, 2023		Soil	S23-Ma00316	00			Х	Х			Х							
74	TP15/A1	Mar 08, 2023	ł	Building Materials	S23-Ma00316	01	x													
75	TP13/A1	Mar 08, 2023		Building Materials	S23-Ma00316	02	x													
76	TRIPB1	Not Provided		Soil	S23-Ma00316	03										х				
77	TRIPS1	Not Provided		Soil	S23-Ma00316	04											х			
78	TRIPB2	Not Provided		Soil	S23-Ma00316	05										х				
79	TRIPS2	Not Provided		Soil	S23-Ma00316	06											х			
80	R1	Mar 08, 2023	N	Nater	S23-Ma00316	07			Х	Х										
81	TP60/0.2-0.4	Mar 08, 2023		Soil	S23-Ma00316	10		Х												
82	TP60/0.5-0.7	Mar 08, 2023		Soil	S23-Ma00316	11		Х												
83	TP37/0.2-0.4	Mar 08, 2023		Soil	S23-Ma00316	12		Х												
84	TP37/0.9-1.1	Mar 08, 2023		Soil	S23-Ma00316	13		Х												

		C:	Eurofins Environm	ent Testing Australia F	Pty Ltd													Eurofins ARL Pty Ltd ABN: 91 05 0159 898	Eurofins Environm NZBN: 9429046024954	-
web: w	Melbourne Geelon 6 Monterey Road 19/8 Le Dandenong South Groved VIC 3175 VIC 321		Geelong 19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 4 NATA# 1261 Site# 25403	Sydney 179 Mago Girraweer NSW 214 Tel: +61 2 NATA# 12	n 5 2 9900 8	8400	Mitche ACT 2 Tel: +	l,2 Dacr ell 2911 -61 2 61	re Street 13 8091 Site# 2	t 1/ M Q 1 Te	urarrie LD 417 el: +61 7	Illwood F '2 7 3902 4	4600	Mayfi Tel: + NATA	ost Driv eld Wes 61 2 49 # 1261	st NSW 2304 68 8448	Perth 46-48 Banksia Road	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	
	mpany Name: dress:	Bld Q2 Level 3, 2309/4 Daydream St Warriewood NSW 2102					R(Pl	rder N eport hone: ax:	#:	g C	PO583 97150 92 997 92 997	9 79 172						Received: Due: Priority: Contact Name:	Mar 10, 2023 10:23 Mar 17, 2023 5 Day Ted Lilly	7 AM
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		S	ample Detail			Asbestos - WA guidelines	Asbestos Absence /Presence	HOLD	Organochlorine Pesticides	Metals M8	Suite B13: OCP/PCB	Aggressivity Soil Set	Moisture Set	Eurofins Suite B7	Eurofins Suite B9	BTEXN and Volatile TRH	BTEXN and Volatile TRH			
Melt	ourne Laborato	ory - NATA # 1	261 Site # 1254							Х				х	X					
	ney Laboratory					Х	X	Х	Х	Х	Х	х	Х	х	X	Х	х			
85	TP27/0.3-0.5	Mar 08, 2023	Soil	S23-Ma0	031614			Х												
86	TP27/1-1.2	Mar 08, 2023	Soil	S23-Ma0	031615			Х												
87	TP30/0.3-0.5	Mar 08, 2023	Soil	S23-Ma0	031616			Х												
88	TP30/0.7-0.9	Mar 08, 2023	Soil	S23-Ma0	031617			Х												
89	TP21/0.2-0.4	Mar 08, 2023	Soil	S23-Ma0	031618			Х												
90	TP21/0.9-1.1	Mar 08, 2023	Soil	S23-Ma0	031619			Х		<u> </u>										
91	TP23/0.25- 0.45	Mar 08, 2023	Soil					х												
92	TP23/0.9-1.1	Mar 08, 2023	Soil	S23-Ma0	031621			Х	<u> </u>	<u> </u>										
93	TP20/0.2-0.4	Mar 08, 2023	Soil	S23-Ma0	031622			Х	<u> </u>	_										
94	TP12/0.4-0.6	Mar 08, 2023	Soil		031623			Х		<u> </u>										
05	TP57/0.15-0.3	Mar 08, 2023	Soil	S23-Ma0	031624			Х		\square										
95						1	1	1	1	1	1	1	1	1	1	1				
95 96	TP4/0-0.15	Mar 08, 2023	Soil	S23-Ma0	031625			Х												
		Mar 08, 2023 Mar 08, 2023	Soil Soil	S23-Ma0 S23-Ma0				X X												

	C:	Eurofins Environ	ment Testing Australia	Pty Ltd													Eurofins ARL Pty Ltd ABN: 91 05 0159 898	Eurofins Environm NZBN: 9429046024954	-
web: www.eurofins.com.au	Melbourne 6 Monterey Road Dardenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 125 Company Name: Geo-Logix P/L			Sydney 179 Mago Girrawee NSW 214 Tel: +61 2 03 NATA# 1	n 15 2 9900 i	8400	Mitche ACT 2 Tel: +	,2 Dacr ell 2911 61 2 61	e Stree 13 809 [,] Site# 2	t 1/ M Q 1 Te	urarrie LD 417 el: +61	Illwood 2 7 3902 4	4600	Mayfi Tel: + NATA	ost Driv eld Wes 61 2 49 # 1261	t NSW 2304 68 8448	Perth 46-48 Banksia Road	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: Address:		el 3, 2309/4 Dayd	ream St			R	rder N eport hone: ax:	#:	e C	PO583 97150 92 997 92 997	9 79 172						Received: Due: Priority: Contact Name:	Mar 10, 2023 10:27 Mar 17, 2023 5 Day Ted Lilly	Ϋ́ ΑΜ
Project Name: Project ID:	AUSTRAL 2301008	PRIMARY															Eurofins Analytical S	Services Manager :	Asim Khan
	s	ample Detail			Asbestos - WA guidelines	Asbestos Absence /Presence	HOLD	Organochlorine Pesticides	Metals M8	Suite B13: OCP/PCB	Aggressivity Soil Set	Moisture Set	Eurofins Suite B7	Eurofins Suite B9	BTEXN and Volatile TRH	BTEXN and Volatile TRH			
Melbourne Laborato	rv - NATA # 1	261 Site # 1254							x				х	x					
Sydney Laboratory -					X	x	X	х	X	х	x	x	X	X	x	x			
	Mar 08, 2023	Soi	I S23-Ma	0031628			X												
	Mar 06, 2023	Soi		0031629			x				1		1						
	Mar 06, 2023	Soi		0031630			х												
	Mar 07, 2023	Soi		0031631			х												
							х												
104 TP32/0.3-0.4	Mar 06, 2023	Soi	I S23-Ma	0031632			~							1					
	Mar 06, 2023 Mar 07, 2023	Soi Soi		0031632 0031633			X												
105 TP32/0.4-0.6			I S23-Ma																
	Mar 07, 2023	Soi	I S23-Mai I S23-Mai	0031633			х												
106 TP24/0-0.4	Mar 07, 2023 Mar 07, 2023	Soi Soi	l S23-Ma l S23-Ma l S23-Ma	0031633 0031634			x x												
106TP24/0-0.4107TP24/0.4-0.6	Mar 07, 2023 Mar 07, 2023 Mar 07, 2023	Soi Soi Soi	I S23-Mai I S23-Mai I S23-Mai I S23-Mai	0031633 0031634 0031635			X X X												
106 TP24/0-0.4 107 TP24/0.4-0.6 108 TP9/0.3-0.4	Mar 07, 2023 Mar 07, 2023 Mar 07, 2023 Mar 07, 2023	Soi Soi Soi Soi	I S23-Mai I S23-Mai I S23-Mai I S23-Mai I S23-Mai	0031633 0031634 0031635 0031636			X X X X												
106 TP24/0-0.4 107 TP24/0.4-0.6 108 TP9/0.3-0.4 109 TP52/0-0.2	Mar 07, 2023 Mar 07, 2023 Mar 07, 2023 Mar 07, 2023 Mar 07, 2023	Soi Soi Soi Soi Soi	I S23-Mai I S23-Mai I S23-Mai I S23-Mai I S23-Mai I S23-Mai	0031633 0031634 0031635 0031636 0031637			X X X X X X												
106 TP24/0-0.4 107 TP24/0.4-0.6 108 TP9/0.3-0.4 109 TP52/0-0.2 110 TP52/0.5-0.6	Mar 07, 2023 Mar 07, 2023 Mar 07, 2023 Mar 07, 2023 Mar 07, 2023 Mar 07, 2023 Mar 07, 2023	Soi Soi Soi Soi Soi Soi	I S23-Mai I S23-Mai I S23-Mai I S23-Mai I S23-Mai I S23-Mai I S23-Mai	0031633 0031634 0031635 0031636 0031637 0031638			x x x x x x x x x x x x												
106 TP24/0-0.4 107 TP24/0.4-0.6 108 TP9/0.3-0.4 109 TP52/0-0.2 110 TP52/0.5-0.6 111 TP1/0.7-0.8	Mar 07, 2023 Mar 07, 2023 Mar 07, 2023 Mar 07, 2023 Mar 07, 2023 Mar 07, 2023	Soi Soi Soi Soi Soi Soi Soi	I S23-Mai S23-Mai S23-Mai S23-Mai S23-Mai S23-Mai S23-Mai S23-Mai S23-Mai	0031633 0031634 0031635 0031636 0031637 0031638 0031639			x x x x x x x x x x x x x x x												

	C :	Eurofins Environm	ent Testing Australia	Pty Ltd													Eurofins ARL Pty Ltd ABN: 91 05 0159 898	Eurofins Environm NZBN: 9429046024954	
web: www.eurofins.com.au	Company Name: Geo-Logix P/L		Geelong 19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 4 NATA# 1261 Site# 2540	Sydney 179 Mago Girrawee NSW 214 Tel: +61 2 3 NATA# 12	n 5 2 9900	8400	Mitche ACT 2 Tel: +	1,2 Dacr ell 2911 -61 2 61	re Street 113 8091 Site# 2	et 1/ M Q 1 T	lurarrie LD 417 el: +61	allwood 72 7 3902 4	4600	Mayfi Tel: + NATA	rost Driv eld Wes 61 2 49 \# 1261	st NSW 2304 68 8448	Perth 46-48 Banksia Road	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: Address:		el 3, 2309/4 Daydro	eam St			Re	erder N eport hone: ax:	#:	9 C	PO583 97150 02 997 02 997	9 79 172						Received: Due: Priority: Contact Name:	Mar 10, 2023 10:27 Mar 17, 2023 5 Day Ted Lilly	7 AM
Project Name: Project ID:	AUSTRAL 2301008	- PRIMARY															Eurofins Analytical	Services Manager :	Asim Khan
	s	ample Detail			Asbestos - WA guidelines	Asbestos Absence /Presence	HOLD	Organochlorine Pesticides	Metals M8	Suite B13: OCP/PCB	Aggressivity Soil Set	Moisture Set	Eurofins Suite B7	Eurofins Suite B9	BTEXN and Volatile TRH	BTEXN and Volatile TRH			
Melbourne Laborato	ory - NATA # 1	261 Site # 1254							Х				х	X					
Sydney Laboratory					X	X	х	x	X	x	x	X	X	X	x	x			
114 TP60/0-0.4	Mar 07, 2023	1 1	S23-Ma0	031643			х												
	Mar 07, 2023	Soil				1	Х		<u> </u>	1									
116 TP16/0-0.2	Mar 07, 2023	Soil	S23-Ma0			1	Х	1	1	1					1				
	Mar 07, 2023	Soil				1	Х	1	1										
118 TP18/0-0.3	Mar 07, 2023	Soil	S23-Ma0				Х	1											
	Mar 07, 2023	Soil	S23-Ma0				Х												
120 TP59/0-0.4	Mar 07, 2023	Soil	S23-Ma0	031649			Х												
121 TP26/0-0.3	Mar 07, 2023	Soil	S23-Ma0				Х												
122 TP26/0.2-0.5	Mar 07, 2023	Soil	S23-Ma0				Х												
123 TP2/0.7-0.9	Mar 07, 2023	Soil	S23-Ma0				Х												
124 TP8/0-0.15	Mar 07, 2023	Soil	S23-Ma0				Х												
					1	+		1	1		1	1		1					
125 TP39/0.6-0.8	Mar 07, 2023	Soil	S23-Ma0	031654			Х									1			
125 TP39/0.6-0.8	Mar 07, 2023	Soil	S23-Ma0 S23-Ma0				X X	<u> </u>	+										
125 TP39/0.6-0.8	-	Soil		031655			-		<u> </u>										

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web: w	Company Name: Geo-Logix P/L		Melbourne 6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000	Geelong 19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 SATA# 1261 Site# 254	Sydney 179 Mag Girrawee NSW 214 Tel: +61 03 NATA# 1	n 5 2 9900 (8400	Mitch ACT 2 Tel: +	,2 Dacı ell 2911 61 2 61	re Stree 13 809 [.] Site# 2	t 1/ M Q 1 Te	urarrie LD 417 el: +61	allwood 72 7 3902 4	4600	Mayfi Tel: + NATA	rost Driv eld Wes 61 2 49 4 1261	st NSW 2304 968 8448	Perth 46-48 Banksia Road	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
	mpany Name: dress:		el 3, 2309/4 Dayd d	ream St			R	rder N eport hone: ax:	#:	9 (PO583 97150 92 997 92 997	9 79 172						Received: Due: Priority: Contact Name:	Mar 10, 2023 10:27 Mar 17, 2023 5 Day Ted Lilly	7 AM
	oject Name: oject ID:	AUSTRAL 2301008	- PRIMARY															Eurofins Analytical	Services Manager :	Asim Khan
		s	ample Detail			Asbestos - WA guidelines	Asbestos Absence /Presence	HOLD	Organochlorine Pesticides	Metals M8	Suite B13: OCP/PCB	Aggressivity Soil Set	Moisture Set	Eurofins Suite B7	Eurofins Suite B9	BTEXN and Volatile TRH	BTEXN and Volatile TRH			
Melb	ourne Laborate	ory - NATA # 1	261 Site # 1254							х				х	X					
Sydr	ney Laboratory	- NATA # 1261	Site # 18217			Х	Х	Х	Х	Х	х	Х	Х	Х	X	Х	Х			
129	TP5/0.3-0.5	Mar 08, 2023	So	I S23-Ma	0031658			Х												
130	TP5/0-0.3	Mar 08, 2023	Soi	I S23-Ma	0031659			Х												
131	TP41/0.3-0.7	Mar 08, 2023	Soi	I S23-Ma	0031660			Х												
132	TP13/0.3-0.5	Mar 08, 2023	Soi	I S23-Ma	0031661			Х												
133	TP15/0.5-0.7	Mar 08, 2023	Soi	I S23-Ma	0031662			Х												
134	TP22/0.4-0.6	Mar 08, 2023	So	I S23-Ma	0031663			х												
135	TP31/0.3-0.4	Mar 08, 2023	So	I S23-Ma	0031664			Х												
136	TP31/0.4-0.6	Mar 08, 2023	Soi	I S23-Ma	0031665			Х												
137	TP59/0.3-0.5	Mar 08, 2023	So	I S23-Ma	0031666			Х												
138	TP28/0.4-0.5	Mar 08, 2023	So	I S23-Ma	0031667			Х												
139	TP28/0.5-0.7	Mar 08, 2023	So	I S23-Ma	0031668			Х												
140	TP29/0.4-0.6	Mar 08, 2023	So	I S23-Ma	0031669			Х												
141	TP36/0-0.2	Mar 08, 2023	So	I S23-Ma	0031670			Х												
142	TP8/A1	Mar 07, 2023	Bui Ma	lding S23-Ma terials	0031671			х												

		c :	Eurofins Environn	nent Testing Austral	ia Pty Ltd													Eurofins ARL Pty Ltd ABN: 91 05 0159 898	Eurofins Environm NZBN: 9429046024954	-
web: w	Melbourne Geelong S 6 Monterey Road 19/8 Lewalan Street 17 Dandenong South Grovedale G VIC 3175 VIC 3216 N			n 15 2 9900 8	8400	Mitche ACT 2 Tel: +	,2 Dacı ell 2911 61 2 61	re Stree 13 809 ⁻ Site# 2	t 1/ M Q 1 Te	lurarrie LD 417 el: +61	allwood 72 7 3902 4	4600	Mayfi Tel: + NATA	ost Driv eld Wes 61 2 49 # 1261	st NSW 2304 68 8448	Perth 46-48 Banksia Road	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		
	mpany Name: dress:	•	el 3, 2309/4 Daydr	2309/4 Daydream St IMARY			R(Pl	rder N eport hone: ax:	#:	9	PO583 97150 92 997 92 997	9 79 172						Received: Due: Priority: Contact Name:	Mar 10, 2023 10:27 Mar 17, 2023 5 Day Ted Lilly	7 AM
	oject Name: oject ID:	e: AUSTRAL - PRIMARY 2301008																Eurofins Analytical	Services Manager :	Asim Khan
		D: 2301008 Sample Detail Laboratory - NATA # 1261 Site # 1254				Asbestos - WA guidelines	Asbestos Absence /Presence	HOLD	Organochlorine Pesticides	Metals M8	Suite B13: OCP/PCB	Aggressivity Soil Set	Moisture Set	Eurofins Suite B7	Eurofins Suite B9	BTEXN and Volatile TRH	BTEXN and Volatile TRH			
Melb	ourne Laborat	ory - NATA # 1	261 Site # 1254							X				х	X					
Sydr	ney Laboratory	- NATA # 1261	Site # 18217			Х	Х	х	х	х	Х	х	х	х	Х	Х	х			
143	TP2/A1	Mar 07, 2023	Buil Mat	ding S23-M erials	a0031672			x												
144	TP2/A2	Mar 07, 2023	Buil Mat	ding S23-M erials	a0031673			х												
145	BH1/0-0.2	Mar 07, 2023	Soil	S23-M	a0031674			Х												
146	BH1/3.2-3.5	Mar 07, 2023	Soil		a0031675			х												
147	BH2/1.6-1.8	Mar 07, 2023	Soil		a0031676			х												
	BH2/2.3-2.5	Mar 07, 2023	Soil		a0031677			х												
149	BH2/6-6.2	Mar 07, 2023	Soil		a0031678			х												
150	BH3/2-2.2	Mar 07, 2023	Soil		a0031679			х		ļ										
	BH3/3-3.2	Mar 07, 2023	Soil		a0031680			х												
	BH4/2-2.2	Mar 07, 2023	Soil		a0031681			х		ļ			ļ							
153	BH4/5.5-5.7	Mar 07, 2023	Soil	S23-M	a0031682			Х												
Test	Counts					28	2	73	25	25	5	7	50	5	18	2	2			



Internal Quality Control Review and Glossary

General

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

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA. If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

enne		
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
СР	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.
твто	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	Acceptanc Limits	e Pass Limits	Qualifying Code
Method Blank					
Organochlorine Pesticides					
Chlordanes - Total	mg/kg	< 0.1	0.1	Pass	
4.4'-DDD	mg/kg	< 0.05	0.05	Pass	
4.4'-DDE	mg/kg	< 0.05	0.05	Pass	
4.4'-DDT	mg/kg	< 0.05	0.05	Pass	
a-HCH	mg/kg	< 0.05	0.05	Pass	
Aldrin	mg/kg	< 0.05	0.05	Pass	
b-HCH	mg/kg	< 0.05	0.05	Pass	
d-HCH	mg/kg	< 0.05	0.05	Pass	
Dieldrin	mg/kg	< 0.05	0.05	Pass	
Endosulfan I	mg/kg	< 0.05	0.05	Pass	
Endosulfan II	mg/kg	< 0.05	0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05	0.05	Pass	
Endrin	mg/kg	< 0.05	0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05	0.05	Pass	
Endrin ketone	mg/kg	< 0.05	0.05	Pass	
g-HCH (Lindane)	mg/kg	< 0.05	0.05	Pass	
Heptachlor	mg/kg	< 0.05	0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05	0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05	0.05	Pass	
Methoxychlor	mg/kg	< 0.05	0.05	Pass	
Toxaphene	mg/kg	< 0.5	0.5	Pass	
Method Blank					
Heavy Metals					
Arsenic	mg/kg	< 2	2	Pass	
Cadmium	mg/kg	< 0.4	0.4	Pass	
Chromium	mg/kg	< 5	5	Pass	
Copper	mg/kg	< 5	5	Pass	
Lead	mg/kg	< 5	5	Pass	
Mercury	mg/kg	< 0.1	0.1	Pass	
Nickel	mg/kg	< 5	5	Pass	
Zinc	mg/kg	< 5	5	Pass	
Method Blank					
Total Recoverable Hydrocarbons					
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 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					
втех					
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	



Test	Units	Result 1	Acceptance Limits	Pass Limits	Qualifying Code
Method Blank				2	0000
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	3				
Naphthalene	mg/kg	< 0.5	0.5	Pass	
Method Blank			<u> </u>	1	
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	ing/kg	< 0.0	0.0	1 433	
Chloride	mg/kg	< 10	10	Pass	
Conductivity (1:5 aqueous extract at 25 °C as rec.)	uS/cm	< 10	10	Pass	
Sulphate (as SO4)	mg/kg	< 10	10	Pass	
Naphthalene	mg/kg	< 0.5	0.5	Pass	
Method Blank	IIIg/kg	< 0.5	0.0	1 855	
Polychlorinated Biphenyls				1	
Aroclor-1016	mg/kg	< 0.1	0.1	Pass	
Aroclor-1221	mg/kg	< 0.1	0.1	Pass	
Aroclor-1221	mg/kg	< 0.1	0.1	Pass	
Aroclor-1242	mg/kg	< 0.1	0.1	Pass	
Aroclor-1242	mg/kg	< 0.1	0.1	Pass	
Aroclor-1254	mg/kg	< 0.1	0.1	Pass	
Aroclor-1260	mg/kg	< 0.1	0.1	Pass	
Total PCB*	mg/kg	< 0.1	0.1	Pass	
LCS - % Recovery	IIIg/kg	< 0.1	0.1	1 835	
Organochlorine Pesticides				1	
Chlordanes - Total	%	94	70-130	Pass	
4.4'-DDD	%	91	70-130	Pass	
4.4'-DDE	%	88	70-130	Pass	
4.4-DDT	%	110	70-130	Pass	
a-HCH	%	94	70-130	Pass	
Aldrin	%	94 79	70-130	Pass	
b-HCH	%	87	70-130	Pass	
d-HCH	%	94	70-130	Pass	
Dieldrin	%	88	70-130	Pass	
Endosulfan I	%	76	70-130	Pass	
Endosulfan II	%	91	70-130	Pass	
Endosulfan sulphate	%	112	70-130	Pass	
Endosulian suphate	%	99	70-130	Pass	
Endrin aldehyde	%	99	70-130	Pass	
Endrin ketone	%	99 116	70-130	Pass	
g-HCH (Lindane)	%	95	70-130	Pass	



Test	Units	Result 1	Acceptar Limits		Qualifying Code
Heptachlor	%	92	70-130	Pass	
Heptachlor epoxide	%	81	70-130	Pass	
Hexachlorobenzene	%	96	70-130	Pass	
Methoxychlor	%	93	70-130	Pass	
LCS - % Recovery					
Heavy Metals					
Arsenic	%	110	80-120	Pass	
Cadmium	%	114	80-120	Pass	
Chromium	%	112	80-120	Pass	
Copper	%	109	80-120	Pass	
Lead	%	109	80-120	Pass	
Mercury	%	113	80-120		
Nickel	%	106	80-120		
Zinc	%	111	80-120		
LCS - % Recovery		I			
Total Recoverable Hydrocarbons					
TRH C6-C9	%	128	70-130	Pass	
TRH C10-C14	%	79	70-130		
TRH C6-C10	%	127	70-130		1
TRH C6-C10	%	119	70-130		1
TRH >C10-C16	%	75	70-130		
LCS - % Recovery	70		70-130	1 433	
BTEX					
Benzene	%	111	70-130	Pass	
Toluene	%	129	70-130		
Ethylbenzene	%	129	70-130		
*	%	123	70-130		
m&p-Xylenes	%		70-130		
o-Xylene		120			
Xylenes - Total*	%	122	70-130	Pass	
LCS - % Recovery				-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	0/	444	70.400	- During	
Naphthalene	%	114	70-130	Pass	
LCS - % Recovery					
Polycyclic Aromatic Hydrocarbons					
Acenaphthene	%	100	70-130		
Acenaphthylene	%	101	70-130		
Anthracene	%	94	70-130		
Benz(a)anthracene	%	93	70-130		
Benzo(a)pyrene	%	95	70-130		
Benzo(b&j)fluoranthene	%	91	70-130		
Benzo(g.h.i)perylene	%	91	70-130		
Benzo(k)fluoranthene	%	101	70-130		
Chrysene	%	95	70-130		
Dibenz(a.h)anthracene	%	91	70-130		
Fluoranthene	%	97	70-130		-
Fluorene	%	100	70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	91	70-130	Pass	
Naphthalene	%	102	70-130	Pass	
Phenanthrene	%	103	70-130	Pass	
Pyrene	%	98	70-130	Pass	
LCS - % Recovery					
Chloride	%	94	70-130	Pass	
Conductivity (1:5 aqueous extract at 25 °C as rec.)	%	95	70-130	Pass	
Resistivity*	%	95	70-130		



	Test		Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Sulphate (as SO4)			%	92		70-130	Pass	
Naphthalene			%	108		70-130	Pass	
LCS - % Recovery								
Polychlorinated Biphenyls								
Aroclor-1016			%	91		70-130	Pass	
Aroclor-1260			%	77		70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery					r		1	
Organochlorine Pesticides				Result 1				
Chlordanes - Total	S23-Ma0060212	NCP	%	84		70-130	Pass	
4.4'-DDD	S23-Ma0060212	NCP	%	122		70-130	Pass	
4.4'-DDE	S23-Ma0060212	NCP	%	113		70-130	Pass	
a-HCH	S23-Ma0060212	NCP	%	86		70-130	Pass	
Aldrin	S23-Ma0060212	NCP	%	87		70-130	Pass	
b-HCH	S23-Ma0060212	NCP	%	122		70-130	Pass	
d-HCH	S23-Ma0060212	NCP	%	121		70-130	Pass	
Dieldrin	S23-Ma0060212	NCP	%	127		70-130	Pass	
Endosulfan I	S23-Ma0060212	NCP	%	109		70-130	Pass	
Endosulfan II	S23-Ma0060212	NCP	%	105		70-130	Pass	
Endosulfan sulphate	S23-Ma0060212	NCP	%	126		70-130	Pass	
Endrin aldehyde	S23-Ma0060212	NCP	%	91		70-130	Pass	
Endrin ketone	S23-Ma0060212	NCP	%	98		70-130	Pass	
g-HCH (Lindane)	S23-Ma0060212	NCP	%	101		70-130	Pass	
Heptachlor	S23-Ma0060212	NCP	%	89		70-130	Pass	
Heptachlor epoxide	S23-Ma0060212	NCP	%	83		70-130	Pass	
Hexachlorobenzene	S23-Ma0060212	NCP	%	112		70-130	Pass	
Spike - % Recovery				Desult 4		1	1	
Heavy Metals	000 14-0004500	0.0	0/	Result 1		75.405	Dese	
Arsenic	S23-Ma0031530 S23-Ma0031530	CP CP	%	87		75-125	Pass	
Cadmium	S23-Ma0031530	CP	% %	88 87		75-125	Pass	
Chromium		CP	%	89		75-125	Pass	
Copper Lead	S23-Ma0031530 S23-Ma0031530	CP	%	89		75-125 75-125	Pass Pass	
	S23-Ma0031530	CP CP	%	101		75-125	Pass	
Mercury Nickel	S23-Ma0031530	CP CP	%	85		75-125	Pass	
Zinc	S23-Ma0031530	CP CP	%	89		75-125	Pass	
Spike - % Recovery	023-10100031330	UP	/0	09		75-125	F 855	
Total Recoverable Hydroca	rhons			Result 1		1	1	
TRH C6-C9	S23-Ma0038992	NCP	%	104		70-130	Pass	
TRH C10-C14	S23-Ma0038992	NCP	%	122		70-130	Pass	
TRH C6-C10	S23-Ma0038992	NCP	%	104		70-130	Pass	
TRH >C10-C16	S23-Ma0038992	NCP	%	117		70-130	Pass	
Spike - % Recovery			70			10.100	1 435	
BTEX				Result 1		T		
Benzene	S23-Ma0038992	NCP	%	96		70-130	Pass	
Toluene	S23-Ma0038992	NCP	%	101		70-130	Pass	
Ethylbenzene	S23-Ma0038992	NCP	%	99		70-130	Pass	
m&p-Xylenes	S23-Ma0038992	NCP	%	98		70-130	Pass	
o-Xylene	S23-Ma0038992	NCP	%	99		70-130	Pass	
Xylenes - Total*	S23-Ma0038992	NCP	%	98		70-130	Pass	
Spike - % Recovery	1 020 1100000002		,,,					
Total Recoverable Hydroca	rbons - 2013 NEPM Fract	ions		Result 1				
Naphthalene	S23-Ma0038992	NCP	%	97		70-130	Pass	
Spike - % Recovery			,					



Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
				Result 1					
Sulphate (as SO4)	S23-Ma0037303	NCP	%	86			70-130	Pass	
Spike - % Recovery							-		
				Result 1					
Chloride	S23-Ma0031539	CP	%	116			70-130	Pass	
Spike - % Recovery							-		
Polychlorinated Biphenyls				Result 1					
Aroclor-1016	S23-Ma0060212	NCP	%	89			70-130	Pass	
Aroclor-1260	S23-Ma0060212	NCP	%	84			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
4.4'-DDT	S23-Ma0044320	NCP	%	80			70-130	Pass	
Endrin	S23-Ma0051011	NCP	%	74			70-130	Pass	
Methoxychlor	S23-Ma0044320	NCP	%	73			70-130	Pass	
Spike - % Recovery				·					
Polycyclic Aromatic Hydrocar	bons			Result 1					
Acenaphthene	S23-Ma0038865	NCP	%	96			70-130	Pass	
Acenaphthylene	S23-Ma0038865	NCP	%	99			70-130	Pass	
Anthracene	S23-Ma0038865	NCP	%	83			70-130	Pass	
Benz(a)anthracene	S23-Ma0038865	NCP	%	105			70-130	Pass	
Benzo(a)pyrene	S23-Ma0038865	NCP	%	96			70-130	Pass	
Benzo(b&j)fluoranthene	S23-Ma0038865	NCP	%	86			70-130	Pass	
Benzo(g.h.i)perylene	S23-Ma0038865	NCP	%	85			70-130	Pass	
Benzo(k)fluoranthene	S23-Ma0038865	NCP	%	89			70-130	Pass	
Chrysene	S23-Ma0038865	NCP	%	98			70-130	Pass	
Dibenz(a.h)anthracene	S23-Ma0038865	NCP	%	93			70-130	Pass	
Fluoranthene	S23-Ma0038865	NCP	%	93			70-130	Pass	
Fluorene	S23-Ma0038865	NCP	%	97			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S23-Ma0038865	NCP	%	88			70-130	Pass	
Naphthalene	S23-Ma0038865	NCP	%	96			70-130	Pass	
Phenanthrene	S23-Ma0038865	NCP	%	86			70-130	Pass	
Pyrene	S23-Ma0038865	NCP	%	91			70-130	Pass	
Spike - % Recovery	020 1100000000	1101	70	01			10100	1 400	
Heavy Metals				Result 1					
Arsenic	S23-Ma0031566	CP	%	102			75-125	Pass	
Cadmium	S23-Ma0031566	CP	%	102			75-125	Pass	
Chromium	S23-Ma0031566	CP	%	105			75-125	Pass	
Copper	S23-Ma0031566	CP	%	100			75-125	Pass	
Lead	S23-Ma0031566	CP	%	100			75-125	Pass	
Mercury	S23-Ma0031566	CP	%	103			75-125	Pass	
Nickel	S23-Ma0031566	CP	%	92			75-125	Pass	
Zinc	S23-Ma0031566		%	89			75-125	Pass	
Spike - % Recovery	023-10100031300		70	03			13-123	1 835	
Heavy Metals				Result 1			1		
Arsenic	S23-Ma0031591	CP	%	82			75-125	Pass	
Cadmium	S23-Ma0031591	CP	%	91			75-125	Pass	
	S23-Ma0031591	CP	%	88			75-125		
Mercury Nickel	S23-Ma0031591	CP	%	81			75-125	Pass Pass	
		QA				<u> </u>	Acceptance	Pass Pass	Qualifying
Test	Lab Sample ID	Source	Units	Result 1			Limits	Limits	Code
Duplicate				D 1 1	D 11 C	0.55			
Organochlorine Pesticides	000.11 (5.11)	N:0-		Result 1	Result 2	RPD			
Chlordanes - Total	S23-Ma0044338	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S23-Ma0044338	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S23-Ma0044338	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	



Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
4.4'-DDT	S23-Ma0044338	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	S23-Ma0043582	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S23-Ma0044338	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	S23-Ma0044338	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	S23-Ma0044338	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S23-Ma0044338	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S23-Ma0044338	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S23-Ma0044338	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S23-Ma0044338	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S23-Ma0044338	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S23-Ma0044338	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S23-Ma0044338	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-HCH (Lindane)	S23-Ma0043582	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S23-Ma0044338	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S23-Ma0044338	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S23-Ma0044338	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S23-Ma0044338	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Toxaphene	S23-Ma0044338	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate				T			1	1	
Heavy Metals	1			Result 1	Result 2	RPD			
Cadmium	S23-Ma0031529	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S23-Ma0031529	CP	mg/kg	39	31	23	30%	Pass	
Copper	S23-Ma0031529	CP	mg/kg	18	16	13	30%	Pass	
Lead	S23-Ma0031529	CP	mg/kg	18	15	23	30%	Pass	
Mercury	S23-Ma0031529	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S23-Ma0031529	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Zinc	S23-Ma0031529	CP	mg/kg	49	40	21	30%	Pass	
Duplicate				1	1		1	1	
Total Recoverable Hydrocarbo	ons			Result 1	Result 2	RPD			
TRH C6-C9	S23-Ma0031931	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C6-C10	S23-Ma0031931	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate				1				1	
BTEX				Result 1	Result 2	RPD			
Benzene	S23-Ma0031931	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S23-Ma0031931	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S23-Ma0031931	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S23-Ma0031931	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S23-Ma0031931	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S23-Ma0031931	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbo				Result 1	Result 2	RPD			
Naphthalene	S23-Ma0031931	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate				1			-	1	
Polycyclic Aromatic Hydrocar				Result 1	Result 2	RPD			
Acenaphthene	S23-Ma0044338	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S23-Ma0044338	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S23-Ma0044338	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S23-Ma0044338	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S23-Ma0044338	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S23-Ma0044338	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S23-Ma0044338	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S23-Ma0044338	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	



Duplicate									
Polycyclic Aromatic Hydrocarbon	s			Result 1	Result 2	RPD			
Chrysene	S23-Ma0044338	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S23-Ma0044338	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S23-Ma0044338	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S23-Ma0044338	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S23-Ma0044338	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S23-Ma0044338	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S23-Ma0044338	NCP		< 0.5	< 0.5	<1	30%	Pass	
		-	mg/kg						
Pyrene	S23-Ma0044338	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate				Deputed	Desult 0	000		1	
				Result 1	Result 2	RPD			
Conductivity (1:5 aqueous extract at 25 °C as rec.)	S23-Ma0031532	CP	uS/cm	15	17	13	30%	Pass	
pH (1:5 Aqueous extract at 25 °C									
as rec.)	S23-Ma0031532	CP	pH Units	5.9	5.9	<1	30%	Pass	
Resistivity*	S23-Ma0031532	CP	ohm.m	660	580	13	30%	Pass	
Duplicate				-					
Sample Properties				Result 1	Result 2	RPD			
% Moisture	S23-Ma0031536	СР	%	12	11	14	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Conductivity (1:5 aqueous extract									
at 25 °C as rec.)	S23-Ma0031539	CP	uS/cm	38	34	8.9	30%	Pass	
pH (1:5 Aqueous extract at 25 °C	0000								
as rec.)	S23-Ma0031539	CP	pH Units	6.3	6.3	<1	30%	Pass	
Resistivity*	S23-Ma0031539	CP	ohm.m	270	290	8.9	30%	Pass	
Duplicate				1	1			1	
Polychlorinated Biphenyls	1			Result 1	Result 2	RPD			
Aroclor-1016	S23-Ma0043582	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1221	S23-Ma0043582	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	S23-Ma0043582	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1242	S23-Ma0043582	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1248	S23-Ma0043582	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1254	S23-Ma0043582	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1260	S23-Ma0043582	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Total PCB*	S23-Ma0043582	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S23-Ma0031546	CP	mg/kg	6.2	11	53	30%	Fail	Q15
Cadmium	S23-Ma0031546	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S23-Ma0031546	CP	mg/kg	14	22	48	30%	Fail	Q15
Copper	S23-Ma0031546	CP	mg/kg	8.6	9.4	9.7	30%	Pass	
Lead	S23-Ma0031546	CP	mg/kg	8.6	11	21	30%	Pass	
Mercury	S23-Ma0031546	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S23-Ma0031546	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Zinc	S23-Ma0031546	CP	mg/kg	9.4	11	17	30%	Pass	
Duplicate	1 525 1010051540	01.	i iig/kg	J.4		17	50%	1 035	
Sample Properties				Recult 1	Result 2	RPD			
	S22 Man 24555	СР	%	Result 1			200/	- Boss	
% Moisture	S23-Ma0031555	CP	70	11	15	30	30%	Pass	
Duplicate				Doguit 4	Booult 0				
Heavy Metals	000 Maccourses	00		Result 1	Result 2	RPD	2007		
Arsenic	S23-Ma0031564	CP	mg/kg	16	17	6.7	30%	Pass	
Cadmium	S23-Ma0031564	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S23-Ma0031564	CP	mg/kg	30	31	4.9	30%	Pass	
Copper	S23-Ma0031564	CP	mg/kg	25	23	8.7	30%	Pass	
Lead	S23-Ma0031564	CP	mg/kg	22	23	4.2	30%	Pass	



Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Mercury	S23-Ma0031564	СР	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S23-Ma0031564	CP	mg/kg	6.5	6.5	<1	30%	Pass	
Zinc	S23-Ma0031564	CP	mg/kg	39	39	1.2	30%	Pass	
Duplicate							0070	1 400	
Sample Properties				Result 1	Result 2	RPD			
% Moisture	S23-Ma0031569	СР	%	13	13	4.7	30%	Pass	
Duplicate	020 1110000 1000	0.	70				0070	1 400	
				Result 1	Result 2	RPD			
Chloride	S23-Ma0031569	СР	mg/kg	< 10	< 10	<1	30%	Pass	
Sulphate (as SO4)	S23-Ma0031569	CP	mg/kg	< 10	< 10	<1	30%	Pass	
Duplicate	023100001000	01	iiig/kg				5070	1 433	
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S23-Ma0031581	СР	mg/kg	17	15	9.8	30%	Pass	
Cadmium	S23-Ma0031581	CP	mg/kg	< 0.4	< 0.4		30%	Pass	
Chromium	S23-Ma0031581	CP	mg/kg	36	28	24	30%	Pass	
Copper	S23-Ma0031581	CP CP	mg/kg	13	20	63	30%	Fass	Q15
Lead	S23-Ma0031581	CP CP	mg/kg	22	24	8.9	30%	Pass	Q (1)
Mercury	S23-Ma0031581	CP CP	mg/kg	< 0.1	< 0.1		30%	Pass	
Nickel	S23-Ma0031581 S23-Ma0031581	CP CP	mg/kg mg/kg	< 0.1 5.7	< 0.1	<u><1</u> 44	30%	Fail	Q15
Zinc	S23-Ma0031581	CP CP		5.7 24	< 5 23	3.6	30%	Pass	Q10
Duplicate	523-10120031561	CP	mg/kg	24	23	3.0	30%	Pass	
				Deput 1	Deput 2				
Heavy Metals	000 M-0004500	00		Result 1	Result 2	RPD	200/	Daaa	
Arsenic	S23-Ma0031586	CP	mg/kg	15	15	2.0	30%	Pass	
Cadmium	S23-Ma0031586	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S23-Ma0031586	CP	mg/kg	26	25	4.3	30%	Pass	
Copper	S23-Ma0031586	CP	mg/kg	25	26	<1	30%	Pass	
Lead	S23-Ma0031586	CP	mg/kg	18	17	5.3	30%	Pass	
Mercury	S23-Ma0031586	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S23-Ma0031586	CP	mg/kg	5.9	< 5	43	30%	Fail	Q15
Zinc	S23-Ma0031586	CP	mg/kg	51	46	11	30%	Pass	
Duplicate				I =				-	
Sample Properties			L	Result 1	Result 2	RPD		+	
% Moisture	S23-Ma0031586	CP	%	10	8.9	12	30%	Pass	
Duplicate				I =				-	
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD		+	
TRH C10-C14	S23-Ma0031593	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S23-Ma0031593	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S23-Ma0031593	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C10-C16	S23-Ma0031593	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S23-Ma0031593	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S23-Ma0031593	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Sample Properties			1	Result 1	Result 2	RPD		+	
% Moisture	S23-Ma0031599	CP	%	23	24	2.2	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S23-Ma0031600	CP	mg/kg	29	31	9.6	30%	Pass	
Cadmium	S23-Ma0031600	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S23-Ma0031600	CP	mg/kg	41	45	7.6	30%	Pass	
Copper	S23-Ma0031600	CP	mg/kg	15	17	8.8	30%	Pass	
Lead	S23-Ma0031600	CP	mg/kg	20	21	8.4	30%	Pass	
Mercury	S23-Ma0031600	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S23-Ma0031600	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Zinc	S23-Ma0031600	CP	mg/kg	26	28	8.1	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

Analytical Services Manager

Qualifier Codes/Comments

Code Description G01 The LORs have been raised due to matrix interference 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. 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 Mickael Ros Senior Analyst-Metal Dilani Samarakoon Senior Analyst-Inorganic Sayeed Abu Senior Analyst-Asbestos Roopesh Rangarajan Senior Analyst-Inorganic Raymond Siu Senior Analyst-Volatile Roopesh Rangarajan Senior Analyst-Organic Fang Yee Tan Senior Analyst-Metal

Glenn Jackson General Manager

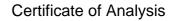
Final Report - this report replaces any previously issued Report

- 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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Environment Testing

Geo-Logix P/L Bld Q2 Level 3, 2309/4 Daydream St





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.

Warriewood **NSW 2102**

Report	
Project name	
Project ID	
Received Date	

Attention:

971509-W AUSTRAL - PRIMARY 2301008 Mar 10, 2023

Ted Lilly

Client Sample ID			R1
Sample Matrix			Water
Eurofins Sample No.			S23- Ma0031607
Date Sampled			Mar 08, 2023
Test/Reference	LOR	Unit	
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	< 0.0005
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	%	138
Tetrachloro-m-xylene (surr.)	1	%	129
Heavy Metals			
Arsenic	0.001	mg/L	< 0.001
Cadmium	0.0002	mg/L	< 0.0002
Chromium	0.001	mg/L	< 0.001
Copper	0.001	mg/L	< 0.001
Lead	0.001	mg/L	< 0.001
Mercury	0.0001	mg/L	< 0.0001
Nickel	0.001	mg/L	< 0.001
Zinc	0.005	mg/L	< 0.005



Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Eurofins Suite B9 Organochlorine Pesticides	Sydney	Mar 15, 2023	7 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Metals M8	Sydney	Mar 17, 2023	28 Days
 Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS 			

		C '	Eurofins Env ABN: 50 005 08		g Australia Pty Ltd													Eurofins ARL Pty Ltd ABN: 91 05 0159 898	Eurofins Environm NZBN: 9429046024954	-
web: w	ww.eurofins.com.au		Melbourne 6 Monterey Roa Dandenong Sou VIC 3175 Tel: +61 3 8564	Geelong d 19/8 Lewa th Grovedale VIC 3216 5000		n 5 2 9900 i	8400	Mitche ACT 2 Tel: +	,2 Dacr ell 2911 61 2 61	re Stree 13 809 [.] Site# 2	t 1/ M Q 1 Te	urarrie LD 417 el: +61	Illwood I '2 7 3902 4	4600	Mayfie Tel: + NATA	ost Driv eld Wes 61 2 49 # 1261	st NSW 2304 68 8448	Perth 46-48 Banksia Road	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
	mpany Name: dress:	Geo-Logix F Bld Q2 Leve Warriewood NSW 2102	el 3, 2309/4 D	Daydream St			R(Pl	rder N eport hone: ax:	#:	9	PO583 97150 92 997 92 997	9 79 172						Received: Due: Priority: Contact Name:	Mar 10, 2023 10:27 Mar 17, 2023 5 Day Ted Lilly	7 AM
	oject Name: oject ID:	AUSTRAL - 2301008	PRIMARY															Eurofins Analytical	Services Manager :	Asim Khan
		Sá	ample Detail			Asbestos - WA guidelines	Asbestos Absence /Presence	HOLD	Organochlorine Pesticides	Metals M8	Suite B13: OCP/PCB	Aggressivity Soil Set	Moisture Set	Eurofins Suite B7	Eurofins Suite B9	BTEXN and Volatile TRH	BTEXN and Volatile TRH			
Mell	ourne Laborat	ory - NATA # 12	261 Site # 12	54						Х				х	х					
Syd	ney Laboratory	- NATA # 1261	Site # 18217	7		х	Х	х	х	Х	Х	х	Х	Х	Х	х	х			
Exte	rnal Laboratory	<u>y</u>			_															
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID															
1	TP60/0-0.2	Mar 08, 2023		Soil	S23-Ma0031528				Х	Х			Х							
2	TP37/0-0.2	Mar 08, 2023		Soil	S23-Ma0031529				Х	Х	<u> </u>		Х	<u> </u>						
3	TP27/0-0.2	Mar 08, 2023		Soil	S23-Ma0031530				Х	X			Х				 			
4	TP30/0-0.2	Mar 08, 2023		Soil	S23-Ma0031531				Х	X			Х							
5	TP35/0-0.2	Mar 08, 2023		Soil	S23-Ma0031532							X	Х		X					
6	TP35/0.3-0.5	Mar 08, 2023		Soil	S23-Ma0031533							X	Х				 			
7	TP35/0.6-0.8	Mar 08, 2023		Soil	S23-Ma0031534							Х	Х				┨──┤			
8	TP56/0-0.2	Mar 08, 2023		Soil	S23-Ma0031535	Х							<u> </u>				┨──┤			
9	TP21/0-0.2	Mar 08, 2023		Soil	S23-Ma0031536				Х	Х			X							
10	TP23/0-0.2	Mar 08, 2023		Soil	S23-Ma0031537								Х		X		┣──┤			
11	TP48/0-0.2	Mar 08, 2023		Soil	S23-Ma0031538	X											┨──┤			
12	TP14/0-0.2	Mar 08, 2023		Soil	S23-Ma0031539	Х						Х	Х		Х					

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web: w	ww.eurofins.com.au		Melbourne 6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000	Geelong 19/8 Lewalan Street Grovedale VIC 3216	Sydney 179 Mago Girrawee NSW 214 Tel: +61 2 403 NATA# 1	n 15 2 9900 8	8400	Mitche ACT 2 Tel: +6	,2 Dacr ell 2911 €1 2 61	re Street 13 8091 Site# 2	t 1/ M Q 1 Te	urarrie LD 417 el: +61 1	Illwood 2 7 3902 4	4600	Mayfi Tel: + NATA	ost Driv eld Wes 61 2 49 # 1261	st NSW 2304 68 8448	Perth 46-48 Banksia Road	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
	mpany Name: dress:	Geo-Logix Bld Q2 Lev Warriewood NSW 2102	el 3, 2309/4 Dayo	dream St			Re Pl	erder N eport i hone: ax:	#:	9 0	PO583 97150 92 997 92 997	9 79 172						Received: Due: Priority: Contact Name:	Mar 10, 2023 10:27 Mar 17, 2023 5 Day Ted Lilly	' AM
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		s	ample Detail			Asbestos - WA guidelines	Asbestos Absence /Presence	HOLD	Organochlorine Pesticides	Metals M8	Suite B13: OCP/PCB	Aggressivity Soil Set	Moisture Set	Eurofins Suite B7	Eurofins Suite B9	BTEXN and Volatile TRH	BTEXN and Volatile TRH			
Melh	ourne Laborato	ory - NATA # 1	261 Site # 1254					-		X				х	x					
	ney Laboratory					X	x	х	x	X	х	x	x	X	X	x	x			
13	TP14/0.3-0.5	Mar 08, 2023	Sc	il S23-Ma	0031540							X	X							
14		Mar 08, 2023	Sc		0031541	X														
15	TP20/0-0.2	Mar 08, 2023	Sc		0031542		1		x	X			x							
16	TP12/0-0.2	Mar 08, 2023	Sc		0031543	x	1	1		1			X	1	x					
17	TP57/0.3-0.5	Mar 08, 2023	Sc		0031544	1	1	1		1	х	1	х	х						
18		Mar 08, 2023	Sc		0031545	х														
19	TP4/0.15-0.35	Mar 08, 2023	Sc		0031546								х		x					
20	TP6/0-0.2	Mar 08, 2023	Sc		0031547	х			[
21	TP6/0.2-0.4	Mar 08, 2023	Sc		0031548								х		X					
22	TP46/0-0.2	Mar 08, 2023	Sc		0031549	х														
23	TP43/0-0.2	Mar 08, 2023	Sc		0031550	х														
24	TP47/0-0.2	Mar 08, 2023	Sc		0031551	х														
25	TP49/0-0.2	Mar 08, 2023	Sc		0031552	Х														
						1	<u> </u>	·'		+	1	1	1	1	1	1				
26	TP19/0-0.2	Mar 08, 2023	Sc	il S23-Ma	0031553				X	X			Х							

		fine	Eurofins Environ	ment Testing Australia	Pty Ltd													Eurofins ARL Pty Ltd ABN: 91 05 0159 898	Eurofins Environm NZBN: 9429046024954	-
web: w	ww.eurofins.com.au		Melbourne 6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 12	Geelong 19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 54 NATA# 1261 Site# 2540	Sydney 179 Mago Girrawee NSW 214 Tel: +61 2 3 NATA# 1	n 5 2 9900 8	8400	Mitche ACT 2 Tel: +	,2 Dacr ell 2911 61 2 61	e Stree 13 809 [.] Site# 2	t 1/ M Q 1 Te	urarrie LD 417 el: +61	Illwood 2 7 3902 4	4600	Mayfie Tel: + NATA	ost Driv eld Wes 61 2 49 # 1261	st NSW 2304 68 8448	Perth 46-48 Banksia Road Welshpool WA 6106 Tel: +61 8 6253 4444 NATA# 2377 Site# 2370	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
	mpany Name: dress:	Geo-Logix Bld Q2 Lev Warriewood NSW 2102	el 3, 2309/4 Dayd d	ream St			R Pl	rder N eport hone: ax:	#:	9 (PO583 97150 92 997 92 997	9 79 172						Received: Due: Priority: Contact Name:	Mar 10, 2023 10:27 Mar 17, 2023 5 Day Ted Lilly	7 AM
	oject Name: oject ID:	AUSTRAL 2301008	- PRIMARY															Eurofins Analytical	Services Manager :	Asim Khan
		s	ample Detail			Asbestos - WA guidelines	Asbestos Absence /Presence	HOLD	Organochlorine Pesticides	Metals M8	Suite B13: OCP/PCB	Aggressivity Soil Set	Moisture Set	Eurofins Suite B7	Eurofins Suite B9	BTEXN and Volatile TRH	BTEXN and Volatile TRH			
Melb	ourne Laborato	ory - NATA # 1	261 Site # 1254							х				х	x					
Sydı	ney Laboratory	- NATA # 1261	Site # 18217			х	Х	Х	Х	Х	Х	х	Х	х	X	Х	х			
28	TP11/0-0.2	Mar 08, 2023	Soi	S23-Ma0	031555				Х	Х			Х							
29	TP33/0-0.1	Mar 08, 2023	Soi	S23-Ma0	031556				х	х			х							
30	TP40/0-0.1	Mar 07, 2023	Soi	S23-Ma0	031557				х	х			х							
31	TP34/0-0.1	Mar 06, 2023	Soi	S23-Ma0	031558				х	х			х							
32	TP25/0-0.1	Mar 06, 2023	Soi	S23-Ma0	031559				х	Х			х							
33	TP10/0-0.2	Mar 06, 2023	Soi	S23-Ma0	031560	х							Х		х					
34	TP45/0-0.2	Mar 06, 2023	Soi	S23-Ma0	031561	х														
35	TP32/0-0.3	Mar 07, 2023	Soi	S23-Ma0	031562				Х	Х			Х							
36	TP24/0-0.2	Mar 07, 2023	Soi	S23-Ma0	031563				х	Х			Х							
37	TP9/0-0.3	Mar 07, 2023	Soi			х							х		X					
38	TP52/0-0.5	Mar 07, 2023	Soi			х														
39	TP1/0.1-0.3	Mar 07, 2023	Soi										х		x					
40	TP1/0.3-0.5	Mar 07, 2023	Soi			х	1	1			1	1	х	1	x					
41	TP44/0.15- 0.35	Mar 07, 2023	Soi			х														

		C:	Eurofins Enviro ABN: 50 005 085 5		g Australia Pty L	.td												Eurofins ARL Pty Ltd ABN: 91 05 0159 898	Eurofins Environm NZBN: 9429046024954	
web: w	ww.eurofins.com.au		Melbourne 6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 500	Geelong 19/8 Lewa Grovedale VIC 3216 00 Tel: +61 3	alan Street 179 e Girra NSV	Magowar aween W 2145 : +61 2 99	00 8400	Unit Mitc ACT Tel:	hell Γ 2911 +61 2 6	cre Stree 113 809 1 Site# 2	et 1/ M Q 91 Te	/lurarrie 2LD 417 el: +61 7	allwood F 72 7 3902 4	4600	Mayfi Tel: + NATA	rost Driv eld Wes 61 2 496 # 1261	st NSW 2304 68 8448	Perth 46-48 Banksia Road	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
	mpany Name: dress:	Geo-Logix Bld Q2 Lev Warriewood NSW 2102	vel 3, 2309/4 Day d	/dream St				Order Repor Phone Fax:	t #:	(PO583 97150 02 997 02 997)9 79 172						Received: Due: Priority: Contact Name:	Mar 10, 2023 10:27 Mar 17, 2023 5 Day Ted Lilly	' AM
	oject Name: oject ID:	AUSTRAL 2301008	- PRIMARY															Eurofins Analytical S	Services Manager :	Asim Khan
		s	Sample Detail			Aspesitos - WA guidelines	Asbestos Absence /Presence		Organochlorine Pesticides	Metals M8	Suite B13: OCP/PCB	Aggressivity Soil Set	Moisture Set	Eurofins Suite B7	Eurofins Suite B9	BTEXN and Volatile TRH	BTEXN and Volatile TRH			
Melb	ourne Laborato	ory - NATA # 1	261 Site # 1254						-	X	-		-	X	x					
	ney Laboratory					:	< >	(X	X	X	x	x	X	X	X	Х	x			
-	TP17/0-0.2	Mar 07, 2023		oil	S23-Ma00315	569	-		-	+	1	x	х		x					
43	TP17/0.4-0.6	Mar 07, 2023		Soil	S23-Ma00315		+	1	1	1		x	Х		x					
44	TP16/0-0.2	Mar 07, 2023		oil	S23-Ma00315		\top	1	X	X	1	1	Х	1						
45	TP51/0-0.3	Mar 07, 2023		Soil	S23-Ma00315			1	1	1	1	1	1	1						
46	TP18/0-0.2	Mar 07, 2023		Soil	S23-Ma00315				Х	X	1		х							
47	TP26/0-0.2	Mar 07, 2023		oil	S23-Ma00315				Х	Х			Х							
48	TP2/0-0.2	Mar 07, 2023		oil	S23-Ma00315	575					Х		Х	х						
49	TP2/0-0.7	Mar 07, 2023		oil	S23-Ma00315		<													
50	TP38/0-0.6	Mar 07, 2023		oil	S23-Ma00315		<													
51	TP8/0.15-1	Mar 07, 2023		oil	S23-Ma00315	578 >	<													
52	TP8/0.15-0.35	Mar 07, 2023		oil	S23-Ma00315						Х		Х	х						
53	TP39/0-0.6	Mar 07, 2023		oil	S23-Ma00315		<													
54	TP3/0-0.2	Mar 07, 2023		oil	S23-Ma00315	581							Х		X					
55	TP7/0-0.2	Mar 07, 2023	s	oil	S23-Ma00315	582							Х		Х					
	TP7/0-0.4	Mar 07, 2023		oil	S23-Ma00315	583 >					T	T	T	T						

		C :	Eurofins Enviror ABN: 50 005 085 52	nment Testing Austra	alia Pty Ltd													Eurofins ARL Pty Ltd ABN: 91 05 0159 898	Eurofins Environm NZBN: 9429046024954	-
web: w	ww.eurofins.com.au		Melbourne 6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 500	Geelong 19/8 Lewalan Street Grovedale VIC 3216	Girraweer NSW 214 00 Tel: +61 2	n 15 2 9900 8	8400	Mitche ACT 2 Tel: +6	,2 Dacro ell 2911 ∙61 2 61	re Street 13 8091 Site# 2	et 1/2 M QI 1 Te	urarrie LD 417 el: +61 1	allwood 72 7 3902 4	1600	Mayfie Tel: + NATA	ost Driv eld Wes 61 2 49 # 1261	st NSW 2304 68 8448	Perth 46-48 Banksia Road	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
	mpany Name: dress:	Geo-Logix Bld Q2 Lev Warriewood NSW 2102	vel 3, 2309/4 Day d	dream St			Re	eport a hone: ax:	#:	9 0	PO583 971509 02 997 02 997	9 79 172						Received: Due: Priority: Contact Name:	Mar 10, 2023 10:27 Mar 17, 2023 5 Day Ted Lilly	AM
	oject Name: oject ID:	AUSTRAL 2301008	- PRIMARY															Eurofins Analytical S	Services Manager :	Asim Khan
		s	Sample Detail			Asbestos - WA guidelines	Asbestos Absence /Presence	НОГД	Organochlorine Pesticides	Metals M8	Suite B13: OCP/PCB	Aggressivity Soil Set	Moisture Set	Eurofins Suite B7	Eurofins Suite B9	BTEXN and Volatile TRH	BTEXN and Volatile TRH			
Melb	ourne Laborato	orv - NATA # 1	261 Site # 1254							X				х	х					
	ney Laboratory					X	x	х	х	X	х	x	х	х	x	х	x			
57	TP42/0-0.3	Mar 07, 2023		oil S23-M	Ma0031584	X														
58	TP5/0-0.2	Mar 08, 2023			Ma0031585				х	Х			х							
59	TP41/0-0.3	Mar 08, 2023			Ma0031586				х	Х			х							
60	TP13/0-0.3	Mar 08, 2023			Ma0031587	Х														
61	TP13/0-0.2	Mar 08, 2023			Ma0031588						Х		Х	Х						
62	TP54/0-0.4	Mar 08, 2023	So	oil S23-M	Ma0031589	Х														
63	TP15/0-0.5	Mar 08, 2023	S	oil S23-N	Ma0031590	Х														
64	TP15/0-0.2	Mar 08, 2023			Ma0031591						Х		Х	Х						
65	TP22/0-0.2	Mar 08, 2023	So	oil S23-M	Ma0031592				х	Х			Х							
66	TP31/0-0.2	Mar 08, 2023	So	oil S23-M	Ma0031593								Х		х					
67	TP59/0-0.2	Mar 08, 2023	S	oil S23-N	Ma0031594				х	Х			Х							
68	TP28/0-0.2	Mar 08, 2023	So	oil S23-M	Ma0031595								Х		х					
69	TP29/0-0.2	Mar 08, 2023	So	oil S23-M	Ma0031596				х	Х			Х							
70	TP36/0.3-0.5	Mar 08, 2023	So	oil S23-M	Ma0031597								Х		Х					
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•		c :	Eurofins Envir ABN: 50 005 085		ing Australia Pty Lt	d												Eurofins ARL Pty Ltd ABN: 91 05 0159 898	Eurofins Environm	
web: w	WW.eurofins.com.au		Melbourne 6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 50	Geelon 19/8 Le Groved VIC 32 000 Tel: +6/	walan Street 179 M ale Girra 16 NSW	Nagowar ween 2145 61 2 990	0 8400	Unit Mito AC ⁻ Tel:	h berra t 1,2 Dao chell Γ 2911 +61 2 6 ΓΑ# 126	113 809	et 1. N G 01 T	lurarrie LD 417 el: +61	allwood 72 7 3902 -	4600	1/2 Fi Mayfi Tel: + NATA	+61 2 49 \# 1261	st NSW 2304 968 8448	Perth 46-48 Banksia Road	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
Ad Pre	ompany Name: Idress: oject Name: oject ID:	Warriewood NSW 2102	rel 3, 2309/4 Da d	lydream St				Order Repor Phone Fax:	t #:	1	PO58 97150 02 99 02 99	9 79 172						Received: Due: Priority: Contact Name:	Mar 10, 2023 10:27 Mar 17, 2023 5 Day Ted Lilly	7 AM
	oject ib.	2301000																Eurofins Analytical	Services Manager :	Asim Khan
		s	Sample Detail			Asbestos - WA guidelines	Asbestos Absence /Presence		Organochlorine Pesticides	Metals M8	Suite B13: OCP/PCB	Aggressivity Soil Set	Moisture Set	Eurofins Suite B7	Eurofins Suite B9	BTEXN and Volatile TRH	BTEXN and Volatile TRH			
Mell	ourne Laborate	ory - NATA # 1	261 Site # 125	4						X				х	X					
	ney Laboratory					Х	X	X	Х	Х	Х	Х	Х	Х	X	Х	Х			
72	DS2	Mar 07, 2023		Soil	S23-Ma00315	99			Х	Х			Х							
73	DS3	Mar 08, 2023		Soil	S23-Ma00316	00			Х	Х			Х							
74	TP15/A1	Mar 08, 2023	l	Building Materials	S23-Ma00316	01	x													
75	TP13/A1	Mar 08, 2023		Building Materials	S23-Ma00316	02	x													
76	TRIPB1	Not Provided		Soil	S23-Ma00316	03										х				
77	TRIPS1	Not Provided		Soil	S23-Ma00316	04											х			
78	TRIPB2	Not Provided		Soil	S23-Ma00316	05										х				
79	TRIPS2	Not Provided		Soil	S23-Ma00316	06											х			
80	R1	Mar 08, 2023	N	Nater	S23-Ma00316	07			Х	Х										
81	TP60/0.2-0.4	Mar 08, 2023		Soil	S23-Ma00316	10		Х												
82	TP60/0.5-0.7	Mar 08, 2023		Soil	S23-Ma00316	11		Х												
83	TP37/0.2-0.4	Mar 08, 2023		Soil	S23-Ma00316	12		Х												
84	TP37/0.9-1.1	Mar 08, 2023		Soil	S23-Ma00316	13		Х												

		C:	Eurofins Environm	ent Testing Australia F	Pty Ltd													Eurofins ARL Pty Ltd ABN: 91 05 0159 898	Eurofins Environm NZBN: 9429046024954	-
web: w	ww.eurofins.com.au		Melbourne 6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000	Geelong 19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 4 NATA# 1261 Site# 25403	Sydney 179 Mago Girraweer NSW 214 Tel: +61 2 NATA# 12	n 5 2 9900 8	8400	Mitche ACT 2 Tel: +	l,2 Dacr ell 2911 -61 2 61	re Street 13 8091 Site# 2	t 1/ M Q 1 Te	urarrie LD 417 el: +61 7	Illwood F '2 7 3902 4	4600	Mayfi Tel: + NATA	ost Driv eld Wes 61 2 49 # 1261	st NSW 2304 68 8448	Perth 46-48 Banksia Road	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
	mpany Name: dress:	Geo-Logix I Bld Q2 Levo Warriewood NSW 2102	el 3, 2309/4 Daydro	eam St			R(Pl	rder N eport hone: ax:	#:	g C	PO583 97150 92 997 92 997	9 79 172						Received: Due: Priority: Contact Name:	Mar 10, 2023 10:23 Mar 17, 2023 5 Day Ted Lilly	7 AM
	oject Name: oject ID:	AUSTRAL - 2301008	PRIMARY															Eurofins Analytical	Services Manager :	Asim Khan
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Melt	ourne Laborato	ory - NATA # 1	261 Site # 1254							Х				х	X					
	ney Laboratory					Х	X	Х	Х	Х	Х	х	Х	х	X	х	х			
85	TP27/0.3-0.5	Mar 08, 2023	Soil	S23-Ma0	031614			Х												
86	TP27/1-1.2	Mar 08, 2023	Soil	S23-Ma0	031615			Х												
87	TP30/0.3-0.5	Mar 08, 2023	Soil	S23-Ma0	031616			Х												
88	TP30/0.7-0.9	Mar 08, 2023	Soil	S23-Ma0	031617			Х												
89	TP21/0.2-0.4	Mar 08, 2023	Soil	S23-Ma0	031618			Х												
90	TP21/0.9-1.1	Mar 08, 2023	Soil	S23-Ma0	031619			Х		<u> </u>										
91	TP23/0.25- 0.45	Mar 08, 2023	Soil					х												
92	TP23/0.9-1.1	Mar 08, 2023	Soil	S23-Ma0	031621			Х	<u> </u>	<u> </u>										
93	TP20/0.2-0.4	Mar 08, 2023	Soil	S23-Ma0	031622			Х	<u> </u>	_										
94	TP12/0.4-0.6	Mar 08, 2023	Soil		031623			Х		<u> </u>										
05	TP57/0.15-0.3	Mar 08, 2023	Soil	S23-Ma0	031624			Х		\square										
95						1	1	1	1	1	1	1	1	1	1	1				
95 96	TP4/0-0.15	Mar 08, 2023	Soil	S23-Ma0	031625			Х												
		Mar 08, 2023 Mar 08, 2023	Soil Soil	S23-Ma0 S23-Ma0				X X												

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Melbourne Laborato	rv - NATA # 1	261 Site # 1254							x				х	x					
Sydney Laboratory -					X	x	X	х	X	х	x	x	X	X	x	x			
	Mar 08, 2023	Soi	I S23-Ma	0031628			X												
	Mar 06, 2023	Soi		0031629			x				1		1						
	Mar 06, 2023	Soi		0031630			х												
	Mar 07, 2023	Soi		0031631			х												
							х												
104 TP32/0.3-0.4	Mar 06, 2023	Soi	I S23-Ma	0031632			~							1					
	Mar 06, 2023 Mar 07, 2023	Soi Soi		0031632 0031633			X												
105 TP32/0.4-0.6			I S23-Ma																
	Mar 07, 2023	Soi	I S23-Mai I S23-Mai	0031633			х												
106 TP24/0-0.4	Mar 07, 2023 Mar 07, 2023	Soi Soi	l S23-Ma l S23-Ma l S23-Ma	0031633 0031634			x x												
106TP24/0-0.4107TP24/0.4-0.6	Mar 07, 2023 Mar 07, 2023 Mar 07, 2023	Soi Soi Soi	I S23-Mai I S23-Mai I S23-Mai I S23-Mai	0031633 0031634 0031635			X X X												
106 TP24/0-0.4 107 TP24/0.4-0.6 108 TP9/0.3-0.4	Mar 07, 2023 Mar 07, 2023 Mar 07, 2023 Mar 07, 2023	Soi Soi Soi Soi	I S23-Mai I S23-Mai I S23-Mai I S23-Mai I S23-Mai	0031633 0031634 0031635 0031636			X X X X												
106 TP24/0-0.4 107 TP24/0.4-0.6 108 TP9/0.3-0.4 109 TP52/0-0.2	Mar 07, 2023 Mar 07, 2023 Mar 07, 2023 Mar 07, 2023 Mar 07, 2023	Soi Soi Soi Soi Soi	I S23-Mai I S23-Mai I S23-Mai I S23-Mai I S23-Mai I S23-Mai	0031633 0031634 0031635 0031636 0031637			X X X X X X												
106 TP24/0-0.4 107 TP24/0.4-0.6 108 TP9/0.3-0.4 109 TP52/0-0.2 110 TP52/0.5-0.6	Mar 07, 2023 Mar 07, 2023 Mar 07, 2023 Mar 07, 2023 Mar 07, 2023 Mar 07, 2023 Mar 07, 2023	Soi Soi Soi Soi Soi Soi	I S23-Mai I S23-Mai I S23-Mai I S23-Mai I S23-Mai I S23-Mai I S23-Mai	0031633 0031634 0031635 0031636 0031637 0031638			x x x x x x x x x x x x												
106 TP24/0-0.4 107 TP24/0.4-0.6 108 TP9/0.3-0.4 109 TP52/0-0.2 110 TP52/0.5-0.6 111 TP1/0.7-0.8	Mar 07, 2023 Mar 07, 2023 Mar 07, 2023 Mar 07, 2023 Mar 07, 2023 Mar 07, 2023	Soi Soi Soi Soi Soi Soi Soi	I S23-Mai S23-Mai S23-Mai S23-Mai S23-Mai S23-Mai S23-Mai S23-Mai S23-Mai	0031633 0031634 0031635 0031636 0031637 0031638 0031639			x x x x x x x x x x x x x x x												

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Melbourne Laborato	ory - NATA # 1	261 Site # 1254							Х				х	X					
Sydney Laboratory					X	X	х	x	X	x	x	X	X	X	x	x			
114 TP60/0-0.4	Mar 07, 2023	1 1	S23-Ma0	031643			х												
	Mar 07, 2023	Soil				1	Х		<u> </u>	1									
116 TP16/0-0.2	Mar 07, 2023	Soil	S23-Ma0			1	Х	1	1	1					1				
	Mar 07, 2023	Soil				1	Х	1	1										
118 TP18/0-0.3	Mar 07, 2023	Soil	S23-Ma0				Х	1											
	Mar 07, 2023	Soil	S23-Ma0				Х												
120 TP59/0-0.4	Mar 07, 2023	Soil	S23-Ma0	031649			Х												
121 TP26/0-0.3	Mar 07, 2023	Soil	S23-Ma0				Х												
122 TP26/0.2-0.5	Mar 07, 2023	Soil	S23-Ma0				Х												
123 TP2/0.7-0.9	Mar 07, 2023	Soil	S23-Ma0				Х												
124 TP8/0-0.15	Mar 07, 2023	Soil	S23-Ma0				Х												
					1	+		1	1		1	1		1					
125 TP39/0.6-0.8	Mar 07, 2023	Soil	S23-Ma0	031654			Х									1			
125 TP39/0.6-0.8	Mar 07, 2023	Soil	S23-Ma0 S23-Ma0				X X	<u> </u>	+										
125 TP39/0.6-0.8	-	Soil		031655			-		<u> </u>										

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Melb	ourne Laborate	ory - NATA # 1	261 Site # 1254							х				х	X					
Sydr	ney Laboratory	- NATA # 1261	Site # 18217			Х	Х	Х	Х	Х	х	Х	Х	Х	X	Х	Х			
129	TP5/0.3-0.5	Mar 08, 2023	So	I S23-Ma	0031658			Х												
130	TP5/0-0.3	Mar 08, 2023	Soi	I S23-Ma	0031659			Х												
131	TP41/0.3-0.7	Mar 08, 2023	Soi	I S23-Ma	0031660			Х												
132	TP13/0.3-0.5	Mar 08, 2023	Soi	I S23-Ma	0031661			Х												
133	TP15/0.5-0.7	Mar 08, 2023	Soi	I S23-Ma	0031662			Х												
134	TP22/0.4-0.6	Mar 08, 2023	So	I S23-Ma	0031663			х												
135	TP31/0.3-0.4	Mar 08, 2023	So	I S23-Ma	0031664			Х												
136	TP31/0.4-0.6	Mar 08, 2023	Soi	I S23-Ma	0031665			Х												
137	TP59/0.3-0.5	Mar 08, 2023	So	I S23-Ma	0031666			Х												
138	TP28/0.4-0.5	Mar 08, 2023	So	I S23-Ma	0031667			Х												
139	TP28/0.5-0.7	Mar 08, 2023	So	I S23-Ma	0031668			Х												
140	TP29/0.4-0.6	Mar 08, 2023	So	I S23-Ma	0031669			Х												
141	TP36/0-0.2	Mar 08, 2023	So	I S23-Ma	0031670			Х												
142	TP8/A1	Mar 07, 2023	Bui Ma	lding S23-Ma terials	0031671			х												

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Melb	ourne Laborat	ory - NATA # 1	261 Site # 1254							X				х	X					
Sydr	ney Laboratory	- NATA # 1261	Site # 18217			Х	Х	х	х	х	Х	х	х	х	Х	Х	х			
143	TP2/A1	Mar 07, 2023	Buil Mat	ding S23-M erials	a0031672			x												
144	TP2/A2	Mar 07, 2023	Buil Mat	ding S23-M erials	a0031673			х												
145	BH1/0-0.2	Mar 07, 2023	Soil	S23-M	a0031674			Х												
146	BH1/3.2-3.5	Mar 07, 2023	Soil		a0031675			х												
147	BH2/1.6-1.8	Mar 07, 2023	Soil		a0031676			х												
	BH2/2.3-2.5	Mar 07, 2023	Soil		a0031677			х												
149	BH2/6-6.2	Mar 07, 2023	Soil		a0031678			х												
150	BH3/2-2.2	Mar 07, 2023	Soil		a0031679			х		ļ										
	BH3/3-3.2	Mar 07, 2023	Soil		a0031680			х												
	BH4/2-2.2	Mar 07, 2023	Soil		a0031681			х		ļ			ļ							
153	BH4/5.5-5.7	Mar 07, 2023	Soil	S23-M	a0031682			Х												
Test	Counts					28	2	73	25	25	5	7	50	5	18	2	2			



Internal Quality Control Review and Glossary

General

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

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA. If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

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.
твто	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			· · · ·		
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	
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					
Heavy Metals					
Arsenic	mg/L	< 0.001	0.001	Pass	
Cadmium	mg/L	< 0.0002	0.0002	Pass	
Chromium	mg/L	< 0.001	0.001	Pass	
Copper	mg/L	< 0.001	0.001	Pass	
Lead	mg/L	< 0.001	0.001	Pass	
Mercury	mg/L	< 0.0001	0.0001	Pass	
Nickel	mg/L	< 0.001	0.001	Pass	
Zinc	mg/L	< 0.005	0.005	Pass	
LCS - % Recovery					
Organochlorine Pesticides					
Chlordanes - Total	%	86	70-130	Pass	
4.4'-DDD	%	104	70-130	Pass	
4.4'-DDE	%	88	70-130	Pass	
4.4'-DDT	%	104	70-130	Pass	
a-HCH	%	103	70-130	Pass	
Aldrin	%	106	70-130	Pass	
b-HCH	%	113	70-130	Pass	
d-HCH	%	110	70-130	Pass	
Dieldrin	%	101	70-130	Pass	
Endosulfan I	%	102	70-130	Pass	
Endosulfan II	%	108	70-130	Pass	
Endrin	%	84	70-130	Pass	
Endrin ketone	%	88	70-130	Pass	
g-HCH (Lindane)	%	112	70-130	Pass	
Heptachlor	%	107	70-130	Pass	
Heptachlor epoxide	%	95	70-130	Pass	
Hexachlorobenzene	%	87	70-130	Pass	



т	est		Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Methoxychlor			%	122			70-130	Pass	
LCS - % Recovery									
Heavy Metals									
Arsenic			%	91			80-120	Pass	
Cadmium			%	94			80-120	Pass	
Chromium			%	97			80-120	Pass	
Copper			%	98			80-120	Pass	
Lead			%	97			80-120	Pass	
Mercury			%	108			80-120	Pass	
Nickel			%	98			80-120	Pass	
Zinc			%	94			80-120	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery				1	ii		1	l	
Organochlorine Pesticides	1	1		Result 1					
Chlordanes - Total	S23-Ma0029272	NCP	%	84			70-130	Pass	
4.4'-DDD	S23-Ma0029272	NCP	%	92			70-130	Pass	
4.4'-DDE	S23-Ma0029272	NCP	%	82			70-130	Pass	
4.4'-DDT	S23-Ma0029272	NCP	%	97			70-130	Pass	
a-HCH	S23-Ma0029272	NCP	%	83			70-130	Pass	
Aldrin	S23-Ma0029272	NCP	%	90			70-130	Pass	
b-HCH	S23-Ma0029272	NCP	%	90			70-130	Pass	
d-HCH	S23-Ma0029272	NCP	%	95			70-130	Pass	
Dieldrin	S23-Ma0029272	NCP	%	91			70-130	Pass	
Endosulfan I	S23-Ma0029272	NCP	%	88			70-130	Pass	
Endosulfan II	S23-Ma0029272	NCP	%	93			70-130	Pass	
Endosulfan sulphate	S23-Ma0029272	NCP	%	71			70-130	Pass	
Endrin	S23-Ma0029272	NCP	%	87			70-130	Pass	
Endrin ketone	S23-Ma0029272	NCP	%	84			70-130	Pass	
g-HCH (Lindane)	S23-Ma0029272	NCP	%	104			70-130	Pass	
Heptachlor	S23-Ma0029272	NCP	%	98			70-130	Pass	
Heptachlor epoxide	S23-Ma0029272	NCP	%	89			70-130	Pass	
Hexachlorobenzene	S23-Ma0029272	NCP	%	75			70-130	Pass	
Methoxychlor	S23-Ma0029272	NCP	%	120			70-130	Pass	
Spike - % Recovery				Result 1			1		
Heavy Metals Arsenic	S23-Ma0026267	NCP	%	82			75-125	Pass	
Cadmium	S23-Ma0026267	NCP	%	81			75-125	Pass	
Chromium	S23-Ma0026267	NCP	%	80			75-125	Pass	
Copper	S23-Ma0026267	NCP	%	80			75-125	Pass	
Lead	S23-Ma0026267	NCP	%	80			75-125	Pass	
Mercury	S23-Ma0026267	NCP	%	88			75-125	Pass	
Nickel	S23-Ma0026267	NCP	%	80			75-125	Pass	
Zinc	N23-Ma0045674	NCP	%	90			75-125	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate		304100							
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S23-Ma0028908	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Cadmium	S23-Ma0028908	NCP	mg/L	0.0002	0.0002	7.3	30%	Pass	
Chromium	S23-Ma0028908	NCP	mg/L	0.0002	0.007	1.3	30%	Pass	
Copper	S23-Ma0028908	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Lead	S23-Ma0028908	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Mercury	S23-Ma0028908	NCP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel	S23-Ma0028908	NCP	mg/L	0.014	0.014	4.1	30%	Pass	
Zinc	S23-Ma0031607	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	



Comments

Sample Integrity	
Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	N/A
Some samples have been subcontracted	No

Authorised by:

Adam Bateup Fang Yee Tan Roopesh Rangarajan Analytical Services Manager Senior Analyst-Metal Senior Analyst-Organic

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

Environment Testing

Geo-Logix P/L Bld Q2 Level 3, 2309/4 Daydream St Warriewood NSW 2102



NATA Accredited Accreditation Number 1261 Site Number 18217

Accredited for compliance with ISO/IEC 17025–Testing NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: Report Project Name Project ID Received Date Date Reported	Ted Lilly 971509-AID AUSTRAL - PRIMARY 2301008 Mar 10, 2023 Mar 28, 2023
Methodology: Asbestos Fibre Identification	Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques. NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.
Unknown Mineral Fibres	Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity. NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.
Subsampling Soil Samples	The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed. NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.
Bonded asbestos- containing material (ACM)	The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination. The resultant material is then further examined in accordance with AS 4964 - 2004. NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.
Limit of Reporting	The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w). The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk). NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01% " and that currently in Australia" there is no validated method available for the quantification of asbestos". This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.



Project NameAUSTRAL - PRIMARYProject ID2301008Date SampledMar 06, 2023 to Mar 08, 2023Report971509-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
TP56/0-0.2	23-Ma0031535	Mar 08, 2023	Approximate Sample 802g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP48/0-0.2	23-Ma0031538	Mar 08, 2023	Approximate Sample 700g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP14/0-0.2	23-Ma0031539	Mar 08, 2023	Approximate Sample 838g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP55/0-0.2	23-Ma0031541	Mar 08, 2023	Approximate Sample 782g Sample consisted of: Brown fine-grained clayey soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP12/0-0.2	23-Ma0031543	Mar 08, 2023	Approximate Sample 815g Sample consisted of: Brown fine-grained clayey soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP57/0-0.15	23-Ma0031545	Mar 08, 2023	Approximate Sample 607g 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.
TP6/0-0.2	23-Ma0031547	Mar 08, 2023	Approximate Sample 724g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP46/0-0.2	23-Ma0031549	Mar 08, 2023	Approximate Sample 617g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.



Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
TP43/0-0.2	23-Ma0031550	Mar 08, 2023	Approximate Sample 704g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP47/0-0.2	23-Ma0031551	Mar 08, 2023	Approximate Sample 795g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP49/0-0.2	23-Ma0031552	Mar 08, 2023	Approximate Sample 820g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP50/0-0.2	23-Ma0031554	Mar 08, 2023	Approximate Sample 928g Sample consisted of: Brown coarse- grained sandy clayey soil, cement and rocks	 FA: Chrysotile and amosite asbestos detected in weathered fibre cement fragments. Approximate raw weight of FA = 0.020g Estimated asbestos content in FA = 0.0050g* AF: Chrysotile and amosite asbestos detected in fibre cement fragments. Approximate raw weight of AF = 0.22g* Estimated asbestos content in AF = 0.022g* Total estimated asbestos content in FA and AF = 0.027g* Total estimated asbestos concentration in FA and AF = 0.0029% w/w* Organic fibre detected. No trace asbestos detected.
TP10/0-0.2	23-Ma0031560	Mar 06, 2023	Approximate Sample 501g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP45/0-0.2	23-Ma0031561	Mar 06, 2023	Approximate Sample 545g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP9/0-0.3	23-Ma0031564	Mar 07, 2023	Approximate Sample 742g Sample consisted of: Brown fine-grained clayey soil, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP52/0-0.5	23-Ma0031565	Mar 07, 2023	Approximate Sample 628g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP1/0.3-0.5	23-Ma0031567	Mar 07, 2023	Approximate Sample 703g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.



Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result			
TP44/0.15-0.35	23-Ma0031568	Mar 07, 2023	Approximate Sample 593g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.			
TP51/0-0.3	23-Ma0031572	Mar 07, 2023	Approximate Sample 721g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.			
TP2/0-0.7	23-Ma0031576	Mar 07, 2023	Approximate Sample 754g Sample consisted of: Brown fine-grained clayey soil, bitumen, brick, cement, ceramic material and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.			
TP38/0-0.6	23-Ma0031577	Mar 07, 2023	Approximate Sample 780g Sample consisted of: Brown fine-grained clayey soil, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.			
TP8/0.15-1	23-Ma0031578	Mar 07, 2023	Approximate Sample 592g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.			
TP39/0-0.6	23-Ma0031580	Mar 07, 2023	Approximate Sample 696g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.			
TP7/0-0.4	23-Ma0031583	Mar 07, 2023	Approximate Sample 670g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.			
TP42/0-0.3	23-Ma0031584	Mar 07, 2023	Approximate Sample 503g Sample consisted of: Brown fine-grained clayey soil, glass and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.			
TP13/0-0.3	23-Ma0031587	Mar 08, 2023	Approximate Sample 712g Sample consisted of: Brown fine-grained clayey soil, fragments of plaster, ceramic and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.			
TP54/0-0.4	23-Ma0031589	Mar 08, 2023	Approximate Sample 641g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.			
TP15/0-0.5	23-Ma0031590	Mar 08, 2023	Approximate Sample 872g Sample consisted of: Brown fine-grained clayey soil and rocks	FA: Chrysotile and amosite asbestos detected in weathered fibre cement fragments. Approximate raw weight of FA = $0.036g$ Estimated asbestos content in FA = $0.014g^*$ Total estimated asbestos concentration in FA = 0.0016% w/w [*]			
				Organic fibre detected. No trace asbestos detected.			



Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
TP15/A1	23-Ma0031601	Mar 08, 2023	Approximate Sample 5g / 25x15x3mm Sample consisted of: Grey fibre cement material	Chrysotile and amosite asbestos detected.
TP13/A1	23-Ma0031602	Mar 08, 2023		No asbestos 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

Asbestos - LTM-ASB-8020 Asbestos - LTM-ASB-8020

Testing Site	Extracted	Holding Time
Sydney	Mar 14, 2023	Indefinite
Sydney	Mar 14, 2023	Indefinite

	L I	C	g Australia Pty Ltd									Eurofins ARL Pty Ltd ABN: 91 05 0159 898	Eurofins Environment Testing NZ Ltd NZBN: 9429046024954								
web: w	Dandenong South Grovedale Girrawi veb: www.eurofins.com.au VIC 3175 VIC 3216 NSW 2 Tel: +61 3 8564 5000 Tel: +61 3 8564 5000 Tel: +61 3							gowar Road Unit 1,2 Dacre Street 1/21 Smallwood Place 1/2 Frost Drive wen Mitchell Murarrie Mayfield West NSW 2304						Perth 46-48 Banksia Road	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					
	ompany Name: Idress:	Q2 Level 3, 2309/4 Daydream St riewood						Geo-Logix P/L Order No.: PO5836TP Bld Q2 Level 3, 2309/4 Daydream St Report #: 971509 Warriewood Phone: 02 9979 1722 NSW 2102 Fax: 02 9979 1222										Received: Due: Priority: Contact Name:	Mar 10, 2023 10:27 AM Mar 17, 2023 5 Day Ted Lilly		
	oject Name: oject ID:														Eurofins Analytical	Services Manager :	Asim Khan				
	Sample Detail							HOLD	Organochlorine Pesticides	Metals M8	Suite B13: OCP/PCB	Aggressivity Soil Set	Moisture Set	Eurofins Suite B7	Eurofins Suite B9	BTEXN and Volatile TRH	BTEXN and Volatile TRH				
Mell	oourne Laborato	ory - NATA # 12	61 Site # 12	54						Х				Х	х						
Syd	ney Laboratory	- NATA # 1261	Site # 18217	,		Х	X	Х	Х	Х	Х	Х	Х	Х	X	Х	Х				
Exte	ernal Laboratory	1			1																
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID																
1	TP60/0-0.2	Mar 08, 2023		Soil	S23-Ma0031528				Х	Х			х								
2	TP37/0-0.2	Mar 08, 2023		Soil	S23-Ma0031529				Х	Х			Х								
3	TP27/0-0.2	Mar 08, 2023		Soil	S23-Ma0031530				х	х			х								
4	TP30/0-0.2	Mar 08, 2023		Soil	S23-Ma0031531				Х	Х			х								
5	TP35/0-0.2	Mar 08, 2023		Soil	S23-Ma0031532							Х	X		X						
6	TP35/0.3-0.5	Mar 08, 2023		Soil	S23-Ma0031533							Х	Х								
7	TP35/0.6-0.8	Mar 08, 2023		Soil	S23-Ma0031534							Х	X				┨──┤				
8	TP56/0-0.2	Mar 08, 2023		Soil	S23-Ma0031535	Х															
9	TP21/0-0.2	Mar 08, 2023		Soil	S23-Ma0031536				Х	Х			X								
10	TP23/0-0.2	Mar 08, 2023		Soil	S23-Ma0031537	x							X		X		╂──┤				
11 12	TP48/0-0.2 TP14/0-0.2	Mar 08, 2023		Soil Soil	S23-Ma0031538							x	x		x		+				
12	11-14/0-0.2	Mar 08, 2023		3011	S23-Ma0031539		I	I	L	I	I	^_	^		^_	L					

		C :	a Pty Ltd									Eurofins ARL Pty Ltd ABN: 91 05 0159 898	Eurofins Environment Testing NZ Ltd NZBN: 9429046024954							
web: www.eurofins.com.au email: EnviroSales@eurofins.com			ABN: 50 005 085 521 Melbourne Geelong Sydney 6 Monterey Road 19/8 Lewalan Street 179 Mago Dandenong South Grovedale Girraweer VIC 3175 VIC 3216 NSW 2143 Tel: +61 3 8564 5000 Tel: +61 3 8564 5000 Tel: +61 3 8564 5000 NATA# 1261 Site# 1254 NATA# 1261 Site# 25403 NATA# 1261				8400	Canberra Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 217 NATA# 1261 Site# 25466			t 1/ M Q 1 Te				Newcastle 1/2 Frost Drive Mayfield West NSW 2304 Tel: +61 2 4968 8448 NATA# 1261 44 Site# 25079 & 25289			Perth 46-48 Banksia Road	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: Geo-Logix P/L Address: Bld Q2 Level 3, 2309/4 Daydream St Warriewood NSW 2102							erder N eport i hone: ax:	#:	9 0	PO583 97150 92 997 92 997	9 79 172						Received: Due: Priority: Contact Name:	Mar 10, 2023 10:27 Mar 17, 2023 5 Day Ted Lilly	' AM
	Project Name: AUSTRAL - PRIMARY 2301008 Sample Detail																	Eurofins Analytical S	Services Manager :	Asim Khan
								HOLD	Organochlorine Pesticides	Metals M8	Suite B13: OCP/PCB	Aggressivity Soil Set	Moisture Set	Eurofins Suite B7	Eurofins Suite B9	BTEXN and Volatile TRH	BTEXN and Volatile TRH			
Melh	ourne Laborato	ory - NATA # 1	261 Site # 1254					-		X				х	x					
	ney Laboratory					X	x	х	x	X	х	x	x	X	X	x	x			
13	TP14/0.3-0.5	Mar 08, 2023	Sc	il S23-Ma	0031540							X	X							
14		Mar 08, 2023	Sc		0031541	X														
15	TP20/0-0.2	Mar 08, 2023	Sc		0031542		1		x	X			x							
16	TP12/0-0.2	Mar 08, 2023	Sc		0031543	x	1	1		1			X	1	x					
17	TP57/0.3-0.5	Mar 08, 2023	Sc		0031544	1	1			1	х	1	х	х						
18		Mar 08, 2023	Sc		0031545	х														
19	TP4/0.15-0.35	Mar 08, 2023	Sc		0031546								х		x					
20	TP6/0-0.2	Mar 08, 2023	Sc		0031547	х			[
21	TP6/0.2-0.4	Mar 08, 2023	Sc		0031548								х		X					
22	TP46/0-0.2	Mar 08, 2023	Sc		0031549	х														
23	TP43/0-0.2	Mar 08, 2023	Sc		0031550	х														
24	TP47/0-0.2	Mar 08, 2023	Sc		0031551	х														
25	TP49/0-0.2	Mar 08, 2023	Sc		0031552	Х														
						1	<u> </u>	·'		+	1	1	1	1	1	1				
26	TP19/0-0.2	Mar 08, 2023	Sc	il S23-Ma	0031553				X	X			Х							

		Eurofins Environr ABN: 50 005 085 521															Eurofins ARL Pty Ltd ABN: 91 05 0159 898	Eurofins Environment Testing NZ Ltd NZBN: 9429046024954		
web: www.eurofins.com.au email: EnviroSales@eurofins.com			Melbourne Geelong Syd 6 Monterey Road 19/8 Lewalan Street 179 Dandenong South Grovedale Girr. VIC 3175 VIC 3216 NSW			Sydney 79 Magowar Road Birraween ISW 2145 Fel: +61 2 9900 8400 IATA# 1261 Site# 1821			Canberra Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 I7 NATA# 1261 Site# 2546						Newcastle 1/2 Frost Drive Mayfield West NSW 2304 Tei: +61 2 4968 8448 NATA# 1261 4 Site# 25079 & 25289			Perth 46-48 Banksia Road Welshpool WA 6106 Tel: +61 8 6253 4444 NATA# 2377 Site# 2370	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: Geo-Logix P/L Address: Bld Q2 Level 3, 2309/4 Daydream St Warriewood NSW 2102							R P	eport #: 971 hone: 02 9)7150)2 997	05836TP 1509 9979 1722 9979 1222						Received: Due: Priority: Contact Name:	Mar 10, 2023 10:27 Mar 17, 2023 5 Day Ted Lilly	7 AM
Project Name:AUSTRAL - PRIMARYProject ID:2301008																	Eurofins Analytical Services Manager : Asim Khan			
		s	ample Detail			Asbestos - WA guidelines	Asbestos Absence /Presence	HOLD	Organochlorine Pesticides	Metals M8	Suite B13: OCP/PCB	Aggressivity Soil Set	Moisture Set	Eurofins Suite B7	Eurofins Suite B9	BTEXN and Volatile TRH	BTEXN and Volatile TRH			
Mell	ourne Laborato	ory - NATA # 1	261 Site # 1254							х				х	X					
Syd	ney Laboratory	- NATA # 1261	I Site # 18217			Х	X	Х	Х	Х	Х	Х	Х	Х	X	х	Х			
28	TP11/0-0.2	Mar 08, 2023	Soil	S23-Ma00)31555				х	х			х							
29	TP33/0-0.1	Mar 08, 2023	Soil	S23-Ma00	031556				х	х			х							
30	TP40/0-0.1	Mar 07, 2023			31557				х	х			х							
31	TP34/0-0.1	Mar 06, 2023			31558				х	х			х							
32	TP25/0-0.1	Mar 06, 2023							х	х			х							
33	TP10/0-0.2	Mar 06, 2023			031560	X							Х		X					
34	TP45/0-0.2	Mar 06, 2023			031561	X														
35	TP32/0-0.3	Mar 07, 2023			031562				х	Х			Х							
36	TP24/0-0.2	Mar 07, 2023							х	Х			Х							
37	TP9/0-0.3	Mar 07, 2023	Soil	S23-Ma00	031564	X							Х		X					
38	TP52/0-0.5	Mar 07, 2023)31565	X														
39	TP1/0.1-0.3	Mar 07, 2023)31566								Х		X					
40	TP1/0.3-0.5	Mar 07, 2023	Soil	S23-Ma00)31567	х							х		X					
41	TP44/0.15- 0.35	Mar 07, 2023	Soil	S23-Ma00)31568	х														

••• annafina			Eurofins Environment Testing Australia Pty Ltd ABN: 50 005 085 521														Eurofins ARL Pty Ltd ABN: 91 05 0159 898	Eurofins Environment Testing NZ Ltd NZBN: 9429046024954		
web: www.eurofins.com.au email: EnviroSales@eurofins.com			ABN: 50 005 005 521 Melbourne Geelong Sydney 6 Monterey Road 19/8 Lewalan Street 179 Mag Dandenong South Grovedale Girrawee VIC 3175 VIC 3216 NSW 214 Tel: +61 3 8564 5000 Tel: +61 3 8564 5000 Tel: +61 3 NATA# 1261 Site# 1254 NATA# 1261 Site# 25403 NATA# 1			n 15 2 9900 8	8400	Canberra Unit 1,2 Dacre Street Mitchell ACT 2911 Tel: +61 2 6113 8091 217 NATA# 1261 Site# 2546			et 1/2 M QI 1 Te	Brisbane 1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 66 NATA# 1261 Site# 20794				61 2 49 # 1261	st NSW 2304 968 8448	ABN: 91 05 0159 898 Perth 46-48 Banksia Road Welshpool WA 6106 Tel: +61 8 6253 4444 NATA# 2377 Site# 2370	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: Geo-Logix P/L Address: Bid Q2 Level 3, 2309/4 Daydream St Warriewood NSW 2102							Re	Report #: 97 Phone: 02			971509 02 997	O5836TP 71509 2 9979 1722 2 9979 1222						Received: Due: Priority: Contact Name:	Mar 10, 2023 10:27 Mar 17, 2023 5 Day Ted Lilly	' AM
	ject Name: AUSTRAL - PRIMARY ject ID: 2301008																	Eurofins Analytical S	Services Manager :	Asim Khan
		s	ample Detail			Asbestos - WA guidelines	Asbestos Absence /Presence	HOLD	Organochlorine Pesticides	Metals M8	Suite B13: OCP/PCB	Aggressivity Soil Set	Moisture Set	Eurofins Suite B7	Eurofins Suite B9	BTEXN and Volatile TRH	BTEXN and Volatile TRH			
Melb	ourne Laborato	orv - NATA # 1	261 Site # 1254							x				х	x					
	ney Laboratory					X	X	х	х	X	х	x	х	X	X	х	X			
	TP17/0-0.2	Mar 07, 2023		il S23-Ma	0031569						<u> </u>	x	х		x					
43		Mar 07, 2023	Sc		0031570		1					x	х		x					
44	TP16/0-0.2	Mar 07, 2023	Sc		0031571	1	1	1	х	x	1		X	1						
45	TP51/0-0.3	Mar 07, 2023	Sc		0031572	x	1			1	1			1						
46	TP18/0-0.2	Mar 07, 2023	Sc		0031573				х	x			х							
47	TP26/0-0.2	Mar 07, 2023	Sc		0031574				х	х			Х							
48	TP2/0-0.2	Mar 07, 2023	Sc	il S23-Ma	0031575						Х		Х	х						
49	TP2/0-0.7	Mar 07, 2023	Sc		0031576	х														
50	TP38/0-0.6	Mar 07, 2023	Sc		0031577	Х														
51	TP8/0.15-1	Mar 07, 2023	Sc		0031578	х														
52	TP8/0.15-0.35	Mar 07, 2023	Sc		0031579						Х		х	х						
53	TP39/0-0.6	Mar 07, 2023	Sc		0031580	х														
54	TP3/0-0.2	Mar 07, 2023	Sc		0031581								Х		X					
	TP7/0-0.2	Mar 07, 2023				T		T	(~					
55	TF7/0-0.2	IVIAI 07, 2023	Sc	II S23-Ma	0031582								Х		X					

		C :	Eurofins Enviror ABN: 50 005 085 52	nment Testing Austra	alia Pty Ltd													Eurofins ARL Pty Ltd ABN: 91 05 0159 898	Eurofins Environm NZBN: 9429046024954	-
web: w	ww.eurofins.com.au		Melbourne 6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 500	Geelong 19/8 Lewalan Street Grovedale VIC 3216	Girraweer NSW 214 00 Tel: +61 2	n 15 2 9900 8	8400	Mitche ACT 2 Tel: +6	,2 Dacro ell 2911 €1 2 61	re Street 13 8091 Site# 2	et 1/2 M QI 1 Te	urarrie LD 417 el: +61 1	allwood 72 7 3902 4	1600	Mayfie Tel: + NATA	ost Driv eld Wes 61 2 49 # 1261	st NSW 2304 68 8448	Perth 46-48 Banksia Road	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
	mpany Name: dress:	Geo-Logix Bld Q2 Lev Warriewood NSW 2102	vel 3, 2309/4 Day d	dream St			Re	eport a hone: ax:	#:	9 0	PO583 971509 02 997 02 997	9 79 172						Received: Due: Priority: Contact Name:	Mar 10, 2023 10:27 Mar 17, 2023 5 Day Ted Lilly	AM
	oject Name: oject ID:	AUSTRAL 2301008	- PRIMARY															Eurofins Analytical S	Services Manager :	Asim Khan
		s	Sample Detail			Asbestos - WA guidelines	Asbestos Absence /Presence	НОГД	Organochlorine Pesticides	Metals M8	Suite B13: OCP/PCB	Aggressivity Soil Set	Moisture Set	Eurofins Suite B7	Eurofins Suite B9	BTEXN and Volatile TRH	BTEXN and Volatile TRH			
Melb	ourne Laborato	orv - NATA # 1	261 Site # 1254							X				х	х					
	ney Laboratory					X	x	х	х	X	х	x	х	х	x	х	x			
57	TP42/0-0.3	Mar 07, 2023		oil S23-M	Ma0031584	X														
58	TP5/0-0.2	Mar 08, 2023			Ma0031585				х	Х			х							
59	TP41/0-0.3	Mar 08, 2023			Ma0031586				х	Х			х							
60	TP13/0-0.3	Mar 08, 2023			Ma0031587	Х														
61	TP13/0-0.2	Mar 08, 2023			Ma0031588						Х		Х	Х						
62	TP54/0-0.4	Mar 08, 2023	So	oil S23-M	Ma0031589	Х														
63	TP15/0-0.5	Mar 08, 2023	S	oil S23-N	Ma0031590	Х														
64	TP15/0-0.2	Mar 08, 2023			Ma0031591						Х		Х	Х						
65	TP22/0-0.2	Mar 08, 2023	So	oil S23-M	Ma0031592				х	Х			Х							
66	TP31/0-0.2	Mar 08, 2023	So	oil S23-M	Ma0031593								Х		х					
67	TP59/0-0.2	Mar 08, 2023	S	oil S23-N	Ma0031594				х	Х			Х							
68	TP28/0-0.2	Mar 08, 2023	So	oil S23-M	Ma0031595								Х		х					
69	TP29/0-0.2	Mar 08, 2023	So	oil S23-M	Ma0031596				х	Х			Х							
70	TP36/0.3-0.5	Mar 08, 2023	So	oil S23-M	Ma0031597								Х		Х					
									<u> </u>											

		C :	Eurofins Enviro ABN: 50 005 085 5		ng Australia Pty Ltd													Eurofins ARL Pty Ltd ABN: 91 05 0159 898	Eurofins Environm NZBN: 9429046024954	-
web: w	WW.eurofins.com.au		Melbourne 6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 500	Geelong 19/8 Lew Grovedal VIC 3216 00 Tel: +61 3	alan Street 179 Ma e Girrawe	gowar Ro en 45 2 9900	8400	Mitche ACT 2 Tel: +	,2 Dacr ell 2911 61 2 61	e Stree 13 809 ⁻ Site# 2	t 1/ M Q 1 Te	lurarrie LD 417 el: +61	allwood 72 7 3902 4	4600	Mayfi Tel: + NATA	rost Driv eld Wes 61 2 49 v# 1261	st NSW 2304 168 8448	Perth 46-48 Banksia Road	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
Ad	ompany Name: Idress: oject Name:	Warriewoo NSW 2102	vel 3, 2309/4 Day d	/dream St			R Pl	rder N eport hone: ax:	#:	9 (PO583 97150 02 997 02 997	9 79 172						Received: Due: Priority: Contact Name:	Mar 10, 2023 10:23 Mar 17, 2023 5 Day Ted Lilly	Y AM
	oject ID:	2301008																Eurofins Analytical	Services Manager :	Asim Khan
		S	Sample Detail			Asbestos - WA guidelines	Asbestos Absence /Presence	HOLD	Organochlorine Pesticides	Metals M8	Suite B13: OCP/PCB	Aggressivity Soil Set	Moisture Set	Eurofins Suite B7	Eurofins Suite B9	BTEXN and Volatile TRH	BTEXN and Volatile TRH			
Mell	bourne Laborato	ory - NATA # 1	1261 Site # 1254	ļ						х				Х	X					
Syd	ney Laboratory	- NATA # 1261	1 Site # 18217			Х	Х	Х	х	х	Х	х	Х	х	Х	Х	х			
72	DS2	Mar 07, 2023	S	oil	S23-Ma0031599				Х	Х			Х							
73	DS3	Mar 08, 2023	S	oil	S23-Ma0031600				х	х			Х							
74	TP15/A1	Mar 08, 2023	B	uilding laterials	S23-Ma0031601		x													
75	TP13/A1	Mar 08, 2023	N	uilding laterials	S23-Ma0031602	: 	x													
76	TRIPB1	Not Provided		oil	S23-Ma0031603			<u> </u>								Х				
77	TRIPS1	Not Provided		oil	S23-Ma0031604	-		<u> </u>									Х			
78	TRIPB2	Not Provided	s	oil	S23-Ma0031605											Х				
79	TRIPS2	Not Provided		oil	S23-Ma0031606												х			
80	R1	Mar 08, 2023	N N	/ater	S23-Ma0031607	·			х	х										
81	TP60/0.2-0.4	Mar 08, 2023		oil	S23-Ma0031610			Х												
82	TP60/0.5-0.7	Mar 08, 2023	S	oil	S23-Ma0031611			Х												
83	TP37/0.2-0.4	Mar 08, 2023		oil	S23-Ma0031612			Х												
84	TP37/0.9-1.1	Mar 08, 2023	s	oil	S23-Ma0031613			х												

		C'	Eurofins Environn ABN: 50 005 085 521	nent Testing Australia	Pty Ltd													Eurofins ARL Pty Ltd ABN: 91 05 0159 898	Eurofins Environm	-
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Melk	ourne Laborato	ory - NATA # 1	261 Site # 1254							х				х	x					
	ney Laboratory					х	X	Х	х	х	х	X	Х	х	X	х	х			
85	TP27/0.3-0.5	Mar 08, 2023	Soil	S23-Ma0	031614			Х												
86	TP27/1-1.2	Mar 08, 2023	Soil	S23-Ma0	031615			Х												
87	TP30/0.3-0.5	Mar 08, 2023	Soil	S23-Ma0	031616			Х												
88	TP30/0.7-0.9	Mar 08, 2023	Soil	S23-Ma0	031617			Х												
89		Mar 08, 2023			031618			х												
90	TP21/0.9-1.1	Mar 08, 2023	Soil	S23-Ma0	031619			Х												
91	TP23/0.25- 0.45	Mar 08, 2023			031620			x												
92		Mar 08, 2023			031621			Х												
93		Mar 08, 2023						Х												
94		Mar 08, 2023			031623			Х												
95	TP57/0.15-0.3				031624			Х												
96		Mar 08, 2023		S23-Ma0	031625			Х												
97		Mar 08, 2023			031626			Х					<u> </u>							
98	TP19/0.6-0.8	Mar 08, 2023	Soil	S23-Ma0	031627	1		X			1	1		1						

	C:	Eurofins Environ	ment Testing Australia	Pty Ltd													Eurofins ARL Pty Ltd ABN: 91 05 0159 898	Eurofins Environm NZBN: 9429046024954	-
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Melbourne Laborato	rv - NATA # 1	261 Site # 1254							x				х	x					
Sydney Laboratory -					X	x	X	х	X	х	x	x	X	X	x	x			
	Mar 08, 2023	Soi	I S23-Ma	0031628			X												
	Mar 06, 2023	Soi		0031629			x				1		1						
	Mar 06, 2023	Soi		0031630			х												
	Mar 07, 2023	Soi		0031631			х												
							х												
104 TP32/0.3-0.4	Mar 06, 2023	Soi	I S23-Ma	0031632			~							1					
	Mar 06, 2023 Mar 07, 2023	Soi Soi		0031632 0031633			X												
105 TP32/0.4-0.6			I S23-Ma																
	Mar 07, 2023	Soi	I S23-Mai I S23-Mai	0031633			х												
106 TP24/0-0.4	Mar 07, 2023 Mar 07, 2023	Soi Soi	l S23-Ma l S23-Ma l S23-Ma	0031633 0031634			x x												
106TP24/0-0.4107TP24/0.4-0.6	Mar 07, 2023 Mar 07, 2023 Mar 07, 2023	Soi Soi Soi	I S23-Mai I S23-Mai I S23-Mai I S23-Mai	0031633 0031634 0031635			X X X												
106 TP24/0-0.4 107 TP24/0.4-0.6 108 TP9/0.3-0.4	Mar 07, 2023 Mar 07, 2023 Mar 07, 2023 Mar 07, 2023	Soi Soi Soi Soi	I S23-Mai I S23-Mai I S23-Mai I S23-Mai I S23-Mai	0031633 0031634 0031635 0031636			X X X X												
106 TP24/0-0.4 107 TP24/0.4-0.6 108 TP9/0.3-0.4 109 TP52/0-0.2	Mar 07, 2023 Mar 07, 2023 Mar 07, 2023 Mar 07, 2023 Mar 07, 2023	Soi Soi Soi Soi Soi	I S23-Mai I S23-Mai I S23-Mai I S23-Mai I S23-Mai I S23-Mai	0031633 0031634 0031635 0031636 0031637			X X X X X X												
106 TP24/0-0.4 107 TP24/0.4-0.6 108 TP9/0.3-0.4 109 TP52/0-0.2 110 TP52/0.5-0.6	Mar 07, 2023 Mar 07, 2023 Mar 07, 2023 Mar 07, 2023 Mar 07, 2023 Mar 07, 2023 Mar 07, 2023	Soi Soi Soi Soi Soi Soi	I S23-Mai I S23-Mai I S23-Mai I S23-Mai I S23-Mai I S23-Mai I S23-Mai	0031633 0031634 0031635 0031636 0031637 0031638			x x x x x x x x x x x x x												
106 TP24/0-0.4 107 TP24/0.4-0.6 108 TP9/0.3-0.4 109 TP52/0-0.2 110 TP52/0.5-0.6 111 TP1/0.7-0.8	Mar 07, 2023 Mar 07, 2023 Mar 07, 2023 Mar 07, 2023 Mar 07, 2023 Mar 07, 2023	Soi Soi Soi Soi Soi Soi Soi	I S23-Mai S23-Mai S23-Mai S23-Mai S23-Mai S23-Mai S23-Mai S23-Mai S23-Mai	0031633 0031634 0031635 0031636 0031637 0031638 0031639			x x x x x x x x x x x x x x x x												

	C :	Eurofins Environm	ent Testing Australia	Pty Ltd													Eurofins ARL Pty Ltd ABN: 91 05 0159 898	Eurofins Environm NZBN: 9429046024954	-
web: www.eurofins.com.au email: EnviroSales@eurofins		Melbourne 6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000	Geelong 19/8 Lewalan Street Grovedale VIC 3216 Tel: +61 3 8564 5000 4 NATA# 1261 Site# 2540	Sydney 179 Mago Girrawee NSW 214 Tel: +61 2 3 NATA# 12	n 5 2 9900	8400	Mitche ACT 2 Tel: +	1,2 Dacr ell 2911 -61 2 61	re Street 113 8091 Site# 2	et 1/ M Q 1 T	lurarrie LD 417 el: +61	allwood 72 7 3902 4	4600	Mayfi Tel: + NATA	rost Driv eld Wes 61 2 49 \# 1261	st NSW 2304 68 8448	Perth 46-48 Banksia Road	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: Address:	Geo-Logix Bld Q2 Lev Warriewood NSW 2102	el 3, 2309/4 Daydro	eam St			Re	erder N eport hone: ax:	#:	9 C	PO583 97150 02 997 02 997	9 79 172						Received: Due: Priority: Contact Name:	Mar 10, 2023 10:27 Mar 17, 2023 5 Day Ted Lilly	7 AM
Project Name: Project ID:	AUSTRAL 2301008	- PRIMARY															Eurofins Analytical	Services Manager :	Asim Khan
	s	ample Detail			Asbestos - WA guidelines	Asbestos Absence /Presence	HOLD	Organochlorine Pesticides	Metals M8	Suite B13: OCP/PCB	Aggressivity Soil Set	Moisture Set	Eurofins Suite B7	Eurofins Suite B9	BTEXN and Volatile TRH	BTEXN and Volatile TRH			
Melbourne Laborato	ory - NATA # 1	261 Site # 1254							Х				х	X					
Sydney Laboratory					X	X	х	x	X	x	x	X	X	X	x	x			
114 TP60/0-0.4	Mar 07, 2023	1 1	S23-Ma0	031643			х												
	Mar 07, 2023	Soil				1	Х		<u> </u>	1									
116 TP16/0-0.2	Mar 07, 2023	Soil	S23-Ma0			1	Х	1	1	1					1				
	Mar 07, 2023	Soil				1	Х	1	1										
118 TP18/0-0.3	Mar 07, 2023	Soil	S23-Ma0				Х	1											
	Mar 07, 2023	Soil	S23-Ma0				Х												
120 TP59/0-0.4	Mar 07, 2023	Soil	S23-Ma0	031649			Х												
121 TP26/0-0.3	Mar 07, 2023	Soil	S23-Ma0				Х												
122 TP26/0.2-0.5	Mar 07, 2023	Soil	S23-Ma0				Х												
123 TP2/0.7-0.9	Mar 07, 2023	Soil	S23-Ma0				Х												
124 TP8/0-0.15	Mar 07, 2023	Soil	S23-Ma0				Х												
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125 TP39/0.6-0.8	Mar 07, 2023	Soil	S23-Ma0	031654			Х									1			
125 TP39/0.6-0.8	Mar 07, 2023	Soil	S23-Ma0 S23-Ma0				X X	<u> </u>	+										
125 TP39/0.6-0.8	-	Soil		031655			-		<u> </u>										

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web: w	ww.eurofins.com.au		Melbourne 6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 5000 NATA# 1261 Site# 12	Geelong 19/8 Lewalan Str Grovedale VIC 3216 Tel: +61 3 8564 5 NATA# 1261 Str	Girrawee NSW 214 5000 Tel: +61 2	n 5 2 9900 8	8400	Mitche ACT 2 Tel: +	,2 Dacr ell 2911 61 2 61	e Stree 13 809 Site# 2	t 1/ M Q 1 Te	urarrie LD 417 el: +61	allwood 72 7 3902 4	4600	Mayfie Tel: + NATA	ost Driv eld Wes 61 2 49 # 1261	st NSW 2304 68 8448	Perth 46-48 Banksia Road Welshpool WA 6106 Tel: +61 8 6253 4444 NATA# 2377 Site# 2370	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
	mpany Name: dress:	Geo-Logix Bld Q2 Lev Warriewood NSW 2102	el 3, 2309/4 Dayc d	ream St			R P	rder N eport hone: ax:	#:	9	PO583 97150 92 997 92 997	9 79 172						Received: Due: Priority: Contact Name:	Mar 10, 2023 10:27 Mar 17, 2023 5 Day Ted Lilly	7 AM
	oject Name: oject ID:	AUSTRAL 2301008	- PRIMARY															Eurofins Analytical	Services Manager :	Asim Khan
		s	ample Detail			Asbestos - WA guidelines	Asbestos Absence /Presence	HOLD	Organochlorine Pesticides	Metals M8	Suite B13: OCP/PCB	Aggressivity Soil Set	Moisture Set	Eurofins Suite B7	Eurofins Suite B9	BTEXN and Volatile TRH	BTEXN and Volatile TRH			
Melb	ourne Laborate	ory - NATA # 1	261 Site # 1254							х				х	X					
Sydı	ney Laboratory	- NATA # 1261	Site # 18217			х	X	Х	х	х	х	х	Х	х	х	х	х			
129	TP5/0.3-0.5	Mar 08, 2023	So	il S23	3-Ma0031658			Х												
130	TP5/0-0.3	Mar 08, 2023	So		3-Ma0031659			х												
131	TP41/0.3-0.7	Mar 08, 2023	So		3-Ma0031660			х												
132	TP13/0.3-0.5	Mar 08, 2023	So		3-Ma0031661			Х												
133	TP15/0.5-0.7	Mar 08, 2023			3-Ma0031662			Х												
134	TP22/0.4-0.6	Mar 08, 2023	So		3-Ma0031663			Х												
135	TP31/0.3-0.4	Mar 08, 2023	So		3-Ma0031664			Х												
136	TP31/0.4-0.6	Mar 08, 2023	So		3-Ma0031665			Х												
137	TP59/0.3-0.5	Mar 08, 2023	So		3-Ma0031666			Х												
138	TP28/0.4-0.5	Mar 08, 2023	So		3-Ma0031667			Х			<u> </u>									
139	TP28/0.5-0.7	Mar 08, 2023	So		3-Ma0031668			Х			<u> </u>									
140	TP29/0.4-0.6	Mar 08, 2023	So		3-Ma0031669	<u> </u>		Х												
141	TP36/0-0.2	Mar 08, 2023	So		3-Ma0031670			X			<u> </u>									
142	TP8/A1	Mar 07, 2023	Bu Ma	ilding S23 terials	3-Ma0031671			х												

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web: w	ww.eurofins.com.au		Melbourne 6 Monterey Road Dandenong South VIC 3175 Tel: +61 3 8564 50	Geelon 19/8 Le Groved VIC 321 000 Tel: +61	walan Street 179 Mag ale Girrawee	en 45 2 9900	8400	Mitche ACT 2 Tel: +	,2 Dacr ell 2911 61 2 61	re Stree 13 809 [.] Site# 2	t 1/ M Qi 1 Te	urarrie LD 417 el: +61 7	Illwood I '2 7 3902 4	1600	Mayfi Tel: + NATA	ost Driv eld Wes 61 2 49 # 1261	st NSW 2304 68 8448	Perth 46-48 Banksia Road	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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Melb	ourne Laborat	ory - NATA # 1	261 Site # 125	4						х				х	X					
Sydr	ney Laboratory	- NATA # 1261	I Site # 18217			Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	х	Х			
143	TP2/A1	Mar 07, 2023	ł	Building Materials	S23-Ma0031672			х												
144	TP2/A2	Mar 07, 2023	ł	Building Materials	S23-Ma0031673			х												
145	BH1/0-0.2	Mar 07, 2023		Soil	S23-Ma0031674			х												
146	BH1/3.2-3.5	Mar 07, 2023		Soil	S23-Ma0031675			Х												
147	BH2/1.6-1.8	Mar 07, 2023		Soil	S23-Ma0031676			х												
148	BH2/2.3-2.5	Mar 07, 2023		Soil	S23-Ma0031677			х												
149	BH2/6-6.2	Mar 07, 2023		Soil	S23-Ma0031678			х												
150	BH3/2-2.2	Mar 07, 2023		Soil	S23-Ma0031679			х												
151	BH3/3-3.2	Mar 07, 2023		Soil	S23-Ma0031680			Х												
152	BH4/2-2.2	Mar 07, 2023		Soil	S23-Ma0031681			Х												
153	BH4/5.5-5.7	Mar 07, 2023		Soil	S23-Ma0031682			Х												
-	Counts					28	2	73	25	25	5	7	50	5	18	2	2			



Internal Quality Control Review and Glossary General

- 1. 2. 3.
- AC data may be available on request. All soil results are reported on a dry basis, unless otherwise stated. Samples were analysed on an 'as received' basis. Information identified on this report with the colour **blue** indicates data provided by customer that may have an impact on the results. This report replaces any interim results previously issued. 4. 5.

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 g, kg	Airborne fibre reported concentration as Fibres per millilitre of air drawn over the sampler membrane (C) Mass, e.g. of whole sample (M) or asbestos-containing find within the sample (m)
g/kg	Concentration in grams per kilogram
L, mL L/min	Volume, e.g. of air as measured in AFM (V = r x t) 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:	$C = \left(\frac{A}{a}\right) \times \left(\frac{N}{n}\right) \times \left(\frac{1}{c}\right) = K \times \left(\frac{N}{a}\right) \times \left(\frac{1}{b}\right)$
Asbestos Content (as asbestos):	$\% w/w = \frac{(m \times P_A)}{M}$
Weighted Average (of asbestos):	$\mathscr{H}_{WA} = \sum \frac{(m \times P_A)_x}{x}$
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	s) 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, although FA may be more difficult to visibly distinguish and may be assessed as AF.
Fibre Count	Total of all fibres (whether asbestos or not) meeting the counting criteria set out in the NOHSC:3003
Fibre ID	Fibre Identification. Unequivocal identification of asbestos fibres according to AS 4964-2004. Includes Chrysotile, Amosite (Grunerite) or Crocidolite asbestos.
Friable	Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory's remit to assess degree of friability.
HSG248	UK HSE HSG248, Asbestos: The Analysts Guide, 2nd Edition (2021).
HSG264	UK HSE HSG264, Asbestos: The Survey Guide (2012).
ISO (also ISO/IEC)	International Organization for Standardization / International Electrotechnical Commission.
K Factor	Microscope constant (K) as derived from the effective filter area of the given AFM membrane used for collecting the sample (A) and the projected eyepiece graticule area of the specific microscope used for the analysis (a).
LOR	Limit of Reporting.
MFM (also NOHSC:3003)	Membrane Filter Method. As described by the Australian Government National Occupational Health and Safety Commission, Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres, 2nd Edition [NOHSC:3003(2005)].
NEPM (also ASC NEPM)	National Environment Protection (Assessment of Site Contamination) Measure, (2013, as amended).
Organic	Organic Fibres Detected. Organic may refer to Natural or Man-Made Polymeric Fibres. Identified in accordance with AS 4964-2004.
PCM	Phase Contrast Microscopy. As used for Fibre Counting according to the MFM.
PLM	Polarised Light Microscopy. As used for Fibre Identification and Trace Analysis according to AS 4964-2004.
Sampling	Unless otherwise stated Eurofins are not responsible for sampling equipment or the sampling process.
SMF	Synthetic Mineral Fibre Detected. SMF may also refer to Man Made Vitreous Fibres. Identified in accordance with AS 4964-2004.
SRA Traco Analysis	Sample Receipt Advice. Analytical procedure used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix.
Trace Analysis UK HSE HSG	Analytical procedure used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix. 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.
WA DOH	May include (but not limited to) Actinolite, Anthophyllite or Tremolite asbestos. Reference document for the NEPM. Government of Western Australia, <i>Guidelines for the Assessment, Remediation and Management of Asbestos</i> -
	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:

Laxman Dias

Senior Analyst-Asbestos

Authorised by:

Sayeed Abu

Senior Analyst-Asbestos

li falle

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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Building Q2, 1309/4 Dayo	gix Pty Ltd Level 3 Gream St , NSW 2102 2 936 1722 222	Project Mana Contact ema Project Name Project Numi	ager: iii: Ł. e: – ber:	Te lili Aus 23	d ly c lea 019	Ki 2) g 1-	CHAIN OF CUSTON	ра ра 3/	12-	3 1	۲ ED	9) JU	1 1 1	Page Purcl 24ote Send	hase K. (e Ref Invo	of Orde Orde eren ice te	n () n No: n+a ce: o:	8 22 <u>acco</u> 84	P0					<u>1U</u>			萃(971509
Lab ID	Sample ID	Date	soll	ter	atrix	paint, tilters other	Comments	COMPOSITE	TRH - C6 - C10	TRH - C10 - C40	VOCs	BTEXN	PAHs	PCBs	OCH3 OPPa	Phanols	Metals - M8	Metals - Lead	Metals - Specify ** TC: P	Asbestos (iD only)	Asbestos (WA DOH)	Foreign Materlais	Conductivity (EC)	Hd	12	Hold	SUITE	Eurofins MGT Suite Codes
	TRO00-02	8/3/23	V			-								>	<		X											B1 TRH/BTEXN B1A TRH/MAH
	100/0.2-0.4		++-	-+	+	+		L	-					+		+	-		_	-					-	X		B2 TRH/BTEXN/Pb B2A TRH/MAH/Pb
	1180 0.5-07		++ •	-	+	+		⊢			_				_	+	×		_	+			_			X	-	B3 PAH/Phenois
	TP37/0.0-0.2 TP37/0.2-0.4		+	-	-	+-		⊢	-	-		+		>	5	+	~		-	+	-	-	-		-		r _	B4 TRH/BTEXN/PAH B4A TRH/BTEXN/PAH/Phonois
	TP37 10.9-1.1	1	11-1	+	+	+		⊢	-	-	_		-	+		+	-		-	+	-		-			X		85 TRH/BTEXN/M7
					-	+		⊢	+-		_			0	+	+	X		+	+	-		-		-	X	-	B0 TRH/BTEXN/M8 B7 TRH/BTEXN/PAH/M8
	TP27/0.0-0-2 TP27/0-3-05		+		-	+		⊢	\vdash	-			-	8	5	-	^	-	-	+	-		-	-	-	-	-	B7A TRH/BTEXN/PAH/Phenols/M8
	TP27/0-1-2				+	+			+					+	+	+		-	-	+			_			×	-	88 TRH/VOC/PAH/M8 89 TRH/BTEXN/PAH/OCP/M8
	102010.0-0.2				+	+		⊢	-		_		+	>	1	1	X	-	+	+			-	-	-	X	-	B10 TRH/BTEXN/PAH/OCP/OPP/M8 B11 Ns/K/Cs/Mg/Cl/SO_/CO_/HCO_/NH_/NO3
	TP30/0.3-0.5		+	-	-	+							-	1		+	\sim	-		+			-	-	+	X	-	B11A B11/Aikelinity
	TP30/0.7-0.9					+			-				-	-	+	t		4	-	+	-		-	-	+	X		B118 B11/EC/TDS B12 TRH/BTEXN/Oxygenates/Ethanoi
	TP35/0.0-0.2		11										1	-	-	T	•	~		1					X	~	B	
	TP35/03-0.5													-		1		+	1			-	-		V	1	V	B13 OCP/PCB B14 OCP/OPP
	TP 35/0.6-0.8		11																-	1				-	2	-		B15 OCP/OPP/PCB
	TP56/0.0-8.2		11				Asbestos bay.							1							×			1	7	1	<u> </u>	B16 TDS/SO,/CH,/All/BOD/COD/HPC/CUB B17 SO,/NO,/Fe++/HPC/CUB
	TP2110.0-0.2		11				0							×	:		X				-							B18 CL/SO_/pH
	TP2(10.2-0.4		V																							X		B 19 N/P/K B20 CEC/%ESP/Ca/Ma/Na/K

letals**(circle) As, Cd, Cr, Cu, Ni, Pb, Zn, Hg, Cr ⁶⁺, Cr ³⁺, Fe ²⁺, Fe ³⁺, Be, B, Al, V, Mn, Fe, Co, Se, Sr, Sn, Mo, Ag, Ba, Tl, Bi, Sb

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TP23/0.25-045 X B4 TRUBTEOWPAH TP23/0.9-(-1) X X B4 TRUBTEOWPAH TP48/00-0.2 Asbestos bag X B4 TRUBTEOWPAH TP14/00-0.2 Asbestos bag X B4 TRUBTEOWPAH TP20/00-0-0.2 Asbestos bag Sold X B4 TRUBTEOWPAH TP20/00-0-0.2 Asbestos bag Sold X B4 B1 Nartocalideciso Joco/record TP20/00-0-0.2 Asbestos bag Jad X B1 <		1923/000	2 1	1																_								39	B1A TRHMAH B2 TRH/BTEXN/Pb B2A TRH/MAH/Pb
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Image: State of the structure Image: S			2		-			Asbestos bag.											_		×				X)	\$		Be TRH/BTEXN/PAH/OCP/M8
TP/2/0:4-0.6 B12A TRH/BTEXN/Oxygenates TP5/10:15-03 X DP9 B15 OCP/OPP B15 OCP/OPP B15 OCP/OPP		TP20/0.2-0.4							L							X		X									x		
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TPH/0.0-0.15 TPH/0.0-0.15 TPH/0.15-0.35 V V BIB CLASO/PH BIB CLASO/PH								Asbestos bag + ga Asbestos bag + coil	Ē						-	4												89	818 CI-/SO,/pH 819 N/P/K

fetals**(circle) As, Cd, Cr, Cu, Ni, Pb, Zn, Hg, Cr *, Cr *, Fe *, Fe *, Be, B, Al, V, Mn, Fe, Co, Se, Sr, Sn, Mo, Ag, Ba, Ti, Bi, Sb

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Lab ID	Sample 1D	Date	soil	water	air	paint, tilters	Comments	COMPOSITE	TRH - C6 - C10	TRH - C10 - C40	vocs	BTEXN	PAHs	PCBB	OCPs	OPPs	Phenols	Metals - M8 Metals - Load	چ	TCLP	Asbestos (ID only)	Asbestos (WA DOH)	Foreign Materials	Conductivity (EC)	Ha			Pold	SUITE	Eurofins MGT Suite Codes
	TPH 10.6-0.8	8/3/23	V	1																								X		B1 TRH/BTEXN B1A TRH/MAH
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	TP60.2-0.4			_			Jak			1					4	_	_	_		_	_			_			2	1	69	B3 PAH/Phenois
	TP46/00-02				_		Asbustos bag.				1				_	_	_	-	-		-	X	_					_		B4 TRH/BTEXN/PAH B4A TRH/BTEXN/PAH/Phenols
	TP# 3/00-0-2	+ /					Asbelfos bag		-	_					_	_	-		-		-	X		_				1		B5 TRH/BTEXN/M7
	TP47/00-D.	2			_	_	Asbestos bag		-	-	-	-			_	_	_	_	-	-	-	×	-	_	-	-		_		86 TRH/BTEXN/M8 B7 TRH/BTEXN/PAH/M8
	TP49/0000	2					Arbestos bag	L								_			-	_		X	-					_		B7A TRH/BTEXN/PAH/Phenols/M8
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	TP50/0-0-2						Aspectos bag.											_				Х								B11 Ne/K/Ce/Mg/Cl/SO_/CO ₃ /HCO ₃ /NH ₃ /NO ₃ B11A B11/Alkalinity
	-TP11/2.0-02	-	11			_	Aspestos bag+ sal				_			2	X	-	×		-									_		B118 B11/EC/TDS
	TP11/03-05	V	V		-	-	Jal.								_			_	_		_						\rangle	<		B12 TRH/BTEXN/Oxygenates/Ethanol
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																														B17 SO ₄ /NO ₃ /Fe++/HPC/CUB
																														B18 CH/SO /pH
																														B19 N/P/K B20 CEC/%ESP/Ca/Ma/Na/K

Metals**(circle) As, Cd, Cr, Cu, Ni, Pb, Zn, Hg, Cr **, Cr **, Fe **, Fe **, Be, B, Al, V, Mn, Fe, Co, Se, Sr, Sn, Mo, Ag, Ba, Tl, Bi, Sb

Chain of Custody Signature: Received by: Me bate/Time: 913 Date/Time: Relinquished by: Signature:

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Metals**(circle) As, Cd, Cr, Cu, Ni, Pb, Zn, Hg, Cr 6*, Cr 3*, Fe 2*, Fe 3*, Be, B, Al, V, Mn, Fe, Co, Se, Sr, Sn, Mo, Ag, Ba, Ti, Bi, Sb

Chain of Custody Eignature: MR / Date/Time: ______ Received by: MR / Date/Time: ______ Received by: MR / Date/Time: ______ Signature: Date/Time: telinquished by:

Building Q2 2309/4 Day	dream St NSW 2102	Project Mana Contact emai	.11	llu	10	,4	atassen@geo-u	09	. بر	.01	M.(X		Page Purch Quote				D	Po	50	3:	30	67	F	2				
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Lab ID	Sample ID	Date	soll	vator	air · · · · ·	paint, filters other	Comments	COMPOSITE	TRH - C6 - C10	TRH - C10 - C40	vocs	BTEXN	PAHs	PCBs	OPPs	Phenois	Metals - M8	Metals - Lead	Metals - Specify **	ICLP Asbestos (ID only)	Asbestos (WA DOH)	Foreign Materiats	Conductivity (EC)	Hd	2		Hold	Suite	Eurofins MGT Suite Codes
	JP52100-02		X					T													1.3		Ť				X		B1 TRH/BTEXN B1A TRH/MAH
	7252/0.5-01	D	1																		1)	X		82 TRH/STEXN/Pb
	TPS2/0.0-04						Aspestos bag														X								B2A TRH/MAH/P6 83 PAH/Phenois
	TP1/0-1-0-3			_																							1	39	84 TRH/BTEXN/PAH
	TP1/0.3-0.	5					thestosbagtJar														X					-	1	39	84A· TRH/BTEXN/PAH/Phonois 85 TRH/BTEXN/M7
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	TP (7/0.0-01	4					Asbestos bag					_														>	1		B11 NaK/Ca/Mg/Cl/SO_/CO_/HCD_/NH_/NC
	TP1710.4-0.	6					· · · ·																		X		E	Â	B11A B11/Alkalinity B11B B11/EC/TOS
	TP6010:001	ł					Aslestos bag																				K		B12 TRH/BTEXN/Oxygenates/Ethanol
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	JP16/0.0-04	ł					Asbeston bag																			>	9		B14 OCP/OPP
	79600-02						. 0							X	-		X												B15 OCP/OPP/PCB B16 TDS/SO_/CH_/AII/B0D/COD/HPC/CUE
	TP16 0.4-0	6																								X	5		B17 SO,NOyFe++/HPC/CUB
	JP5 100-03						Asbestos bag														X					I			B18 CH/SQ./pH
	TP18/0.0-07	7	V				0							X	0		×												819 N/P/K 820 CEC/%ESP/Ca/Ma/Na/K

Metals**(circle) As, Cd, Cr, Cu, Ni, Pb, Zn, Hg, Cr 8+, Cr 3+, Fe 2+, Fe 3+, Be, B, Al, V, Mn, Fe, Co, Se, Sr, Sn, Mo, Ag, Ba, Tl, Bi, Sb

	Chain of Custody	
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Building Q2 2309/4 Day	ogix Pty Ltd 2, Level 3 Idream St 1, NSW 2102 82 936	Project Mai Contact em Project Nar	nager: H nail: ne:	I	20	11-10-11-11-11-11-11-11-11-11-11-11-11-1	54	CHAIN OF CUSTOR	or fc	,-\¢	Ŋ	jik	ردر		Page Purch L O Quote Send	Contase Contase Contase Ref	2 of Orde ieren	- () or No: ce: o:		Re	25 s@g	8	3	6	T r	2 					
P: (02) 9979	1722	Project Nur	nber:	2	34	35	20	Date Submitted: 9	2	> 2	2	5		1	TAT r	equi	red:		_	Ż	to	F									
F: (02) 9979	1222	N X IN					R	ANALYSIS	S RI	EQU	IR	ED	1	1		-				1.1	130	1 E		190	1						
Lab ID	Sampte ID	Date	soil	er -	Matri ja	ht, filters	other	Comments	COMPOSITE		TRH - C10 - C40	Τ	BTEXN	PAHs	PCBs	OCPs	OFF8 Phanote	Metals - M8	Metals - Lead	Metals - Specify **	TCLP	Asbestos (ID only)	Asbestos (WA DOH)	Foreign Materials	Conductivity (EC)	Hd	5		Нога	SUITE	Eurofins MGT Suite Codes
	TR8 00-07			-	10	- Hele		Adestos bag	Ť			-			_				-					_	-	_			4		B1 TRH/BTEXN B1A TRH/MAH
	TPR/02-05																											>	5		B2 TRHIBTEXNPb
	1999/0.0-01							Aspestos bag)	ĸ		B2A TRH/MAH/Pb B3 PAH/Phenois
	TP2610-0-0-	3						Aspests bag																				>	<		84 TRH/8TEXN/PAH
	TP26/0.0-0.	2													X	2		X													84A TRH/BTEXN/PAH/Phenols 85 TRH/BTEXN/M7
	TP26/03-05																								_			X	_		B6 TRH/BTEXN/M8 B7 TRH/BTEXN/PAH/M8
	TP2/0-0-02 TP2/0-J-0.9								L							_														69	B7 TRH/BTEXN/PAH/Phenols/M8
	TP2/07-0.9	1					_											1					_		_			>	×		BB TRH/VOC/PAH/M8
	AP2/0.0-0.7							Asbestos Bag- Acbestos Bug-	L					_	_						_		×					•			B9 TRH/BTEXN/PAH/OCP/M8 B10 TRH/BTEXN/PAH/OCP/OPP/M8
	TP28/0.0-0.	0					_	Acbestes Rug					_	_	_		_				_	ľ	X	_	_						B11 Na/K/Ca/Mg/Cl/SO_/CO_/HCO_/NH_/NO_
	TP8/0-0-015	5	11											-	_	-	_	-				-	-	-	_			X	<		B11A B11/Alkalinity B11B B11/EC/TDS
	778/0-15-1-0							Asbestos Bug						_	_	_	-	_			-		X	_	_			_			B12 TRH/BTEXN/Oxygenates/Ethanol
	1886.15-0-3																-				_		_	_	_		_	_	1	B91	B12A TRH/BTEXN/Oxygenates B13 OCP/PCB
	TP39/0.0-0.1							Askesitos bag														1	X								814 OCP/OPP
	TP39/06-08	2-																			_							X			B15 CCP/OPP/PCB B16 TDS/SOJ/CHJAIWBOD/COD/HPC/CUB
	10000																														B17 SO4/NO4/Fe++/HPC/CUB
	P20.0-0.	2																								1	X		P	39	B18 CI-/S0_/pH B19 N/P/K
	TP30.4-0.6	\downarrow	$ \downarrow$																								X				B20 CEC/%ESP/Ca/Ma/Na/K

Metals**(circle) As, Cd, Cr, Cu, Ni, Pb, Zn, Hg, Cr **, Cr **, Fe **, Fe **, Be, B, Al, V, Mn, Fe, Co, Se, Sr, Sn, Mo, Ag, Ba, Tl, Bl, Sb

Signature: **Chain of Custody** 91325 Signature Mode Received by: - Mil RP Date/Time Date/Time: 18/3

Building Q2, 2309/4 Dayo	gix Pty Ltd , Level 3 dream St	Project Mana	ger: <u>T</u> E H 71/11	<u>2d (</u> ଇ	\Box	CHAIN OF CUSTOR		aix	: (იი	0-0	P P	age urcha		of rder l	<u>[(</u> No:) F	20	5	81	3	6	TP			
	, NSW 2102	Contact email	Å	1	60	1 Jel		J'			•	Q	uote	Refer	ence	3				1.2		_				
ABN: 86 116 89	2 936	Project Name		~ 2	~	9	12	b	-	2		5	end li	nvoic	a to:		accou		-	-logi	<u>x.co</u>	<u>m.a</u>	<u>u</u>			
P: (02) 9979 1 F: (02) 9979 1	1722 1222	Project Numb	er: <u>/</u>		a							Т.	AT re	quire	d:	,	<	A	0							
	and the second second					ANALYSIS	S RE	QU	IRE	ED																
Lab ID	Sampie ID	Date		atrix maint filtors	other	Comments	COMPOSITE	TRH - C6 - C10	TRH - C10 - C40	VOCs	BTEXN	PAHs DCP-	OCPs	OPPs	Phenois	Metals - M8	Metals - Lead Metals - Specify **	TCLP	Asbestos (ID only)	Asbestos (WA DOH)	Foreign Materials	Conductivity (EC)	Hd	Mold	SUITE	Eurofins MGT Suite Codes
	TP3/00-0.4	+ 713123				Ashestos bag	Ľ		·		-				-						- Cha			>	(81 TRH/BTEXN 81A TRH/MAH
	TP710.0-0-2	1	1			,																		1	R	B2 TRIVISTEXN/Pb
	TP710.4-0.6																							X	(B2A TRH/MAH/Pb B3 PAH/Phanols
	TP710-0-0-4					Asbestos bag														Х						B4 TRH/BTEXN/PAH
	TP42/0.0-0-					Aspestospace														X						B4A TRH/BTEXN/PAH/Phenola B5 TRH/BTEXN/M7
	TS0.0-02	81323				0							X	-1		X				2						B5 TRH/BTEXN/M7 B6 TRH/BTEXN/M8
	TP5 0-3-0.5													Ì	- 1	-								>	1	67 TRH/BTEXN/PAH/M8
	TP50.0-0.3					Aspestos bag	-					1	1					1						Ś		B7A TRH/BTEXN/PAH/Phenois/M8 B8 TRH/VOC/PAH/M8
	TP4110.0-0.3			-		Abbestos lag							X	1	,	X								-		89 TRH/BTEXN/PAH/OCP/M8
1	TP-A103-0-											-	1	r ·	- 1			1			1			×		B10 TRH/BTEXN/PAH/OCP/OPP/M8 B11 Ne/K/Ce/Mg/Cl/SO_/CO_/MCO_/NH_/NO_
	TPB 0.0-03					Aspestos hact						+	1		-	+		1		×				-	-	B11A B11/Alkelinity
	TP13 00-02					1.30-07 0- 1.000					-	-	+			+	-	1	1		-	-	-++	-	B	B11B B11/EC/TDS B12 TRH/BTEXN/Oxygenates/Ethanol
	TP1310-30							-			-	+	1			-	-	1		-	-	-		X	-	B12A TRH/BTEXN/Oxygenates
	1994/00-0	.4		-		Addestes bag		-	-		+	+	+		+	+	-	+		V	+	+	++	-	-	813 OCP/PCB 814 OCP/OPP
	TP1510.0-0.9					tspestes bag			1	-	-		+			+		-	-	C	+	+			-	B15 OCP/OPP/PCB
	195/00-02			+	t P	Distrostrog		+					+		-					~	+	-	-++		ß	B16 TDS/SO,/CH,/AIN/B0D/COD/HPC/CUB
	TP150 507			-	+ +			-	-			+	-	\vdash	-	-					-	+	_	V	0	B17 80,1NO,Fe++/HPC/CUB B18 CH/SO,/pH
	TP22 0.0-0.	2 1	\checkmark										X	↓↓ ∖.		X								X		B19 N/P/K B20 CEC/%ESP/Ca/Ma/Na/K

Metals**(circle) As, Cd, Cr, Cu, NI, Pb, Zn, Hg, Cr **, Cr **, Fe **, Fe **, Be, B, Al, V, Mn, Fe, Co, Se, Sr, Sn, Mo, Ag, Ba, TI, Bi, Sb

Chain of Custody 91323 Date/Time: Signature: Mathematical Received by: MR Date/Time: Relinquished by: HM Signature:

Geo-L Building Q 2309/4 Day		d Pi	roject Mana	ager:	1	èc	k Q	Lil		DY		_	c '\	. (Page Purc	has		of der N		ŗ	PC	55	58	23	31	5	Tf					
	d, NSW 2102	C	ontact ema		M	5	Ø	14	polasseng@g	eo			Y')	C-(Quo	te Re	A efere	nce:					_					_				
ABN: 86 116 8	92 936	P	roject Nam	e: 🦷	Au	135	7	al			ſ					Send	l Inv	oice	to:		ассо	unt	@g	eo-	logi	x.cc	om.a	ш					
P: (02) 9979 F: (02) 9979		Pr	roject Num	ber:	Ľ	<u> 20</u>	<u>N</u>	∞	Date Submitted:	3	ſ	-				TAT				-	(51	~2	X					-		_		
12		1.1	1-6-1-		1			2.2	ANALYSIS	s re	EQL	ЛR	RED		19	10		1.10	13.24	n e		31.	23					27	15 0			1	
					M	latrix	x															:		2	(HO	ø	6						
Lab ID	Sample	ID	Date	soil	water	air	paint, filters	other	Comments	COMPOSITE	TRH - C6 - C10	TRH - C10 - C40	VOCs	BTEXN	PAHs	PCBs	OCPs	OPP ₈	Phenols	Metais - MB	Metals - Lead	Metals - Specify	TCLP	Asbestos (ID only)	Asbestos (WA DOH)	Foreign Materials	Conductivity (EC)	Hd		Hold		SUITE	Eurofins MGT Suite Codes
	TP22 0.1	1-0-1	83123	X																										X	1		B1 TRH/BTEXN B1A TRH/MAH
	TP31/0-0	-0-2	1																												F	39	82 TRH/STEXN/Pb
	TP31/0-3	-0.4																												7			82A TRH/MAH/Pb 83 PAH/Phenois
	TP31/0.4	-0.6																												X	5		B4 TRH/BTEXN/PAH
	TP5910-																X			X													B4A TRH/BTEXN/PAH/Phenols B5 TRH/BTEXN/M/7
	TASIO	5-05								Г				1. 0																X			B6 TRH/BTEXN/M8
	10707	09								1																				1			B7 TRH/BTEXN/PAH/M6 B7A TRH/BTEXN/PAH/Phenols/M8
	TP7810.0	2	1							1																					P	9	BS TRH/VOC/PAHMS
	TP28 0.1																													X			B9 TRH/BTEXN/PAH/OCP/M8
	TP28 0.9									1		1							1											×			B10 TRH/BTEXN/PAH/0CP/0PP/M8 B11 Ns/K/Ca/Mg/CI/SO ₄ /CO ₃ /HCO ₃ /NH ₃ /NO ₃
	TP29/0.0	10								1						1	X			X			1							1			B11A B11/Alkelinity
	72904-		V							1						1			T	1		T	t							X	1		B11B B11/EC/TDS B12 TRH/BTEXN/Oxygenstes/Ethanol
	TP3610	-	\rangle		1					Г			1				1			1		t								X			B12A TRH/BTEXN/Oxygenates
	TP3610.3									T	1		1									+	1	1						1	B	9	B13 OCP/PCB B14 OCP/OPP
	11 -010					-				t			+				+	+		1	+	t	+	+						+	4		815 OCP/OPP/PCB
						+						-					+		+		-	+	-	+							1		818 TDS/SDJ/CHJ/Alk/80D/C0D/HPC/CUB 817 50J/NO3/Fe++/HPC/CUB
						-		-					+					-				+	+	+	-					-	+		B18 GH/SO/pH
					-	+	+			\vdash			+				-	-	-	-	+	+	+	-	+				-	+	+	- 11	B19 N/P/K
Metals**(cire	cle) As, Cd, Cr, Cu,	Ni, Pb, Z	n, Hg, Cr ⁶⁺ , (Cr ³⁺ , F	e ²⁺ , F	Fe ³⁺ ,	Be, f	3, Ał, V,	, Mn, Fe, Co, Se, Sr, Sn, Mo, Ag, Ba	a, TI, B	i, Sb		_										_										B20 CEC/%ESP/Ca/Ma/Na/K

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Geo-Logix Pty Ltd Building Q2, Level 3 2309/4 Daydream St Warriewood, NSW 2102 ABN: 86 116 892 936		Hilly	e Li Qit Shic	polassenj@ga	20-1				OA	1.0 Qi Se		iferer olce 1	ice: to:	acco	ount	s@ge	e-lo							
P: (02) 9979 1722 F: (02) 9979 1222	Project Numbe	er: (70	ne	Date Submitted: 9	3					ТА	T řequ	ired:			>t	-0	1			_				
		Matri	ix	ANALTS		- 670				T	TT			Ĺ.		T	5	2		r 1				
Lab ID Sample ID	Date	soll water air	paint, filters other	Comments	COMPOSITE	TRH - CS - C10	TRH - C10 - C40	VOCs	BTEXN	PCBs	0CPs	OPPs	Prienois Metals - M8		Metals - Specify **	TCLP Achietae (ID anhi)	Astrostos (NO DOLY	Foreign Materials	Conductivity (EC)	Hđ		Hold	surre	Eurofins MGT Suite Codes
DSI	7323	X		• • /	L			+	-	+		+	+		-	+	-	-			_	+	89	81A TRHMAH 82 TRH/BTEXN/Pb
P52			Tí								X		x			+	1							B2A TRH/MAH/Pb B3 PAH/Phenols
DS3	8323			A + EI _	<u>ک</u>						×	_	X											B4 TRH/BTEXN/PAH B4A TRH/BTEXN/PAH/Phenois 85 TRH/BTEXN/PAH/Phenois 85 TRH/BTEXN/M7 86 TRH/BTEXN/M8
TP8/AI	7/3/23		x	Potential ACM	L						L T								1			χ	,	B7 TRH/BTEXN/PAH/M8 B7A TRH/BTEXN/PAH/Phenots/M8
TRIAL JPZIAZ	713123		f		┢			-	+	-		+	-		-	-	+	+	+		-	XX		B8 TRH/VOC/PAH/M8 B9 TRH/BTEXN/PAH/OCP/M8
JPIG/AI	8 2 23				t			1	1	t		+	+		-	X	<	1	1		-	1		810 TRH/8TEXN/PAH/OCP/OPP/M8 811 Na/K/Ca/Mg/CUSO_/CO_/HCO_/NH_/NO_3
TP13/AI	8323		Y													X	4							B11A B11/Alkalinity B11B B11/EC/TDS
TRIPBI								6	_	+		-	-		-	-	+	+	-		-	-	BI	B12 TRH/BTEXN/Oxygenates/Ethanol B12A TRH/BTEXN/Oxygenates
TRIPS I TRIPB2								+	+	+		+			+	+	+	+	+		-	X	BI	813 OCP/PCB 814 OCP/OPP
TRIP\$2	-																					X		B15 OCP/OPP/PCB B16 TDS/SOJ/CHJ/All/B0D/C0D/HPC/CUB
RI							_	_		-	X	-	X	_			_							817 SO,/NO,/Fe++/NFC/CUB
					+			+	+			+		+	+	-	+	+	+	-		+		В18 Ci->SQ./pH В19 N/P/K
Metals**(circle) As, Cd, Cr, Cu, Ni, F	'b, Zn, Hg, Cr ⁶⁺ , Cr	^{3*} . Fe ^{2*} . Fe ^{3*} .	Be, B, Al, 1	V. Mn. Fe. Co. Se. Sr. Sn. Mo. Aq. B	a, T/, Bi	i. Sb	_					-			-	-	-	1						B20 CEC/%ESP/CaMa/Na/K
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Review: January 20;

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2309/4 Daydream St Warriewood, NSW 2102	Contact emai	1: F	1,10	ula	Jaci	Loax com.au						G	uote	Refe	renc	:e:											
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Lab ID Sample ID	Date	soil	Mater air	nt, filters	other	Comments	COMPOSITE	TRH - C6 - C10	TRH - C10 - C40	VOCs	BTEXN	PAHs	OCPs	OPPs	Phenots	Metais - MB	Metals - Lead	Metals - Specify **	TCLP Actorian (ID antid		Asbestos (WA DOH) Eoreido Matoriale	Conductivity (EC)	Hd		SULFE L2. Hold	SUITE	Eurofins MGT Suite Codes
BHI (0.0-0.2 BHI (0.0-0.2 BHI 13.2-35 BH2 10.0-0.2 BH2	2																									-	B1 TRH/BTEXN B1A TRH/I/MAH B2 TRH/BTEXN/Pb B2A TRH/MAH/Pb B3 PAH/Phanols B4 TRH/BTEXN/PAH B4A TRH/BTEXN/PAH B4A TRH/BTEXN/PAH B4A TRH/BTEXN/PAH B4A TRH/BTEXN/PAH B4A TRH/BTEXN/PAH B4 TRH/BTEXN/PAH/M8 B7 TRH/BTEXN/PAH/M8 B7 TRH/BTEXN/PAH/M8 B7 TRH/BTEXN/PAH/M8 B10 TRH/BTEXN/PAH/OCP/MB B11 Na/K/Ca/Mg/CUSO_/CO_/HCO_/NH_/NO_3 B11A B11/Alkalinity B11B B11/EC/TDS B12 TRH/BTEXN/Oxygensles/Ethanol B12A TRH/BTEXN/Oxygensles/Ethanol B12A TRH/BTEXN/OXygensles/Ethanol B12A CP/PCB B14 CCP/OPP B15 CCP/OPP B16 TOS/SO_/CH_/Alk/BOD/COD/HPC/CUB B17 SO_/NO_/Fe++/HPC/CUB B18 CH/SO_/PH

Metals**(circle) As, Cd, Cr, Cu, Ni, Pb, Zn, Hg, Cr **, Cr **, Fe **, Fe **, Be, B, Al, V, Mn, Fe, Co, Se, Sr, Sn, Mo, Ag, Ba, Tl, Bi, Sb

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ANALYSIS REQUIRED Lab ID Sample ID Date Image: Stress of the s	Building Q2, 2309/4 Dayd Warriewood, ABN: 85 115 892 P: (02) 9979 1	ream St NSW 2102 1936 722	Project Mana Contact ema Project Name Project Num	CHAIN OF CUSTODY Hager: Ted Lilly + polassery egeo-gix.com.au ail: +1:11yegeo-logix.com.au he: Austral - triplicates her: 2-301008 Date Submitted: 9/3/23										Quot Senc	te Re	feren oice t		асс	oun	ts@j	eo-l	ORIX.	com.	au	-						
Lab ID Sample ID Date Image: second seco	F: (02) 9979 12	222		1			2.2		1-22.26					ED	14	-	85	0.52	1100	177	1.00			1			10.00	Contraction of the		1.7	
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ITS2 7/3/23 X Max X <	Lab ID				water	air	paint, filters	other	Con	nments	COMPOSITE	TRH - C6 - C10	TRH - C10 - C40	VOCs	BTEXN	PAHS	PCBs	OCPs	OPPs Dhanole	Metals - M8	Metais - Lead		TCLP	Asbestos (ID only)	Asbestos (WA DO)	Conductivity (EC)	Hd		Hold		
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B17 SO_NOv/Fe++/HPC/CUB B18 CH/SO_4/PH B19 N/P/K																							-								
B19 N/P/K																															

Metals**(circle) As, Cd, Cr, Cu, Ni, Pb, Zn, Hg, Cr *, Cr *, Fe *, Fe *, Be, B, Al, V, Mn, Fe, Co, Se, Sr, Sn, Mo, Ag, Ba, TI, Bi, Sb

Chain of Custody 1.8C Chull Center ____ Date/Time: 23 Signature: 4 Date/Time: 9/3/23 Signature: Received by: RyanPhillips Relinquished by Version: V1 Issued: June 2015 Baldana Innone Silve

Asim Khan

From:	Jenna Maltman <jmaltman@geo-logix.com.au></jmaltman@geo-logix.com.au>
Sent:	Monday, 13 March 2023 10:46 AM
То:	Asim Khan
Cc:	Adam Bateup; #AU25_Enviro_Sample_NSW; Ted Lilly; Thara Polassery
Subject:	FW: 2301008 Samples
Attachments:	2301008_Austral_Primary_Geo-Logix.pdf; 2301008_Austral_Triplicate_Geo-Logix.pdf

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Hi,

Can I please amend the requested analysis from Suite B9 to Suite B7+B13 for the following samples:

- TP57/0.3-0.5
- TP15/0.0-0.2
- TP13/0.0-0.2
- TP8/0.15-0.35
- TP2/0.0-0.2

Please let me know any issue with this request. Thanks.

Jenna Maltman | Project Scientist

Unit 2309/4 Daydream St, Warriewood NSW 2102 T: 02 9979 1722 | www.geo-logix.com.au



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From: Tiffany Mabbott <tmabbott@geo-logix.com.au>
Sent: Friday, 10 March 2023 10:37 AM
To: AsimKhan@eurofins.com
Cc: AdamBateup@eurofins.com; EnviroSampleNSW@eurofins.com; Ted Lilly <tlilly@geo-logix.com.au>; Thara
Polassery <tpolassery@geo-logix.com.au>; Jenna Maltman <jmaltman@geo-logix.com.au>
Subject: 2301008 Samples

Hi Asim,

We had 6 eskies collected yesterday. We have since updated the cocs. Please disregard those in the esky for the analysis and use the attached instead.



Geo-Logix P/L Bld Q2 Level 3, 2309/4 Daydream St Warriewood NSW 2102

Attention:	Jenna Maltman
Report	976617-AID
Project Name	AUSTRAL-ADDITIONAL
Project ID	2301008
Received Date	Mar 29, 2023
Date Reported	Apr 05, 2023

Methodology:

wiethodology:	
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% if 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	AUSTRAL-ADDITIONAL
Project ID	2301008
Date Sampled	Mar 07, 2023
Report	976617-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
BH02/0.15-0.35	23-Ma0071198	Mar 07, 2023	Sample consisted of: Brown fine-grained clavey 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

Asbestos - LTM-ASB-8020

Testing SiteExtractedSydneyMar 30, 2023

Holding Time 23 Indefinite

		6 :	Eurofins Env ABN: 50 005 08		Australia Pty Ltd					Eurofins ARL Pty Ltd ABN: 91 05 0159 898	Eurofins Environm NZBN: 9429046024954	
web: www.eurofins.com.au email: EnviroSales@eurofins.com			Melbourne 6 Monterey Roa Dandenong Sou VIC 3175 Tel: +61 3 8564 NATA# 1261 Sit	th Grovedale VIC 3216 5000 Tel: +61 3	Girrawee NSW 214 8564 5000 Tel: +61 2	า 5 ! 9900 84	Mitchell ACT 2911 00 Tel: +61 2 6113 8091	Murarrie QLD 4172	Newcastle 1/2 Frost Drive Mayfield West NSW 2304 Tel: +61 2 4968 8448 NATA# 1261 4 Site# 25079 & 25289	Perth 46-48 Banksia Road Welshpool WA 6106 Tel: +61 8 6253 4444 NATA# 2377 Site# 2370	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: Geo-Logix P/L Address: Bld Q2 Level 3, 2309/4 Daydream St Warriewood NSW 2102							Phone: 0	76617 2 9979 1722 2 9979 1222		Received: Due: Priority: Contact Name:	Mar 29, 2023 3:21 Apr 5, 2023 5 Day Jenna Maltman	PM
	oject Name: oject ID:	AUSTRAL-A 2301008	DDITIONAL							Eurofins Analytical S	Services Manager :	Asim Khan
Sample Detail						Asbestos - WA guidelines						
Sydney Laboratory - NATA # 1261 Site # 18217 External Laboratory												
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID							
1	BH02/0.15- 0.35	Mar 07, 2023		Soil	S23-Ma0071198	х						
Test	Counts					1						



Internal Quality Control Review and Glossary General

- 1. 2. 3.
- CC data may be available on request. All soil results are reported on a dry basis, unless otherwise stated. Samples were analysed on an 'as received' basis. Information identified on this report with the colour **blue** indicates data provided by customer that may have an impact on the results. This report replaces any interim results previously issued. 4. 5.

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 g, kg	Airborne fibre reported concentration as Fibres per millilitre of air drawn over the sampler membrane (C) 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 ($V = r \times t$)
L/min min	Airborne fibre sampling Flowrate as litres per minute of air drawn over the sampler membrane (r) Time (t), e.g. of air sample collection period
Calculations	
Airborne Fibre Concentration:	$C = \left(\frac{A}{a}\right) \times \left(\frac{N}{n}\right) \times \left(\frac{1}{t}\right) = K \times \left(\frac{N}{n}\right) \times \left(\frac{1}{t}\right)$
Asbestos Content (as asbestos):	$\% w/w = \frac{(m \times P_A)}{M}$
Weighted Average (of asbestos):	$\mathscr{H}_{WA} = \sum \frac{(m \times P_A)_x}{x}$
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
454	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.
•	s) Total % w/w asbestos content in asbestos-containing finds in a soil sample (% w/w).
Chrysotile	Chrysotile Asbestos Detected. Chrysotile may also refer to Fibrous Serpentine or White Asbestos. Identified in accordance with AS 4964-2004.
COC	Chain of Custody.
Crocidolite	Crocidolite Asbestos Detected. Crocidolite may also refer to Fibrous Riebeckite or Blue Asbestos. Identified in accordance with AS 4964-2004.
Dry	Sample is dried by heating prior to analysis.
DS	Dispersion Staining. Technique required for Unequivocal Identification of asbestos fibres by PLM.
FA	Fibrous Asbestos. Asbestos containing material that is wholly or in part friable, including materials with higher asbestos content with a propensity to become friable with handling, and any material that was previously non-friable and in a severely degraded condition. For the purposes of the NEPM and WA DOH, FA generally corresponds to material larger than 7 mm x 7 mm, although FA may be more difficult to visibly distinguish and may be assessed as AF.
Fibre Count	Total of all fibres (whether asbestos or not) meeting the counting criteria set out in the NOHSC:3003
Fibre ID	Fibre Identification. Unequivocal identification of asbestos fibres according to AS 4964-2004. Includes Chrysotile, Amosite (Grunerite) or Crocidolite asbestos.
Friable	Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory's remit to assess degree of friability.
HSG248	UK HSE HSG248, Asbestos: The Analysts Guide, 2nd Edition (2021).
HSG264	UK HSE HSG264, Asbestos: The Survey Guide (2012).
ISO (also ISO/IEC)	International Organization for Standardization / International Electrotechnical Commission.
K Factor	Microscope constant (K) as derived from the effective filter area of the given AFM membrane used for collecting the sample (A) and the projected eyepiece graticule area of the specific microscope used for the analysis (a).
LOR	Limit of Reporting.
MFM (also NOHSC:3003)	Membrane Filter Method. As described by the Australian Government National Occupational Health and Safety Commission, Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres, 2nd Edition [NOHSC:3003(2005)].
NEPM (also ASC NEPM)	National Environment Protection (Assessment of Site Contamination) Measure, (2013, as amended).
Organic	Organic Fibres Detected. Organic may refer to Natural or Man-Made Polymeric Fibres. Identified in accordance with AS 4964-2004.
PCM	Phase Contrast Microscopy. As used for Fibre Counting according to the MFM.
PLM	Polarised Light Microscopy. As used for Fibre Identification and Trace Analysis according to AS 4964-2004.
Sampling	Unless otherwise stated Eurofins are not responsible for sampling equipment or the sampling process.
SMF	Synthetic Mineral Fibre Detected. SMF may also refer to Man Made Vitreous Fibres. Identified in accordance with AS 4964-2004.
SRA	Sample Receipt Advice.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix.
UK HSE HSG	United Kingdom, Health and Safety Executive, Health and Safety Guidance, publication.
UMF	Unidentified Mineral Fibre Detected. Fibrous minerals that are detected but have not been unequivocally identified by PLM with DS according the AS 4964-2004. May include (but not limited to) Actinolite, Anthophyllite or Tremolite asbestos.
WA DOH	Reference document for the NEPM. Government of Western Australia, Guidelines for the Assessment, Remediation and Management of Asbestos- Contaminated Sites in Western Australia (updated 2021), including Appendix Four: Laboratory analysis
Weighted Average	Combined average % w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample (%wa).



Comments

Sample received was less than the nominal 500mL as recommended in Section 4.10 of the NEPM Schedule B1 - Guideline on Investigation Levels for Soil and Groundwater.

Sample Integrity	
Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	No
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Asbestos Counter/Identifier:

Chamath JHM Annakkage

Authorised by:

Sayeed Abu

Senior Analyst-Asbestos

Senior Analyst-Asbestos

li falle

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.

Geo-Logix Pty Ltd Building Q2, Level 3	Project Mana	ager:	Je	201	na	CHAIN OF CUSTOI	YC					F	age urch	ase C	of)rder	No:		F	5		5	3 -	74	5			
2309/4 Daydream St Warriewood, NSW 2102	Contact email: jMaltman@goo-logix. Com. all Project Name: <u>Austral - adolition al</u> Project Number: <u>2301008</u> Date Submitted: <u>29 3 23</u>										Quote Reference:																
ABN: 86 116 892 936	Project Name	e: U	A	us	tro	ul - adalition r	al					Send Invoice to: accounts@geo-logix.com.au															
P: (02) 9979 1722 F: (02) 9979 1222	Project Num	ber:	23	301	0		S					Т	AT re	quire	ed:	3	8	Ad									
	The state					ANALYSIS	S RE	QU	IRE	ED	Q						SI I	-									
			Ma	atrix				010	C40									scify **	D only)	(HOD AV	erials	y (EC)					Eurofins MGT Suite
Lab ID Sample ID	Date	soil	water	air 	paint, filters other	Comments	COMPOSITE	TRH - C6 - C10	TRH - C10 - C40	vocs	BTEXN	PAHS	OCPs	OPPs	Phenols	Metals - M8	Metals - Lead	Metals - Specify	Asbestos (ID only)	Asbestos (WA DOH)	Foreign Materials	Conductivity (EC)	Hd		Hold	SUITE	Codes
BH210.15	- 0.35					Aspestosbarg															-						B1 TRH/BTEXN B1A TRH/MAH B2 TRH/BTEXN/Pb B2A TRH/MAH/Pb B3 PAH/Phenols B4 TRH/BTEXN/PAH B4A TRH/BTEXN/PAH B7A TRH/BTEXN/PAH/M8 B7 TRH/BTEXN/PAH/OCP/M8 B10 TRH/BTEXN/PAH/OCP/M8 B11 Na/K/Ca/Mg/CI/SO ₄ /CO ₃ /NC ₃ /NC ₃ /NO ₃ B11A B11/Alkalinity B11B B11/C/TDS B12 TRH/BTEXN/Oxygenates/Ethanol B12A TRH/BTEXN/Oxygenates B13 OCP/OPP B15 OCP/OPP B16 TDS/SO ₄ /CH,/Alk/BOD/CCD/HPC/CUB B17 SO ₄ /NO ₃ /F6++/MPC/CUB B18 CH/SO ₄ /pH B19 N/P/K
																											B19 N/P/K B20 CEC/%ESP/Ca/Ma/Na/K

Metals**(circle) As, Cd, Cr, Cu, Ni, Pb, Zn, Hg, Cr **, Cr **, Fe **, Fe **, Be, B, Al, V, Mn, Fe, Co, Se, Sr, Sn, Mo, Ag, Ba, Tl, Bi, Sb

Chain of Custo	ly	
Relinquished by: JEANA MUTMER 29/3 3 Signature: MAR Received by: LA	Un hum Date/Time: 5:2] Signature:	
	29.3.23	
	24.2°C no ch-1	Version: V1 Issued: June 2015
I Q3.2.1 QF_024 Eurofins Chain of Custody	nochol	Review: January 2022



Certificate of Analysis

Environment Testing

Geo-Logix P/L Bld Q2 Level 3, 2309/4 Daydream St Warriewood NSW 2102

Attention:	Jenna Maltman
Report	977705-AID
Project Name	ADDITIONAL: AUSTRAL - PRIMARY
Project ID	ADDITIONAL: 2301008
Received Date	Mar 29, 2023
Date Reported	Apr 11, 2023

Methodology:

Michiodology.	
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% i" and that currently in Australia "there is no validated method available for the quantification of asbestos". This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.



Project Name	ADDITIONAL: AUSTRAL - PRIMARY
Project ID	ADDITIONAL: 2301008
Date Sampled	Mar 07, 2023 to Mar 08, 2023
Report	977705-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
TP17/0-0.4	23-Ap0003014	Mar 07, 2023	Approximate Sample 782g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP16/0-0.2	23-Ap0003015	Mar 07, 2023	Approximate Sample 699g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP53/0-0.4	23-Ap0003016	Mar 07, 2023	Approximate Sample 705g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP18/0-0.3	23-Ap0003017	Mar 07, 2023	Approximate Sample 578g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP3/0-0.4	23-Ap0003018	Mar 07, 2023	Approximate Sample 573g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP11/0-0.2	23-Ap0003019	Mar 08, 2023	Approximate Sample 835g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP19/0-0.2	23-Ap0003020	Mar 08, 2023	Approximate Sample 799g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP20/0-0.2	23-Ap0003021	Mar 08, 2023	Approximate Sample 657g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.



Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
TP4/0-0.15	23-Ap0003022	Mar 08, 2023	Approximate Sample 799g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP41/0-0.3	23-Ap0003023	Mar 08, 2023	Approximate Sample 501g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP5/0-0.3	23-Ap0003024	Mar 08, 2023	Approximate Sample 648g Sample consisted of: Brown coarse-grained clayey sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.



Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description

Asbestos - LTM-ASB-8020

Testing SiteExtractedSydneyApr 03, 2023

Holding Time 3 Indefinite

Eurofins Environment Testing Australia Pty Ltd ABN: 50 005 085 521						Eurofins ARL Pty Ltd ABN: 91 05 0159 898	Eurofins Environment Testing NZ Ltd NZBN: 9429046024954					
web: www.eurofins.com.au		Melbourne 6 Monterey Road Dandenong Sout VIC 3175 Tel: +61 3 8564 9	Geelong Sydney Id 19/8 Lewalan Street 179 Magov tth Grovedale Girraween VIC 3216 NSW 2145		gowar Road en 45 2 9900 840	Mitchell ACT 2911 00 Tel: +61 2 6113 8091	Brisbane 1/21 Smallwood Place Murarrie QLD 4172 Tel: +61 7 3902 4600 666 NATA# 1261 Site# 2079	Newcastle 1/2 Frost Drive Mayfield West NSW 2304 Tel: +61 2 4968 8448 NATA# 1261 4 Site# 25079 & 25289	Perth 46-48 Banksia Road Welshpool WA 6106 Tel: +61 8 6253 4444 NATA# 2377 Site# 2370	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	
	mpany Name: dress:	Geo-Logix P Bld Q2 Leve Warriewood NSW 2102		aydream St			Report #: 97 Phone: 02	D5876 7705 9979 1722 9979 1222		Received: Due: Priority: Contact Name:	Mar 29, 2023 12:10 Apr 5, 2023 5 Day Jenna Maltman) PM
	Project Name:ADDITIONAL: AUSTRAL - PRIMARYProject ID:ADDITIONAL: 2301008									Eurofins Analytical S	Services Manager :	Asim Khan
Sample Detail						Asbestos - WA guidelines						
Sydı	ney Laboratory	- NATA # 1261	Site # 18217	•		Х						
External Laboratory												
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID							
1	TP17/0-0.4	Mar 07, 2023		Soil	S23-Ap0003014	X						
2	TP16/0-0.2	Mar 07, 2023		Soil	S23-Ap0003015							
3	TP53/0-0.4	Mar 07, 2023		Soil	S23-Ap0003016							
4	TP18/0-0.3	Mar 07, 2023		Soil	S23-Ap0003017							
5	TP3/0-0.4	Mar 07, 2023		Soil	S23-Ap0003018							
6	TP11/0-0.2	Mar 08, 2023		Soil	S23-Ap0003019							
7	TP19/0-0.2	Mar 08, 2023		Soil	S23-Ap0003020							
	TP20/0-0.2	Mar 08, 2023		Soil	S23-Ap0003021	Х						
8				Soil	S23-Ap0003022							
8 9	TP4/0-0.15	Mar 08, 2023		3011	020 Ap0000022							
		Mar 08, 2023 Mar 08, 2023		Soil	S23-Ap0003023							
9	TP4/0-0.15					Х						



Internal Quality Control Review and Glossary General

- 1. 2. 3.
- AC data may be available on request. All soil results are reported on a dry basis, unless otherwise stated. Samples were analysed on an 'as received' basis. Information identified on this report with the colour **blue** indicates data provided by customer that may have an impact on the results. This report replaces any interim results previously issued. 4. 5.

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 g, kg	Airborne fibre reported concentration as Fibres per millilitre of air drawn over the sampler membrane (C) Mass, e.g. of whole sample (M) or asbestos-containing find within the sample (m)
g/kg	Concentration in grams per kilogram
L, mL L/min	Volume, e.g. of air as measured in AFM (V = r x t) 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:	$C = \left(\frac{A}{a}\right) \times \left(\frac{N}{a}\right) \times \left(\frac{1}{c}\right) \times \left(\frac{1}{c}\right) = K \times \left(\frac{N}{a}\right) \times \left(\frac{1}{V}\right)$
Asbestos Content (as asbestos):	$\% w/w = \frac{(m \times P_A)}{M}$
Weighted Average (of asbestos):	$\mathscr{H}_{WA} = \sum \frac{(m \times P_A)_X}{x}$
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	i) Total % w/w asbestos content in asbestos-containing finds in a soil sample (% w/w).
Chrysotile	Chrysotile Asbestos Detected. Chrysotile may also refer to Fibrous Serpentine or White Asbestos. Identified in accordance with AS 4964-2004.
COC	Chain of Custody.
Crocidolite	Crocidolite Asbestos Detected. Crocidolite may also refer to Fibrous Riebeckite or Blue Asbestos. Identified in accordance with AS 4964-2004.
Dry	Sample is dried by heating prior to analysis.
DS	Dispersion Staining. Technique required for Unequivocal Identification of asbestos fibres by PLM.
FA	Fibrous Asbestos. Asbestos containing material that is wholly or in part friable, including materials with higher asbestos content with a propensity to become friable with handling, and any material that was previously non-friable and in a severely degraded condition. For the purposes of the NEPM and WA DOH, FA generally corresponds to material larger than 7 mm x 7 mm, although FA may be more difficult to visibly distinguish and may be assessed as AF.
Fibre Count	Total of all fibres (whether asbestos or not) meeting the counting criteria set out in the NOHSC:3003
Fibre ID	Fibre Identification. Unequivocal identification of asbestos fibres according to AS 4964-2004. Includes Chrysotile, Amosite (Grunerite) or Crocidolite asbestos.
Friable	Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory's remit to assess degree of friability.
HSG248	UK HSE HSG248, Asbestos: The Analysts Guide, 2nd Edition (2021).
HSG264	UK HSE HSG264, Asbestos: The Survey Guide (2012).
ISO (also ISO/IEC)	International Organization for Standardization / International Electrotechnical Commission.
K Factor	Microscope constant (K) as derived from the effective filter area of the given AFM membrane used for collecting the sample (A) and the projected eyepiece graticule area of the specific microscope used for the analysis (a).
LOR	Limit of Reporting.
MFM (also NOHSC:3003)	Membrane Filter Method. As described by the Australian Government National Occupational Health and Safety Commission, Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres, 2nd Edition [NOHSC:3003(2005)].
NEPM (also ASC NEPM)	National Environment Protection (Assessment of Site Contamination) Measure, (2013, as amended).
Organic	Organic Fibres Detected. Organic may refer to Natural or Man-Made Polymeric Fibres. Identified in accordance with AS 4964-2004.
PCM	Phase Contrast Microscopy. As used for Fibre Counting according to the MFM.
PLM	Polarised Light Microscopy. As used for Fibre Identification and Trace Analysis according to AS 4964-2004.
Sampling	Unless otherwise stated Eurofins are not responsible for sampling equipment or the sampling process.
SMF	Synthetic Mineral Fibre Detected. SMF may also refer to Man Made Vitreous Fibres. Identified in accordance with AS 4964-2004.
SRA	Sample Receipt Advice.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres (particularly asbestos) in a given sample matrix.
UK HSE HSG UMF	United Kingdom, Health and Safety Executive, Health and Safety Guidance, publication. Unidentified Mineral Fibre Detected. Fibrous minerals that are detected but have not been unequivocally identified by PLM with DS according the AS 4964-2004.
	May include (but not limited to) Actinolite, Anthophyllite or Tremolite asbestos.
WA DOH	Reference document for the NEPM. Government of Western Australia, Guidelines for the Assessment, Remediation and Management of Asbestos- Contaminated Sites in Western Australia (updated 2021), including Appendix Four: Laboratory analysis
Weighted Average	Combined average % w/w asbestos content of all asbestos-containing finds in the given aliquot or total soil sample (%wa).



Comments

Sample Integrity	
Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Asbestos Counter/Identifier:

Sayeed Abu

Senior Analyst-Asbestos

Authorised by:

Chamath JHM Annakkage

Senior Analyst-Asbestos

light-

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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5 day TAT Additional Analysis FW: Eurofins Test Results, Invoice - Report 971509 : Site AUSTRAL - PRIMARY (2301008)

Asim Khan <AsimKhan@eurofins.com> Wed 2023-03-29 12:11 PM To: #AU25_Enviro_Sample_NSW <EnviroSampleNSW@eurofins.com> Cc: Adam Bateup <AdamBateup@eurofins.com>

INFO: INTERNAL EMAIL - Sent from your own Eurofins email domain.

Additional analysis please on std TAT.

Thanks,

Kind regards,

Asim Khan Analytical Services Manager Please note my hours are from 9:30 am to 5:30 pm

Eurofins Environment Testing Australia Pty Ltd Phone: +61 2 9900 8432 Mobile: +61 429 051 456

E-mail: <u>AsimKhan@eurofins.com</u>

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From: Jenna Maltman <jmaltman@geo-logix.com.au>
Sent: Wednesday, 29 March 2023 12:10 PM
To: Adam Bateup <AdamBateup@eurofins.com>
Cc: Asim Khan <AsimKhan@eurofins.com>
Subject: RE: Eurofins Test Results, Invoice - Report 971509 : Site AUSTRAL - PRIMARY (2301008)

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,

Can I please request the following samples for Asbestos - WA guidelines. Std turn around.

- TP17/0-0.4 (asbestos bag)
- TP16/0-0.2 (asbestos bag)
- TP53/0-0.4 (asbestos bag)
- TP18/0-0.3 (asbestos bag)
- TP3/0-0.4 (asbestos bag)
- TP11/0-0.2 (asbestos bag)
- TP19/0-0.2 (asbestos bag)
- TP20/0-0.2 (asbestos bag)
- TP4/0-0.15 (asbestos bag)
- TP41/0-0.3 (asbestos bag)
- TP5/0-0.3 (asbestos bag)

Thanks

Jenna Maltman | Project Scientist

Unit 2309/4 Daydream St, Warriewood NSW 2102 T: 02 9979 1722 | <u>www.geo-logix.com.au</u>



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From: AdamBateup@eurofins.com <AdamBateup@eurofins.com> Sent: Tuesday, 28 March 2023 10:07 PM To: Ted Lilly <<u>tlilly@geo-logix.com.au</u>> Cc: Thara Polassery <<u>tpolassery@geo-logix.com.au</u>> Subject: Eurofins Test Results, Invoice - Report 971509 : Site AUSTRAL - PRIMARY (2301008)

Please find the attached reports and invoice

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: <u>AdamBateup@eurofins.com</u> Website: <u>www.eurofins.com/environmental-testing</u> <u>View our latest EnviroNotes</u>





Geo-Logix P/L Bld Q2 Level 3, 2309/4 Daydream St Warriewood NSW 2102





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:	
Allention.	

Ted Lilly

Report Project name Project ID Received Date **971657-S** AUSTRAL - TRIPLICATES 2301008 Mar 10, 2023

Client Sample ID			TS2	TS3	TS1
Sample Matrix			Soil	Soil	Soil
•			S23-	S23-	S23-
Eurofins Sample No.			Ma0032935	Ma0032936	Ma0032937
Date Sampled			Mar 07, 2023	Mar 08, 2023	Mar 07, 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	%	86	143	138
Tetrachloro-m-xylene (surr.)	1	%	94	79	61
Heavy Metals					
Arsenic	2	mg/kg	14	24	29
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	26	53	47
Copper	5	mg/kg	28	22	22
Lead	5	mg/kg	21	22	58
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	12	< 5	6.9
Zinc	5	mg/kg	50	37	40



Client Sample ID			TS2	TS3	TS1
-			-		_
Sample Matrix			Soil S23-	Soil	Soil
Eurofins Sample No.			523- Ma0032935	S23- Ma0032936	S23- Ma0032937
Date Sampled			Mar 07, 2023	Mar 08, 2023	Mar 07, 2023
Test/Reference	LOR	Unit			
Sample Properties					
% Moisture	1	%	18	12	7.9
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	100	mg/ng			
Benzene	0.1	mg/kg	_		< 0.1
Toluene	0.1	mg/kg	_		< 0.1
Ethylbenzene	0.1	mg/kg	_	-	< 0.1
m&p-Xylenes	0.1	mg/kg	_	-	< 0.2
o-Xylene	0.2	mg/kg	_	-	< 0.1
Xylenes - Total*	0.1	mg/kg	_		< 0.3
4-Bromofluorobenzene (surr.)	1	%	_		68
Total Recoverable Hydrocarbons - 2013 NEPM Fra	-	70			00
Naphthalene ^{N02}	0.5	mg/kg	-	-	< 0.5
Polycyclic Aromatic Hydrocarbons	0.0	iiig/kg			< 0.5
	0.5	mallea			.05
Benzo(a)pyrene TEQ (lower bound) * Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	-	< 0.5
Benzo(a)pyrene TEQ (intedition bound) *	0.5	mg/kg	-	-	0.6
	0.5	mg/kg	-		< 0.5
Acenaphthene	0.5	mg/kg	-	-	< 0.5
Acenaphthylene Anthracene	0.5	mg/kg	-	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	-	< 0.5
		mg/kg			
Benzo(a)pyrene Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	-	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	-		< 0.5
Benzo(g.n.i)perylene Benzo(k)fluoranthene	0.5	mg/kg	-	-	< 0.5
	0.5	mg/kg	-		< 0.5
Chrysene Dibenz(a.h)anthracene	0.5	mg/kg	-	-	< 0.5
Fluoranthene	0.5	mg/kg	-		< 0.5
Fluorantinene	0.5	mg/kg	-	-	< 0.5
	0.5	mg/kg	-		< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	-	< 0.5
Naphthalene Phonapthropo		mg/kg	-		
Phenanthrene	0.5	mg/kg			< 0.5
Pyrene Total PAH*	0.5	mg/kg	-	-	< 0.5
2-Fluorobiphenyl (surr.)	0.5	mg/kg %	-	-	< 0.5
		. 70		-	



Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Eurofins Suite B9	-		-
Organochlorine Pesticides	Melbourne	Mar 30, 2023	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8270)			
Metals M8	Melbourne	Mar 30, 2023	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	Mar 30, 2023	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Mar 30, 2023	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Mar 30, 2023	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Melbourne	Mar 30, 2023	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			
Polycyclic Aromatic Hydrocarbons	Melbourne	Mar 30, 2023	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
% Moisture	Melbourne	Mar 21, 2023	14 Days
- Method: LTM-GEN-7080 Moisture			

•	Eurofins Environment Testing Australia Pty Ltd ABN: 50 005 085 521 Melbourne Geelong Sydney									Eurofins ARL Pty Ltc ABN: 91 05 0159 898	Eurofins Environm	-	
web: w	ww.eurofins.com.au EnviroSales@eurofins	6 Monterey Road 19/8 Lewalan Street Dandenong South Grovedale VIC 3175 VIC 3216 Tel: +61 3 8564 5000 Tel: +61 3 8564 5000		Girrawee NSW 214 8564 5000 Tel: +61 2	n 5 2 9900 8	3400	Mitch ACT 2 Tel: +	,2 Dac ell 2911 61 2 6	Brisbane Newcastle e Street 1/21 Smallwood Place 1/2 Frost Drive Murarrie Mayfield West NSW 2 QLD 4172 QLD 4172 Tel: +61 2 4968 8448 13 8091 Tel: +61 7 3902 4600 NATA# 1261 Site# 25466 NATA# 1261 Site# 25079 & St25289	Perth 46-48 Banksia Road 804 Welshpool WA 6106 Tel: +61 8 6253 4444 NATA# 2377 Site# 2370	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	
	ompany Name: Idress:	Geo-Logix F Bld Q2 Leve Warriewood NSW 2102	l 3, 2309/4 D	aydream St			Re	rder N eport hone: ax:	#:	PO5836TP 971657 02 9979 1722 02 9979 1222	Received: Due: Priority: Contact Name:	Mar 10, 2023 10:27 Mar 17, 2023 5 Day Ted Lilly	7 AM
	oject Name: oject ID:	AUSTRAL - 2301008	TRIPLICATE	S							Eurofins Analytical	Services Manager :	Asim Khan
		Sa	Imple Detail			Organochlorine Pesticides	Metals M8	Moisture Set	Eurofins Suite B9				
<u> </u>	oourne Laborato		261 Site # 12	54		X	X	X	X	-			
	ernal Laboratory		Comulia	Matrix					<u> </u>	-			
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID								
1	TS2	Mar 07, 2023		Soil	S23-Ma0032935	х	X	Х		4			
2	TS3	Mar 08, 2023		Soil	S23-Ma0032936	Х	X	Х					
3	TS1	Mar 07, 2023		Soil	S23-Ma0032937			Х	Х				
Test	t Counts					2	2	3	1				



Internal Quality Control Review and Glossary

General

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

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA. If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

Units

enne		
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.
твто	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		1 1			
Organochlorine Pesticides					
Chlordanes - Total	mg/kg	< 0.1	0.1	Pass	
4.4'-DDD	mg/kg	< 0.05	0.05	Pass	
4.4'-DDE	mg/kg	< 0.05	0.05	Pass	
4.4'-DDT	mg/kg	< 0.05	0.05	Pass	
a-HCH	mg/kg	< 0.05	0.05	Pass	
Aldrin	mg/kg	< 0.05	0.05	Pass	
b-HCH	mg/kg	< 0.05	0.05	Pass	
d-HCH	mg/kg	< 0.05	0.05	Pass	
Dieldrin	mg/kg	< 0.05	0.05	Pass	
Endosulfan I	mg/kg	< 0.05	0.05	Pass	
Endosulfan II	mg/kg	< 0.05	0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05	0.05	Pass	
Endrin	mg/kg	< 0.05	0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05	0.05	Pass	
Endrin ketone	mg/kg	< 0.05	0.05	Pass	
g-HCH (Lindane)	mg/kg	< 0.05	0.05	Pass	
Heptachlor	mg/kg	< 0.05	0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05	0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05	0.05	Pass	
Methoxychlor	mg/kg	< 0.05	0.05	Pass	
Toxaphene	mg/kg	< 0.5	0.5	Pass	
Method Blank					
Heavy Metals					
Arsenic	mg/kg	< 2	2	Pass	
Cadmium	mg/kg	< 0.4	0.4	Pass	
Chromium	mg/kg	< 5	5	Pass	
Copper	mg/kg	< 5	5	Pass	
Lead	mg/kg	< 5	5	Pass	
Mercury	mg/kg	< 0.1	0.1	Pass	
Nickel	mg/kg	< 5	5	Pass	
Zinc	mg/kg	< 5	5	Pass	
Method Blank					
Total Recoverable Hydrocarbons					
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	
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					



Те	st		Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Polycyclic Aromatic Hydrocark	oons							
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	
Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery		oouroe				Linto	Linito	0000
Organochlorine Pesticides				Result 1				
Chlordanes - Total	M23-Ma0053598	NCP	%	109		70-130	Pass	
4.4'-DDD	M23-Ma0053598	NCP	%	100		70-130	Pass	
4.4'-DDE	M23-Ma0053598	NCP	%	78		70-130	Pass	
a-HCH	M23-Ma0053598	NCP	%	74		70-130	Pass	
Aldrin	M23-Ma0053598	NCP	%	80		70-130	Pass	
b-HCH	M23-Ma0053598	NCP	%	94		70-130	Pass	
d-HCH	M23-Ma0053598	NCP	%	87		70-130	Pass	
Dieldrin	M23-Ma0053598	NCP	%	103		70-130	Pass	
Endosulfan I	M23-Ma0053598	NCP	%	83		70-130	Pass	
Endosulfan II	M23-Ma0053598	NCP	%	79		70-130	Pass	
Endosulfan sulphate	M23-Ma0053598	NCP	%	79		70-130	Pass	
Endrin	M23-Ma0053598	NCP	%	100		70-130	Pass	
Endrin aldehyde	M23-Ma0053598	NCP	%	100		70-130	Pass	
Endrin ketone	M23-Ma0053598	NCP	%	71		70-130	Pass	
g-HCH (Lindane)	M23-Ma0053598	NCP	%	82		70-130	Pass	
		NCP	%	89		70-130		
Heptachlor	M23-Ma0053598						Pass	
Heptachlor epoxide Hexachlorobenzene	M23-Ma0053598	NCP	%	117		70-130	Pass	
	M23-Ma0053598	NCP	%	96 84		70-130	Pass	
Methoxychlor	M23-Ma0056517	NCP	%	04		70-130	Pass	
Spike - % Recovery				Booult 1				
Heavy Metals	M22 Ma0040000	NOD	07	Result 1		75 405	Basa	
Arsenic	M23-Ma0042268	NCP	%	105		75-125	Pass	
Cadmium	M23-Ma0042268	NCP	%	101		75-125	Pass	
Chromium	M23-Ma0042268	NCP	%	118		75-125	Pass	
Copper	M23-Ma0042268	NCP	%	109		75-125	Pass	
Lead	M23-Ma0042268	NCP	%	119		75-125	Pass	
Mercury	M23-Ma0042268	NCP	%	120		75-125	Pass	
Nickel	M23-Ma0042268	NCP	%	109	<u> </u>	75-125	Pass	
Zinc	M23-Ma0042268	NCP	%	114		75-125	Pass	
Spike - % Recovery				D. 11				
Total Recoverable Hydrocarbo			~ /	Result 1	<u> </u>			
TRH C6-C9	M23-Ma0072232	NCP	%	72		70-130	Pass	
TRH C10-C14	M23-Ma0035534	NCP	%	84		70-130	Pass	
TRH C6-C10	M23-Ma0072232	NCP	%	90		70-130	Pass	



Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
TRH >C10-C16	M23-Ma0035534	NCP	%	86			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	M23-Ma0072232	NCP	%	74			70-130	Pass	
Toluene	M23-Ma0072232	NCP	%	78			70-130	Pass	
Ethylbenzene	M23-Ma0072232	NCP	%	92			70-130	Pass	
m&p-Xylenes	M23-Ma0072232	NCP	%	85			70-130	Pass	
o-Xylene	M23-Ma0072232	NCP	%	88			70-130	Pass	
Xylenes - Total*	M23-Ma0072232	NCP	%	86			70-130	Pass	
Spike - % Recovery								_	
Total Recoverable Hydrocarbons	- 2013 NEPM Fract	ions		Result 1					
Naphthalene	M23-Ma0072232	NCP	%	100			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Organochlorine Pesticides	1			Result 1	Result 2	RPD			
Chlordanes - Total	M23-Ma0039404	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	M23-Ma0039404	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	M23-Ma0039404	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	M23-Ma0039404	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-HCH	M23-Ma0039404	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	M23-Ma0039404	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-HCH	M23-Ma0039404	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-HCH	M23-Ma0039404	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	M23-Ma0039404	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	M23-Ma0039404	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	M23-Ma0039404	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	M23-Ma0039404	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	M23-Ma0039404	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	M23-Ma0039404	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	M23-Ma0039404	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-HCH (Lindane)	M23-Ma0039404	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	M23-Ma0039404	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	M23-Ma0039404	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	M23-Ma0039404	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	M23-Ma0039404	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Toxaphene	M23-Ma0039404	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate				1			1	-	
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M23-Ma0042512		mg/kg	< 2	2.5	43	30%	Fail	Q15
Cadmium	M23-Ma0042512		mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M23-Ma0042512		mg/kg	52	52	1.6	30%	Pass	
Copper	M23-Ma0042512		mg/kg	13	15	13	30%	Pass	
Lead	M23-Ma0042512		mg/kg	6.7	8.7	26	30%	Pass	
Mercury	M23-Ma0042512		mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	M23-Ma0042512		mg/kg	36	38	6.1	30%	Pass	
Zinc	M23-Ma0042512	NCP	mg/kg	18	19	8.4	30%	Pass	
Duplicate				1					
Sample Properties		,		Result 1	Result 2	RPD			
% Moisture	M23-Ma0027500	NCP	%	8.5	8.5	<1	30%	Pass	



Duplicate									
Total Recoverable Hydrocarb	oons			Result 1	Result 2	RPD			
TRH C6-C9	M23-Ma0072502	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	M23-Ma0069234	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	M23-Ma0069234	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	M23-Ma0069234	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C6-C10	M23-Ma0072502	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	M23-Ma0069234	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	M23-Ma0069234	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	M23-Ma0069234	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
втех				Result 1	Result 2	RPD			
Benzene	M23-Ma0072502	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	M23-Ma0072502	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	M23-Ma0072502	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	M23-Ma0072502	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	M23-Ma0072502	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	M23-Ma0072502	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarb	oons - 2013 NEPM Fracti	ions		Result 1	Result 2	RPD			
Naphthalene	M23-Ma0072502	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydroca	rbons			Result 1	Result 2	RPD			
Acenaphthene	M23-Ma0072988	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	M23-Ma0072988	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	M23-Ma0072988	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	M23-Ma0072988	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	M23-Ma0072988	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	M23-Ma0072988	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	M23-Ma0072988	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	M23-Ma0072988	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	M23-Ma0072988	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	M23-Ma0072988	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	M23-Ma0072988	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	M23-Ma0072988	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	M23-Ma0072988	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	M23-Ma0072988	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	M23-Ma0072988	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	M23-Ma0072988	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	



Comments

Sample Integrity	
Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code Description

oouc	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.

N07 Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs

Q15 The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised by:

Asim Khan	Analytical Services Manager
Caitlin Breeze	Senior Analyst-Metal
Joseph Edouard	Senior Analyst-Organic
Joseph Edouard	Senior Analyst-Volatile
Mary Makarios	Senior Analyst-Sample Properties
Mele Singh	Senior Analyst-Organic
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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Geo-Log Building Q2, 2309/4 Dayd Warriewood, ABN: 86 116 892 P: (02) 9979 11 F: (02) 9979 12	ream St NSW 2102 2 936 722	Project Mana Contact ema Project Nam Project Num	ager: hil: e: ber:	T ATA 2	201	1	Lill Ser ger 21	CHAIN OF CUSTO Gegeorogix.com 0-10.gix.com.au -triplicates B Date Submitted: 9	n.a	12	3				Quo	te R d Inv	efere /olce	to:	-	ccou	nts@	Dgeo		x.co	m.a					
	Carlos Sures				1 Bandani	1		ANALYSI	S RI	EQL	JIR	ED						R.					1				21			
Lab ID	Sample ID	Date	soil	-	Matri Ha	paint, filters	other	Comments	COMPOSITE	TRH - C6 - C10	TRH - C10 - C40	VOCs	BTEXN	PAHS	PCBs	OCPs	OPPs	Phenois Motato - Me	Metale - L and	Metals - Specify **	TCLP	Asbestos (ID only)	Asbestos (WA DOH)	Foreign Materials	Conductivity (EC)	Hq		Hold	SUITE	Eurofins MGT Suite Codes
	TSI	7/3/23	X			-	-	please formand								-	_												×	B1 TRH/BTEXN B1A TRH/MAH
	TS2	7/3/23 8/3/23		-	-	-			+	-	_			_		×	_	7			-									B2 TRH/BTEXN/Pb
	TS3	0/3/23	1	-		-	-4	to melbourne.	╀	-	-		-			X		×		-	-	-		_		_		-	X	B2A TRH/MAH/Pb B3 PAH/Phenols
			+	-		-		Eurotios	-	-	-	-		_		-	-		-	-	-	-		_	-	-	_		-	B4 TRH/BTEXN/PAH B4A TRH/BTEXN/PAH/Phenols
			+		-			~	⊢	-	-	-				-		-	+		-	-		- 1	-	_	_	-		B5 TRH/BTEXMM7
			1	-			\vdash		┢	-	-	-	-			-	-	+	+	+-	-	-	-	-	-	-	-	+		B6 TRH/BTEXN/M8 B7 TRH/BTEXN/PAH/M8
							\vdash						-			-		+	+	+	-			-		-				B7A TRH/BTEXN/PAH/Phenole/M8
			-				\vdash		⊢					-			-		+-	+						-				B8 TRH/VOC/PAH/M8 B9 TRH/BTEXN/PAH/OCP/M8
						-	\vdash		t						-	+		+	+-	-	-			-		-	-	-		B10 TRH/BTEXN/PAH/OCP/OPP/M8
									t					-	-	+	+	+	+	-				+	-+	-	-	-		B11 Na/K/Ce/Mg/Cl/SO4/CO3/HCO3/NH3/NO3 B11A B11/Alkalinity
							-		t						+	+	-	-	+	-			-	+		-		-	_	B11B B11/EC/TDS
									t				1		+	+	-	+	1	-		-	-	+	-+	-	-	-		B12 TRH/BTEXN/Oxygenates/Ethanol B12A TRH/BTEXN/Oxygenates
									t						-	+	+	+	+			-		+	-+	-	+	-		B13 OCP/PCB
									\vdash		-	-		-+	+	+	+	+	+	+			-+	+	-	-	-			B14 OCP/OPP B15 OCP/OPP/PCB
							-									-			-			-		-	-	-				B16 TDS/SOJ/CHJ/Alk/BOD/COD/HPC/CUB
							-							-			_	+	-	-			-	+	-	+				B17 SO ₄ /NO ₃ /Fe++/HPC/CUB B18 CI-/SO ₄ /pH
							+				-		-	-		+	-	-	+			-		+		-				619 N/P/K
			24	<u>.</u>		-		/ Ma Eo Co So Se Sa No Ao Be						1		_														B20 CEC/%ESP/Ca/Ma/Na/K

Metals**(circle) As, Cd, Cr, Cu, Ni, Pb, Zn, Hg, Cr 6*, Cr 3*, Fe 2*, Fe 3*, Be, B, Al, V, Mn, Fe, Co, Se, Sr, Sn, Mo, Ag, Ba, TI, Bi, Sb

Chain of Custody Relinquished by THEAT Date/Time: 9/3/23 Signature: Date/Time: 10/223 Signature: 1.8C #971657 101220 Chull Cauch Received by: Ryon Pullips Version: V1 Issued: Jone 2015 OT 5 4 OF 1996 Provides what a second

ATTACHMENT H



ASBESTOS GRAVIMETRIC WORKSHEET

PROJECT INFORMATION

PROJECT: Austral

PROJECT NO: 2101008

INITIALS: JM

DATE: 8/3/2023

KNOWN WEIGHT QA/QC CHECK KNOWN WEIGHT: g MEASURED WEIGHT: g MEASURED WEIGHT IS WITHIN 2% Asbestos in soil (%) = $\frac{ACM Weight (g) \times 0.015}{Soil Sample Weight (kg)}$

SAMPLE ID	SOIL SAMPLE VOLUME (L)	SOIL SAMPLE DENSITY (tonne/m ³ = kg/L)	TOTAL SOIL WEIGHT (kg)	ACM WEIGHT (g)	$= \frac{W_{ACM} \times 0.015}{W_{S}}$				
	v	ρs	$W_{s} = V \times \rho_{s}$	W _{ACM}					
TP15	10L	1.6 kg/L	16	8.28	0.008%				
	ide on Pass/Fail for								
	: 10 g ACM (Size of a m	latchbook)	Public Open Space 'HSL-C': 20 g ACM						
Residential 'HSL-B'	: 40 g ACM		Commercial/Industrial 'HSL-D': 50 g ACM (Size of a playing card)						

GEO-LOGIX PTY LTD

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