REPORT

Tonkin+Taylor

Preliminary Environmental Site Investigation

Super Lots A, B, C, D & E - Underbank Development

Prepared for Plenti Property Pty Ltd Prepared by Tonkin & Taylor Pty Ltd Date February 2024 Job Number 1008283.2000 v04





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1 Introduction

Tonkin & Taylor Pty Ltd (T+T) was engaged by Werribee Vale Development Pty Ltd (the 'client') to undertake a preliminary environmental site investigation (PSI) at Super Lots A–E Rivers Edge-Underbank Development, Bacchus Marsh (the Site). Refer to **Figures 1** and **2**, **Appendix A** for the regional location and layout of the Site.

This revision has been completed in accordance with the following proposal:

• Our proposal entitled *Letter of Engagement – Werribee Vale Road S96A – Escarpment & Environmental Assessment* dated 13 October 2022 (T+T ref: 1008283.2-LOE-ENG-001.v2).

T+T understands the client is proposing to divest the five (5) super lots comprising the site. The end use of these lots is unknown at the time this report was prepared.

1.1 Project Background

An initial PSI report entitled *Preliminary Environmental Site Investigation – Super Lots A, B & C – Underbank Development* dated 19 March 2021 (T+T ref: 1005964.2000_20210318_R01) was provided to the client. Based on feedback from Council, the report has been updated to consider the following:

- EPA Audit conducted to the north of the site (EPA CARMS 73064-1).
- A review of the site contamination potential compared to the Department of Environment, Land, Water, and Planning (DELWP) publication Planning Practice Note PPN30: Potentially Contaminated Land (July 2021).

Based on the Council request for information (RFI), Council considered the site as a 'medium' risk of contamination as per PPN30.

During email correspondence on 12 July 2023, T+T were informed the site subdivision was to be increased from three (3) super lots (A, B & C) to five (5) super lots (A, B, C, D & E). This report is an update to the previous PSI entitled *Preliminary Environmental Site Investigation – Super Lots A, B & C – Underbank Development* dated 9 December 2022 (T+T ref: 1008283.2000_20221103_R01.v02) to include the updated subdivision plan. No new information was assessed as part of this report update.

2 Scope of work

To provide information on the contamination status of the site T+T undertook the following environmental works:

- Detailed review of historical use of the site, including a review of historical aerial images, certificates of title, and publicly available registers and databases.
- An inspection of the site and surrounds to confirm the current layout and land use(s) and identify the presence of potential contamination sources.
- Sampling and analysis of the site soils at 12 grid-based locations to assess potential for broad scale contamination.
- Assess the nature and extent of the contamination at the site to a sufficient degree that an appropriate level of assessment of risk to relevant Environmental Values can be undertaken.
- Provision of this revision report summarising the works undertaken, a determination on the nature of the site soils and identification of potential contamination which may constrain the proposed site development according to the DELWP publication PPN30.

3 Site Characterisation

3.1 Site description

The site is made up of five lots. Lot A is rectangular with an area of 5,011 m² and is situated on the northwest side of Adelong Way and Halletts Way roundabout. Lot B is roughly rectangular with an area of 1,917 m² and Lot C is roughly triangular with an area of 1,067 m², and both are located on the southwest side of Adelong Way and Halletts Way roundabout. Lot D is triangular with an area of 4,465 m² and Lot E is trapezoidal with an area of 13,665 m², and both are located on the east side of Halletts way.

The site is largely grassed, cleared land. The south and east borders of the sites are bounded by the Werribee River, with Halletts Way separating Lots A, B and C from Lots D and E, and Adelong Way separating Lot A from Lots B and C. North of the site is an escarpment with residential properties beyond. Land further to the west appears to be used for rural / agricultural activities.

The site boundary and layout are shown in Figure 1 (Appendix A).

The Planning Property Report for the site indicates the site is currently zoned 'Farm Zone' and has a 'Design & Development Overlay, an 'Environmental Significance Overlay', and is identified as an area of Aboriginal Cultural Heritage Sensitivity. A copy of the planning report is provided in **Appendix B**.

3.2 Environmental setting

3.2.1 Topography

The average site elevation is approximately 115 metres Australian Height Datum (m AHD). The site slopes down from north to south from an elevation of approximately 120 m AHD to 110 m AHD.

3.2.2 Geology

The Visualising Victoria's Groundwater (VVG) database¹ shows the site is predominantly underlain by Pleistocene to Holocene Alluvium that is characterised by silt, sand, and gravel. The north corner of Lot D and a small section of the northeast corner of Lot A is underlain by Neogene to Pleistocene age Darley Gravel, characterised by gravel, sand, and silt.

3.2.3 Groundwater

Published groundwater mapping from the VVG database indicates that groundwater is expected to be approximately 5 m below ground level (bgl) for most of the site area, with the north of site ranging from 10 to 20 m bgl.

An online search did not identify any groundwater bores registered within 500 m of the site. However, the search did identify eight within 1 km of the site. Of these, two are listed for observational use, one for domestic use while the remaining five have no listed usage. The closest bores are approximately 750 m from the centre of site and the information of these are presented in **Table 3.1** below.

¹ Visualising Victoria's Groundwater database: <u>https://www.vvg.org.au/vvg_map.php?agreement=Agree+and+Continue#</u>

Bore ID	Completion date	Total depth (m bgl)	Longitude	Latitude
WRK060853	01-07-2011	5.00	144.428623	-37.672415
WRK063212	26-07-2011	7.00	144.428623	-37.672415

Table 3.1: Groundwater bores registered within 750 m of the site

Locally, groundwater direction is likely to flow south southeast towards the nearby Werribee River, and more broadly southeast towards Port Phillip Bay.

3.2.4 Surface water

Regional surface drainage is likely to the south to the Werribee River, which is located immediately south of the subject site. There are no other notable surface water features on or in close proximity to the site.

3.3 Zoning

The site is currently zoned as Farming Zone (FZ), and is subject to several overlays, including the Design and Development Overlay (DDO) across the whole site, an Environmental Significance Overlay- Schedule 2 (ESO2) and Schedule 8 (ESO8) associated with the Werribee River across the south and southeast sections of the site. The site is also identified as being of Aboriginal, cultural heritage sensitivity and designated as bushfire prone.

3.4 EPA Registers

Review of the EPA Previous Environmental Audit register, Priority Sites register, Groundwater Quality Restricted Use Zones (GQRUZs) register, Licenced Premises register, and Former and Operating Landfill registers revealed that the site is not listed on any EPA Registers, nor is any property within a 1 km radius of the site with the exception of one (1) Environmental Audit (summary provided in **Section 3.4.1**)

A copy of the Priority Sites Register current as of 30 September 2022 and excerpt from the VVG database for EPA relevant sites are provided in **Appendix B**.

3.4.1 Environmental Audit – EPA CARMS 73064-1

A Certificate of Environmental Audit was issued for a property on Halletts Way, Bacchus March VIC (dated 10 August 2015) north of the subject site. The location of the Environmental Audit boundary is depicted in the Figure 3.4.1, on the following page.



Location of Environmental Audit EPA CARMS 73064-1

Figure 3.4.1. Environmental Audit location

The previously environmental audited property was previously used as agricultural and residential land, including minor quarrying activities to the south, and remained vacant from 1990 to the date of the audit. A soil investigation encountered fill soils in the central southern area of the property with depths in excess of 3.5 m bgl comprising gravels and silts. A layer of basalt gravels was noted to be present across the majority of the central southern portion of the property. The property also contained stockpiles of soil and wastes (including metal, timber, bricks, plastics) and earthen bunds comprising clays with cobbles consistent with natural soils were observed. No intrusive groundwater investigation was conducted in conjunction with the soil investigation.

The soil investigation targeted prior activities on the property that may have contributed potential contaminants of concern:

- Historical importation of fill (metals, PAHs, petroleum hydrocarbons, chlorinated hydrocarbons, pH, sulphate);
- Illegal and uncontrolled dumping of wastes (metals, asbestos, PAHs, petroleum hydrocarbons, chlorinated hydrocarbons, pH, sulphate);
- Herbicides, pesticides and fertilisers;
- Quarrying activities, including fuel handling, septic systems (petroleum hydrocarbons, nitrogen species, biological contaminants);
- Localised incineration of wastes (metals, PAHs, petroleum hydrocarbons); and
- Drum and chemical storage (metals, pH, chlorinated hydrocarbons, petroleum hydrocarbons).

However, the Auditor concluded that current soil conditions at the property did not preclude beneficial uses (former SEPP) of land in the context of the following land uses without conditions:

- Sensitive Use Other (i.e., low density residential).
- Sensitive Use High Density.

- Recreation / Open Space.
- Commercial.
- Industrial.

On the basis that no beneficial uses of land are precluded, the Auditor was able to issue a Certificate of Environmental Audit for this site.

4 Site History

A review of the site history was conducted to identify potential sources of contamination both onsite and offsite. This included:

- Review of historical aerial photographs.
- Review of published historical and other mapping.
- Review of historical certificates of title.

The findings of the site history review are provided in the sections below.

4.1 Historical aerial photography

Historical aerial photographs for the site and the surrounding properties were obtained through LANDATA from the Aerial Photography Archive (Department of Environment, Land, Water and Planning) as part of the site history compilation. Additional photographs were reviewed and sourced online from Google Earth and Nearmap².

A summary of aerial photographs that were inspected is provided in **Table 4.1**. Copies of the aerial images are provided in **Appendix C**.

Table 4.1	Review	of historical	aerial	nhotos
	ILC VIC W	ormstorical	achai	photos

Photograph	Observations
Date: 1949	Onsite observations
Run: 2 Film: 567A Photo: 5298	Only the north western portion of the site is visible in this image. The site
Project: Western Highway	appears to be cleared, grassed land, tree lined on the southern border.
Project	Offsite observations
Scale: 1:15,840	The site is surrounded by grassed land. One rural property is located to
Height: 12,000 ft	the west.
Date: 1970	Onsite observations
Run: 5 Film: 2383 Photo: 147	Site surface is slightly darker in colour than the surrounding fields.
Project: Standard Map sheet	Offsite observations
Photography	No significant changes.
Scale: 1:25,000	
Height: 14,300 ft	
Date: 1982	Onsite observations
Run: 5 Film: 3698 Photo: 98	No significant changes
Project: Standard Map sheet	Offsite observations
Photography	New roads have been built to the northwest of site.
Scale: 1:25,000	
Height: 13,000 ft	

² <u>https://www.nearmap.com/au/en</u>

Date: 1990 Run: 5 Film: 4322 Photo: 109 Project: Melb. 1989 Ext. West Scale: 1:25,000 Height: 13,800 ft	 Onsite observations Site is distinctly darker in colour than the adjacent fields, indicating site may be used for agriculture. Offsite observations Residential properties have been built along the roads to the northwest. Fields to the southwest appear to have been cleared.
Date: 2002 Google Earth	 Onsite observations Shed has been constructed in the eastern corner of Lot A. Farrows appear to be present onsite traversing north to south. Site is bordered by trees on all sides excluding part of the north border. Offsite observations More urban residential properties built at the northwest estate, further urban properties built approximately 500 m to the south and east.
Date: 2010 Google Earth	Onsite observations Site has been cleared and is solely pasture. Offsite observations No significant changes.
Date: 2016 Google Earth	 Onsite observations Halletts Way is being extended into the property, traversing the site from north to south. Offsite observations An oval trotting track has been constructed on the property to the immediate west. New housing development is being constructed to the southwest with some houses already built.
Date: March 2017 Nearmap	 Onsite observations Hallets Way extension being constructed. Surface disturbance is evident across the majority of the site, likely related to the road works. What appears to be rocks are being stored along the west border of Lots A and B. Several soil stockpiles are visible along with a site shed on the western site boundary. Offsite observations No significant changes.
Date: March 2018 Nearmap	Onsite observations Halletts Way construction is complete. A portion of trees on west boundary have been cleared and a dirt track has been formed leading from Hallets Way to the property to the west. Offsite observations No significant changes.
Date: January 2021 Nearmap	 Onsite observations A roundabout has been built on Halletts Way in between all three lots with Adelong Way extending from this to the west. Offsite observations New residential estate constructed to the west of Hallets Way extension. Housing estate to southwest complete. Housing estate to the far north has been extended south, close to the northern boundary of Lot C.

4.2 Historical certificates of title

The parcel of land is most recently defined as the land in Plan of Consolidation No. 154896, on certificate of title Volume 12200/Folio 394. Werribee Vale Corporation Pty Ltd is listed as the current proprietor of the land encompassing the site.

A review of the parent titles was conducted to establish historical ownership. A summary of the historical Certificates of Title is provided in **Table 4.2**.

Year	Proprietor	Occupation	Vol – Folio				
	Lot 1 on Title Plan 320981L (formerly known as part of Portion 5 Township of Bacchus Marsh Parish of Korkuperrimul)						
1963	Norman Thomas Burge	Public servant	8521 – 689				
1973	Peter John Gillespie	Labourer	8521 – 689				
1981	Leigh Durham Nominees Pty Ltd	Not stated	8521 – 689				
1994	Vernean Pty Ltd	Not stated	8521 – 689				
2000	Stephen Bernard Muller & Brenda Joy Muller	Not stated	8521 – 689				
2002	Rodney Mark Cochrane & Carole Helene Cochrane	Not stated	8521 – 689				
	Lot 1 on Plan of Subdivision 742687U						
2016	Rodney Mark Cochrane & Carole Helene Cochrane	Not stated	11648 – 686				
	Lot A on Plan of Subdivision 821090T						
2020	Werribee Vale Corporation Pty Ltd	Not stated	12200 – 394				

Table 4.2: Review of historical certificates of title

Historical title documents are provided in Appendix D.

5 Site Inspection

A site inspection was undertaken on 10 February 2021 to visually assess the condition of the site and the presence/ absence of indicators of potentially contaminating activities / impacts at the site.

Information considered during the inspection included, but was not limited to:

- Presence of buildings / structures.
- Condition of hardstand / surface coverage.
- Lack of vegetation / poorly growing or deformed vegetation.
- Areas of surface staining / discoloured soil.
- Distinctive odours.
- Evidence of areas of fill or buried wastes.

Observations made during the site inspection are noted below:

- The five (5) lots constituting the site were observed to be cleared vacant land at the time of the inspection. A corrugated iron shed was present in the north-eastern corner of Lot E.
- The site was predominantly grassed with some areas sparsely covered.
- Surficial fill soils were observed in some areas, particularly close to the roads which have been constructed between the five lots. The southern portion of Lot B had a surficial layer of non-descript crushed rock, likely due to its recent use as the location of a site shed and carpark for construction works on neighbouring properties.

- There were no indicators of significant contaminating activities observed on properties immediately adjacent that were considered likely to impact on the subject site.
- There were no existing groundwater monitoring wells observed, and no evidence of previous environmental site investigations.

Photographs were taken during the inspection and are provided in **Appendix E**.

6 Regulatory Framework

6.1 Soil Assessment

The Environmental Protection Act (2017) and the Environmental Reference Standard 2021 (ERS) form the regulatory framework for the prevention and management of contaminated land within the Victoria. The intent of this framework is to maintain and maximise (to the extent practicable) the quality of the land environment in Victoria, to protect its existing and potential environmental values.

The ERS identifies specific land use categories as well as protected environmental values associated with each of the land use categories. The EPA considers that land (soil) is polluted where current and/or future protected environmental values for the relevant land use categories are precluded. Environmental values of land are precluded when relevant soil quality objectives set out in the ERS, for those environmental values, have been exceeded.

6.1.1 Environmental Values

The land is currently zoned General Residential, with an understanding that the site is being considered for future residential use. On that basis, the land use category for the site with reference to the ERS would be defined as 'Sensitive Use – Other (Lower Density)'.

The environmental values of land requiring protection for a sensitive use are shaded in Table 6.1.

Table 6.1:	Protected	environmental	values	of land
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		Land Use							
		ves	_	Sensitive Use		<u>></u> e	_		
		Parks & Reser	Agricultura	High Density	Other (Iower density)	Recreational Open Space	Commercia	Industrial	
ant ind	Natural Ecosystems	~							
depend stems a	Modified Ecosystems	~	~		✓	√			
Land c ecosy: specie	Highly Modified Ecosystems		~	~	✓	✓	~	~	
Human Health		✓	✓	✓	✓	✓	✓	✓	
Buildings & Structures		✓	~	✓	✓	✓	✓	✓	
Aesthetics		~		✓	✓	✓	✓		
Production of Food, Flora & Fibre		✓	~		✓				

Note: Reproduction of 'Table 4.2' from the ERS.

6.1.2 Adopted screening criteria

The adopted criteria for assessing protection of each of the relevant environmental values highlighted in Table 6.1 are discussed in the following sections. Where the listed guidelines do not provide criteria for specific analytes, alternative criteria have been adopted (where available).

6.1.2.1 Land dependant ecosystems and the production of fauna, flora and fibre

The Ecological Investigation/Screening Levels (EILs/ESLs) contained within the ASC NEPM were the primary adopted screening levels for the purposes of determining whether this environmental value is precluded by the chemical condition of site soils. The ASC NEPM provides EILs that are based on added contaminant limits (ACLs) over and above the existing ambient background concentrations (ABC) to which natural flora and fauna may be adapted. For the purposes of the screening assessment, we have evaluated results against a range of ACLs provided in the ASC NEPM for various soil characteristics which might be expected for the types of soil encountered (clay). As a conservative position, the ABCs were generally set at 'zero' for all adopted EILs.

For EIL derivation contamination is assessed to be either 'aged' or 'fresh'; a contaminant incorporated in soil for at least two years is considered to be 'aged'. Fresh contamination is usually associated with current industrial activity and chemical spills. For this investigation, all contaminants are considered to be aged.

Generic EILs were used for arsenic, DDT, naphthalene, and lead for the purpose of urban residential and open public space uses. Site specific EILs were derived for copper, nickel, chromium (III), and zinc using values for cation exchange capacity (CEC) of 8.4 cmol/kg and clay content of 6% and using the lowest reported pH (CaCl₂) reading of 5.5. The adopted criteria were then sourced from ASC NEPM based on these conservative values.

Analyte	EIL (mg/kg)	Reference					
All areas							
Arsenic	160	ASC NEPM Table 1B(4)					
DDT	180	ASC NEPM Table 1B(4)					
Naphthalene	170	ASC NEPM Table 1B(4)					
Lead	1,100	ASC NEPM Table 1B(4)					
Generic EILs							
Copper	140	ASC NEPM EIL calculator, based on pH 5.5 (pH-based criteria only)					
Nickel	120	ASC NEPM EIL calculator, based on CEC 8.4					
Chromium (III)	350	ASC NEPM EIL calculator, based on clay 6%					
Zinc	300	ASC NEPM EIL calculator, based on CEC 8.4, pH 5.5					

Table 6.2: Adopted EILs for Urban residential/public open space

For the assessment of ASC NEPM ESLs for petroleum hydrocarbons fractions F1-F4 and BTEX, soils were considered to be classified as fine grained soils. In 2017 CRC CARE released an updated assessment of ecological risk associated with B(a)P in soils³ based on revised Canadian guidelines (which were used in deriving the original NEPM low reliability ESL of 0.7 mg/kg). CRC CARE provide a high reliability ecological guideline value of 33 mg/kg for open space and residential land use, which has been used to evaluate risk at this site.'

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³ CRC CARE 2017, Risk-based management and remediation guidance for benzo(a)pyrene, CRC CARE Technical Report no. 39, CRC for Contamination Assessment and Remediation of the Environment, Newcastle, Australia

6.1.2.2 Human health

The Health Investigation/Screening Levels (HILs/HSLs) contained within the ASC NEPM were adopted for assessing whether this environmental value is precluded by the chemical condition of site soils. The 'A' HILs provide reference criteria to assess whether soil contamination poses a risk to human health for sensitive use – low density housing land use. Relevant standards from the Canadian Environmental Quality Guidelines (CCME) or the USEPA Regional Screening Levels (last updated in November 2023) are adopted when specific criteria are not provided in the ASC NEPM.

6.1.2.3 Buildings and structures

For the protection of buildings and structures at the site, consideration was given to the potential for the land to be corrosive to or adversely affect the integrity of structures or building materials. Specifically, consideration was given to the COPC that may have a potential detrimental impact on the integrity of structures or building materials. Additionally, Australian Standard AS2159 provides guidance for potential impacts to concrete and steel structures resulting from underlying soil conditions including sulphate, chlorides and pH.41

6.1.2.4 Aesthetics

The objective outlined in the ERS for assessing impacts to this EV is: "Aesthetic issues do not adversely impact the use of land. Aesthetic issues include the quantity, type and distribution of foreign material or odours in relation to the specific land use and its sensitivity".

Section 3.6.3 of the ASC NEPM Schedule B1 states the following,

"In arriving at a balanced assessment, the presence of small quantities of non-hazardous inert material and low odour residue (for example, weak petroleum hydrocarbon odours) that will decrease over time should not be a cause of concern or limit the use of a site in most circumstances. Similarly, sites with large quantities of well-covered known inert materials that present no health hazard such as brick fragments and cement wastes (for example, broken cement blocks) are usually of low concern for both non-sensitive and sensitive land uses."

Currently there are no concentration-based aesthetic criteria for soil. While aesthetic observations are subjective, it is considered that if there is discolouration, noticeable odour from the soil on the site or if there are obvious components of waste, such as rubble, slag, bagged waste or similar, that form a significant component of the soils then there is a potential aesthetic concern.

6.1.2.5 Soil offsite disposal

To provide information on potential categorisation of soils for offsite disposal (should that be required as part of future site development), the results were evaluated against criteria provided within EPA Publication 1828.2 *Waste disposal categories – characteristics and thresholds* (March 2021).

6.1.3 PPN30

Assess the potenrital for contamination in general accordance with Department of Environment, Land, Water, and Planning (DELWP) publication Planning Practice Note PPN30: Potentially Contaminated Land (July 2021).

site.

7 Soil Sampling and Analysis

A limited sampling and analysis program was undertaken to support classification of soils for use onsite or offsite disposal.

Based on the total size of the site (approx. 2.6 hectares), a total of 40 grid-based sampling locations would be required to meet the minimum recommended sampling frequency in accordance with Australia Standard AS4482.1-2005 Guide to the investigation and sampling of sites with potentially contaminated soil. However, with site usage largely of a rural nature prior to adjacent development for residential subdivision a reduced sampling density of 4 sample per hectare (i.e., 11 sample locations) was considered sufficient to get an appreciation for any broad scale contamination. T+T attended the site on 10 February 2021 and collected samples from 12 locations (identified as HA01-HA12). The twelfth location was obtained surplus to requirement.

Sampling was conducted in accordance with EPA Publications IWRG 701 *Sampling and Analysis of Waters, Waste Waters, Soils and Wastes*. Hand augers were used to advance boreholes to a maximum depth of 1.0 m below ground level (bgl). Samples were obtained by hand using disposable nitrile gloves. Samples were placed into new sampling containers and transported to the laboratory in chilled containers. The soil types encountered at each location were recorded, including observations of any detectable odours, visible staining, or anthropogenic material.

A plan of the investigation locations (Figure 1) is provided in Appendix A.

7.1 Soil profile

The surface soils encountered predominantly consisted of a dark grey/brown clayey silt and silty clay, which extended between 0.2 m - 0.5 m bgl. Natural clays, sands and gravels were observed underlying these surficial soils. Fill soils were observed in some areas, particularly in Lot B, C, D & E. Fill soils predominantly consisted of clayey silts with significant gravel content. Solid inert waste was not observed onsite or in soils at the investigation locations.

Geological logs from the investigation locations are provided in Appendix F.

7.2 Analytical program

The adopted analytical program included analysis of 9 surface samples for metals and polycyclic aromatic hydrocarbons (PAH), 6 surface samples for total recoverable hydrocarbons (TRH), and one surface sample NEPM soil parameters (to establish site specific ecological criteria). One surface sample was analysed for a broader suite of parameters as listed in Table 2 of Publication IWRG621, to facilitate offsite disposal ('IWRG621 screen'). Samples from location HA12, and all samples collected from depth, were put on hold for later analysis if required. The sampling program is summarised in **Table 7.1**.

Sampling location	No. of samples analysed	Sample IDs	Analysis
Lot A	3	HA01/0.1	1 x IWRG621 Screen ⁴
		HA02/0.1	1 x Metals, PAH, TRH
		HA03/0.1	1 x Metals, PAH
Lot B	2	HA04/0.1, HA05/0.1	2 x Metals, PAH, TRH

Table 7.1: Soil Sampling Program

⁴ Analytes listed in Table 2 of EPA Publication IWRG621 Soil Hazard Categorisation and Management

Lot C	1	HA06/0.1	1 x Metals, PAH, TRH
Lot D	1	HA07/0.1	1 x Metals, PAH, TRH
Lot E	4	HA09/0.1	1 x Metals, PAH, TRH
		HA08/0.1, HA10/0.1	2 x Metals, PAH
		HA11/0.1	1 x NEPM Soil Parameters

7.3 Analytical results

Analytical results from the samples obtained were evaluated against the EPA publication 1828.2 Upper Limits for waste categorisation and criteria for human and ecological health provided in the National Environment Protection Council (1999) National Environment Protection (Assessment of Site Contamination) Measure (NEPM) May 2013 Amendment (ASC NEPM).

The tabulated laboratory results are provided in **Table 1**, in **Appendix G**.

NATA certified laboratory reports are provided in **Appendix H**.

7.3.1 EPA Publication 1828.2

Concentrations of the analytes tested were reported less than the upper limits for 'Fill Material' with the exception of the following:

 Samples 'HA01/0.1', 'HA02/0.1', 'HA03/0.1', 'HA04/0.1', 'HA05/0.1', 'HA08/0.1', 'HA09/0.1', and 'HA10/0.1', reported concentrations for nickel of between 73 - 91 mg/kg, above the Fill Material Upper limit of 60 mg/kg.

7.3.2 NEPM Ecological and Human Health Criteria

Results were also evaluated against ecological and human health criteria provided in the ASC NEPM for low density residential land use . The reported laboratory results were less than the adopted criteria for ecological and human receptors.

7.4 Quality assurance

During the sampling works, T+T implemented a quality assurance program including:

- Appropriate sample handling and transport to the laboratory for analysis within requisite holding time.
- Comparison of field results and analytical results, which did not suggest discrepancies in analytical results.
- Review of laboratory internal quality control results, which were reported as being within acceptable limits under the scope of the laboratories NATA accreditation.

8 Discussion

8.1 Desktop review

Based on the information reviewed the site appears to have been used historically for agricultural purposes until sometime prior to 2016. The site has been subject to disturbance of surface soils with the extension of Halletts Way and construction works of the adjacent residential subdivision, however, not significant importation of materials appears to have occurred onsite during this period suggesting the fill soils identified during the soil sampling are likely to be disturbed soils indigenous to the site.

8.2 Impact to Environmental values

Relevant EVs considered included ecological receptors and human health receptors in a sensitive use – low density context, aesthetics, and production of fauna, flora, and fibre.

8.2.1 Human health

Review of laboratory analytical data against adopted ecological criteria found no exceedances that would preclude this proposed use of the land.

8.2.2 Land dependant ecosystems

Review of laboratory analytical data against adopted ecological criteria found no exceedances that would preclude this proposed use of the land.

8.2.3 Aesthetics

Review of test pit data found no significant indication of deleterious material in the soil profile that would preclude this EV. It is noted however that condition of this material was only viewed from discrete test pit locations. Any excavated or surface materials observed during site preparation works with distinctive odorous characteristics, or significant volumes of inert waste that is 'offensive to the senses' should be disposed offsite.

8.2.4 Buildings and Structures

No chemical contamination was identified that was considered to impact on the buildings and structures EV. No petroleum hydrocarbon contamination was identified that would trigger management limits specified in the ASC NEPM for potential impact to groundwater, structures, or fire hazard for example.

8.3 Offsite disposal

Eight soil samples reported elevated heavy metal concentrations above the upper limits for 'fill material' and less than the upper limit for 'Category C' as per **Table 8.1** below.

Analyte	Fill material upper limit criteria	No. of samples exceeded	Sample IDs	Reported concentrations (mg/kg)
Nickel	60 mg/kg	8	HA01/0.1, HA02/0.1, HA03/0.1, HA04/0.1, HA05/0.1, HA08/0.1, HA09/0.1, and HA10/0.1	73 - 91 mg/kg

Table 8.1: EPA 1828.2 Table 3 exceedances

8.3.1.1 95% Upper Confidence Limit Statistical Analysis – ProUCL Calculation

The Industrial Waste Resource Guidelines (IWRG) Publication 702 Soil Sampling allows for categorisation of soil based on a 95% Upper Confidence Level (95%UCL average) as an alternative to categorisation via maximum chemical concentrations.

The 95%UCL average was calculated for nickel in the insitu soils. The results showed:

• Arsenic 95% Student's-t UCL of 86.26 mg/kg, above than the upper limit for Fill material categorisation (60 mg/kg).

13

Nickel was statistically reported above the Fill Material Upper Limits in natural soils, and comprised **Category C waste soils**. Statistical analysis results are provided in **Appendix I**.

8.3.1.2 9.1.6.2 Naturally occurring

The persistence of nickel is a characteristic of basaltic clays in the Melbourne region, the nickel concentrations in natural soils are considered to be natural mineralisation and not introduced contamination, which would potentially allow soils to be categorised as Fill Material. However, to confirm disposal as Fill Material, a formal designation will be required from EPA Victoria.

8.4 Planning Practice Note

The Planning Practice Note PPN30 Potentially Contaminated Land (July 2021) provides information on what land uses or activities might indicate potential contamination. Reference to PPN30 indicates the following with respect to this site:

Activities with High Potential for contamination

• None

Activities with Medium Potential for contamination

None

In addition to the above, whilst not listed in PPN30, the following historical site uses/potential features are considered to have medium potential for contamination:

- Buildings and infrastructure: Asbestos containing material fragments may exist at the site.
- Farming activities: Contaminants related to farming practices may exist at the site.
- Filling (imported soil): Unidentified imported fill locations may exist at the site.

Furthermore, historical uncontrolled demolition of buildings constructed of asbestos containing materials is considered to represent a risk of contamination by asbestos fragments.

The potential contaminants and potentially impacted media associated with the above historical uses are summarised in **Table 8.2**.

Activity	Contaminants of Potential Concern	Media Potentially Impacted
Buildings and infrastructure	Asbestos containing material fragments, demolition waste	Surface soils at former building locations
Farming activities	Herbicides, pesticides, metals, PAH, TRH	Surface soils
Filling	Range of potential contaminants but PAH, heavy metals, and solid wastes including asbestos are common	Soil, site wide where filling has occurred

Table 8.2: Contaminants of Potential Concern

Soil sampling at the site did not report exceedances of human health and environmental criteria in the surface and subsurface for any contaminants of potential concern, and along with the site inspections undertaken and the results of the Environmental Audit undertaken on a property north of the site, are considered to support that there is a 'low' potential for contamination on-site.

In addition, OCP use was phased out and banned in the mid-1990s in Australia and based on aerial photographs indicating market gardens were started during this time, it is considered unlikely that OCPs were used onsite.

In accordance with PPN30, where there is 'low' potential for contamination and a site is planned for 'residential use', an Environmental Audit is not considered to be required.

8.4.1 Potential for Contamination

Potentially contaminated land , is defined as:

- 1. used or known to have been used for industry or mining
- 2. used or known to have been used for the storage of chemicals, gas, waste or liquid fuel other than minor above-ground storage that is ancillary to another use of the land, or
- 3. where a known past or present activity or event occurring on or off the land may have caused contamination on the land.

Based on the review of the current and historical use of the land and the surrounding area, and review of the analytical results and comparison to the adopted criteria and in accordance with PPN30, we consider that the available data e indicates no potential for contamination.

9 Closing

Based on the results from the investigation, T+T concludes:

- Site soils are considered acceptable for re-use onsite.
- Based on the analytical results, and elevated concentrations of nickel, the insitu soils can be classified as 'Category C waste soil' if requiring offsite disposal. However, the persistence of nickel is a characteristic of basaltic clays in the Melbourne region, (particularly in the Bacchus Marsh area), the nickel concentrations in natural soils are considered to be natural mineralisation and not introduced contamination, which would potentially allow soils to be categorised as Fill Material. However, to confirm disposal as Fill Material, a formal designation will be required from EPA Victoria.
- As per the PPN30, the site is considered to have a 'low' potential for contamination and does not require a PRSA to determine the suitability for use of the site for residential / open space land use.
- Based on the review of the current and historical use of the land and the surrounding area, and review of the analytical results and comparison to the adopted criteria and in accordance with PPN30, we consider that the available data e indicates no potential for contamination.

10 Applicability

This report has been prepared for the exclusive use of our client Plenti Property Pty Ltd, with respect to the particular brief given to us and it may not be relied upon in other contexts or for any other purpose, or by any person other than our client, without our prior written agreement.

Recommendations and opinions in the report are based on data from samples from discrete locations. The nature and continuity of soil away from the sampled locations are inferred but it must be appreciated that actual conditions could vary from the assumed model.

Should any material be identified during the works that is not consistent with the representative samples (i.e., a change in soil types, presence of unknown fill or odorous or stained soils), T+T should be contacted to conduct a review of that material to confirm whether the results reported above are still applicable.

Tonkin & Taylor Pty Ltd Environmental and Engineering Consultants

Report prepared by:

Authorised for Tonkin & Taylor Pty Ltd by:

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JW Smigh

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Travis Shreeve Senior Principal Environmental Consultant

Trevor Smith Project Director





Exceptional thinking together www.tonkintaylor.com.au

PROJECT No.	1008283.2	2000	CLIENT	WERRIBEE V	ALE DE	EVELOPMENT PTY LTD	
DESIGNED	MCDG KMJA	Jul.23 Jul 23	PROJECT	SUPERLOTS A	A, B, C, D	AND E - UNDERBANK DEV	ELOPMENT
CHECKED	TFS	Jul.23	TITLE	SITE LAYOU	T AND S	AMPLING LOCATIONS	
T. SHREEVE	20.0	7.2023					
APPROVED	D	ATE	SCALE (A3)	1:1000	FIG No.	1008283.2000-F01	REV 1



EPA Site Search Result



From www.planning.vic.gov.au at 09 February 2021 06:55 PM

PROPERTY DETAILS				
Lot and Plan Number:		Lot A PS821090		
Address:		WERRIBEE VALE ROAD I	BACCHUS MARSH 3340	
Standard Parcel Identifier (SPI):		A\PS821090		
Local Government Area (Co	ouncil):	MOORABOOL		www.moorabool.vic.gov.au
Council Property Number:		601700		
Planning Scheme:		Moorabool		Planning Scheme - Moorabool
Directory Reference:		Melway 333 E8		
UTILITIES			STATE ELECTORAT	ES
Rural Water Corporation:	Southe	ern Rural Water	Legislative Council:	WESTERN VICTORIA
Urban Water Corporation:	Wester	n Water	Legislative Assembly:	MELTON
Melbourne Water:	Inside o	drainage boundary		
Power Distributor:	POWER	COR		

Planning Zones

FARMING ZONE (FZ) SCHEDULE TO THE FARMING ZONE (FZ)

View location in VicPlan



Note: labels for zones may appear outside the actual zone - please compare the labels with the legend.

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Planning Overlays

DESIGN AND DEVELOPMENT OVERLAY (DDO)



Note: due to overlaps, some overlays may not be visible, and some colours may not match those in the legend

ENVIRONMENTAL SIGNIFICANCE OVERLAY (ESO)

ENVIRONMENTAL SIGNIFICANCE OVERLAY - SCHEDULE 2 (ESO2)

ENVIRONMENTAL SIGNIFICANCE OVERLAY - SCHEDULE 8 (ESO8)



ESO - Environmental Significance Water course

Note: due to overlaps, some overlays may not be visible, and some colours may not match those in the legend

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Planning Overlays

OTHER OVERLAYS

Other overlays in the vicinity not directly affecting this land







Note: due to overlaps, some overlays may not be visible, and some colours may not match those in the legend

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Areas of Aboriginal Cultural Heritage Sensitivity

All or part of this parcel is an 'area of cultural heritage sensitivity'.

'Areas of cultural heritage sensitivity' are defined under the Aboriginal Heritage Regulations 2018, and include registered Aboriginal cultural heritage places and land form types that are generally regarded as more likely to contain Aboriginal cultural heritage.

Under the Aboriginal Heritage Regulations 2018, 'areas of cultural heritage sensitivity' are one part of a two part trigger which require a 'cultural heritage management plan' be prepared where a listed 'high impact activity' is proposed.

If a significant land use change is proposed (for example, a subdivision into 3 or more lots), a cultural heritage management plan may be triggered. One or two dwellings, works ancillary to a dwelling, services to a dwelling, alteration of buildings and minor works are examples of works exempt from this requirement.

Under the Aboriginal Heritage Act 2006, where a cultural heritage management plan is required, planning permits, licences and work authorities cannot be issued unless the cultural heritage management plan has been approved for the activity.

For further information about whether a Cultural Heritage Management Plan is required go to http://www.aav.nrms.net.au/aavQuestion1.aspx

More information, including links to both the Aboriginal Heritage Act 2006 and the Aboriginal Heritage Regulations 2018, can also be found here - https://www.aboriginalvictoria.vic.gov.au/aboriginal-heritage-legislation



Aboriginal Cultural Heritage

Water course

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Further Planning Information

Planning scheme data last updated on 3 February 2021.

A planning scheme sets out policies and requirements for the use, development and protection of land. This report provides information about the zone and overlay provisions that apply to the selected land. Information about the State and local policy, particular, general and operational provisions of the local planning scheme that may affect the use of this land can be obtained by contacting the local council or by visiting https://www.planning.vic.gov.au

This report is NOT a Planning Certificate issued pursuant to Section 199 of the Planning and Environment Act 1987. It does not include information about exhibited planning scheme amendments, or zonings that may abut the land. To obtain a Planning Certificate go to Titles and Property Certificates at Landata - https://www.landata.vic.gov.au

For details of surrounding properties, use this service to get the Reports for properties of interest.

To view planning zones, overlay and heritage information in an interactive format visit https://mapshare.maps.vic.gov.au/vicplan

For other information about planning in Victoria visit <u>https://www.planning.vic.gov.au</u>

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Designated Bushfire Prone Areas

This parcel is in a designated bushfire prone area.

Special bushfire construction requirements apply. Planning provisions may apply.



Designated bushfire prone areas as determined by the Minister for Planning are in effect from 8 September 2011 and amended from time to time.

The Building Regulations 2018 through application of the Building Code of Australia, apply bushfire protection standards for building works in designated bushfire prone areas.

Designated bushfire prone areas maps can be viewed on VicPlan at https://mapshare.maps.vic.gov.au/vicplan or at the relevant local council.

Note: prior to 8 September 2011, the whole of Victoria was designated as bushfire prone area for the purposes of the building control system.

Further information about the building control system and building in bushfire prone areas can be found on the Victorian Building Authority website <u>https://www.vba.vic.gov.au</u>

Copies of the Building Act and Building Regulations are available from http://www.legislation.vic.gov.au

For Planning Scheme Provisions in bushfire areas visit <u>https://www.planning.vic.gov.au</u>

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PRIORITY SITES REGISTER

Information as at 15 November 2022

The Priority Sites Register is updated monthly and the information on it may not be accurate, current or complete and may be subject to change without notice.

Land contaminated by former waste disposal, industrial and similar activities is frequently discovered during changes to land use - for example, from industrial to residential use. In most cases these can be managed at the time that the change of land use occurs. Some sites however, present a potential risk to human health or to the environment and must be dealt with as a priority. Such sites are typically subject to clean-up and/or management under EPA directions.

WHAT ARE PRIORITY SITES?

Priority Sites are sites for which EPA has issued a:

- Clean Up Notice pursuant to section 62A) of the Environment Protection Act 1970
- Pollution Abatement Notice pursuant to section 31A or 31B (relevant to land and/or groundwater) of the Environment Protection Act 1970.
- Environment Action Notice pursuant to Section 274 of the Environment Protection Act 2017
- Site Management Order (related to land and groundwater) pursuant to Section 275 of the Environment Protection Act 2017
- Improvement Notice (related to land and groundwater) pursuant to Section 271 of the Environment Protection Act 2017
- Prohibition Notices (related to land and groundwater) pursuant to Section 272 of the Environment Protection Act 2017

These remedial notices are issued on the occupier or controller of the site to require active management of these sites, or where EPA believes it is in the community interest to be notified of a potential contaminated site and this cannot be communicated by any other legislative means. Sites are removed from the Priority Sites Register once all conditions of a Notice have been complied with.

Typically these are sites where pollution of land and/or groundwater presents a potential risk to human health or to the environment. The condition of these sites is not compatible with the current or approved use of the site without active management to reduce the risk to human health and the environment. Such management can include clean up, monitoring and/or institutional controls.

The Priority Sites Register does not list all sites that are known to be contaminated in Victoria. A site should not be presumed to be free of contamination just because it does not appear on the Priority Sites Register. Persons intending to enter into property transactions should be aware that many properties may have been contaminated by past land uses and EPA may not be aware of the presence of contamination. Council and other planning authorities hold information about previous land uses, and it is advisable that such sources of information should also be consulted.

DISCLAIMER

The Environment Protection Authority does not warrant the accuracy or completeness of information in this Extract and any person using or relying upon such information does so on the basis that the Environment Protection Authority shall bear no responsibility or liability whatsoever for any errors, faults, defects or omissions in the information. Users of this site accept all risks and responsibilities for losses, damages, costs and other consequences resulting directly or indirectly from use of this site and information from it.

To the maximum permitted by law, the EPA excludes all liability to any person directly or indirectly from using this site and information from it.

FURTHER INFORMATION

Additional information is available from: EPA Victoria 200 Victoria Street Carlton VIC 3053 1300 EPA VIC (1300 372 842) www.epa.vic.gov.au contact@epa.vic.gov.au

Municipality	Suburb	Address	Issue	Notice Number
Alpine Shire Council	BARWIDGEE	78 MORRISONS LANE	Former Landfill. Requires ongoing management.	0090008844
Ballarat City Council	Black Hill	Crown Allotment 13A Section 35 Township of Ballarat East	Former Landfill. Requires ongoing management.	0090009627
Ballarat City Council	MOUNT CLEAR	Whitehorse RD	Former Landfill. Requires ongoing management.	0090012196
Banyule City Council	ROSANNA	148 LOWER PLENTY RD	Current Service Station. Requires assessment and/or clean up.	0090011938
Baw Baw Shire	Longwarry	31 Mackey St Longwarry VIC 3816 AU	Current industrial site, Requires ongoing management	IMPN-00001913
Bayside City	Sandringham	20 Wangara Road Sandringham 3191	Former Landfill, Requires assessment and/or clean up	EAN-00001437
Bayside City	Brighton	90 Outer Crescent Brighton 3186	Former Industrial Site, Requires assessment and/or clean up	EAN-00003536
Bayside City Council	CHELTENHAM	Lot 2, PS802507T 322-328 Bay Road	Former Industrial Site. Requires assessment and/or clean up.	0090010026
Bayside City Council	Sandringham	Part Lot 1/TP125095-excludes Scout Hall Lot 2/LP62334	Industrial waste has been dumped at the site. Requires ongoing	0090010908
Bayside City Council	Brighton	(Part) Lot 2/TP963646N (As per area shaded red in Section 5	Contaminated soil is retained and managed onsite. Requires	0090011239
Bayside City Council	CHELTENHAM	Lot 2, PS802507T 322-328 Bay Road	Former chemical storage facility. Requires ongoing management.	0090012077
Bayside City Council	Cheltenham	Lot 3, PS802507T 322-328 Bay Road	Former chemical storage facility. Requires ongoing management.	0090012078
Bayside City Council	CHELTENHAM	322 - 328 BAY RD	Former chemical storage facility. Requires ongoing management.	0090012079
Bayside City Council	Brighton	322 and 326 New St and 71 Bay St	Former Industrial Site. Requires ongoing management.	0090012507
Boroondara City	Hawthorn East	Fritsch Holzer Park, Hawthorn East, VIC, 3123, Australia	Former Landfill,Requires ongoing management	EAN-00002514
Brimbank City	BROOKLYN	84-92 Jones Road, 124 Jones Rd, 159 Bunting Road,, BROOKLYN,	Current landfill,Requires assessment and/or clean up	EAN-00001233
Brimbank City	Kealba	22 Sunshine Av Kealba VIC 3021 AU	Current landfill,Requires assessment and/or clean up	EAN-00001266-2
Brimbank City	Brooklyn	174 Old Geelong Road Brooklyn 3012	Former Landfill,Requires assessment and/or clean up	EAN-00001746
Brimbank City	Brooklyn	52-60 Market Road Brooklyn 3012	Former Landfill,Requires ongoing management	EAN-00001309-3
Brimbank City	Keilor	Brimbank Park, Horseshoe Bend Rd, Keilor, Melbourne, Victoria, 3036,	Industrial waste has been dumped at the site,Requires ongoing	EAN-00001328-2
Brimbank City	Keilor	110a Rowan Drive, Keilor, Victoria, 3036, Australia	Industrial waste has been dumped at the site,Requires ongoing management	EAN-00001327-2
Brimbank City	Keilor	94a Green Gully Road, Keilor, Victoria, 3036, Australia	Industrial waste has been dumped at the site, Requires ongoing	EAN-00001326-2
Brimbank City	Keilor	100a Green Gully Road, Keilor, Victoria, 3036, Australia	Industrial waste has been dumped at the site.Requires ongoing	EAN-00001325-2
Brimbank City	Brooklyn		Former Industrial Site, Requires assessment and/or clean up	EAN-00001485-5
Brimbank City	Sunshine North	323-325 St Albans Road Sunshine North 3020	Contaminated soil is retained and managed onsite.Requires	EAN-00001479
Brimbank City Council	DEER PARK	765 BALLARAT RD	Former Industrial Site. Requires assessment and/or clean up.	0090001886
Brimbank City Council	SYDENHAM	362 SYDENHAM RD	Former Landfill. Requires ongoing management.	0090003753
Brimbank City Council	ALBION	Carrington Drive Reserve 137A Denton Avenue ST ALBANS	Former Landfill. Requires ongoing management.	0090005541
Brimbank City Council	KEILOR DOWNS	Green Gully RD	Former Landfill. Requires ongoing management.	0090005738
Brimbank City Council	BROOKLYN	174 OLD GEELONG RD	Former Landfill. Requires ongoing management.	0090006102
Brimbank City Council	Albion	SUNSHINE ENERGY PARK 570A Ballarat Road And	Former Landfill. Requires ongoing management.	0090007761
Brimbank City Council	BROOKLYN	52 - 60 MARKET RD	Former Landfill. Requires ongoing management.	0090007782
Brimbank City Council	Brooklyn	Lot 2 PS335494 454-460 Somerville Road	Former Landfill. Requires assessment and/or clean up.	0090009853
Brimbank City Council	SUNSHINE NORTH	47 MCINTYRE RD	Former Industrial Site. Requires ongoing management.	0090010479
Brimbank City Council	SUNSHINE NORTH	49 MCINTYRE RD	Contaminated soil is retained and managed onsite. Requires	0090011581
Brimbank City Council	SUNSHINE	19 CENTRAL AV	Current Industrial Site. Requires assessment and/or clean up.	0090011874
Brimbank City Council	SUNSHINE NORTH	Solomon Heights, Volume 11598 Folio 596 Volume 11822 Folio 532	Illegal dumping. Requires assessment and/or clean up.	0090012261
Buloke Shire	Donald	Lot 41 - 45, 22 Napier Street, Donald, Victoria, 3480, Australia	Former petroleum storage site, Reguires ongoing management	EAN-00002318
Buloke Shire Council	BIRCHIP	CA 53B-D Parish of Wirmbirchip, SUNRAYSIA HWY	Former Landfill. Requires ongoing management.	0090009001
Campaspe Shire Council	DIGGORA	ODONNELL RD	Former Landfill. Requires ongoing management.	0090006552
Campaspe Shire Council	KYABRAM	Graham RD	Former Landfill. Requires ongoing management.	0090007207
Campaspe Shire Council	ECHUCA	436 MCKENZIE RD	Former Landfill. Requires ongoing management.	0090007220
Cardinia Shire Council	PAKENHAM	725 Five Mile Road	Former Landfill. Requires ongoing management.	0090011249
Cardinia Shire Council	GARFIELD	1110 NAR NAR GOON-LONGWARRY RD	Industrial waste has been dumped at the site. Requires	0090011810
Casey City Council	CRANBOURNE	Lot 7, 9, 10, 11 & 12 Stevensons Rd	Former Landfill. Requires ongoing management.	0090006965
Casey City Council	Narre Warren	former Narre Warren Landfill 184	Former Landfill. Requires ongoing management.	0090012018
Central Goldfields Shire Council	CARISBROOK	129 WILLIAMS RD	Former Landfill. Requires ongoing management.	0090006580
City of Greater Dandenong	SPRINGVALE SOUTH	68-88, 98-100 and 168-222 CLARKE ROAD	Former Landfill. Requires ongoing management.	0090010615
Colac-Otway Shire Council	COLAC	2 - 34 BRUCE ST	Former Landfill. Requires ongoing management.	0090012139
Corangamite Shire Council	GLENORMISTON	Terang-Mortlake RD	Former Landfill. Requires ongoing management.	0090003622
Corangamite Shire Council	GLENORMISTON	Terang-Mortlake RD	Former Landfill. Requires ongoing management.	0090012305
Darebin City	Reservoir	2/3a Newlands Road, Reservoir, Victoria, 3073, Australia	Former Landfill, Requires assessment and/or clean up	EAN-00002536-1
Darebin City	Preston	73 Gower Street Preston 3072	Illegal dumping,Requires assessment and/or clean up	EAN-00003114
Darebin City	Reservoir	5/3b Newlands Road Reservoir 3073	Former Landfill, Requires ongoing management	EAN-00003078
Darebin City Council	PRESTON	67 - 79 High ST	Former Service Station. Requires assessment and/or clean up.	0090001449

PRIORITY SITES REGISTER

Information as at 15 November 2022

Darobin Oity Obarion	NORTHCOTE	I OT 1 I P124227 56 BRICKWORKS I ANE AND 92 DENNIS STREET	Former Landfill Requires ongoing management	0090003493
Darehin City Council	RESERVOIR	3B Newlands Road (formerly Lot 87 Newlands Rd) which includes 3A	Former Landfill, Requires ongoing management	0090003508
Darebin City Council	RESERVOIR	SB Newlands Road (formerly Lot of Newlands Rd) which includes SA,	Former Lanumi. Requires origoing management.	0090003506
Darebin City Council	PRESION	194 - 202 BELL ST	Former industrial Site. Requires assessment and/or clean up.	0090006966
Darebin City Council	PRESTON	28 - 44 ALBERT ST	Former Industrial Site. Requires assessment and/or clean up.	0090012214
Darebin City Council	PRESTON	62 Albert ST	Former Industrial Site. Requires ongoing management.	0090012245
Darebin City Council	Preston	73 Gower St	Industrial waste has been dumped at the site. Requires	0090012534
Glen Eira City	McKinnon	94-100 Mckinnon Road Mckinnon 3204	Current petroleum storage site, Requires assessment and/or clean	EAN-00002771
Glen Eira City Council	BENTLEIGH	58 PATTERSON RD	Former Service Station. Requires assessment and/or clean up.	0090011203
Greater Bendigo City	Maiden Gully	110 Kronk Street, Maiden Gully, Victoria, 3551, Australia	Historical deposit of mine tailings Requires ongoing management	FAN-00002811
Greater Bendigo City	Maiden Gully	Lot 5, 88 Kronk Street, Maiden Gully, Victoria, 3551, Australia	Historical deposit of mine tailings, requires ongoing management	EAN-00001940-1
Greater Dendigo City	Maiden Gully	Lot 3, 60 Klonk Street, Maiden Gully, Victoria, 3331, Australia	Historical deposit of mine tailings, Requires ongoing management	EAN-00001940-1
Greater Bendigo City	Malden Gully	Lot 2, 132 Kronk Street, Malden Gully, Victoria, 3551, Australia	Historical deposit of mine tailings, Requires ongoing management	EAN-00001938-2
Greater Bendigo City	Maiden Gully	Crown Allotment 14F, 79 Kronk Street, Maiden Gully, Victoria, 3551,	Historical deposit of mine tailings, Requires ongoing management	EAN-00001929-1
		Australia		
Greater Bendigo City	Maiden Gully	106 Kronk Street, Maiden Gully, Victoria, 3551, Australia	Historical deposit of mine tailings, Requires ongoing management	EAN-00001770-2
Greater Bendigo City	MAIDEN GULLY	Lot 3, 102 Kronk Street, MAIDEN GULLY, VICTORIA, 3551,	Historical deposit of mine tailings, Requires ongoing management	EAN-00001763-1
Greater Bendigo City	MAIDEN GULLY	Lot 4, 94 Kronk Street, MAIDEN GULLY, Victoria, 3551, Australia	Historical deposit of mine tailings, Requires ongoing management	EAN-00001762-1
Greater Bendigo City	Maiden Gully	Lot 1, 2 Coleman Close, Maiden Gully, Victoria, 3551, Australia	Historical deposit of mine tailings, Requires ongoing management	EAN-00001760-2
Greater Bendigo City Council	HUNTI Y	29 CAFLUS RD	Current Industrial Site, Requires assessment and/or clean up.	0090007149
Greater Bendigo City Council	BENDIGO		Contaminated soil is retained and managed onsite. Requires	0090010745
Greater Bendigo City Council	BENDICO	Crown Alletment 4225 Section 5 Derich of Sendhurst Bendian	Containinated soil is retained and managed onsite. Requires	0090010743
Greater Bendigo City Council	BENDIGO	Crown Allotment 432E, Section E Parish of Sandhurst, Bendigo	Former Landfill. Requires ongoing management.	0090011434
Creater Dandanang City	Dandanang Sauth	21.22 Elliott Dood Doodonoog South 2175	Current industrial site Requires assessment and/or alege up	EAN 00002000
Greater Dandenong City	Dandenong South	21-23 Elliott Road Dahuenong South 3175	Current industrial site, Requires assessment and/or clean up	EAN-00002999
Greater Dandenong City	Springvale	917 Princes Highway Springvale 3171	Former Industrial Site, Requires assessment and/or clean up	EAN-00002109-1
On the Devidence Official or it			Francisco de 1611. De maiore en maiore en maiore en marte	000000000
Greater Dandenong City Council	SPRINGVALE SOUTH	81 - 143 CLARKE RD	Former Landfill. Requires ongoing management.	009000608
Greater Dandenong City Council	SPRINGVALE SOUTH	81 - 143 CLARKE RD	Former Landfill. Requires ongoing management.	0090003693
Greater Dandenong City Council	DANDENONG SOUTH	185 Dandenong-Hastings RD	Former Landfill. Requires ongoing management.	0090004214
Greater Dandenong City Council	DANDENONG SOUTH	Greens Road GREENS RD	Current waste water treatment plant. Requires ongoing	0090006097
Greater Dandenong City Council	Bangholme	Cnr Thompson Road and Worsley Road	Current Industrial Site. Requires ongoing management.	0090007162
Greater Geelong City	Corio	232-244 Princes Highway Corio 3214	Former petroleum storage site Requires ongoing management	EAN-00002724
Greater Geology City	Corio	83b Purnell Road Corio 3214	Current Service Station Requires engoing management	EAN-00002520
Creater Ceclerer Off	Norlana	20.22 Dirduood Augure Nortene Misterie 2014 Augt "		
Greater Geelong City	Noriane	20-32 Birawood Avenue, Noriane, Victoria, 3214, Australia	Accidental spill/leak (non-industrial site),Requires ongoing	EAN-00001576-1
Greater Geelong City	Geelong West	34-38 Gordon Avenue Geelong West 3218	Former Industrial Site, Requires ongoing management	EAN-00003327-1
Greater Geelong City Council	NORLANE	60 - 80 NORTH SHORE RD	Current Industrial Site. Requires assessment and/or clean up.	0090004132
Greater Geelong City Council	CORIO	1500 - 1580 BIDDLECOMBE AV	Former Landfill. Requires ongoing management.	0090004271
Greater Geelong City Council	Belmont	180 - 182 Barwon Heads RD	Former Service Station. Requires ongoing management.	0090009781
Greater Geelong City Council	CORIO	246 - 258 Princes HWY	Former petroleum storage site. Requires ongoing management	0090011207
Greater Geelong City Council	NORTH GEELONG	343 - 363 MELBOURNE RD	Former Industrial Site Requires ongoing management	0090011433
Greater Geolong City Council		25 27 Shannon AV	Former Service Station, Requires engoing management	0000011400
				0090011003
Greater Shepparton City	Shepparton North	280 Daldy Road Shepparton North 3631	Current industrial site, Requires assessment and/or clean up	EAN-00002482
Greater Shepparton City Council	COSGROVE	205 COSGROVE-LEMNOS RD	Former Landfill. Requires ongoing management.	0090006807
Greater Shepparton City Council	SHEPPARTON EAST	35 SWAINSTON RD	Current chemical storage facility. Requires assessment and/or	0090009938
Greater Shepparton City Council	3200	CA 2108 CA 2006	Former Landfill. Requires ongoing management.	0090012021
Greater Shepparton City Council	COSGROVE	200 COSGROVE-LEMNOS RD	Former Landfill, Requires ongoing management.	0090012246
Henburn Shire	Hepburn	Henburn Regional Park Bald Hill Rd Henburn Victoria 3461	Historical deposit of mine tailings Requires assessment and/or	FAN-00003192
Hepburn Shire Council	CRESWICK	C/A45a Spartian 48A Tourship of Croowiek Darish of Croowiek	Former Londfill Dequires engeing menogement	CAN 00003132
	CRESWICK	C/A45a Section 46A Township of Creswick Parish of Creswick	Former Landnin. Requires origoing management.	0090006699
Hobsons Bay City	Newport	438 Melbourne Road Newport 3015	Current Service Station, Requires assessment and/or clean up	EAN-00002977
Hobsons Bay City	Altona Meadows	306-316 Queen Street, Altona Meadows, Victoria, 3028, Australia	Current Service Station, Requires ongoing management	EAN-00002117
Hobsons Bay City	Altona North	40/42 McArthurs Road, Altona North, Victoria, 3025, Australia	Former Industrial Site.Requires assessment and/or clean up	EAN-00002226
Hobsons Bay City	Altona	521-537 Kororoit Creek Road Altona 3018	Former chemical storage facility Requires assessment and/or	EAN-00003139
Hebeene Bay City	Altona	474 512 Kororait Crook Dd Altono VIC 2018 All	Current industrial site Dequires assessment and/or slean up	EAN 00003155
Hobsons Bay City	Altona	471 - 513 Kororoit Creek Rd Altona VIC 3018 AU	Current industrial site, Requires assessment and/or clean up	EAIN-00002159
	550010301			
Hobsons Bay City Council	BROOKLYN	Hardie RD	Former Landfill. Requires ongoing management.	0090003487
Hobsons Bay City Council	BROOKLYN	Hardie RD	Former Landfill. Requires ongoing management.	0090003487
Hobsons Bay City Council Hobsons Bay City Council	BROOKLYN ALTONA NORTH	Hardie RD 40 - 68 KYLE RD	Former Landfill. Requires ongoing management.	0090003487 0090003527
Hobsons Bay City Council Hobsons Bay City Council Hobsons Bay City Council	BROOKLYN ALTONA NORTH YARRAVILLE	Hardie RD 40 - 68 KYLE RD 29 FRANCIS STREET	Former Landfill. Requires ongoing management. Former Landfill. Requires ongoing management. Current petroleum storage site. Requires ongoing management.	0090003487 0090003527 0090007570
Hobsons Bay City Council Hobsons Bay City Council Hobsons Bay City Council Hobsons Bay City Council	BROOKLYN ALTONA NORTH YARRAVILLE ALTONA	Hardie RD 40 - 68 KYLE RD 29 FRANCIS STREET 351 - 381 MILLERS RD	Former Landfill. Requires ongoing management. Former Landfill. Requires ongoing management. Current petroleum storage site. Requires ongoing management. Current petroleum storage site. Requires ongoing management.	0090003487 0090003527 0090007570 0090008552
Hobsons Bay City Council Hobsons Bay City Council Hobsons Bay City Council Hobsons Bay City Council Hobsons Bay City Council	BROOKLYN ALTONA NORTH YARRAVILLE ALTONA SPOTSWOOD	Hardie RD 40 - 68 KYLE RD 29 FRANCIS STREET 351 - 381 MILLERS RD 18 - 24 Drake ST	Former Landfill. Requires ongoing management. Former Landfill. Requires ongoing management. Current petroleum storage site. Requires ongoing management. Current petroleum storage site. Requires ongoing management. Former petroleum storage site. Requires assessment and/or clean	0090003487 0090003527 0090007570 0090008552 0090009763
Hobsons Bay City Council Hobsons Bay City Council Hobsons Bay City Council Hobsons Bay City Council Hobsons Bay City Council	BROOKLYN ALTONA NORTH YARRAVILLE ALTONA SPOTSWOOD	Hardie RD 40 - 68 KYLE RD 29 FRANCIS STREET 351 - 381 MILLERS RD 18 - 24 Drake ST	Former Landfill. Requires ongoing management. Former Landfill. Requires ongoing management. Current petroleum storage site. Requires ongoing management. Current petroleum storage site. Requires ongoing management. Former petroleum storage site. Requires assessment and/or clean up.	0090003487 0090003527 0090007570 0090008552 0090009763
Hobsons Bay City Council Hobsons Bay City Council Hobsons Bay City Council Hobsons Bay City Council Hobsons Bay City Council	BROOKLYN ALTONA NORTH YARRAVILLE ALTONA SPOTSWOOD ALTONA NORTH	Hardie RD 40 - 68 KYLE RD 29 FRANCIS STREET 351 - 381 MILLERS RD 18 - 24 Drake ST 49 - 53 MCARTHURS RD	Former Landfill. Requires ongoing management. Former Landfill. Requires ongoing management. Current petroleum storage site. Requires ongoing management. Current petroleum storage site. Requires ongoing management. Former petroleum storage site. Requires assessment and/or clean up. Current Industrial Site. Requires assessment and/or clean up.	0090003487 0090003527 0090007570 0090008552 0090009763 0090010214
Hobsons Bay City Council Hobsons Bay City Council	BROOKLYN ALTONA NORTH YARRAVILLE ALTONA SPOTSWOOD ALTONA NORTH	Hardie RD 40 - 68 KYLE RD 29 FRANCIS STREET 351 - 381 MILLERS RD 18 - 24 Drake ST 49 - 53 MCARTHURS RD	Former Landfill. Requires ongoing management. Former Landfill. Requires ongoing management. Current petroleum storage site. Requires ongoing management. Current petroleum storage site. Requires ongoing management. Former petroleum storage site. Requires assessment and/or clean up. Current Industrial Site. Requires assessment and/or clean up.	0090003487 0090003527 0090007570 0090008552 0090009763 0090010214
Hobsons Bay City Council Hobsons Bay City Council	BROOKLYN ALTONA NORTH YARRAVILLE ALTONA SPOTSWOOD ALTONA NORTH ALTONA NORTH	Hardie RD 40 - 68 KYLE RD 29 FRANCIS STREET 351 - 381 MILLERS RD 18 - 24 Drake ST 49 - 53 MCARTHURS RD 40 - 68 KYLE RD	Former Landfill. Requires ongoing management. Former Landfill. Requires ongoing management. Current petroleum storage site. Requires ongoing management. Current petroleum storage site. Requires ongoing management. Former petroleum storage site. Requires assessment and/or clean up. Current Industrial Site. Requires assessment and/or clean up. Former Landfill. Requires assessment and/or clean up.	0090003487 0090003527 0090007570 0090008552 0090009763 0090010214 0090010258
Hobsons Bay City Council Hobsons Bay City Council	BROOKLYN ALTONA NORTH YARRAVILLE ALTONA SPOTSWOOD ALTONA NORTH ALTONA NORTH SPOTSWOOD	Hardie RD 40 - 68 KYLE RD 29 FRANCIS STREET 351 - 381 MILLERS RD 18 - 24 Drake ST 49 - 53 MCARTHURS RD 40 - 68 KYLE RD 44 - 76 Simcock Avenue	Former Landfill. Requires ongoing management. Former Landfill. Requires ongoing management. Current petroleum storage site. Requires ongoing management. Current petroleum storage site. Requires assessment and/or clean up. Current Industrial Site. Requires assessment and/or clean up. Former Landfill. Requires assessment and/or clean up. Former petroleum storage site. Requires assessment and/or clean up.	0090003487 0090003527 0090007570 0090008552 0090009763 0090010214 0090010258 0090010294
Hobsons Bay City Council Hobsons Bay City Council	BROOKLYN ALTONA NORTH YARRAVILLE ALTONA SPOTSWOOD ALTONA NORTH SPOTSWOOD ALTONA	Hardie RD 40 - 68 KYLE RD 29 FRANCIS STREET 351 - 381 MILLERS RD 18 - 24 Drake ST 49 - 53 MCARTHURS RD 40 - 68 KYLE RD 44 - 76 Simcock Avenue 401 - 435 KOROROIT CREEK RD	Former Landfill. Requires ongoing management. Former Landfill. Requires ongoing management. Current petroleum storage site. Requires ongoing management. Current petroleum storage site. Requires assessment and/or clean up. Current Industrial Site. Requires assessment and/or clean up. Former Landfill. Requires assessment and/or clean up. Former petroleum storage site. Requires assessment and/or clean up.	0090003487 0090003527 0090007570 0090008552 0090009763 0090010214 0090010258 0090010294 0090010393
Hobsons Bay City Council Hobsons Bay City Council	BROOKLYN ALTONA NORTH YARRAVILLE ALTONA SPOTSWOOD ALTONA NORTH SPOTSWOOD ALTONA ALTONA	Hardie RD 40 - 68 KYLE RD 29 FRANCIS STREET 351 - 381 MILLERS RD 18 - 24 Drake ST 49 - 53 MCARTHURS RD 40 - 68 KYLE RD 44 - 76 Simcock Avenue 401 - 435 KOROROIT CREEK RD 541 - 583 Kororoit Creek RD	Former Landfill. Requires ongoing management. Former Landfill. Requires ongoing management. Current petroleum storage site. Requires ongoing management. Current petroleum storage site. Requires assessment and/or clean up. Current Industrial Site. Requires assessment and/or clean up. Former Landfill. Requires assessment and/or clean up. Former petroleum storage site. Requires assessment and/or clean up. Former petroleum storage site. Requires assessment and/or clean Current chemical storage facility. Requires assessment and/or clean Current chemical storage facility. Requires assessment and/or clean	0090003487 0090003527 0090007570 0090008552 0090009763 0090010214 0090010258 0090010294 0090010393
Hobsons Bay City Council Hobsons Bay City Council	BROOKLYN ALTONA NORTH YARRAVILLE ALTONA SPOTSWOOD ALTONA NORTH SPOTSWOOD ALTONA ALTONA	Hardie RD 40 - 68 KYLE RD 29 FRANCIS STREET 351 - 381 MILLERS RD 18 - 24 Drake ST 49 - 53 MCARTHURS RD 40 - 68 KYLE RD 44 - 76 Simcock Avenue 401 - 435 KOROROIT CREEK RD 541 - 583 Kororoit Creek RD Croue Allotmont 4D Sociar 5	Former Landfill. Requires ongoing management. Former Landfill. Requires ongoing management. Current petroleum storage site. Requires ongoing management. Current petroleum storage site. Requires assessment and/or clean up. Current Industrial Site. Requires assessment and/or clean up. Former Landfill. Requires assessment and/or clean up. Former petroleum storage site. Requires assessment and/or clean up. Former Landfill. Requires assessment and/or clean up. Former petroleum storage site. Requires assessment and/or clean Current chemical storage facility. Requires assessment and/or Former chemical storage facility. Requires assessment and/or Former landfill. Requires assessment and/or	0090003487 0090003527 0090007570 0090008552 0090009763 0090010214 0090010258 0090010294 0090010393 0090010493
Hobsons Bay City Council Hobsons Bay City Council	BROOKLYN ALTONA NORTH YARRAVILLE ALTONA SPOTSWOOD ALTONA NORTH SPOTSWOOD ALTONA ALTONA ALTONA	Hardie RD 40 - 68 KYLE RD 29 FRANCIS STREET 351 - 381 MILLERS RD 18 - 24 Drake ST 49 - 53 MCARTHURS RD 40 - 68 KYLE RD 44 - 76 Simcock Avenue 401 - 435 KOROROIT CREEK RD 541 - 583 Kororoit Creek RD Crown Allotment 4D Section 5	Former Landfill. Requires ongoing management. Former Landfill. Requires ongoing management. Current petroleum storage site. Requires ongoing management. Current petroleum storage site. Requires assessment and/or clean up. Current Industrial Site. Requires assessment and/or clean up. Former Landfill. Requires assessment and/or clean up. Former petroleum storage site. Requires assessment and/or clean up. Former Landfill. Requires assessment and/or clean up. Former petroleum storage site. Requires assessment and/or clean Current chemical storage facility. Requires ongoing management. Former chemical storage facility. Requires assessment and/or Former Landfill. Requires ongoing management.	0090003487 0090003527 0090007570 0090008552 0090009763 0090010214 0090010258 0090010294 0090010393 0090010493 0090011493
Hobsons Bay City Council Hobsons Bay City Council	BROOKLYN ALTONA NORTH YARRAVILLE ALTONA SPOTSWOOD ALTONA NORTH SPOTSWOOD ALTONA ALTONA ALTONA ALTONA NEWPORT	Hardie RD 40 - 68 KYLE RD 29 FRANCIS STREET 351 - 381 MILLERS RD 18 - 24 Drake ST 49 - 53 MCARTHURS RD 40 - 68 KYLE RD 44 - 76 Simcock Avenue 401 - 435 KOROROIT CREEK RD 541 - 583 Kororoit Creek RD Crown Allotment 4D Section 5 Underground Section Of Petroleum Pipelines That Run Under	Former Landfill. Requires ongoing management. Former Landfill. Requires ongoing management. Current petroleum storage site. Requires ongoing management. Current petroleum storage site. Requires assessment and/or clean up. Current Industrial Site. Requires assessment and/or clean up. Former Landfill. Requires assessment and/or clean up. Former petroleum storage site. Requires assessment and/or clean Current clean up. Former petroleum storage site. Requires assessment and/or clean Current chemical storage facility. Requires ongoing management. Former chemical storage facility. Requires assessment and/or Former Landfill. Requires ongoing management. Accidental spill/leak (non-industrial site). Requires ongoing	0090003487 0090003527 0090007570 0090008552 0090009763 0090010214 0090010258 0090010294 0090010393 0090010493 0090011094 0090011365
Hobsons Bay City Council Hobsons Bay City Council	BROOKLYN ALTONA NORTH YARRAVILLE ALTONA SPOTSWOOD ALTONA NORTH ALTONA NORTH SPOTSWOOD ALTONA ALTONA ALTONA NEWPORT	Hardie RD 40 - 68 KYLE RD 29 FRANCIS STREET 351 - 381 MILLERS RD 18 - 24 Drake ST 49 - 53 MCARTHURS RD 40 - 68 KYLE RD 44 - 76 Simcock Avenue 401 - 435 KOROROIT CREEK RD 541 - 583 Kororoit Creek RD Crown Allotment 4D Section 5 Underground Section Of Petroleum Pipelines That Run Under Champion Rd 400 MSL RD	Former Landfill. Requires ongoing management. Former Landfill. Requires ongoing management. Current petroleum storage site. Requires ongoing management. Current petroleum storage site. Requires assessment and/or clean up. Current Industrial Site. Requires assessment and/or clean up. Former Landfill. Requires assessment and/or clean up. Former petroleum storage site. Requires assessment and/or clean current clean istorage site. Requires assessment and/or clean Current chemical storage facility. Requires assessment and/or clean Current chemical storage facility. Requires assessment and/or Former Landfill. Requires ongoing management. Accidental spill/leak (non-industrial site). Requires ongoing management.	0090003487 0090003527 0090007570 0090008552 0090009763 0090010214 0090010258 0090010294 0090010393 0090010493 0090011094 0090011365
Hobsons Bay City Council Hobsons Bay City Council	BROOKLYN ALTONA NORTH YARRAVILLE ALTONA SPOTSWOOD ALTONA NORTH ALTONA NORTH SPOTSWOOD ALTONA ALTONA ALTONA ALTONA NEWPORT	Hardie RD 40 - 68 KYLE RD 29 FRANCIS STREET 351 - 381 MILLERS RD 18 - 24 Drake ST 49 - 53 MCARTHURS RD 40 - 68 KYLE RD 44 - 76 Simcock Avenue 401 - 435 KOROROIT CREEK RD 541 - 583 Kororoit Creek RD Crown Allotment 4D Section 5 Underground Section Of Petroleum Pipelines That Run Under Champion Rd 438 MELBOURNE RD	Former Landfill. Requires ongoing management. Former Landfill. Requires ongoing management. Current petroleum storage site. Requires ongoing management. Current petroleum storage site. Requires assessment and/or clean up. Current Industrial Site. Requires assessment and/or clean up. Former Landfill. Requires assessment and/or clean up. Former petroleum storage site. Requires assessment and/or clean current chemical storage facility. Requires assessment and/or clean Current chemical storage facility. Requires assessment and/or Former chemical storage facility. Requires assessment and/or Former Landfill. Requires ongoing management. Accidental spill/leak (non-industrial site). Requires ongoing management. Current Service Station. Requires assessment and/or clean up.	0090003487 0090003527 0090007570 0090008552 0090009763 0090010214 0090010258 0090010294 0090010393 0090010493 0090011094 0090011365 0090011660
Hobsons Bay City Council Hobsons Bay City Council	BROOKLYN ALTONA NORTH YARRAVILLE ALTONA SPOTSWOOD ALTONA NORTH SPOTSWOOD ALTONA ALTONA ALTONA ALTONA ALTONA NEWPORT NEWPORT Longerenong	Hardie RD 40 - 68 KYLE RD 29 FRANCIS STREET 351 - 381 MILLERS RD 18 - 24 Drake ST 49 - 53 MCARTHURS RD 40 - 68 KYLE RD 44 - 76 Simcock Avenue 401 - 435 KOROROIT CREEK RD 541 - 583 Kororoit Creek RD Crown Allotment 4D Section 5 Underground Section Of Petroleum Pipelines That Run Under Champion Rd 438 MELBOURNE RD Corner of West and Centre Roads	Former Landfill. Requires ongoing management. Former Landfill. Requires ongoing management. Current petroleum storage site. Requires ongoing management. Current petroleum storage site. Requires ongoing management. Former petroleum storage site. Requires assessment and/or clean up. Current Industrial Site. Requires assessment and/or clean up. Former Landfill. Requires assessment and/or clean up. Former petroleum storage site. Requires assessment and/or clean Current chemical storage facility. Requires ongoing management. Former chemical storage facility. Requires assessment and/or Former Landfill. Requires ongoing management. Accidental spill/leak (non-industrial site). Requires ongoing management. Current Industrial Site. Requires assessment and/or clean up.	0090003487 0090003527 0090007570 0090008552 0090009763 0090010214 0090010258 0090010294 0090010393 0090010493 0090011094 0090011365 0090011660 0090007170
Hobsons Bay City Council Hobsons Bay City Council Hosham Rural City Council	BROOKLYN ALTONA NORTH YARRAVILLE ALTONA SPOTSWOOD ALTONA NORTH SPOTSWOOD ALTONA NORTH SPOTSWOOD ALTONA ALTONA ALTONA NEWPORT NEWPORT Longerenong Horsham	Hardie RD40 - 68 KYLE RD29 FRANCIS STREET351 - 381 MILLERS RD18 - 24 Drake ST49 - 53 MCARTHURS RD40 - 68 KYLE RD44 - 76 Simcock Avenue401 - 435 KOROROIT CREEK RD541 - 583 Kororoit Creek RDCrown Allotment 4D Section 5Underground Section Of Petroleum Pipelines That Run UnderChampion Rd438 MELBOURNE RDCorner of West and Centre RoadsLot 1 TP894637 Parish of Horsham	Former Landfill. Requires ongoing management. Former Landfill. Requires ongoing management. Current petroleum storage site. Requires ongoing management. Current petroleum storage site. Requires assessment and/or clean up. Current Industrial Site. Requires assessment and/or clean up. Former Landfill. Requires assessment and/or clean up. Former petroleum storage site. Requires assessment and/or clean current chemical storage facility. Requires assessment and/or clean Current chemical storage facility. Requires assessment and/or Former chemical storage facility. Requires assessment and/or Former Landfill. Requires ongoing management. Accidental spill/leak (non-industrial site). Requires ongoing management. Current Industrial Site. Requires assessment and/or clean up. Former petroleum storage site. Requires assessment and/or clean up. Former petroleum storage site. Requires assessment and/or clean up. Current Industrial Site. Requires assessment and/or clean up. Former petroleum storage site. Requires assessment and/or clean up.	0090003487 0090003527 0090007570 0090008552 0090009763 0090010214 0090010258 0090010294 0090010393 0090010493 0090011094 0090011365 00900011660 0090007170 0090009145
Hobsons Bay City Council Hobsons Bay City Council	BROOKLYN ALTONA NORTH YARRAVILLE ALTONA SPOTSWOOD ALTONA NORTH ALTONA NORTH SPOTSWOOD ALTONA ALTONA ALTONA ALTONA NEWPORT NEWPORT Longerenong Horsham	Hardie RD 40 - 68 KYLE RD 29 FRANCIS STREET 351 - 381 MILLERS RD 18 - 24 Drake ST 49 - 53 MCARTHURS RD 40 - 68 KYLE RD 44 - 76 Simcock Avenue 401 - 435 KOROROIT CREEK RD 541 - 583 Kororoit Creek RD Crown Allotment 4D Section 5 Underground Section Of Petroleum Pipelines That Run Under Champion Rd 438 MELBOURNE RD Corner of West and Centre Roads Lot 1 TP894637 Parish of Horsham	Former Landfill. Requires ongoing management. Former Landfill. Requires ongoing management. Current petroleum storage site. Requires ongoing management. Current petroleum storage site. Requires assessment and/or clean up. Current Industrial Site. Requires assessment and/or clean up. Former Landfill. Requires assessment and/or clean up. Former petroleum storage site. Requires assessment and/or clean Current chemical storage facility. Requires ongoing management. Former chemical storage facility. Requires assessment and/or clean Current chemical storage facility. Requires assessment and/or Former Landfill. Requires ongoing management. Accidental spill/leak (non-industrial site). Requires ongoing management. Current Industrial Site. Requires assessment and/or clean up. Former petroleum storage site. Requires assessment and/or clean up. Current Industrial Site. Requires assessment and/or clean up.	0090003487 0090003527 0090007570 0090008552 0090009763 0090010214 0090010258 0090010294 0090010393 0090010493 0090011094 0090011365 0090011660 0090007170 0090009145
Hobsons Bay City Council Hobsons Bay City Council Horsham Rural City Council Hume City	BROOKLYN ALTONA NORTH YARRAVILLE ALTONA SPOTSWOOD ALTONA NORTH ALTONA NORTH SPOTSWOOD ALTONA ALTONA ALTONA ALTONA NEWPORT Longerenong Horsham Sunbury	Hardie RD40 - 68 KYLE RD29 FRANCIS STREET351 - 381 MILLERS RD18 - 24 Drake ST49 - 53 MCARTHURS RD40 - 68 KYLE RD44 - 76 Simcock Avenue401 - 435 KOROROIT CREEK RD541 - 583 Kororoit Creek RDCrown Allotment 4D Section 5Underground Section Of Petroleum Pipelines That Run UnderChampion Rd438 MELBOURNE RDCorner of West and Centre RoadsLot 1 TP894637 Parish of Horsham53 55 Horne St, Sunbury, Victoria, 3429	Former Landfill. Requires ongoing management. Former Landfill. Requires ongoing management. Current petroleum storage site. Requires ongoing management. Current petroleum storage site. Requires assessment and/or clean up. Current Industrial Site. Requires assessment and/or clean up. Former Landfill. Requires assessment and/or clean up. Former petroleum storage site. Requires assessment and/or clean Current chemical storage facility. Requires ongoing management. Former chemical storage facility. Requires assessment and/or Former Landfill. Requires ongoing management. Accidental spill/leak (non-industrial site). Requires ongoing management. Current Industrial Site. Requires assessment and/or clean up. Former petroleum storage site. Requires assessment and/or clean up. Former Landfill. Requires ongoing management. Accidental spill/leak (non-industrial site). Requires ongoing management. Current Industrial Site. Requires assessment and/or clean up. Former petroleum storage site. Requires assessment and/or clean up. Current Industrial Site. Requires assessment and/or clean up. Former petroleum storage site. Requires assessment and/or clean up. Current Service Station, Requires ongoing management Current Service Station, Requires ongoing management	0090003487 0090003527 0090007570 0090008552 0090009763 0090010214 0090010258 0090010294 0090010393 0090010493 0090011094 0090011365 0090011660 0090007170 0090009145 EAN-00002935
Hobsons Bay City Council Hobsons Bay City Council Horsham Rural City Council Hume City Hume City	BROOKLYN ALTONA NORTH YARRAVILLE ALTONA SPOTSWOOD ALTONA NORTH ALTONA NORTH SPOTSWOOD ALTONA ALTONA ALTONA ALTONA NEWPORT Longerenong Horsham Sunbury Melbourne Airport	Hardie RD40 - 68 KYLE RD29 FRANCIS STREET351 - 381 MILLERS RD18 - 24 Drake ST49 - 53 MCARTHURS RD40 - 68 KYLE RD44 - 76 Simcock Avenue401 - 435 KOROROIT CREEK RD541 - 583 Kororoit Creek RDCrown Allotment 4D Section 5Underground Section Of Petroleum Pipelines That Run UnderChampion Rd438 MELBOURNE RDCorner of West and Centre RoadsLot 1 TP894637 Parish of Horsham53 55 Horne St, Sunbury, Victoria, 3429206-300 Western Avenue Melbourne Airport 3045	Former Landfill. Requires ongoing management. Former Landfill. Requires ongoing management. Current petroleum storage site. Requires ongoing management. Current petroleum storage site. Requires assessment and/or clean up. Current Industrial Site. Requires assessment and/or clean up. Former Landfill. Requires assessment and/or clean up. Former petroleum storage site. Requires assessment and/or clean Current chemical storage facility. Requires assessment and/or clean Current chemical storage facility. Requires assessment and/or Former Landfill. Requires ongoing management. Former chemical storage facility. Requires assessment and/or Former Landfill. Requires ongoing management. Accidental spill/leak (non-industrial site). Requires ongoing management. Current Industrial Site. Requires assessment and/or clean up. Current Industrial Site. Requires assessment and/or clean up. Current Service Station. Requires assessment and/or clean up. Former petroleum storage site. Requires assessment and/or clean up. Current Service Station, Requires ongoing management Former Landfill, Requires ongoing management Former petroleum storage site. Requires assessment and/or clean up. Former petroleum storage site. Requires assessment and/or clean up. Former petroleum storage site. Requires assessment and/or clean up. Current Service Station, Requires ongoing management Former Landfill, Requires ongoing management	0090003487 0090003527 0090007570 0090008552 0090009763 0090010214 0090010258 0090010294 0090010393 0090010493 0090011094 0090011365 0090011660 0090007170 0090009145 EAN-00002935 EAN-00002084
Hobsons Bay City Council Hobsons Bay City Council Horsham Rural City Council Hume City Hume City Hume City	BROOKLYN ALTONA NORTH YARRAVILLE ALTONA SPOTSWOOD ALTONA NORTH ALTONA NORTH SPOTSWOOD ALTONA ALTONA ALTONA ALTONA NEWPORT Longerenong Horsham Sunbury Melbourne Airport Somerton	Hardie RD40 - 68 KYLE RD29 FRANCIS STREET351 - 381 MILLERS RD18 - 24 Drake ST49 - 53 MCARTHURS RD40 - 68 KYLE RD44 - 76 Simcock Avenue401 - 435 KOROROIT CREEK RD541 - 583 Kororoit Creek RDCrown Allotment 4D Section 5Underground Section Of Petroleum Pipelines That Run UnderChampion Rd438 MELBOURNE RDCorner of West and Centre RoadsLot 1 TP894637 Parish of Horsham53 55 Horne St, Sunbury, Victoria, 3429206-300 Western Avenue Melbourne Airport 304570 Cliffords Road Somerton 3062	Former Landfill. Requires ongoing management. Former Landfill. Requires ongoing management. Current petroleum storage site. Requires ongoing management. Current petroleum storage site. Requires assessment and/or clean up. Current Industrial Site. Requires assessment and/or clean up. Former Landfill. Requires assessment and/or clean up. Former petroleum storage site. Requires assessment and/or clean Current chemical storage facility. Requires ongoing management. Former chemical storage facility. Requires assessment and/or clean Current chemical storage facility. Requires ongoing management. Former Landfill. Requires ongoing management. Accidental spill/leak (non-industrial site). Requires ongoing management. Current Industrial Site. Requires assessment and/or clean up. Current Service Station. Requires assessment and/or clean up. Former petroleum storage site. Requires assessment and/or clean up. Current Industrial Site. Requires assessment and/or clean up. Current Industrial Site. Requires assessment and/or clean up. Former petroleum storage site. Requires assessment and/or clean up. Current Industrial Site. Requires ongoing management Former Landfill,Requires ongoing management Former Landfill,Requires ongoing management Former Landfill,Requires ongoing management Former Industrial Site,Requires assessment and/or clean up.	0090003487 0090003527 0090007570 0090008552 0090009763 0090010214 0090010258 0090010294 0090010393 0090010493 0090011094 0090011365 0090011660 0090007170 0090009145 EAN-00002935 EAN-00002084 EAN-00003588
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Hobsons Bay City Council Hobsons Bay City Council Horsham Rural City Council Horsham Rural City Council Hume City Hume City Hume City Hume City Council Hume City Council	BROOKLYN ALTONA NORTH YARRAVILLE ALTONA SPOTSWOOD ALTONA NORTH ALTONA NORTH SPOTSWOOD ALTONA ALTONA ALTONA ALTONA ALTONA ALTONA NEWPORT Longerenong Horsham Sunbury Melbourne Airport Somerton BULLA CRAIGIEBURN CAMPBELLFIELD CAMPBELLFIELD CAMPBELLFIELD DIGGERS REST Greenvale KEILOR COOLAROO CAMPBELLFIELD	Hardie RD 40 - 68 KYLE RD 29 FRANCIS STREET 351 - 381 MILLERS RD 18 - 24 Drake ST 49 - 53 MCARTHURS RD 40 - 68 KYLE RD 44 - 76 Simcock Avenue 401 - 435 KOROROIT CREEK RD 541 - 583 Kororoit Creek RD Crown Allotment 4D Section 5 Underground Section Of Petroleum Pipelines That Run Under Champion Rd 438 MELBOURNE RD Comer of West and Centre Roads Lot 1 TP894637 Parish of Horsham 53 55 Horne St, Sunbury, Victoria, 3429 206-300 Western Avenue Melbourne Airport 3045 70 Cliffords Road Somerton 3062 315 Loemans RD PART OF LOT 5, LP 4443 CRAIGIEBURN RD MAHONEYS ROAD LANDFILL, A/PS521032G MAHONEYS ROADERR RD 1-71 & 2-70 BOLINDA RD 275 KONAGADERRA RD 1769 - 1775 SYDNEY RD 1735 Sydney RD 105 Nepean Highway Aspendale 3195 260-280 Chesterville Road Moorabbin 3189 422-424 South Boad Moorabbin 3189	Former Landfill. Requires ongoing management. Former Landfill. Requires ongoing management. Current petroleum storage site. Requires ongoing management. Former petroleum storage site. Requires assessment and/or clean up. Former Landfill. Requires assessment and/or clean up. Former Landfill. Requires assessment and/or clean up. Former chemical storage facility. Requires ongoing management. Former chemical storage facility. Requires assessment and/or Former chemical storage facility. Requires ongoing management. Accidental spill/leak (non-industrial site). Requires ongoing management. Current Service Station. Requires assessment and/or clean up. Former chemical storage site. Requires assessment and/or clean up. Former petroleum storage site. Requires assessment and/or clean up. Current Industrial Site. Requires assessment and/or clean up. Former petroleum storage site. Requires assessment and/or clean up. Former petroleum storage site. Requires assessment and/or clean up. Former petroleum storage site. Requires assessment and/or clean up. Former Industrial Site, Requires ongoing management Former Industrial Site, Requires ongoing management Former Landfill, Requires ongoing management Former Landfill. Requires ongoing management. Former Landfill. Require	0090003487 0090003527 0090007570 0090008552 0090010214 0090010258 0090010294 0090010393 0090010393 0090010493 0090011094 0090011365 0090011365 009000145 EAN-00002935 EAN-00002084 EAN-00002084 EAN-00003495 009000177 0090003495 0090003495 0090003495 0090003495 0090003495 0090003495 0090007550 0090007757 0090007798 0090007798 0090007757 0090007798 0090007798 0090007757 0090007550 0090007757 0090007550 0090007550 0090011183 0090011586 0090012576 0090012576 0090012577 EAN-00001717-1 EAN-00001644-1

PRIORITY SITES REGISTER

Information as at 15 November 2022

Kingston City Council	MOORABBIN	1 10 Ebden ST	Former Industrial Site. Requires ongoing management.	0090002273
Kingston City Council	CLARINDA	176 - 184 ELDER ST	Former Landfill. Requires ongoing management.	0090003610
Kingston City Council	CLAYTON SOUTH	Cnr Deals RD & Heatherton RD	Former Landfill. Requires ongoing management.	0090006972
Kingston City Council	CLAYTON SOUTH	654 - 718 CLAYTON RD	Former Landfill. Requires ongoing management.	0090007014
Kingston City Council	OAKLEIGH SOUTH	19-71 CARROLL RD	Former Landfill. Requires ongoing management.	0090007021
Kingston City Council	CLAYTON SOUTH	Cnr Clayton & Ryans RDS	Former Landfill, Requires ongoing management	0090007125
Kingston City Council	Dingley Village	Spring Road & Rowan Road DINGLEY VILLAGE VIC 3172	Former Landfill. Requires ongoing management.	0090007189
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Kingston City Council	DINGLEY	370 - 418 Old Dandenong RD	Former Landfill. Requires ongoing management.	0090008100
Kingston City Council	CLAYTON SOUTH	FRASER RD	Former Landfill. Requires ongoing management.	0090008726
Kingston City Council	CLAYTON SOUTH	623-633 HEATHERTON ROAD, CLAYTON SOUTH VIC 3169	Former Landfill. Requires ongoing management.	0090008747
Kingston City Council		Crip Hanry Street and Old Dandanang Daad	Former Londfill Dequires engeing menogement	00000000000
Kingston City Council	HEATHERTON	Cin Henry Street and Old Dandenong Road	Former Landmir. Requires ongoing management.	0090006924
Kingston City Council	CLAYTON SOUTH	RYANS and DEALS RD	Former Landfill. Requires ongoing management.	0090009103
Kingston City Council	CLARINDA	46 VICTORY RD	Former Landfill. Requires ongoing management.	0090009835
Kingston City Council	CLAYTON SOUTH	Cnr Clayton Road & Ryans Road	Former Landfill. Requires ongoing management.	0090010512
Kingston City Council	CLAYTON SOUTH	Cnr Deals RD & Heatherton RD	Former Landfill. Requires ongoing management.	0090011753
Kingston City Council	CLAYTON SOUTH	FRASER RD	Former Landfill. Requires ongoing management.	0090011754
Kingston City Council	CLAYTON SOUTH	RYANS and DEALS RD	Former Landfill. Requires ongoing management.	0090011755
Kingston City Council	CLARINDA	46 VICTORY RD	Former Landfill. Requires ongoing management.	0090011756
Kingston City Council	HEATHERTON	16 BALL ROAD	Former Landfill. Requires ongoing management.	0090012101
Knox City	Bayswater	836 Mountain Hwy Bayswater, Melbourne, Victoria, 3153	Former Industrial Site Requires ongoing management	EAN-00002217
i liox only	Dayonator			
Knox City	Ferntree Gully	47 Forest Road Ferntree Gully 3156	Current petroleum storage site, Requires ongoing management	EAN-00003074
Knox City Council	WANTIRNA SOUTH	1180 HIGH STREET RD 251 GEORGE ST	Former Landfill. Requires ongoing management.	0090006480
Knox City Council	WANTIRNA SOUTH	14 COPPELIA ST	Former Landfill. Requires ongoing management.	0090007017
Latrobe City	Traralgon	115 Princes Street, Traralgon, Victoria, 3844, Australia	Current Service Station, Requires assessment and/or clean up	EAN-00001444
Latrobe City	Hazelwood	Brodribb Rd Hazelwood VIC 3840 AU	Former Industrial Site, Requires assessment and/or clean up	EAN-00002227
Latrobe City	Hazelwood	Brodribb Rd Hazelwood VIC 3840 ALL	Former Industrial Site Requires assessment and/or alean up	FAN-0002228
Latrobe City	Hazelwood	Brodribb Rd Hazelwood VIC 3840 AU	Former Industrial Site Requires assessment and/or clean up	EAN-00002220
Latrobe City	Hazelwood	Brodribb Rd Hazelwood VIC 3840 AU	Former Industrial Site.Requires assessment and/or clean up	EAN-00002220
Latrobe City	Hazelwood	Brodribb Rd Hazelwood VIC 3840 AU	Former Industrial Site,Requires assessment and/or clean up	EAN-00002231
Latrobe City	Hazelwood	Brodribb Rd Hazelwood VIC 3840 AU	Former Industrial Site, Requires assessment and/or clean up	EAN-00002232
Latrobe City	Hazelwood	Brodribb Rd Hazelwood VIC 3840 AU	Former Industrial Site, Requires assessment and/or clean up	EAN-00002233
Latrobe City	Hazelwood	Brodribb Rd Hazelwood VIC 3840 AU	Former Industrial Site, Requires assessment and/or clean up	EAN-00002234
Latrobe City	Morwell	412 Commercial Road Morwell 3840	Former Industrial Site, Requires assessment and/or clean up	EAN-00002237
Macedon Ranges Shire	KYNETON	2 Piper Street, KYNETON, Victoria, 3444, Australia	Former Service Station, Requires assessment and/or clean up	EAN-00002360
Macedon Ranges Shire Council	LANCEFIELD	Baynton (Lot 16 LP208950) RD	Former Landfill. Requires ongoing management.	0090005294
Macedon Ranges Shire Council	KYNETON	Redesdale (Lot 24D\PP2979) RD	Former Landfill. Requires ongoing management.	0090006370
Macedon Ranges Shire Council	BULLENGAROOK	531 Hobbs RD	Former Landfill. Requires ongoing management.	0090006708
Macedon Ranges Shire Council	DARRAWEIT GUIM	Lot 8 Heaths Lane HEATHS LANE	Industrial waste has been dumped at the site. Requires	0090011265
Macedon Ranges Shire Council	GISBORNE	9 STATION RD	Current Service Station. Requires ongoing management.	0090012211
Manningham City	Doncaster	330 Manningham Road, Doncaster, Victoria, 3108, Australia	Industrial waste has been dumped at the site, Requires	EAN-00003525
Manningham City	Doncaster East	1100 Doncaster Road Doncaster East 3109	Current Service Station, Requires assessment and/or clean up	EAN-00002043-1
Mansfield Shire Council	MANSFIELD	Monkey Gully RD	Former Landfill. Requires ongoing management.	0090007633
Maribyrnong City	Footscray	200 Whitehall Street Footscray 3011	Current industrial site,Requires assessment and/or clean up	EAN-00003098
Maribyrnong City	Yarraville	2a Francis Street Yarraville 3013	Former chemical storage facility, Requires assessment and/or	EAN-00003503
Maribyrnong City Council	YARRAVILLE	1 - 3 High ST	Former Industrial Site. Requires ongoing management.	009000134
Maribymong City Council	YARRAVILLE	221 Whitehall ST	Former Industrial Site. Requires ongoing management.	0090003331
Maribyrnong City Council	MAIDSTONE	9 - 15 WILLIAMSON RD	Former Industrial Site. Requires assessment and/or clean up.	0090003767
Maribyrnong City Council	WEST FOOTSCRAY	1 - 19 Graingers RD	Former chemical storage facility. Requires assessment and/or	0090006322
Maribyrnong City Council	YARRAVILLE	2A FRANCIS ST	Former Industrial Site. Requires assessment and/or clean up.	0090009551
Maribyrnong City Council	MAIDSTONE	9 - 15 WILLIAMSON RD	Former Industrial Site. Requires assessment and/or clean up.	0090009654
Maribyrnong City Council	BRAYBROOK	30 - 38 SOUTH RD	Former Industrial Site. Requires assessment and/or clean up.	0090010277
Maribyrnong City Council	TOTTENHAM	414 SOMERVILLE RD	Current Industrial Site. Requires assessment and/or clean up.	0090010850
Mariburpana City Coupail	VADDAV/ILLE		Former Industrial Site Requires accessment and/or clean up	0000011120
Maribymong City Council	ΤΟΤΤΕΝΗΔΜ	Lot 7 of Lot 3. 418 Somerville Road TOTTENHAM	Industrial waste has been dumped at the site Requires	0090011159
Maroondah City	Bayswater North	20-76 Canterbury Rd, Bayswater North, VIC, 3153, AU	Former Industrial Site Requires assessment and/or clean up	EAN-00002325
Melbourne City	Port Melbourne	224 - 260 Lorimer St Port Melbourne VIC 3207 AU	Current industrial site.Requires assessment and/or clean up	EAN-00001634
Melbourne City	Carlton	291 Nicholson Street, Carlton, Victoria, 3053, Australia	Current Service Station, Requires assessment and/or clean up	EAN-00001114-1
Melbourne City Council	PORT MELBOURNE	2 WEST GATE FWY	Current Service Station. Requires assessment and/or clean up.	0090007492
				000000
weidourne City Council	POKI MELBOURNE	I WEST GATE FWY	Current Service Station. Requires assessment and/or clean up.	0090007721
Melbourne City Council	CARLTON	46-78 Bouverie Street 185-195 Queensberrv Street	Former Industrial Site. Requires assessment and/or clean up	0090008725
Melbourne City Council	PORT MELBOURNE	Former GM HOLDEN LTD manufacturing site as defined in	Former Industrial Site. Requires assessment and/or clean up.	0090010610
		"Attachment A Premises map		
Melbourne City Council	CARLTON	46-78 Bouverie Street 185-195 Queensberry Street	Former chemical storage facility. Requires assessment and/or	0090011371
Melbourne City Council	CARLTON	46-78 Bouverie Street 185-195 Queensberry Street	Former Industrial Site. Requires assessment and/or clean up.	0090011833
Melton City	Ravenhall	714 Christies Rd Ravenhall VIC 3023 AU	Current landfill,Requires assessment and/or clean up	IMPN-00001574-1
Welton Shire Council			Solid inert waste has been dumped at the site. Requires	0090004440
Melton Shire Council	FLUMFTON	627 - 703 PLOWPTON RD	niegai dumping. Requires assessment and/or clean up.	0090004146
Melton Shire Council	COBBLEBANK	28 - 52 FERRIS RD	Former Landfill. Requires ongoing management.	0090005053
Melton Shire Council	COBBLEBANK	43 - 67 FERRIS RD	Industrial waste has been dumped at the site. Requires	0090008182
Melton Shire Council	COBBLEBANK	43 - 67 FERRIS RD	Solid inert waste has been dumped at the site. Requires	0090012106
Mildura Rural City	Mildura	Lots 1-3 and Lots 10-14, 211 Etiwanda Avenue, Mildura, Victoria,	Former Landfill, Requires ongoing management	IMPN-00002782
Mildura Rural City Council	KOORLONG	3500, Australia	Former Landfill Requires ongoing management	000005267
Mildura Rural City Council	MILDURA	220 - 222 TENTH ST	Current petroleum storage site. Requires ongoing management	0090012192
Children Caral Only Oburion			e short postoroun otorago otto. requires ongoing management.	0000012102
Mitchell Shire Council	SEYMOUR	Lot 1\TP41415 HUME AND HOVELL ROAD	Former Landfill. Requires ongoing management.	0090007542
Moira Shire Council	NUMURKAH	Parish Of Katunga C/a 14 Sect D Naring Rd	Former Landfill. Requires ongoing management.	0090007551
Moira Shire Council	YARRAWONGA	81 Channel RD	Former Landfill. Requires ongoing management.	0090008056
Monash City	Oakleigh South	1221-1249 Centre Road Oakleigh South 3167	Former Landfill, Requires ongoing management	EAN-00002879
Monash City	Glen Waverley	310-336 Springvale Rd Glen Waverley VIC 3150 AU	Current industrial site, Requires assessment and/or clean up	EAN-00002468-1
Monash City	Clayton	1555-1615 Centre Road Clayton 3168	Current industrial site, Requires assessment and/or clean up	EAN-00002378
Monash City Council	OAKLEIGH EAST	108 - 112 FERNTREE GULLY RD	Former Landfill. Requires ongoing management.	0090006175
Moorabool Shire	Fiskville	4549 Geelong-ballan Road Fickville 3342	Accidental spill/leak (non-industrial site) Requires opening	FAN-0001088
Moorabool Shire Council	MADDINGI FY	1 PS908919 Side Of Kerrs RD	Former Landfill. Requires ongoing management	0090003631
Moreland City	Fawkner	1126 Sydney Road Fawkner 3060	Current industrial site.Requires assessment and/or clean up	EAN-00001070-2
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PRIORITY SITES REGISTER

Information as at 15 November 2022

Moreland City	Pascoe Vale	41 Derby Street Pascoe Vale 3044	Accidental spill/leak (non-industrial site) Requires assessment	EAN-00003296
Moreland City		41 Derby Street Passes Vale 2044	A soldental spill/leak (non industrial site) Requires assessment	EAN 00002004
Moreland City	Pascoe vale	41 Derby Street Pascoe Vale 3044	Accidental spin/leak (non-industrial site), Requires assessment	EAN-00003294
Moreland City	Pascoe Vale	41 Derby Street Pascoe Vale 3044	Accidental spill/leak (non-industrial site),Requires assessment	EAN-00001672
Moreland City	Pascoe Vale	41 Derby Street Pascoe Vale 3044	Accidental spill/leak (non-industrial site), Requires assessment	EAN-00002298
			and/or clean up	
Moreland City	Pascoe Vale	41 Derby Street Pascoe Vale 3044	Accidental spill/leak (non-industrial site), Requires assessment	EAN-00001866
Moreland City	Pascoe Vale	41 Derby Street Pascoe Vale 3044	Accidental spill/leak (non-industrial site) Requires assessment	FAN-00003253
Moroland City Moroland City Council	RRUNSWICK	225 and 227 231 Barkly Street and 1 77 Amelia Street	Former Industrial Site, Pequires angoing management	000000110
	BRUNSWICK			0090009119
Moreland City Council	COBURG NOR TH	46 - 54 Newlands RD	Current Service Station. Requires ongoing management.	0090009742
Moreland City Council	Brunswick	Buildings 5 and 6 72-106 Dawson Street	Former Industrial Site. Requires assessment and/or clean up.	0090010613
Mornington Peninsula Shire	Red Hill	87 Arthurs Seat Rd, Red Hill, Victoria, 3937	Current petroleum storage site, Requires ongoing management	EAN-00003383
Mornington Peninsula Shire	CRIB POINT	2 Lens ST	Former Landfill, Requires ongoing management.	0090003619
Mornington Peninsula Shire	TVARR		Former Landfill Requires ongoing management	000007677
Monington Pennsua Shire				0090007077
Mornington Peninsula Shire	ROSEBUD WEST	119 Truemans RD	Former Landfill. Requires ongoing management.	0090010398
Mornington Peninsula Shire	MOUNT ELIZA	254-450 MOOROODUC HWY	Former Landfill. Requires ongoing management.	0090012008
Mornington Peninsula Shire	FINGAL	140 SPRINGS LANE	Industrial waste has been dumped at the site. Requires	0090012090
Movne Shire	Allansford	5331 Great Ocean Rd Allansford VIC 3277 AU	Current industrial site.Requires ongoing management	EAN-00003332
Moyne Shire Council		Badhams I ANE	Former Landfill Requires ongoing management	000003625
Nilly web its Obine Occurs it				0030003023
NIIIUMDIK Shire Council	YARRAMBAT	290 - 304 Yan Yean RD	Former Landfill. Requires ongoing management.	0090007767
Nillumbik Shire Council	KANGAROO GROUND	105 GRAHAM RD	Former Landfill. Requires ongoing management.	0090007781
Northern Grampians Shire	HORSHAM	8 HAMILTON ROAD & 52 HAMILTON ROAD	Current Industrial Site. Requires ongoing management.	0090010862
Northern Grampians Shire	Stawell	TSF2 .CA1 Sec5.CA4 Sec5. CA5 Sec5 CA6 Sec5. CA18V Sec2.	Current Industrial Site, Requires ongoing management.	0090011650
South Ginnsland Shire Council	FOSTER	4090 SOUTH GIPPSI AND HWY	Former Landfill Requires ongoing management	0090008734
Courte oppsiand Sille Courtell	Deschurgt			5050000754
Southern Grampians Shire	Pensnurst	14 Pensnurst-dunkeid Road Penshurst 3289	Former industrial Site,Requires ongoing management	EAN-00002835
Southern Grampians Shire	PENSHURST	14 PENSHURST-DUNKELD RD	Former Industrial Site. Requires assessment and/or clean up.	0090011560
Stonnington City Council	PRAHRAN	549 - 559 HIGH ST	Current Service Station. Requires ongoing management.	0090011652
Strathbogie Shire Council	VIOLET TOWN	190 Mcdiarmids RD	Former Landfill. Requires ongoing management.	0090008902
Surf Coast Shire	Mount Duneed	1170 Surf Coast Hwy Mount Duneed VIC 3217 AU	Contaminated soil is retained and managed onsite Requires	FAN-00002891
Surf Coast Shire	Anglesea	205 Coolmine Road Angleses 3230	Former Industrial Site Requires assessment and/or clean up	EAN-00003349
Sun Coast Shire	Aligiesea	205 Coamine Noad Anglesea 5250	i onnei muusinai Site, Requires assessment anu/or clean up	LAN-00003343
Swan Hill Dural City	Suren Hill	E 7 Heatings Street Super Hill 2595	Former Convine Station Dequires accomment and/or clean up	EAN 00002716
	Swan Hill	5-7 Hastings Street Swart Hill 3565	Former Service Station, Requires assessment and/or clean up	EAN-00002716
Warrnambool City Council	WARRNAMBOOL	Braithwaite ST	Former Landfill. Requires ongoing management.	0090007563
Wellington Shire	Sale	127-141 Foster Street Sale 3850	Current Service Station, Requires assessment and/or clean up	EAN-00001241
Wellington Shire	Sale	2-14 Mcmillan Street, Sale, Victoria, 3850, Australia	Former Industrial Site, Requires assessment and/or clean up	EAN-00001803-2
West Wimmera Shire Council	Kaniya	Crown Allotment 11 Parish of Beewar	Illegal dumping Requires assessment and/or clean up	0090010326
	Kunva		niegal admping. Requires assessment ana/or olean ap.	0000010020
Whiteborse City Council		14 Federation ST	Former Landfill Requires ongoing management	000003400
	Themesteur		Current industrial site Desuites assessment and/or clean up	
whittlesea City	Thomastown	51 High St Thomastown VIC 3074 AU	Current industrial site, Requires assessment and/or clean up	IMPIN-00001899-1
Whittlesea City Council	EPPING	480 COOPER STREET LOT 1 PS504515	Former Landfill. Requires ongoing management.	0090003490
Whittlesea City Council	EPPING	490 COOPER ST	Former Landfill. Requires ongoing management.	0090003502
Whittlesea City Council	EPPING	215 COOPER ST	Former Landfill. Requires ongoing management.	0090011696
Wodonga Rural City Council	WODONGA	3437 Beechworth-Wodonga RD	Former Landfill, Requires ongoing management.	0090003548
Wyndham City Council		490 EDGARS RD	Illegal dumping Requires assessment and/or clean up	0090004276
Wyhanam Oity Obunon			niegai dumping. Requires assessment and/or orean up.	000004270
Wyndham City Council		65 LEAKES DD	Current Industrial Site, Paguires assessment and/or clean up	000006045
wyndham City Council	LAVERTON NORTH	03 LEAKES RD	Current industrial Site. Requires assessment and/or clean up.	0090000945
M/wedbare City Courseil			Comment Industrial City, Description and sing menoperate	000000704
wyndnam City Council	LAVERTON NORTH	19 LITTLE BOUNDARY RD	Current industrial Site. Requires ongoing management.	0090008784
Wyndham City Council	WERRIBEE	470 Wests RD	Current landfill. Requires ongoing management.	0090010731
Wyndham City Council	WERRIBEE	470 Wests RD	Current landfill. Requires ongoing management.	0090011270
Wyndham City Council	WERRIBEE	470 Wests RD	Current landfill. Requires ongoing management.	0090011567
Wyndham City Council	LAVERTON NORTH	17 RAYMOND RD	Current Industrial Site. Requires assessment and/or clean up.	0090011831
Yarra City	Richmond	3-21 Kent St Richmond VIC 3121 AU	Former Industrial Site Requires ongoing management	FAN-00001064
Verre City Council	RICHMOND		Former Industrial Site, Dequires appagement and/or clean up	000000014
			i onner muusinar one. Requires assessment anu/or cleari up.	0090009044
Vorre City Coursel	Citarov North	422 Cmith St and 444 420 Outpans Dara to Elfert Marth	Former Industrial Site Deriving accessory of a damage	0000040040
		453 Smith St and TTT-139 Queens Parade Fitzroy North	Former industrial Site. Requires assessment and/or clean up.	0090010240
Yarra Ranges Shire	Warburton	3375 Warburton Highway Warburton 3799	Former petroleum storage site, Requires assessment and/or clean	IMPN-00001080-3
Yarra Ranges Shire	Kilsyth	13 Jeanette Maree Court Kilsyth 3137	Industrial waste has been dumped at the site, Requires	EAN-00003433
			assessment and/or clean up	
Yarra Ranges Shire Council	HEALESVILLE	371 MT RIDDELL RD	Former Landfill. Requires ongoing management.	0090006004
Yarra Ranges Shire Council	LILYDALF	UNITS 1 & 2 / 200 LEONARD ROAD	Former Landfill, Requires ongoing management	0090006191
Varra Rangos Shire Council	Coldstream	70 Station ST	Industrial waste has been dumped at the site. Bequires	0000000101
Tarra Nariges Shire Council	ColustiedIII		accompany and/or alcon un	0090009941
			assessment and/or creating.	0000011122
	NILOTIA	13 JEANETTE WAREE UT	moustnar waste has been dumped at the site. Requires	0090011133
		Educial Halana Davis	assessment and/or clean up.	
1		FITISCH HOIZEF PARK	Former Landill, Requires ongoing management	EAN-00003277

PRIORITY SITES REGISTER

Information as at 31 December 2020

The Priority Sites Register is updated monthly and the information on it may not be accurate, current or complete and may be subject to change without notice.

EPA has a key responsibility in protecting beneficial uses of land. Many of these uses are regulated or controlled through a range of measures to prevent contamination of land and groundwater. Land contaminated by former waste disposal, industrial and similar activities is frequently discovered during changes to land use - for example, from industrial to residential use. In most cases these can be managed at the time that the change of land use occurs. Some sites however, present a potential risk to human health or to the environment and must be dealt with as a priority. Such sites are typically subject to clean-up and/or management under EPA directions.

WHAT ARE PRIORITY SITES?

Priority Sites are sites for which EPA has issued a Clean Up Notice pursuant to section 62A, or a Pollution Abatement Notice pursuant to section 31A or 31B (relevant to land and/or groundwater) of the *Environment Protection Act 1970*. Typically these are sites where pollution of land and/or groundwater presents a potential risk to human health or to the environment. The condition of these sites is not compatible with the current or approved use of the site without active management to reduce the risk to human health and the environment. Such management can include clean up, monitoring and/or institutional controls.

The Priority Sites Register does not list sites managed by voluntary agreements or sites subject to management by planning controls (e.g. sites managed in accordance with a section 173 agreement under the *Planning and Environment Act 1987*). Land purchasers should be aware of these limitations and make their own enquiries. A site is listed on the Priority Sites Register when EPA issues a Clean Up Notice or a Pollution Abatement Notice (relevant to land and/or groundwater). A notice is a means by which EPA formalises requirements to manage pollution. Sites are removed from the Priority Sites Register once all conditions of a Notice have been complied with. This is formalised through a Notice of Revocation pursuant to section 60B of the Act.

DISCLAIMER

Users of this site accept all risks and responsibilities for losses, damages, costs and other consequences resulting directly or indirectly from use of this site and information from it.

To the maximum permitted by law, the EPA excludes all liability to any person directly or indirectly from using this site and information from it.

FURTHER INFORMATION

Additional information is available from: EPA Information Centre 200 Victoria Street Carlton VIC 3053 1300 EPA VIC (1300 372 842) www.epa.vic.gov.au

Municipality	Suburb	Address	Issue	Notice Number
Alpine Shire Council	BARWIDGEE	78 MORRISONS LANE	Former Landfill. Requires ongoing management.	0090008844
Ararat Rural City Council	ARARAT	26 Grano ST	Former Industrial Site. Requires assessment and/or clean up.	0090001739
Ballarat City Council	BALLARAT	1003 Humffray ST	Former Industrial Site. Requires assessment and/or clean up.	0090001857
Ballarat City Council	BALLARAT	Volume 6747 Folio 250	Current Industrial Site. Requires assessment and/or clean up.	0090001913
Ballarat City Council	Black Hill	Crown Allotment 13A Section 35 Township of Ballarat East	Former Landfill. Requires ongoing management.	0090009627
Ballarat City Council	BUNKERS HILL	856 Greenhalghs RD	Current Industrial Site. Requires assessment and/or clean up.	0090011229
Ballarat City Council	MOUNT CLEAR	3 WHITEHORSE RD	Former Landfill. Requires ongoing management.	0090003912
Ballarat City Council	Sebastopol	Crown Allotment A Section 9	Gun, pistol or rifle range. Requires assessment and/ or clean up.	0090011369
Banyule City Council	GREENSBOROUGH	131 - 135 GRIMSHAW ST	Current Service Station. Requires assessment and/or clean up.	0090010564
Banyule City Council	ROSANNA	148 LOWER PLENTY RD	Current Service Station. Requires assessment and/or clean up.	0090011156
Bass Coast Shire Council	COWES	50 HOBSONS PDE	Industrial waste has been dumped at the site. Requires assessment and/or clean up.	0090011786



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PRIORITY SITES REGISTER

Information as at 31 December 2020

Municipality	Suburb	Address	Issue	Notice Number
Monash City Council	OAKLEIGH EAST	108 - 112 FERNTREE GULLY RD	Former Landfill. Requires ongoing management.	0090006175
Monash City Council	OAKLEIGH SOUTH	1221 - 1249 CENTRE RD	Former Landfill. Requires ongoing management.	0090011711
Monash City Council	OAKLEIGH SOUTH	1221 - 1249 CENTRE RD	Former Landfill. Requires assessment and/or clean up.	0090011712
Moonee Valley City Council	ASCOT VALE	556 MT ALEXANDER RD	Current Service Station. Requires ongoing management.	0090011192
Moorabool Shire Council	FISKVILLE	4549 Geelong-Ballan RD	Contaminated soil is retained and managed onsite. Requires assessment and/or clean up.	0090009700
Moorabool Shire Council	MADDINGLEY	1 PS908919 Side Of Kerrs RD	Former Landfill. Requires ongoing management.	0090003631
Moreland City Council	Brunswick	Buildings 5 and 6 72-106 Dawson Street	Former Industrial Site. Requires assessment and/or clean up.	0090010613
Moreland City Council	BRUNSWICK	699-701 PARK STREET, 2-4 SYDNEY ROAD 182, 184-186, 188 AND 190-192 BRUNSWICK	Former Industrial Site. Requires assessment and/or clean up.	0090008501
Moreland City Council	BRUNSWICK	225 and 227-231 Barkly Street and 1-77 Amelia Street	Former Industrial Site. Requires ongoing management.	0090009119
Moreland City Council	BRUNSWICK EAST	4 - 6 BARKLY ST	Former Industrial Site. Requires assessment and/or clean up.	0090009126
Moreland City Council	COBURG NORTH	46 - 54 Newlands RD	Current Service Station. Requires ongoing management.	0090009742
Mornington Peninsula Shire Council	CRIB POINT	2 Lens ST	Former Landfill. Requires ongoing management.	0090003619
Mornington Peninsula Shire Council	CRIB POINT	2 Lens ST	Former Landfill. Requires ongoing management.	0090010060
Mornington Peninsula Shire Council	DROMANA	107 - 109 POINT NEPEAN RD	Current petroleum storage site. Requires assessment and/or clean up.	0090008942
Mornington Peninsula Shire Council	FINGAL	140 SPRINGS LANE	Current Industrial Site. Requires assessment and/or clean up.	0090011656
Mornington Peninsula Shire Council	MOUNT ELIZA	254-450 MOOROODUC HWY	Former Landfill. Requires ongoing management.	0090000477
Mornington Peninsula Shire Council	MOUNT ELIZA	254-450 MOOROODUC HWY	Former Landfill. Requires ongoing management.	0090003744
Mornington Peninsula Shire Council	RED HILL	87 Arthurs Seat RD	Current Service Station. Requires ongoing management.	0090011223
Mornington Peninsula Shire Council	ROSEBUD WEST	119 Truemans RD	Former Landfill. Requires ongoing management.	0090010398
Mornington Peninsula Shire Council	ТҮАВВ	15-21 MCKIRDYS RD	Former Landfill. Requires ongoing management.	0090007677
Mount Alexander Shire Council	Castlemaine	74 Tomkies Road Lane	Contaminated soil is retained and managed onsite. Requires ongoing management.	0090004156
Mount Alexander Shire Council	Castlemaine	74 Tomkies Road Lane	Contaminated soil is retained and managed onsite. Requires ongoing management.	0090011175
Moyne Shire Council	ALLANSFORD	5331 Great Ocean RD	Current Industrial Site. Requires ongoing management.	0090004322
Moyne Shire Council	PORT FAIRY	Badhams LANE	Former Landfill. Requires ongoing management.	0090003625
Nillumbik Shire Council	ELTHAM	197 Sherbourne RD	Former Industrial Site. Requires ongoing management.	0090011553
Nillumbik Shire Council	KANGAROO GROUND	105 GRAHAM RD	Former Landfill. Requires ongoing management.	0090007781
Nillumbik Shire Council	YARRAMBAT	290 - 304 Yan Yean RD	Former Landfill. Requires ongoing management.	0090007767
Northern Grampians Shire Council	HORSHAM	8 HAMILTON ROAD & 52 HAMILTON ROAD	Current Industrial Site. Requires ongoing management.	0090010862
Northern Grampians Shire Council	Stawell	Crown Allotment 136K Parish of Illawarra	Industrial waste has been dumped at the site. Requires assessment and/or clean up.	0090006261
Northern Grampians Shire Council	Stawell	Crown Allotment 2011 Little Rickard St & CA 2, Sec 98, 2-40 Newington Rd	Historical deposit of mine tailings. Requires assessment and/or clean up.	0090011181
Northern Grampians Shire Council	Stawell	North Park Recreation Reserve and Stawell Sports and Aquatic Centre	Historical deposit of mine tailings. Requires ongoing management.	0090011287
Northern Grampians Shire Council	Stawell	Crown Allotments 10 & 13 Section 97 Hobbs Street	Contaminated soil is retained and managed onsite. Requires ongoing management.	0090011313



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CLIENT WERRIBEE VALE DEVELOPMENT PTY LTD PROJECT UNDERBANK ESTATE DEVELOPMENT

TITLE PRELIMINARY ENVIRONMENTAL INVESTIGATION HISTORICAL AERIAL PHOTOGRAPH - 1949

SCALE (A3) 1:2000 FIG No. AERIAL 1949



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TITLE PRELIMINARY ENVIRONMENTAL INVESTIGATION HISTORICAL AERIAL PHOTOGRAPH - 1970

FIG No. AERIAL 1970





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NOTES: 1. AERIAL IMAGE SOURCED FROM LANDATA. IMAGERY DATE: 1982.



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TITLE PRELIMINARY ENVIRONMENTAL INVESTIGATION HISTORICAL AERIAL PHOTOGRAPH - 1982

FIG No. AERIAL 1982



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TITLE PRELIMINARY ENVIRONMENTAL INVESTIGATION HISTORICAL AERIAL PHOTOGRAPH - 1990

SCALE (A3) 1:2000 FIG No. AERIAL 1990



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TITLE PRELIMINARY ENVIRONMENTAL INVESTIGATION HISTORICAL AERIAL PHOTOGRAPH - 2002

SCALE (A3) 1:2000 FIG No. AERIAL 2002





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TITLE PRELIMINARY ENVIRONMENTAL INVESTIGATION HISTORICAL AERIAL PHOTOGRAPH - 2010

SCALE (A3) 1:2000 FIG No. AERIAL 2010





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TITLE PRELIMINARY ENVIRONMENTAL INVESTIGATION HISTORICAL AERIAL PHOTOGRAPH - 2016

SCALE (A3) 1:2000 FIG No. AERIAL 2016



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CLIENT WERRIBEE VALE DEVELOPMENT PTY LTD PROJECT UNDERBANK ESTATE DEVELOPMENT

TITLE PRELIMINARY ENVIRONMENTAL INVESTIGATION HISTORICAL AERIAL PHOTOGRAPH - 2017

SCALE (A3) 1:2000 FIG No. AERIAL 2017







Exceptional thinking together www.tonkintaylor.com.au

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CLIENT WERRIBEE VALE DEVELOPMENT PTY LTD PROJECT UNDERBANK ESTATE DEVELOPMENT

TITLE PRELIMINARY ENVIRONMENTAL INVESTIGATION HISTORICAL AERIAL PHOTOGRAPH - 2018

SCALE (A3) 1:2000 FIG No. AERIAL 2018





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Exceptional thinking together www.tonkintaylor.com.au

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PROJECT No.

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CLIENT KATALAND PROJECT UNDERBANK ESTATE DEVELOPMENT

TITLE PRELIMINARY ENVIRONMENTAL INVESTIGATION HISTORICAL AERIAL PHOTOGRAPH - 2021

SCALE (A3) 1:2000 FIG No. AERIAL 2021



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HTSTORTCAL	SEARCH	STATEMENT	Land	IIse	Victoria	Page 1 of	6
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Volume 8521 Folio 689 Folio Creation: Created as paper folio continued as computer folio Parent title Volume 07321 Folio 113

THE IMAGE OF THE FOLIO CEASED TO BE THE DIAGRAM LOCATION ON 25/05/2006 05:54:19 AM

RECORD OF HISTORICAL DEALINGS

Date Lodged for	Date Recorded	Dealing	Imaged	Dealing Type and
Registration	on Register			Details

RECORD OF VOTS DEALINGS

Date Lodged for Registration	Date Recorded on Register	Dealing	Imaged
20/02/2002	20/02/2002	AB089911B	Y
TRANSFER OF LAND FROM: STEPHEN BERNA BRENDA JOY MU TO: RODNEY MARK (CAROLE HELEN RESULTING PRO Estate Fee S:	BY ENDORSEMENT ARD MULLER JLLER COCHRANE COCHRANE DPRIETORSHIP: imple		
Joint Proprie RODNEY MA	etors ARK COCHRANE		
CAROLE HI 3340 AB0899111	3 20/02/2002	n of 18 Leila Cour	T BACCHUS MARSH VIC
16/03/2016	16/03/2016	AM635904L	Ν
NOMINATE PCT TO I	PAPER INSTRUMENT (OR LODGEMENT CASE	
23/03/2016	21/04/2016	AM654797B	Y
Cancelled by AM6	54797B		
23/03/2016	21/04/2016	PS742687U (S)	Y
PLAN OF SUBDIVIS	ION SECTION 35 SU	BDIVISION ACT	
STATEMENT END			
VOTS Snapshot			

Volume 08521 Folio 689 124000567867G Produced 20/02/2002 03:27 pm



HISTORICAL SEARCH STATEMENT Land Use Victoria Page 2 of 6

LAND DESCRIPTION

Lot 1 on Title Plan 320981L (formerly known as part of Portion 5 Township of Bacchus Marsh Parish of Korkuperrimul). PARENT TITLE Volume 07321 Folio 113 Created by instrument B657249 15/05/1963

REGISTERED PROPRIETOR

Estate Fee Simple Joint Proprietors STEPHEN BERNARD MULLER BRENDA JOY MULLER both of 19 RYAN CT BACCHUS MARSH 3340 X204471Q 11/12/2000

ENCUMBRANCES, CAVEATS AND NOTICES

Any encumbrances created by Section 98 Transfer of Land Act 1958 or Section 24 Subdivision Act 1988 and any other encumbrances shown or entered on the plan set out under DIAGRAM LOCATION below.

DIAGRAM LOCATION

SEE DIAGRAM ON IMAGED FOLIO VOLUME $8521\ {\rm FOLIO}\ 689\ {\rm FOR}\ {\rm FURTHER}\ {\rm DETAILS}\ {\rm AND}\ {\rm BOUNDARIES}$

Paper Title Images

8521/689 - Version 2, Date 05/01/2001



UNDER THE "TRANSFER OF LAND ACT

NORMAN THOMAS BURGE Public Servant and NORMA JEAN BURGE Married Woman both of Parwan Road Bacchus Marsh are now the joint proprietors of an estate in fee simple subject to the encumbrances notified hereunder in <u>ALL THAT</u> piece of landdelineated and coloured red on the map on the sheet annexed hereto containing --Nine acres Two roods and Four perches or thereabouts being part of Crown - - -Portion 5 Township of Bacchus Marsh Parish of Korkuperrimul Together with a right of carriageway over the roads coloured brown on the said map and Together with a right to use the land coloured yellow on the said map for water supply --

DATED the 15th day of May 1963

purposes -

DATE

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Assistant Registrar of Titles

ENCUMBRANCES REFERRED TO

UNG TO SE NTIL . Law 13 AMENDED OF SEE R242358X SEC . 35

MEASUREMENTS ARE IN LINKS

Derived from Vol.7321 Fol.113









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HTSTORTCAL	SEARCH	STATEMENT	Land Use	Victoria	Page 1 of 2
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Volume 11648 Folio 686 Folio Creation: Created as a computer folio Parent title Volume 08521 Folio 689

RECORD OF HISTORICAL DEALINGS

Date Lodged forDate RecordedDealingImagedDealing Type andRegistrationon RegisterDetails

RECORD OF VOTS DEALINGS

Date Lodged for Date Recorded Dealing Imaged Registration on Register 21/04/2017 AN763185S 21/04/2017 Y CAVEAT CAVEAT AN763185S 21/04/2017 Caveator WERRIBEE VALE CORPORATION LTD Grounds of Claim AGREEMENT WITH THE FOLLOWING PARTIES AND DATE. Parties THE REGISTERED PROPRIETOR(S) Date 04/04/2017 Estate or Interest FREEHOLD ESTATE Prohibition ANY INSTRUMENT THAT AFFECTS MY/OUR INTEREST Lodged by WILMOTH FIELD & WARNE Notices to WILMOTH FIELD & WARNE of FLOOR 2 350 COLLINS STREET MELBOURNE VIC 3000 08/08/2017 08/08/2017 AQ123500H Y TRANSFER OF LAND BY ENDORSEMENT FROM: RODNEY MARK COCHRANE CAROLE HELEN COCHRANE TO: WERRIBEE VALE CORPORATION PTY LTD **RESULTING PROPRIETORSHIP:** Estate Fee Simple Sole Proprietor WERRIBEE VALE CORPORATION PTY LTD of 10/278 COLLINS STREET MELBOURNE VIC 3000 AQ123500H 08/08/2017 AND LAPSING OF CAVEAT AN763185S 26/02/2020 08/04/2020 PS821090T (S) Υ PLAN OF SUBDIVISION SECTION 35 SUBDIVISION ACT



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HISTORICAL	SEARCH	STATEMENT	Land	Use	Victoria	Page 2 of 2

03/04/2020 08/04/2020 AT133076L Y

Cancelled by AT133076L

STATEMENT END

VOTS Snapshot

VOLUME 11648 FOLIO 686 124060062784T Produced 21/04/2016 09:39 am

LAND DESCRIPTION

Lot 1 on Plan of Subdivision 742687U. PARENT TITLE Volume 08521 Folio 689 Created by instrument AM654797B 23/03/2016

REGISTERED PROPRIETOR

Estate Fee Simple Joint Proprietors RODNEY MARK COCHRANE CAROLE HELEN COCHRANE both of 18 LEILA COURT BACCHUS MARSH VIC 3340 AM654797B 23/03/2016

ENCUMBRANCES, CAVEATS AND NOTICES

Any encumbrances created by Section 98 Transfer of Land Act 1958 or Section 24 Subdivision Act 1988 and any other encumbrances shown or entered on the plan set out under DIAGRAM LOCATION below.

DIAGRAM LOCATION

SEE PS742687U FOR FURTHER DETAILS AND BOUNDARIES



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HTSTORTCAL	SEARCH	STATEMENT	Land	IIse	Victoria	Page 1 of 1
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Volume 12200 Folio 394 Folio Creation: Created as a computer folio Parent title Volume 11648 Folio 686

STATEMENT END

VOTS Snapshot

VOLUME 12200 FOLIO 394 124082512758x Produced 08/04/2020 11:15 AM

LAND DESCRIPTION

Lot A on Plan of Subdivision 821090T. PARENT TITLE Volume 11648 Folio 686 Created by instrument PS821090T 08/04/2020

REGISTERED PROPRIETOR

Estate Fee Simple Sole Proprietor WERRIBEE VALE CORPORATION PTY LTD of 10/278 COLLINS STREET MELBOURNE VIC 3000 PS821090T 08/04/2020

ENCUMBRANCES, CAVEATS AND NOTICES

Any encumbrances created by Section 98 Transfer of Land Act 1958 or Section 24 Subdivision Act 1988 and any other encumbrances shown or entered on the plan set out under DIAGRAM LOCATION below.

DIAGRAM LOCATION

SEE PS821090T FOR FURTHER DETAILS AND BOUNDARIES











INVESTIGATION Id.:

HA01

SHEET: 1 OF 1

PROJECT:	Underbar	nk	LOCATION:	Halle	tts Wa	у				JOB No.: 1005964.2000
CO-ORDINA (UTM55	TES:	58267 27261	763.48 mN METHOD: 11.97 mE EQUIPMENT: TECHNICIAN:	HA Ha NA	nd Au	ger				START DATE: 10/02/20 FINISH DATE: 10/02/20 LOGGED BY: NB
DATUM:			CONTRACTOR	R: -						CHECKED BY: TC
METHOD WATER UNIT	GRAPHIC LOG	CLASSIFICATION SYMBOL	SOIL NAME, PLASTICITY OR PARTICLE SIZE CHARACTERISTICS, COLOUR, SECONDARY AND MINOR COMPONENTS	MOISTURE	CONSISTENCY / RELATIVE DENSITY	DEPTH (m)	SAMPLES TESTS	SAMPLES	DCP Dynamic Cone Penetrometer	ADDITIONAL COMMENTS
		ML CH	ML - clayey SILT, dark gray /dark brown. CH - silty CLAY, high plasticity, dark gray /dark brown.	M	St	0.25	HA01/0.1	0.13		
	× × × × × × × × × × × × × × × × × × ×					- - - 	HA01/0.5	0.45		
			0.5m: END OF BOREHOLE			0.75-				
COMMENTS						- - - -				

0.5m Scale 1:5



INVESTIGATION Id.:

HA02

SHEET: 1 OF 1

P	RO	IECT:U	nderba	nk	LOCATION:	Halle	tts Wa	ау					JOB No.: 1005964.2000)
CC R.)-01 L.:	RDINATI (UTM55H	ES:)	5826 2726	738.91 mN METHOD: 06.91 mE EQUIPMENT: TECHNICIAN:	HA Ha : NA	A Ind Au	lger					START DATE: FINISH DATE: LOGGED BY:	10/02/202 10/02/202 NBV
DA	ATU	M:			CONTRACTO	R: -		<u> </u>					CHECKED BY:	TON
GE	EOL T	OGICA					<u> </u>	TESTI	NG		-			
METHOD	WATER	UNIT	GRAPHIC LOG	CLASSIFICATION SYMBOL	SOIL NAME, PLASTICITY OR PARTICLE SIZE CHARACTERISTICS, COLOUR, SECONDARY AND MINOR COMPONENTS	MOISTURE	CONSISTENCY / RELATIVE DENSITY	RL (m)	DEPTH (m)	SAMPLES TESTS	SAMPLES	DCP Dynamic Cone Renetrometer	ADDITIONAL COMMENTS	
			× × × ×	. ML	ML - clayey SILT, dark gray/dark brown.	м	L							
									-	HA02/0.1	0.13			
									-					
			× × ×	СН	CH - silty CLAY, dark gray/dark brown.	_	St	- 0.	.25_					
			× × ×						_					
			× * * * *	SW	Gravelly SAND, medium to coarse grained, brown/gray. Gravel, medium to coarse grained, subrounded to rounded.		L-MD	_	-					
								0.	.50-	HA02/0.5	0.53			
			· · · · · · · · · · · · · · · · · · ·	ML	Clayey SILT, low plasticity, brown/gray.	_	L		-					
			× × ×					0	-	HA02/0.75	0.70			
					0.75m. END OF BOREHULE				-					
									-					
СС	MM	ENTS:						•	1			•		
Hole 0	e Dep).75m	th												



INVESTIGATION Id.:

HA03

SHEET: 1 OF 1

PROJECT: Underb	ank	LOCATION: Hallet	ts Wa	y				JOB No.: 1005964.2000)
CO-ORDINATES: (UTM55H) R.L.:	5826719.33 mN 272601.71 mE	METHOD: HA EQUIPMENT: Har TECHNICIAN: NA	nd Aug	ger				START DATE: FINISH DATE: LOGGED BY: CHECKED BY:	10/02/202 10/02/202 NBV
		CONTRACTOR: -		TESTING					100
METHOD WATER UNIT GRAPHIC LOG	SOIL NAME, PLASTICITY PARTICLE SIZE CHARACTERISTI SECONDARY AND MINOR COM	Y OR HINGS, COLOUR, STORENTS STORENTS	CONSISTENCY / RELATIVE DENSITY	RL (m) DEPTH (m)	SAMPLES TESTS	SAMPLES	DCP Dynamic Cone Perveticaneer	ADDITIONAL COMMENTS	
	ML ML - clayey SILT, low plasticity brown.	', dark gray/dark M	L	-	HA03/0.1	0.10 0.08			
×	CH - silty CLAY, high plasticity, dark brown.	, dark gray /	F-St	- 0.25-					
× × × × ×				- - 0.50-	HA03/0.5	0.50			
	0.55m: END OF BOR	EHOLE		- - 0.75-					
COMMENTS:				-					



INVESTIGATION Id.:

HA04

SHEET: 1 OF 1

P	ROJ	JECT:U	nderba	ank	LOCATION:	Halle	tts Wa	iy				JOB No.: 1005964.2000)
C R	0-0F	RDINAT (UTM55H	ES:)	5826 2725	659.01 mN METHOD: 93.04 mE EQUIPMENT: TECHNICIAN:	HA Ha NA	nd Au	ger				START DATE: FINISH DATE: LOGGED BY:	10/02/2021 10/02/2021 NBW
D,	ATU	M:			CONTRACTOR	R: -		1				CHECKED BY:	ТОМ
G	EOL	OGICA	L.	1	I		1	TESTING	6		1	1	
METHOD	WATER	UNIT	GRAPHIC LOG	CLASSIFICATION SYMBOL	SOIL NAME, PLASTICITY OR PARTICLE SIZE CHARACTERISTICS, COLOUR, SECONDARY AND MINOR COMPONENTS	MOISTURE	CONSISTENCY / RELATIVE DENSITY	RL (m) DEPTH (m)	SAMPLES TESTS	SAMPLES	DCP Dynamic Cone Penetrometer	ADDITIONAL COMMENTS	
		Elili		. SW	SW - silty SAND with gravel, fine to medium grained, brown / gray. Gravel, medium to coarse grained, angular. ML - SILT, brown/gray.	M		0.25	HA04/0.1	0.10 0.08			
					Clayey SILT trace sand, low plasticity, brown/gray. Sand, fine to medium grained.			0.50	- HA04/0.5	050			
			<u> </u>										
		ENTS:			0.7m: END OF BOREHOLE			0.75	-				
	DMM	ENTS:											
Hol	e Dept 0.7m	th											



INVESTIGATION Id.:

HA05

SHEET: 1 OF 1

Ρ	RO	JECT:U	nderba	nk	LOCATION:	Halle	tts Wa	iy				JOB No.: 1005964.2000
C R	0-0 L.:	RDINATI (UTM55H	ES:	5826 2725	618.51 mN METHOD: 90.63 mE EQUIPMENT: TECHNICIAN:	HA Ha NA	nd Au	ger				START DATE: 10/02/2021 FINISH DATE: 10/02/2021 LOGGED BY: NBW
					CONTRACTOR	२: -		TESTING				
METHOD	WATER	TINU	GRAPHIC LOG	CLASSIFICATION SYMBOL	SOIL NAME, PLASTICITY OR PARTICLE SIZE CHARACTERISTICS, COLOUR, SECONDARY AND MINOR COMPONENTS	MOISTURE	CONSISTENCY / RELATIVE DENSITY	RL (m) DEPTH (m)	SAMPLES TESTS	SAMPLES	DCP Dynamic Cone Pernet cometer	ADDITIONAL COMMENTS
				ML	Clayey SILT, low plasticity, dark gray/ dark brown. * Clay content increase with depth .	M	L		HA05/0.1	0.10 0.08		
				5				0.25		0.45		
								0.50		0:0		
,					0.7m: END OF BOREHOLE			0.75-				
,		ENTS.										
	e Dep	th										
>	III	1										



INVESTIGATION Id.:

HA06

SHEET: 1 OF 1

CO-DERUNTES: SEGRETION INN UNITARIA METHOD: HA STATUAL: STATUAL: DUDATION: RL: TECHNICAN: NA CONTRACTOR: CONTRACTOR: UNICACIDATION NA CONTRACTOR: CONTRACTOR: </th <th>CO-ORDINTES: 5020500 min Mail METHOD: Have Augur STATU TOTE: 1000 R.L. TECINICIAN: NA COUPLENT: Have Augur LOGOED 91: DATUM: COUPLENT: TECINICIAN: NA COUPLENT: 1000 GEOLOGICAL TECINICIAN: NA COUPLENT: NO COUPLENT: 1000 GEOLOGICAL TECINICIAN: NA COUPLENT: NO COUPLENT: NO GEOLOGICAL TECINICIAN: NA COUPLENT: NA COUPLENT: NA GEOLOGICAL TECINICIAN: NA COUPLENT: TESTING COUPLENT: NA GEOLOGICAL TECINICIAN: NA TESTING COUPLENT: NA COUPLENT: GEOLOGICAL TECINICIAN: NA TESTING COUPLENT: NA COUPLENT: NA GEOLOGICAL TESTING TESTING TESTING COUPLENT: NA <</th> <th>PROJECT:Under</th> <th>rbank</th> <th>LOCATION:</th> <th>Hallet</th> <th>ts Wa</th> <th>у</th> <th></th> <th></th> <th></th> <th>JOB No.: 1005964.2000</th>	CO-ORDINTES: 5020500 min Mail METHOD: Have Augur STATU TOTE: 1000 R.L. TECINICIAN: NA COUPLENT: Have Augur LOGOED 91: DATUM: COUPLENT: TECINICIAN: NA COUPLENT: 1000 GEOLOGICAL TECINICIAN: NA COUPLENT: NO COUPLENT: 1000 GEOLOGICAL TECINICIAN: NA COUPLENT: NO COUPLENT: NO GEOLOGICAL TECINICIAN: NA COUPLENT: NA COUPLENT: NA GEOLOGICAL TECINICIAN: NA COUPLENT: TESTING COUPLENT: NA GEOLOGICAL TECINICIAN: NA TESTING COUPLENT: NA COUPLENT: GEOLOGICAL TECINICIAN: NA TESTING COUPLENT: NA COUPLENT: NA GEOLOGICAL TESTING TESTING TESTING COUPLENT: NA <	PROJECT:Under	rbank	LOCATION:	Hallet	ts Wa	у				JOB No.: 1005964.2000
UNITABLE CONTROL - OTHER STORE 9 1 </td <td>LINE MON CONTRACTOR UNDER STORE BE 1 B<td>CO-ORDINATES: (UTM55H) R.L.:</td><td>5826 2725</td><td>6569.01 mN METHOD: 579.45 mE EQUIPMENT: TECHNICIAN:</td><td>HA Hai NA</td><td>nd Au</td><td>ger</td><td></td><td></td><td></td><td>START DATE: 10/02/ FINISH DATE: 10/02/ LOGGED BY: I</td></td>	LINE MON CONTRACTOR UNDER STORE BE 1 B <td>CO-ORDINATES: (UTM55H) R.L.:</td> <td>5826 2725</td> <td>6569.01 mN METHOD: 579.45 mE EQUIPMENT: TECHNICIAN:</td> <td>HA Hai NA</td> <td>nd Au</td> <td>ger</td> <td></td> <td></td> <td></td> <td>START DATE: 10/02/ FINISH DATE: 10/02/ LOGGED BY: I</td>	CO-ORDINATES: (UTM55H) R.L.:	5826 2725	6569.01 mN METHOD: 579.45 mE EQUIPMENT: TECHNICIAN:	HA Hai NA	nd Au	ger				START DATE: 10/02/ FINISH DATE: 10/02/ LOGGED BY: I
Image: 1 Image: 2				CONTRACTOR	1: -		TESTING				
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Image: Sand, medium grained. Image: Sand, medium grained. <td< td=""><td>Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand,</td><td></td><td>8 ML</td><td>Clayey SILT with sand & gravel, low plasticity. Sand, fine to medium grained, gravel, fine to medium grained, subrounded.</td><td>м</td><td>L</td><td>-</td><td>HA06/0.1</td><td>.10 0.08</td><td></td><td></td></td<>	Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand, medium grained. Image: Sand,		8 ML	Clayey SILT with sand & gravel, low plasticity. Sand, fine to medium grained, gravel, fine to medium grained, subrounded.	м	L	-	HA06/0.1	.10 0.08		
Image: Second	Image: Second			Clayey SILT trace sand, light brown/gray. Sand, medium grained.			- 0.25- -		0.1		
0.6m: END OF BOREHOLE	0.6m: END OF BOREHOLE						- 0.50-	HA06/0.5	0.50		
				0.6m: END OF BOREHOLE			- 0.75-				

0.6m Scale 1:5



INVESTIGATION Id.:

HA07

SHEET: 1 OF 1

P	RO	JECT:U	nderba	ink	LOCATION:	Halle	tts Wa	y				JOB No.: 1005964.2000	
CO R.	D-0	RDINATI (UTM55H)	ES:	5826 ⁻ 2727:	756.93 mN METHOD: 21.16 mE EQUIPMENT: TECHNICIAN:	HA Ha NA	nd Au	ger				START DATE: 10 FINISH DATE: 10 LOGGED BY:)/02/2021)/02/2021 NBW
D	ATU	M:			CONTRACTOR	₹: -						CHECKED BY:	ТОМ
GE	EOL T	.OGICA	L T					TESTING					
METHOD	WATER	UNIT	GRAPHIC LOG	CLASSIFICATION SYMBOL	SOIL NAME, PLASTICITY OR PARTICLE SIZE CHARACTERISTICS, COLOUR, SECONDARY AND MINOR COMPONENTS	MOISTURE	CONSISTENCY / RELATIVE DENSITY	RL (m) DEPTH (m)	SAMPLES TESTS	SAMPLES	DCP Dynamic Cone Penetrometer	ADDITIONAL COMMENTS	
			8 X X 8 X 8 X 8 X 8 X 8 X 8 X 8 X 8 X 8	SM	Sandy SILT with gravel, brown/gray. Sand, medium grained; gravel, medium to coarse grained, subangular.	M	L	-	HA07/0.1	0.08			
		Ē						-		0.10			
								0.25-	HA07/0.4	0.25			
					0.3m: Refusal on hard strata			-					
								-					
								0.50-					
								-					
								-					
								0.75-					
								-					
								-					
								-					
CC	DMN e Den	ENTS:	_	_		_	_	_		_	_		
	0.3m												



INVESTIGATION Id.:

HA08

SHEET: 1 OF 1

PI	RO	JECT:Ur	nderba	nk	LOCATION:	Halle	tts Wa	iy				JOB No.: 1005964.2000	
C(D-0 L.:	RDINATE (UTM55H)	S:	58267 27274	715.35 mN METHOD: 47.81 mE EQUIPMENT: TECHNICIAN:	HA Ha NA	nd Au	ger				START DATE: FINISH DATE: LOGGED BY:	10/02/2021 10/02/2021 NBW
D	ATU	M:			CONTRACTOR	₹: -		L				CHECKED BY:	ТОМ
GE	EOL T	OGICAI	-			—	T	TESTING	; 		<u> </u>		
METHOD	WATER	UNIT	GRAPHIC LOG	CLASSIFICATION SYMBOL	SOIL NAME, PLASTICITY OR PARTICLE SIZE CHARACTERISTICS, COLOUR, SECONDARY AND MINOR COMPONENTS	MOISTURE	CONSISTENCY / RELATIVE DENSITY	RL (m) DEPTH (m)	SAMPLES TESTS	SAMPLES	DCP Dynamic Cone Renetrometer	ADDITIONAL COMMENTS	
				ML	Clayey SILT with sand & gravel, brown/gray. Sand, fine to medium grained, gravel, fine to medium grained, subrounded to subangular.	М	L-MD		HA08/0.1	0.10 0.08			
		Fill							-				
								0.25	-	۵ د			
			× × × × × × × ×						HA08/0.5	0.3			
					0.4m: Refusal on hard strata				-				
								0.50-	-				
									-				
									-				
								0.75-	-				
CC) DMM e Dep 0.4m	ENTS:	1			<u> </u>	<u> </u>		<u> </u>				



INVESTIGATION Id.:

HA09

SHEET: 1 OF 1

P	ROJ	IECT:U	nderba	nk	LOCATION:	Halle	tts Wa	ıy					JOB No.: 1005964.2000
C(R. D/	O-OF .L.: ATUI	RDINATE (UTM55H) M:	ES:	58266 27270	581.46 mN METHOD: D2.67 mE EQUIPMENT: TECHNICIAN: CONTRACTOF	HA Ha NA २: -	nd Au	ger					START DATE: 10/02/202 FINISH DATE: 10/02/202 LOGGED BY: NBI CHECKED BY: TO
GE	EOL	OGICA	L					TESTI	NG				
METHOD	WATER	UNIT	GRAPHIC LOG	CLASSIFICATION SYMBOL	SOIL NAME, PLASTICITY OR PARTICLE SIZE CHARACTERISTICS, COLOUR, SECONDARY AND MINOR COMPONENTS	MOISTURE	CONSISTENCY / RELATIVE DENSITY	RL (m)	DEPTH (m)	SAMPLES TESTS	SAMPLES	DCP Dynamic Cone Revetrometer	ADDITIONAL COMMENTS
		Fill		ML	Clayey SILT with sand & gravel, brown/gray. Sand, medium grained, gravel, coarse grained, subangular.	м	L		-	HA09/0.1	0.10		
					Clayey SILT trace sand, brown / gray.	-		C	-	HA09/0.5	0.45		
			2 <u>3</u> × <u>×</u> × <u>×</u> × <u>×</u>		0.5m: END OF BOREHOLE			c	⊧. 50				
								с	- - 1.75-				
									-				
CC	DMM	ENTS:											
Hole	e Dept 0.5m	th											



INVESTIGATION Id.:

HA10

SHEET: 1 OF 1

Co-ORDINATE: S32685.00 mE STAT DATE: 1 RL: TECHNICIAN: NA FINISH DATE:: 1 DATUM: CONTRACTOR: - CHECKED BY: 1 OPUING: CONTRACTOR: - CHECKED BY: CHECKED BY: OPUING: CONTRACTOR: - CHECKED BY: CHECKED BY: GEOLOGICAL TESTING TESTING - CHECKED BY: OUT MARCTOR: State Date: - CHECKED BY: COMMENT GEOLOGICAL TESTING TESTING - - - ME M. M. M. - - - - GEOLOGICAL TESTING TESTING -	ROJECT:Underbar	k LOCATION:	Hallet	tts Wa	у				JOB No.: 1005964.200	00
DATUM: CONTRACTOR: TESTING GEOLOGICAL TESTING 0 III III III IIII IIII IIIIIIIIIIIIII	O-ORDINATES: 5 (UTM55H) 2	5826637.71 mN METHOD: 272666.80 mE EQUIPMENT: TECHNICIAN: TECHNICIAN:	HA Ha NA	nd Aug	ger				START DATE: FINISH DATE: LOGGED BY:	10/02/202 10/02/202 NBV
Secondaria Test mag 00 Us 00 me		CONTRACTOR	R: -		TESTING				CHECKED BY:	TO
Image: Constraint of the second se	MATER UNIT GRAPHIC LOG	SOIL NAME, PLASTICITY OR PARTICLE SIZE CHARACTERISTICS, COLOUR, SSYS SECONDARY AND MINOR COMPONENTS	MOISTURE	CONSISTENCY / RELATIVE DENSITY	RL (m) DEPTH (m)	SAMPLES TESTS	SAMPLES	DCP Dynamic Cone Renetrcansee	ADDITIONAL COMMENTS	
0.25- 8 - HA100.3 0.35m: Refusal on hard strata - 0.35m: Refusal on hard strata - 0.35m: Refusal on hard strata - 0.50- - 0.50- - 0.50- - 0.50- - 0.50- - 0.50- - 0.50- - 0.50- - 0.50- - 0.50- - 0.50- - 0.50- -	Ē	ML - clayey SILT with gravel, brown/gray.	M	L-MD	-	HA10/0.1	0.10 0.08			
0.35m: Refusal on hard strata					0.25_	HA10/0.3	0.30			
					- 0.50- - - - - - - - - - - - - -					



INVESTIGATION Id.:

HA11

SHEET: 1 OF 1

PF	RO	IECT:Ur	nderba	nk	LOCATION:	Halle	tts Wa	ıy				JOB No.: 1005964.2	000
СС)-OI		S:	5826	721.87 mN METHOD:	HA	١					START DATE:	10/02/20
		(UTIVISSH)		2726	81.96 mE EQUIPMENT:	Ha	nd Au	ger				LOGGED BY:	10/02/20
R.I	L.: \⊤U	M·			TECHNICIAN: CONTRACTO	NA R'-	1					CHECKED BY:	NB TC
GE	OL	OGICA	L		Controlo			TESTIN	G				
				7			<u>_</u> 2						
DO	с.		C LOG	ATIO	SOIL NAME, PLASTICITY OR	JRE	ENCY	_E Ê	0.1101 50	ES			
1ETH	WATE	LINU	APHIC	SIFIC	PARTICLE SIZE CHARACTERISTICS, COLOUR,	OISTL	SISTE TVE D	RL (r EPTH	TESTS	AMPL	DCF	COMMENTS	
~	-		GRV	CLAS	SECONDARY AND MINOR COMPONENTS	ž	CON			S	Dynami		
_			××	ML	Clayey SILT with gravel, brown/gray. Gravel,	м	L						
			× ×		coarse grained, angular.								
			×						-	8			
		_	× ×						HA11/0.1	0.0			
		Ē	×× ××						-	0.10			

			× ××						HA11/0.2	0.17			
			× ×			<u> </u>	-		_		ļ		
					0.2m: Refusal on hard strata								
								0.2	5-				
									-				
									-				
									_				
								0.50	<u>-</u>				
									-				
									-				
									1				
								0.7	5-				
									-				
									-				
									1				
		ENITO											
0	IVIIV	LINI 3:											


BOREHOLE LOG

INVESTIGATION Id.:

HA12

SHEET: 1 OF 1

P	20	IECT:U	nderba	nk	LOCATION:	Halle	tts Wa	y	JOB No.: 1005964.2000				
С	D-0I	RDINATE (UTM55H)	ES:	5826 2726	708.70 mN METHOD: 23.19 mE EQUIPMENT:	HA Ha	nd Au	aer				START DATE: FINISH DATE:	10/02/2021 10/02/2021
R.	L.:				TECHNICIAN:	NA		5					NBW
D/ GF			1		CONTRACTO	र: -		TESTING	}			CHECKED DT.	10101
		0010/1				Τ	~		, 				
METHOD	WATER	UNIT	GRAPHIC LOG	CLASSIFICATION SYMBOL	SOIL NAME, PLASTICITY OR PARTICLE SIZE CHARACTERISTICS, COLOUR, SECONDARY AND MINOR COMPONENTS	MOISTURE	CONSISTENCY / RELATIVE DENSITY	RL (m) DEPTH (m)	SAMPLES TESTS	SAMPLES	DCP Dynamic Cone Penetrometer	ADDITIONAL COMMENTS	
				FILL	0.00m: Clayey SILT with sand & gravel, low plasticity, brown/ grey. Sand, fine to medium grained, gravel, fine to coarse grained, subrounded to subangular.	M	MD		HA12/0.1	0.05			
		Fill								0.15			
								0.25-	HA12/0.3	0.25			
			\bigotimes										
					0.35m: Refusal on hard strata								
								0.50-					
								-					
								-	-				
								0.75-	-				
									-				
cc	MM	ENTS:	1				1						
lole	Dep	th											

Scale 1:5

Tonkin+Taylor



Engineering log terminology

General

Soil and rock are described in terms of their engineering properties. Descriptions generally follow the "Description and Classification of Soils and Rocks for Geotechnical Purposes" system as given in AS1726 - 2017 Geotechnical Site Investigations.



Field test(s) carried out

- SPT(N): Standard Penetration Test (uncorrected blow count for 300 mm)
- DCP: Dynamic Cone Penetrometer resistance (blows per 100 mm)
- SV: Shear Vane, undrained shear strength (kPa)
- PP: Pocket Penetrometer, gauge reading (kPa)

Laboratory test(s) carried out:

MC:	Moisture content (%)
LL:	Liquid limit (%)
PI:	Plasticity Index (%)
LS:	Linear shrinkage (%)
CBR:	California Bearing Ratio (%)
Swell:	CBR speciment swell (%)
	following soaking
PLI:	Point Load Index Is ₍₅₀₎ (MPa)
PID:	Photoionization Detector (ppm)
UCS:	Uniaxial Compressive Strength (MPa)

Soil description

Mo	isture content	Consis	stency/ undrained sh	Density index		
				C _u (kPa)		
D	Dry, non-cohesive and free-running.	VS	Very soft	<=12	VL	Very loose
м	Moist, soil feels cool, darkened in	S	Soft	12 to 25	L	Loose
	colour. Soil tends to stick together.	F	Firm	25 to 50	MD	Medium dense
w	Wet, soil feels cool, darkened in colour. Soil	St	Stiff	50 to 100	D	Dense
	tends to stock together, free water forms	VSt	Very stiff	100 to 200	VD	Very dense
	when handling.	н	Hard	> 200		

Proportional terms definition (Coarse soils)										
Fraction	Term	% of soil mass	Example							
Major	(UPPER CASE)	Major constituent	GRAVEL							
Subordinate	(lower case)	> 12	Sandy							
Minor	with trace	5-12 < 5	with sand trace sand							

Proportiona	Proportional terms definition (Fine soils)												
Fraction	Term	% of soil mass	Example										
Major	(UPPER CASE)	Major constituent	CLAY										
Subordinate	(lower case)	> 30	Sandy										
Minor	with trace	30-15 < 15	with sand trace sand										

Grain size criteria Type Coarse Fine Boulders Cobbles Gravel Silt Clay Sand Coarse Medium Coarse Medium Fine Fine Size range 0.6 0.21 19 6.7 **2.36** (mm)200 63 0.075 0.002

	trace	< 5
Cementina		

cente	
Uc	Uncemented, Clean grains exhibiting soil properties
Vwk	Very weakly cemented, Cement on some grains, collapsing feel under very light finger pressure
Wk	Weakly cemented: Cement on many grains, collapsing feel under finger pressure, breaks down to individual grains
Mwk	Moderately weakly cemented, Cement on most grains, breaks down to lumps under finger pressure, can crush to individual grains under knife blade
Mo	Moderately cemented, Cement on most grains, can break fragments off by hand and crush to small lumps
We	Well cemented, Practically all grains cemented together, cannot break fragments off by hand, dull sound under hammer
	Very well cemented. Most primary pores filled with cement, requires firm blow with hammer

Vwe to break off fragments, rings when struck

Tonkin+Taylor



Engineering log terminology

Rock description

Defect coding

Infillings and coatings

Stained

Veneer

Coating

No visible coating.

No visible coating but surfaces are discoloured.

A visible coating up to 1 mm thick.

A visible coating of soil or mineral, too thin to measure, maybe patchy.

Clean

CN

ST

v

СТ

Type Angle (perpendicular to core axis) J 60°, PL, SL, CV, STIFF GREEN CLAY Infilling/coating type Roughness Shape

Infilling description (as per soil description)

Q

Defect Orientation: for vertical unoriented boreholes defect orientation is measured normal to core axis e.g horizontal = 0° (see diagram). For angled boreholes defect orientation is measured relative to core axis e.g parallel to core axis = 0°.

Тур	e – Signifcant defects		Defe	ect shape	Roug	hness of	Weathering		
Ρ	Parting		PL	Planar	defe	t surface Very rough	RS	Residual Soil	
J	Joint		C UN	Curved Undulating	R	Rough	xw	Extremely weathered	
SS	Shear surface	,	S	Stepped	SM	Smooth	DW	Distinctly weathered	
67	Charted coom / Topo		IR	Irregular	PO	Polished	HW	Highly weathered	
52	Sneared seam/zone				SL	Slickensided	MW	Moderately weathered	
CZ	Crushed seam/zone						sw	Slightly weathered	
IF	Infilled seam/zone	A A A A					FR	Fresh	
XD	Extremely weathered seam					_			

RQD: Rock Quality Designation

Percentage of core run consisting of sound rock longer than 100 mm per core run.

	ro	rocc	WORV
LU	16	IELL	

Expressed as percentage of the length of the core run recovered.

Field	strength			
		PLI (MPa)	UCS (MPa)	Field guide (50 mm diameter core)
VL	Very low	0.03 to 0.1	0.6 to 2	Crumbles with pick, can be peeled by knife
L	Low	0.1 to 0.3	2 to 6	150 mm piece may be broken by hand
м	Medium	0.3 to 1.0	6 to 20	150 mm piece may be broken by hand with difficulty
н	High	1 to 3	20 to 60	Core breaks after one blow with geological pick
VH	Very high	3 to 10	60 to 200	Core breaks after more than one blow with pick
EH	Extremely high	More than 10	More than 200	Core breaks after many blows with pick

Table 1: Soil Classification Results

-

					Field_ID Sampled_Date-Time	HA01/0.1 10/02/2021	HA02/0.1 10/02/2021	HA03/0.1 10/02/2021	HA04/0.1 10/02/2021	HA05/0.1 10/02/2021	HA06/0.1 10/02/2021	HA07/0.1 10/02/2021	HA08/0.1 10/02/2021	HA09/0.1 10/02/2021	HA10/0.1 10/02/2021	HA11/0.1 10/02/2021
			1828.2 Category	1828.2 Category	Lab_Report_Number 1828.2 Fill Material	773462	773462	773462	773462	773462	773462	773462	773462	773462	773462	773462
			B Upper limits	C Upper limits	Upper Limit(s)											
ChemName	Units	EQL	-													
Iron (%) Particle Size	%	0.01				-	-	-	-	-	-	-	-	-	-	3.8
% Clay* Phenols	%	1				-	-	-	-	-	-	-	-	-	-	10
2,4,5-Trichlorophenol 2,4,6-Trichlorophenol	mg/kg mg/kg	1 1				<1 <1	-	-	-		-	-	-	-		-
2,4-Dichlorophenol 2,4-Dimethylphenol	mg/kg mg/kg	0.5 0.5				<0.5 <0.5	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol 2,6-Dichlorophenol	mg/kg mg/kg	5 0.5				<5 <0.5	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol 2-Methylphenol	mg/kg mg/kg	0.5 0.2				<0.5 <0.2	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol 4,6-Dinitro-2-methylphenol	mg/kg mg/kg	1 5				<1 <5	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-o-cyclohexyl phenol 4-chloro-3-methylphenol	mg/kg mg/kg	20 1				<20 <1	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol Pentachlorophenol	mg/kg mg/kg	5 1				<5 <1	-	-	-	-	-	-	-	-	-	-
Tetrachlorophenols Phenol	mg/kg mg/kg	10 0.5				<10 <0.5	-	-	-	-	-	-	-	-	-	-
Phenols (Total Halogenated) Phenols (Total Non Halogenated)	mg/kg mg/kg	1 20				<1 <20	-	-	-	-	-	-	-	-	-	-
SVOC 3&4-Methylphenol (m&p-Cresol)	MG/KG	0.4				<0.4	-	-	-	-	-	-	-	-	-	-
TRH C6-C10	mg/kg	20				<20	<20	-	<20	<20	<20	<20	-	<20	-	-
C6-C10 (F1 minus BTEX) C10-C16	mg/kg mg/kg	20 50				<20 <50	<20 <50	-	<20 <50	<20 <50	<20 <50	<20 <50	-	<20 <50	-	-
C10-C16 (F2 minus Naphthalene) C16-C34	mg/kg mg/kg	50 100				<50 <100	<50 <100	-	<50 <100	<50 <100	<50 <100	<50 <100	-	<50 <100	-	-
C34-C40 C10-C40 (Sum of total)	mg/kg mg/kg	100 100				<100 <100	<100 <100	-	<100 <100	<100 <100	<100 <100	<100 <100	-	<100 <100	-	-
BTEX Benzene	mg/kg	0.1	16	4	1	<0.1	-	-	-	-	-	-	-	-	-	-
Toluene Ethylbenzene	mg/kg mg/kg	0.1 0.1				<0.1 <0.1	-	-	-	-	-	-	-	-	-	-
Xylene (m & p) Xylene (o)	mg/kg mg/kg	0.2 0.1				<0.2	-	-	-	-	-	-	-	-	-	-
Xylene Total Chlorinated Hydrocarbons	mg/kg	0.3				<0.3	-	-	-	-	-	-	-	-	-	-
Chlorinated hydrocarbons EPAVic Other chlorinated hydrocarbons EPAVic	mg/kg mg/kg	0.5 0.5				<0.5 <0.5	-	-	-	-	-	-	-	-	-	-
1,1,1,2-tetrachloroethane 1,1,1-trichloroethane	mg/kg mg/kg	0.5 0.5				<0.5 <0.5	-	-	-	-	-	-	-	-	-	-
1,1,2,2-tetrachloroethane 1,1,2-trichloroethane	mg/kg mg/kg	0.5 0.5				<0.5 <0.5	-	-	-	-	-	-	-	-	-	-
1,1-dichloroethane 1,1-dichloroethene	mg/kg mg/kg	0.5 0.5				<0.5 <0.5	-	-	-	-	-	-	-	-	-	-
1,2,3-trichloropropane 1,2-dichloroethane	mg/kg mg/kg	0.5 0.5				<0.5 <0.5	-	-	-	-	-	-	-	-	-	-
1,2-dichloropropane 1,3-dichloropropane	mg/kg ma/ka	0.5 0.5				<0.5 <0.5	-	-	-	-	-	-	-	-	-	-
Bromochloromethane	mg/kg	0.5 0.5				<0.5 <0.5	-	-	-	-	-	-	-	-	-	-
Bromoform Carbon tetrachloride	mg/kg	0.5				<0.5	-	-	-	-	-	-	-	-	-	-
Chlorodibromomethane Chloroethane	mg/kg	0.5				<0.5	-	-	-	-	-	-	-	-	-	-
Chloroform Chloromethane	mg/kg	0.5				<0.5	-	-	-	-	-	-	-	-	-	-
cis-1,2-dichloroethene	mg/kg	0.5				<0.5	-	-	-	-	-	-	-	-	-	-
Dibromomethane Dichloromethane	mg/kg mg/kg	0.5 0.5				<0.5 <0.5	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene Trichloroethene	mg/kg ma/ka	0.5 0.5	11	2.8		<0.5 <0.5	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene trans-1.2-dichloroethene	mg/kg ma/ka	0.5 0.5				<0.5 <0.5	-	-	-	-	-	-	-	-	-	-
trans-1,3-dichloropropene Vinvl chloride	mg/kg ma/ka	0.5 0.5	4.8	1.2		<0.5 <0.5	-	-	-	-	-	-	-	-	-	-
Halogenated Benzenes	ma/ka	0.5				<0.5	-	-	-	-	-	-	-		-	-
1,2-dichlorobenzene 1.3-dichlorobenzene	mg/kg	0.5				<0.5	-	-	-	-	-	-	-	-	-	-
1,4-dichlorobenzene 4-chlorotoluene	mg/kg	0.5				<0.5	-	-	-	-	-	-	-	-	-	-
Bromobenzene Chlorobenzene	mg/kg ma/ka	0.5				<0.5	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene Halogenated Hydrocarbons	mg/kg	0.05				<0.05	-	-	-	-	-	-	-	-	-	-
1,2-dibromoethane Bromomethane	mg/kg mg/kg	0.5 0.5				<0.5 <0.5	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane	mg/kg	0.5				<0.5	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane Herbicides	mg/kg	0.5				<0.5	-	-	-	-	-	-	-	-	-	-
Dinoseb	mg/kg	20				<20	-	-	-	-	-	-	-	-	-	-
Conductivity (1:5 aqueous extract) CEC	uS/cm meg/100g	10 0.05				-	-	-	-	-	-	-	-	-	-	76 35
Cyanide Total Fluoride	mg/kg mg/kg	5 100	10000 40000	2500 10000	50 450	<5 220	-	-	-	-	-	-	-	-	-	-
Moisture Content (dried @ 103°C) MAH	%	1				19	37	25	14	17	20	11	13	17	28	18
Total MAH 1,2,4-trimethylbenzene	mg/kg mg/kg	0.5 0.5				<0.5 <0.5	-	-	-	-	-	-	-	-	-	-
1,3,5-trimethylbenzene Isopropylbenzene	mg/kg mg/kg	0.5 0.5				<0.5 <0.5	-	-	-	-	-	-	-	-	-	-
Styrene Metals	mg/kg	0.5				<0.5	-	-	-	-	-	-	-	-	-	-
Arsenic Cadmium	mg/kg mg/kg	2 0.4	2000 400	500 100	20 3	4.9 <0.4	4.2 <0.4	4.6 <0.4	5.5 <0.4	5.1 <0.4	5.1 <0.4	4 <0.4	5.3 <0.4	5.2 <0.4	4.1 <0.4	-
Chromium (hexavalent) Chromium (III+VI)	mg/kg mg/kg	1 5	2000	500	1	<1 74	- 74	- 75	- 63	- 62	- 50	- 46	- 58	- 44	- 56	-
Copper Iron	mg/kg mg/kg	5 20	20000	5000	100	32	- 65 -	- 58	57	39	40	21	- 29	32	32	- 38,000
Lead Mercury	mg/kg mg/kg	5 0.1	6000 300	1500 75	300 1	9.4 <0.1	11 <0.1	10 <0.1	11 <0.1	11 <0.1	8.4 <0.1	7.2 <0.1	8.7 <0.1	7.5 <0.1	7.6 <0.1	-
Molybdenum Nickel	mg/kg mg/kg	5 5	4000 12000	1000 3000	40 60	<5 91	<5 88	<5 87	<5 73	<5 78	<5 57	<5 57	<5 77	<5 98	<5 78	-
Selenium Silver	mg/kg mg/kg	2 2	200 720	50 180	10 10	<2 <2	-									
Tin Zinc	mg/kg mg/kg	10 5	140000	500 35000	50 200	<10 74	<10 84	<10 90	<10 94	<10 79	<10 96	<10 48	<10 66	<10 59	<10 61	
Organochlorine Pesticides Organochlorine pesticides EPAVic	mg/kg	0.1				<0.1		-	-				-	-	-	
Other organochlorine pesticides EPAVic 4,4-DDE	mg/kg mg/kg	0.1 0.05				<0.1		-	-	· ·				-		
a-BHC Aldrin	mg/kg mg/kq	0.05				<0.05 <0.05	-	-	-	-	-	-	-	-	-	-
Aldrin + Dieldrin b-BHC	mg/kg mg/kg	0.05	4.8	1.2		<0.05 <0.05	-	-	-	-	-	-	-	-	-	-
chlordane d-BHC	mg/kg mg/kg	0.1 0.05	16	4		<0.1 <0.05	-	-	-	•	-	-	-	-	-	-
DDD DDT	mg/kg mg/kq	0.05				<0.05 <0.05	-	-	-	-	-	-	-	-	-	-
DDT+DDE+DDD Dieldrin	mg/kg mg/kq	0.05	50	50		<0.05 <0.05	-	-	-	· ·	-	-	-	-	-	-
Endosulfan I Endosulfan II	mg/kg mg/kq	0.05				<0.05 <0.05	-	-	-	•	-	-	-	-	-	-
Endosulfan sulphate Endrin	mg/kg mg/kq	0.05				<0.05 <0.05	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	mg/kg	0.05				<0.05		-		-	-	-	-	-	-	-

Table 1: Soil Classification Results

					Field_ID	HA01/0.1	HA02/0.1	HA03/0.1	HA04/0.1	HA05/0.1	HA06/0.1	HA07/0.1	HA08/0.1	HA09/0.1	HA10/0.1	HA11/0.1
					Sampled_Date-Time	10/02/2021	10/02/2021	10/02/2021	10/02/2021	10/02/2021	10/02/2021	10/02/2021	10/02/2021	10/02/2021	10/02/2021	10/02/2021
					Lab_Report_Number	773462	773462	773462	773462	773462	773462	773462	773462	773462	773462	773462
			1828.2 Category	1828.2 Category	1828.2 Fill Material											
			B Upper limits	C Upper limits	Upper Limit(s)											
ChemName	Units	EQL	1													
Endrin ketone	mg/kg	0.05				< 0.05	-	-	-	-	-		-	-	-	-
g-BHC (Lindane)	mg/kg	0.05				< 0.05	-	-	-	-	-	-	-	-	-	-
Heptachlor	mg/kg	0.05	4.8	1.2		< 0.05	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	mg/kg	0.05				< 0.05	-	-	-	-	-	-	-	-	-	-
Methoxychlor	mg/kg	0.05				< 0.05	-	-	-	-	-	-	· ·	-	-	-
Toxaphene	mg/kg	0.1				<0.1	-	-	-	-	-	-	· ·	-	-	-
PAH																
Acenaphthene	mg/kg	0.5				<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
Acenaphthylene	mg/kg	0.5				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
Anthracene	mg/kg	0.5				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	-
Benz(a)anthracene	mg/kg	0.5				<0.5	<0.5	<0.5	0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	-
Benzo(a) pyrene	mg/kg	0.5	20	5	1	<0.5	<0.5	< 0.5	0.6	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	-
Benzo(b+j)fluoranthene	mg/kg	0.5				<0.5	<0.5	< 0.5	1	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	-
Benzo(g,h,i)perylene	mg/kg	0.5				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	-
Benzo(k)fluoranthene	mg/kg	0.5				<0.5	<0.5	<0.5	0.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
Chrysene	mg/kg	0.5				<0.5	<0.5	<0.5	0.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
Dibenz(a,h)anthracene	mg/kg	0.5				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	-
Fluoranthene	mg/kg	0.5				<0.5	<0.5	<0.5	1.4	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	-
Fluorene	mg/kg	0.5				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	-
Indeno(1,2,3-c,d)pyrene	mg/kg	0.5				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
Naphthalene	mg/kg	0.5				<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	< 0.5	<0.5	<0.5	-
Phenanthrene	mg/kg	0.5				<0.5	<0.5	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
Pyrene	mg/kg	0.5				<0.5	<0.5	<0.5	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
Benzo(a)pyrene TEQ calc (Half)	mg/kg	0.5				0.6	0.6	0.6	1.1	0.6	0.6	0.6	0.6	0.6	0.6	-
Benzo(a)pyrene TEQ (LOR)	mg/kg	0.5				1.2	1.2	1.2	1.4	1.2	1.2	1.2	1.2	1.2	1.2	-
Benzo(a)pyrene TEQ calc (Zero)	mg/kg	0.5				<0.5	<0.5	<0.5	0.8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
PAHs (Sum of total)	mg/kg	0.5	400	100	20	<0.5	<0.5	<0.5	6.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
PCBs																
Arochlor 1016	mg/kg	0.1				<0.1	-	-	-	-	-	-	-	-	-	-
Arochlor 1221	mg/kg	0.1				<0.1	-	-	-	-	-	-	-	-	-	-
Arochlor 1232	mg/kg	0.1				<0.1		-	-	-	-	-			-	-
Arochlor 1242	mg/kg	0.1				<0.1		-	-	-	-	-			-	-
Arochlor 1248	mg/kg	0.1				<0.1	-	-	-	-	-		-	-	-	-
Arochlor 1254	mg/kg	0.1				<0.1	-	-	-	-	-	-	-		-	-
Arochlor 1260	mg/kg	0.1				<0.1	-	-	-	-	-	-	-		-	-
PCBs (Sum of total)	mg/kg	0.1	0	0	2	<0.1	-	-	-	-	-	-	-	-	-	-
Solvents		_														
Methyl Ethyl Ketone	mg/kg	0.5				<0.5	-		-		-					
4-Methyl-2-pentanone	mg/kg	0.5				<0.5	-	-	-	-	-	-			-	•
Acetone	mg/kg	0.5				<0.5					-					
Allyl chloride	mg/kg	0.5				<0.5	-	-	-	-	-	-			-	-
Carbon disulfide	mg/kg	0.5				<0.5	-			-	-		-	-	-	-
TPH		0/00	(==	4.55			1									
010.011	mg/kg	20	2600	650	100	<20	<20		<20	<20	<20	<20		<20		
015 020	mg/kg	20				<20	<20		<20	<20	<20	<20		<20		
010-028	mg/kg	50				<50	<50		<50	<50	<50	<50		<50		
010 000	mg/kg	50	10000	10000	1000	<50	<50		<50	<50	<50	<50		<50		
U1U-U3D	mg∕ kg	50	40000	10000	1000	<50	<50	-	<50	<50	<50	<50	-	<50	-	-

Table 2: Results Summary for onsite use

					Sampled_Date-Time	10/02/2021 773462	10/02/2021 773462	10/02/2021 773462	HA04/0.1 10/02/2021 773462	10/02/2021 773462	10/02/2021 773462	10/02/2021 773462	10/02/2021 773462	10/02/2021 773462	10/02/2021 773462	10/02/2021 773462
				NEPM 2013 Table 1A(1) HILs & HSLs	NEPM 2013 EILs & ESLs - Residential	113402	113402	113402	113402	113402	173402	173402	113402	173402	113402	113402
_				Res A Soil	_											
Ch	nemName Iron (%)	Units %	EQL 0.01	0-1m			-	-	-		-	-	-	-		3.8
Pa	% Clay*	%	1			· ·	-	-	-	-	-		-	-	-	10
PI	2,4,5-Trichlorophenol	mg/kg ma/ka	1			<1 <1	-	-	-	-	-	-	-	-	-	-
	2,4-Dichlorophenol 2,4-Dimethylphenol	mg/kg mg/kg	0.5 0.5			<0.5	-	-	-	-	-	· ·	-	-	-	-
	2,4-Dinitrophenol 2,6-Dichlorophenol	mg/kg mg/kg	5 0.5			<5 <0.5	-	-	-	-	-	-	-	-	-	-
	2-Chlorophenol 2-Methylphenol	mg/kg mg/kg	0.5 0.2			<0.5 <0.2	-	-	-	-	-	-	-	-	-	-
	2-Nitrophenol 4,6-Dinitro-2-methylphenol	mg/kg mg/kg	1 5			<1 <5	-	-	-	-	-	· ·	-	-	-	-
	4.o-Diffit 0-0-Cyclonexyl phenol 4-chloro-3-methylphenol 4-Nitrophenol	mg/kg mg/kg	1			<20	-	-	-		-	· ·	-	-	-	-
	Pentachlorophenol Tetrachlorophenols	mg/kg mg/kg	1 10	100		<1 <10	-	-	-	-	-	- -	-	-	-	-
	Phenol Phenols (Total Halogenated)	mg/kg mg/kg	0.5 1	3000		<0.5 <1	-	-	-	-	-	-	-	-	-	-
S١	Phenois (Total Non Halogenated) /OC 3&4-Methylphenol (m&p_Cresol)		20			<20	-	-	-	-	-	-	· ·	-	-	-
TR	C6-C10	mg/kg	20			<20	<20	-	<20	<20	<20	<20	-	<20	-	-
	C6-C10 (F1 minus BTEX) C10-C16	mg/kg mg/kg	20 50	40	180	<20 <50	<20 <50	-	<20 <50	<20 <50	<20 <50	<20 <50	-	<20 <50	-	-
	C10-C16 (F2 minus Naphthalene) C16-C34	mg/kg mg/kg	50 100	110	120 300	<50 <100	<50 <100	-	<50 <100	<50 <100	<50 <100	<50 <100	-	<50 <100	-	-
BI	C34-C40 C10-C40 (Sum of total)	mg/kg	100		2800	<100	<100	-	<100	<100	<100	<100	-	<100	-	-
	Benzene	mg/kg mg/kg	0.1 0.1	0.5	50 85	<0.1 <0.1	-	-	-	-	-	-	-	-	-	-
	Ethylbenzene Xylene (m & p)	mg/kg mg/kg	0.1 0.2	55	70	<0.1 <0.2	-	-	-	-	-		-	-	-	-
Ch	Xylene (o) Xylene Total	mg/kg mg/kg	0.1 0.3	40	45	<0.1 <0.3	-	-	-	-	-	-	-	-	-	-
ľ	Chlorinated hydrocarbons EPAVic Other chlorinated hydrocarbons EPAVic	mg/kg	0.5			<0.5 <0.5	-	-	-	-	-	-	-	-	-	-
	1,1,1,2-tetrachloroethane 1,1,1-trichloroethane	mg/kg mg/kg	0.5 0.5			<0.5	-	-	-	-	-	-	-	-	-	-
	1,1,2,2-tetrachloroethane	mg/kg mg/kg	0.5			<0.5 <0.5	-	-	-	-	-	-	-	-	-	-
	1,1-dichloroethane 1,1-dichloroethene	mg/kg mg/kg	0.5			<0.5 <0.5	-	-	-	-	-	- -	-	-	-	-
	1,2-dichloropropane	mg/kg mg/kg ma/ka	0.5			<0.5 <0.5 <0.5	-	-	-	-	-	· ·	-	-	-	-
	1,3-dichloropropane Bromochloromethane	mg/kg mg/kg	0.5 0.5			<0.5 <0.5	-	-	-	-	-	-	-	-	-	-
	Bromodichloromethane Bromoform	mg/kg mg/kg	0.5 0.5			<0.5 <0.5	-	-	-	-	-	-	-	-	-	
	Carbon tetrachloride Chlorodibromomethane	mg/kg mg/kg	0.5			<0.5	-	-	-	-	-	 -	-	-	-	-
	Chloroform Chloromethane	mg/kg mg/kg	0.5			<0.5	-	-	-	-	-	-	-	-	-	-
	cis-1,2-dichloroethene cis-1,3-dichloropropene	mg/kg mg/kg	0.5 0.5			<0.5 <0.5	-	-	-	-	-	-	-	-	-	-
	Dibromomethane Dichloromethane	mg/kg mg/kg	0.5 0.5			<0.5 <0.5	-	-	-	-	-	-	-	-	-	-
	Hexachlorobutadiene Trichloroethene	mg/kg mg/kg	0.5			<0.5 <0.5	-	-	-	-	-	-	-	-	-	-
	trans-1,2-dichloropthene trans-1,3-dichloropthene	mg/kg mg/kg	0.5			<0.5	-	-	-	-	-	-	-	-	-	-
Ha	Vinyl chloride alogenated Benzenes	mg/kg	0.5			<0.5	-	-	-	-	-	-	-	-	-	-
	1,2,4-trichlorobenzene 1,2-dichlorobenzene	mg/kg mg/kg	0.5 0.5			<0.5 <0.5	-	-	-	-	-	-	-	-	-	-
	1,3-dichlorobenzene 1,4-dichlorobenzene 4-chlorotoluene	mg/kg mg/kg	0.5			<0.5 <0.5	-	-	-	-	-	- -	-	-	-	-
	Bromobenzene Chlorobenzene	mg/kg mg/kg	0.5 0.5 0.5			<0.5	-	-	-		-	-			-	
Ha	Hexachlorobenzene alogenated Hydrocarbons	mg/kg	0.05	10		<0.05	-	-	-	-	-	-	-	-	-	-
	1,2-dibromoethane Bromomethane	mg/kg mg/kg	0.5 0.5			<0.5 <0.5	-	-	-	-	-	-	-	-	-	-
	Iodomethane Trichlorofluoromethane	mg/kg mg/kg	0.5			<0.5	-	-	-	-	-	-	-	-	-	-
He	erbicides Dinoseb	mg/kg	20			<20	-	-	-	-	-	· ·	-	-	-	-
In	organics Conductivity (1:5 aqueous extract)	uS/cm	10			-	-	-	-	-	-	-	-	-	-	76
	CEC Cyanide Total	meq/100g mg/kg	0.05 5			- <5 220	-	-	-	-	-	-	-	-	-	- 35
м	Moisture Content (dried @ 103°C) AH	/// Kg %	1			19	37	25	14	17	20	11	13	17	28	18
	Total MAH 1,2,4-trimethylbenzene	mg/kg mg/kg	0.5 0.5			<0.5 <0.5	-	-	-	-	-	-	-	-	-	-
	1,3,5-trimethylbenzene Isopropylbenzene	mg/kg mg/kg	0.5			<0.5 <0.5	-	-	-	-	-	-	-	-	-	-
М	etals Arsenic	mg/kg	0.5	100	100	<0.5	-	-	- 55	- 51	- 51	-		52	41	-
	Cadmium Chromium (hexavalent)	mg/kg mg/kg	2 0.4 1	20 100	100	<0.4 <1	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	
	Chromium (III+VI) Copper	mg/kg mg/kg	5 5	6000	330 230	74 32	74 65	75 58	63 57	62 39	50 40	46 21	58 29	44 32	56 32	-
	Iron Lead	mg/kg mg/kg	20 5	300	1100	- 9.4	- 11	- 10	- 11	- 11	- 8.4	- 7.2	- 8.7	- 7.5	- 7.6	38,000
	Molybdenum Nickel	mg/kg mg/ka	5 5	40	390	<u. i<br=""><5 91</u.>	<u. i<br=""><5 88</u.>	<u. i<br=""><5 87</u.>	<u.1 <5 73</u.1 	<0.1 <5 78	<u.1 <5 57</u.1 	<u. 1<br=""><5 57</u.>	<0.1 <5 77	<u. 1<br=""><5 98</u.>	<0.1 <5 78	-
	Selenium Silver	mg/kg mg/kg	2	200		<2 <2 <2	<2	<2 <2 <2	<2 <2 <2	<2 <2	<2 <2 <2	<2 <2 <2	<2 <2 <2	<2 <2	<2 <2 <2	-
L	Tin Zinc	mg/kg mg/kg	10 5	7400	1100	<10 74	<10	<10 90	<10 94	<10 79	<10 96	<10 48	<10 66	<10 59	<10 61	-
	ganochlorine Pesticides Organochlorine pesticides EPAVic Other organochlorine pesticides EPAVic	mg/kg	0.1			<0.1	-	-	-	-	-	-	-	-	-	-
	4,4-DDE a-BHC	mg/kg mg/kg	0.1			<0.1 <0.05 <0.05	-	-	-	-	-	-	-	-	-	-
	Aldrin Aldrin + Dieldrin	mg/kg mg/kg	0.05	6		<0.05	-	-	-	-	-	-	-	-	-	-
	b-BHC chlordane	mg/kg mg/kg	0.05	50		<0.05 <0.1	-	-	-	-	-	-	-	-	-	-
	a-RHC DDD	mg/kg mg/kg	0.05		100	<0.05 <0.05	-	-	-	-	-	-	-	-	-	-
	DDT+DDE+DDD Dieldrin	mg/kg mg/ka	0.05	240	100	<0.05 <0.05	-	-	-	-	-	-				-
	Endosulfan I Endosulfan II	mg/kg mg/kg	0.05			<0.05 <0.05	-	-	-	-	-	-	-	-	-	-
	Endosulfan sulphate	mg/kg mg/kg	0.05	10		<0.05 <0.05	-	-	-	-	-	-	-	-	-	-
	End In aldenyde	muuz Ku	4U.UD			<0.05										

Table 2: Results Summary for onsite use

				Field_ID	HA01/0.1	HA02/0.1	HA03/0.1	HA04/0.1	HA05/0.1	HA06/0.1	HA07/0.1	HA08/0.1	HA09/0.1	HA10/0.1	HA11/0.1
				Sampled_Date-Time	10/02/2021	10/02/2021	10/02/2021	10/02/2021	10/02/2021	10/02/2021	10/02/2021	10/02/2021	10/02/2021	10/02/2021	10/02/2021
				Lab_Report_Number	773462	773462	773462	773462	773462	773462	773462	773462	773462	773462	773462
			NEPM 2013 Table	NEPM 2013 EILs &											
			1A(1) HILs & HSLs	ESLs - Residential											
			Res A Soil												
			_												
ChemName	Units	EQL	0-1m												
Endrin ketone	mg/kg	0.05			< 0.05	-	-	-	-	-	-	-	-	-	-
g-BHC (Lindane)	mg/kg	0.05			< 0.05	-	-	-	-	-	-	-	-	-	-
Heptachlor	mg/kg	0.05	6		< 0.05	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	mg/kg	0.05			< 0.05	-	-	-	-	-	-	-	-	-	-
Methoxychlor	mg/kg	0.05	300		< 0.05	-	-	-	-	-	-	-	-	-	-
Toxaphene	mg/kg	0.1	20		<0.1	-	-	-	-	-	-	-	-	-	-
PAH															
Acenaphthene	mg/kg	0.5			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
Acenaphthylene	mg/kg	0.5			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
Anthracene	mg/kg	0.5			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
Benz(a)anthracene	mg/kg	0.5			<0.5	<0.5	<0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
Benzo(a) pyrene	mg/kg	0.5		0.7	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
Benzo(b+j)fluoranthene	mg/kg	0.5			<0.5	<0.5	<0.5	1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
Benzo(g,h,i)perylene	mg/kg	0.5			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
Benzo(k)fluoranthene	mg/kg	0.5			<0.5	<0.5	<0.5	0.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
Chrysene	mg/kg	0.5			<0.5	<0.5	<0.5	0.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
Dibenz(a,h)anthracene	mg/kg	0.5			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
Fluoranthene	mg/kg	0.5			<0.5	<0.5	<0.5	1.4	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
Fluorene	mg/kg	0.5			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
Indeno(1,2,3-c,d)pyrene	mg/kg	0.5			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
Naphthalene	mg/kg	0.5	3	170	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
Phenanthrene	mg/kg	0.5			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
Pyrene	mg/kg	0.5			<0.5	<0.5	<0.5	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
Benzo(a)pyrene TEQ calc (Half)	mg/kg	0.5			0.6	0.6	0.6	1.1	0.6	0.6	0.6	0.6	0.6	0.6	-
Benzo(a)pyrene TEQ (LOR)	mg/kg	0.5			1.2	1.2	1.2	1.4	1.2	1.2	1.2	1.2	1.2	1.2	-
Benzo(a)pyrene TEQ calc (Zero)	mg/kg	0.5			<0.5	<0.5	<0.5	0.8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
PAHs (Sum of total)	mg/kg	0.5	300		<0.5	<0.5	<0.5	6.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-
PCBs															
Arochlor 1016	mg/kg	0.1			<0.1	-	-	-	-	-	-	-	-		-
Arochlor 1221	mg/kg	0.1			<0.1	-	-	-	-	-	-	-	-		-
Arochlor 1232	mg/kg	0.1			<0.1	-	-	-	-	-	-	-	-		-
Arochlor 1242	mg/kg	0.1			<0.1	-	-	-	-	-	-	-	-		-
Arochlor 1248	mg/kg	0.1			<0.1	-	-	-	-	-	-	-	-	-	-
Arochlor 1254	mg/kg	0.1			<0.1	-	-	-	-	-	-	-	-	-	-
Arochlor 1260	mg/kg	0.1			<0.1	-	-	-	-	-	-	-	-		-
PCBs (Sum of total)	mg/kg	0.1	1		<0.1	-	-	-	-	-	-	-	-	-	-
Solvents		_													
Methyl Ethyl Ketone	mg/kg	0.5			<0.5	-	-	-	-	-	-	-	-		-
4-Methyl-2-pentanone	mg/kg	0.5			<0.5	-	-	-	-	-	-	-	-	-	-
Acetone	mg/kg	0.5			<0.5	-	-	-	-	-	-	-	-		<u> </u>
Allyl chloride	mg/kg	0.5			<0.5	-	-	-	-	-	-	-	-	-	-
Carbon disulfide	mg/kg	0.5			<0.5		-	-	-	-	-	-		<u> </u>	<u> </u>
ГР <u>Н</u>		_													
C6-C9	mg/kg	20			<20	<20	-	<20	<20	<20	<20	-	<20	<u> </u>	· ·
C10-C14	mg/kg	20			<20	<20	-	<20	<20	<20	<20	-	<20	<u> </u>	· ·
C15-C28	mg/kg	50			<50	<50	-	<50	<50	<50	<50	-	<50	-	-
C29-C36	mg/kg	50			<50	<50	-	<50	<50	<50	<50	-	<50	<u> </u>	· ·
C10-C36	mg/kg	50			<50	<50	-	<50	<50	<50	<50	-	<50		-

NEPM table.xlsx , 19/03/2021

32 Fiv 91 Fiv 91: 61	eways Boulevard 3-8796 7900 Fi	1, Keysborough, Victoria ax: 61-3-87967944	3173 Chair	n of Custody (CO	C)	Sheet	of 2
Tonkin & Taylor Level	4, 111 Coventry -3-9863 8686 F	Street, Southbank, Victo ax: 61-3-9863 8685	ia 3006		ī	Seriel No.	.213
Laboratory: EU20F	-125	Address: & M.	DENONG STH	Analysis Required:			
Project Name: SUPE	PEANK EST	3, + C Project Manager れた	: Tom MADILL	(14
Samplers Name: N ₁₅₅	WIJEKOON	Job Number: 26	002964-2000	(7		14	
Comment/Instruction:	s: JEND D	EJULTS 707		1 1 		1/12 3	-det.
TMADILL @	TONKIN	TAYLOR-COM-	٩. U	25	-	Chutteói	
NWIJEKOON	V@ TONI	KIN TAYLOR- CI	UM-MU	0			
Container Type & Preser	vation Codes: I-	ce, P-Plastic, G-Glass, V-Vi	al, N- Nitric Acid	70 5 5 7 7 7 7 7 7			1
Preserved, C-Hydrochlori	c Acid Preserved,	>->ulphuric Acid Preserve	a	T WW J FI		1 10	
Sample ID Sample Dat	e	iample Matrix <i>(e.g soil,</i> <i>water etc)</i>	Container/Preservative Type (e.g. glass, vial etc)	L D D D D D D D D D D		Notes	
HA01 10.1 10.022	1	Solu	GLASS JAC				
HA0/10.1							
1.0 4000							
HM 21/2.)				~			
HA02/0.25				~			
HA0510-1							
105 10 Sel 100 H							
100,101				× / ×			
(dA 04/2.1	_			>			
1. OKCWA							
1/2/2/0/							
HA0601							
Co/ 40.01							
THOHON					_		
Con Marine							
10000 10 C							
1 1 95 101			//				
V 246041		V	A				
Results Requested M	/ithin: 24	thrs 48hrs	days) Total:	8861010		1220	105 BL
Relinquished By: MISS	WIJEROON	Received By:		Relinquished By:	Rec	eived By:	
Signature:	Date:	Signature:	Date:	Signature:	ate: Sign	ature:	Date:
Company:	Time:	Company:	Time:	Company:	ime: Corr	pany:	Time:

nain of Custody (COC) Sheet 2 of 2 Seriel No.1214	Analysis Required:	(1	2.7	()))))))))))))))))))	170 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	ative ECT JER H Notes									Total: 1 1 0 0 1 4 773462BL	Relinquished By: Received By:	Signature: Date: Signature: Date:	
Keysborough, Victoria 317 :: 61-3-8796 7944 reet, Southbank, Victoria 3 :: 61-3-9863 8685	Address:	Project Manager:	Job Number:		b, P-Plastic, G-Glass, V-Vial, P-Sulphuric Acid Preserved	mple Matrix <i>(e.g soil,</i> C water etc) Ty	Solt				>				hrs 48hrs 5 da	Received By:	Signature:	
2 Fiveways Boulevard, h: 61-3-8796 7900 Fax evel 4, 111 Coventry Sti h: 61-3-9863 8686 Fax				tions:	reservation Codes: I-Ice Moric Acid Preserved S-	e Date Time Sal	12:20								ed Within: 24		Date.	ככי.
Tonkin & Taylor	Laboratory:	Project Name:	Samplers Name:	Comment/Instruc	Container Type & P	Sample ID Sample	HM9 101 10-0	MAN 610.21)	COM DIS.	1911 19 P	HA12/0-3				Results Request	Relinguished By:	Signature.	



ABN: 50 005 085 521

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New Zealand

Australia

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 Muraris QLD 4172

 Lane Cove West NSW 2066
 Phone : +61 7 3902 4600

 Phone : +61 2 9900 8400
 NATA # 1261 Site # 10017
 NATA # 1261 Site # 18217

1/21 Smallwood Place NATA # 1261 Site # 20794

Perth 2/91 Leach Highway Kewdale WA 6105 Phone : +61 8 9251 9600 NATA # 1261 Site # 23736

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

Auckland 35 O'Rorke Road Penrose, Auckland 1061 Phone : +64 9 526 45 51 IANZ # 1327

Christchurch 43 Detroit Drive Rolleston, Christchurch 7675 Phone : 0800 856 450 IANZ # 1290

Sample Receipt Advice

Company name:	Tonkin & Taylor P/L
Contact name:	Thomas Madill
Project name:	SUPER LOTS A B C UNDERBANK ESTATE
Project ID:	1005964-2000
Turnaround time:	5 Day
Date/Time received	Feb 11, 2021 3:43 PM
Eurofins reference	773462

Sample Information

- A detailed list of analytes logged into our LIMS, is included in the attached summary table. 1
- All samples have been received as described on the above COC.
- COC has been completed correctly.
- Attempt to chill was evident.
- Appropriately preserved sample containers have been used.
- All samples were received in good condition.
- Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- Appropriate sample containers have been used.
- Sample containers for volatile analysis received with zero headspace.
- X Split sample sent to requested external lab.
- X Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Harry Bacalis on phone : or by email: HarryBacalis@eurofins.com

Results will be delivered electronically via email to Thomas Madill - tmadill@tonkintaylor.com.au. Note: A copy of these results will also be delivered to the general Tonkin & Taylor P/L email address.

Global Leader - Results you can trust

	eurofi	ns			Australia											New Zealand	
ABN: 5	0 005 085 521 web;	www.eurofins.com.	vironment	Testing	Melbourne 6 Monterey Road Dandenong South VIC 3 Phone : +61 3 8564 5000 NATA # 1261 Site # 1254 & 14271	S U 175 1() La P N	ydney nit F3, f 6 Mars f ane Cov hone : + ATA # 1	Building Road ve West -61 2 99	F NSW 2 000 840 2e # 182	8 1/ 066 Pl 0 N 17	risbane 21 Sma urarrie hone : + ATA # 1	allwood I QLD 41 -61 7 39 I261 Site	Place 172 902 4600 e # 20794	Perth 2/91 Leach Highway Kewdale WA 6105 Phone : +61 8 9251 9600 NATA # 1261 Site # 23736	Newcastle 4/52 Industrial Drive Mayfield East NSW 2304 PO Box 60 Wickham 2293 Phone : +61 2 4968 8448	Auckland 35 O'Rorke Road Penrose, Auckland 1061 Phone : +64 9 526 45 51 IANZ # 1327	Christchurch 43 Detroit Drive Rolleston, Christchurch 7675 Phone : 0800 856 450 IANZ # 1290
Co Ad	mpany Name: dress:	Tonkin & T Level 3, 99 Southbank VIC 3006	aylor P/L Coventry St				O Re Pi Fa	rder N eport none: ax:	No.: #:		7346)3 986)3 986	2 33 868 33 868	36 35		Received: Due: Priority: Contact Name:	Feb 11, 2021 3:43 Feb 18, 2021 5 Day Thomas Madill	PM
Pro Pro	oject Name: oject ID:	SUPER LC 1005964-2	OTS A B C UNE 000	DERBANK EST	ΓΑΤΕ										Eurofins Analytical S	ervices Manager : Ha	nrry Bacalis
		S	Sample Detail			HOLD	Polycyclic Aromatic Hydrocarbons	Metals IWRG 621 : Metals M12	Moisture Set	NEPM Screen for Soil Classification	Total Recoverable Hydrocarbons	Vic EPA IWRG 621 (Solids)					
Melb	ourne Laborate	ory - NATA Sit	e # 1254 & 14	271		Х	X	Х	X	X	Х	X	-				
Sydr	ney Laboratory	- NATA Site #	18217										-				
Bris	bane Laborator	y - NATA Site	# 20794							X			-				
Pert	h Laboratory - I	NATA Site # 2	3736										-				
Exto	real Laboratory	y ,											-				
No	Sample ID	Sample Date	e Sampling Time	Matrix	LAB ID								-				
1	HA01/0.1	Feb 10, 2021		Soil	M21-Fe23556				х			x					
2	HA02/0.1	Feb 10, 2021		Soil	M21-Fe23557		X	Х	Х		Х]				
3	HA03/0.1	Feb 10, 2021		Soil	M21-Fe23558		Х	Х	Х								
4	HA04/0.1	Feb 10, 2021		Soil	M21-Fe23559		X	Х	Х		х						
5	HA05/0.1	Feb 10, 2021		Soil	M21-Fe23560		X	Х	Х		Х		4				
6	HA06/0.1	Feb 10, 2021		Soil	M21-Fe23561		X	Х	Х		Х		4				
7	HA07/0.1	Feb 10, 2021		Soil	M21-Fe23562		X	Х	X		Х		-				
8	HA08/0.1	Feb 10, 2021		Soil	M21-Fe23563		X	Х	Х		<u> </u>	<u> </u>	4				
9	HA09/0.1	Feb 10, 2021		Soil	M21-Fe23564		Х	Х	Х		Х]				

🔅 eurofi	ns		Australia											New Zealand	
ABN: 50 005 085 521 web:	www.eurofins.com.a	vironment Testing	Melbourne 6 Monterey Road Dandenong South VIC 3 Phone : +61 3 8564 5000 NATA # 1261 Site # 1254 & 14271	5 175 10 0 La P N	ydney Init F3, E 6 Mars I ane Cov hone : + ATA # 2	Building Road /e West -61 2 99	F t NSW 2 900 840 te # 182	8 1, 066 P 0 N 17	risbane (21 Sma lurarrie hone : + ATA # 1	allwood F QLD 41 61 7 390 1261 Site	Perth lace 2/91 Leach High 72 Kewdale WA 610 02 4600 Phone : +61 8 92 # 20794 NATA # 1261 Site # 23736	hway 105 9251 9600	Newcastle 4/52 Industrial Drive Mayfield East NSW 2304 PO Box 60 Wickham 2293 Phone : +61 2 4968 8448	Auckland 35 O'Rorke Road Penrose, Auckland 1061 Phone : +64 9 526 45 51 IANZ # 1327	Christchurch 43 Detroit Drive Rolleston, Christchurch 7675 Phone : 0800 856 450 IANZ # 1290
Company Name: Address: Project Name:	Tonkin & Ta Level 3, 99 Southbank VIC 3006 SUPER LO	iylor P/L Coventry St TS A B C UNDERBANK ES	TATE		O Re Pl Fa	rder M eport hone: ax:	No.: #:		77346)3 986)3 986	2 53 868 53 868	6 5		Received: Due: Priority: Contact Name:	Feb 11, 2021 3:43 Feb 18, 2021 5 Day Thomas Madill	РМ
Project ID:	1005964-20	000											Eurofins Analytical S	ervices Manager : Ha	arry Bacalis
	Sa	ample Detail		HOLD	Polycyclic Aromatic Hydrocarbons	Metals IWRG 621 : Metals M12	Moisture Set	NEPM Screen for Soil Classification	Total Recoverable Hydrocarbons	Vic EPA IWRG 621 (Solids)					
Melbourne Laborato	ory - NATA Site	e # 1254 & 14271		X	X	Х	X	X	Х	X					
Sydney Laboratory	- NATA Site # '	18217						×							
Brisbane Laborator	Y - NAIA Site #	‡ 20794 726						X							
Mayfield Laboratory - n	<u>NATA Site # 23</u>	/ 30													
External Laboratory	y														
10 HA10/0.1	Feb 10, 2021	Soil	M21-Fe23565		x	X	x								
11 HA11/0.1	Feb 10, 2021	Soil	M21-Fe23566				X	x							
12 HA01/0.5	Feb 10, 2021	Soil	M21-Fe23567	х											
13 HA02/0.5	Feb 10, 2021	Soil	M21-Fe23568	Х											
14 HA02/0.75	Feb 10, 2021	Soil	M21-Fe23569	Х											
15 HA03/0.5	Feb 10, 2021	Soil	M21-Fe23570	Х											
16 HA04/0.5	Feb 10, 2021	Soil	M21-Fe23571	Х											
17 HA05/0.5	Feb 10, 2021	Soil	M21-Fe23572	Х											
18 HA06/0.5	Feb 10, 2021	Soil	M21-Fe23573	х											
19 HA07/0.3	Feb 10, 2021	Soil	M21-Fe23574	Х											
20 HA08/0.4	Feb 10, 2021	Soil	M21-Fe23575	Х											

	eurofins			Australia										New Zealand		
ABN: 5	0 005 085 521 web: w	En vww.eurofins.com	vironment '	Testing	Melbourne 6 Monterey Road Dandenong South VIC 3 Phone : +61 3 8564 5000 NATA # 1261 Site # 1254 & 14271	S U 175 1 D L P N	ydney Init F3, I 6 Mars ane Cov hone : - IATA #	Building Road ve Wesi +61 2 9 1261 Si	F NSW 2 900 840 te # 182	8 1/ 2066 P 0 N 17	risban /21 Sm lurarrie hone : ATA #	e allwood Pla QLD 417: +61 7 3902 1261 Site s	Perth ace 2/91 Leach Highway 2 Kewdale WA 6105 2 4600 Phone : +61 8 9251 9600 # 20794 NATA # 1261 Site # 23736 Site # 23736	Newcastle 4/52 Industrial Drive Mayfield East NSW 2304 PO Box 60 Wickham 2293 Phone : +61 2 4968 8448	Auckland 35 O'Rorke Road Penrose, Auckland 1061 Phone : +64 9 526 45 51 IANZ # 1327	Christchurch 43 Detroit Drive Rolleston, Christchurch 7675 Phone : 0800 856 450 IANZ # 1290
Co Ad	mpany Name: dress:	Tonkin & T Level 3, 99 Southbank VIC 3006	Faylor P/L O Coventry St				O R Pl Fa	rder I eport hone: ax:	No.: #:	- () ()	77346 03 98 03 98	2 63 8686 63 8685		Received: Due: Priority: Contact Name:	Feb 11, 2021 3:43 Feb 18, 2021 5 Day Thomas Madill	РМ
Pro Pro	oject Name: oject ID:	SUPER LC 1005964-2	DTS A B C UNDI 2000	ERBANK EST	ATE									Eurofins Analytical S	Services Manager : H	arry Bacalis
		Ş	Sample Detail			HOLD	Polycyclic Aromatic Hydrocarbons	Metals IWRG 621 : Metals M12	Moisture Set	NEPM Screen for Soil Classification	Total Recoverable Hydrocarbons	Vic EPA IWRG 621 (Solids)				
Melb	ourne Laborato	ry - NATA Si	te # 1254 & 142	71		Х	X	Х	X	Х	Х	X				
Sydr	ney Laboratory -	NATA Site #	18217													
Bris	bane Laboratory	- NATA Site	# 20794							X						
Mav	field Laboratory	ATA Sile # Z	5130						1							
Exte	rnal Laboratory								1							
21	HA09/0.5	Feb 10, 2021		Soil	M21-Fe23576	Х										
22	HA10/0.3	Feb 10, 2021		Soil	M21-Fe23577	Х										
23	HA11/0.2	Feb 10, 2021		Soil	M21-Fe23578	Х										
24	HA12/0.1	Feb 10, 2021		Soil	M21-Fe23579	Х										
25	HA12/0.3	Feb 10, 2021		Soil	M21-Fe23580	Х										
Test	Counts					14	9	9	11	1	6	1				



Tonkin & Taylor P/L Level 3, 99 Coventry St Southbank VIC 3006





NATA Accredited Accreditation Number 1261 Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention:

Thomas Madill

Report Project name Project ID **Received Date** 773462-S SUPER LOTS A B C UNDERBANK ESTATE 1005964-2000 Feb 11, 2021

Client Sample ID			114.04/0.4	114.00/0.4	114.00/0.4	114.04/04
			HA01/0.1	HA02/0.1	HA03/0.1	HA04/0.1
Sample Matrix			5011	5011	5011	5011
Eurofins Sample No.			M21-Fe23556	M21-Fe23557	M21-Fe23558	M21-Fe23559
Date Sampled			Feb 10, 2021	Feb 10, 2021	Feb 10, 2021	Feb 10, 2021
Test/Reference	LOR	Unit				
Hexachlorobutadiene	0.5	mg/kg	< 0.5	-	-	-
Chromium (hexavalent)	1	mg/kg	< 1	-	-	-
Cyanide (total)	5	mg/kg	< 5	-	-	-
Fluoride (Total)	100	mg/kg	220	-	-	-
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	8.1	-	-	-
% Moisture	1	%	19	37	25	14
Volatile Organics		,				
1.1-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2.4-Trichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.1-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dibromoethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	-
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
2-Butanone (MEK)	0.5	mg/kg	< 0.5	-	-	-
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	-	-	-
4-Chlorotoluene	0.5	mg/kg	< 0.5	-	-	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	-	-	-
Allyl chloride	0.5	mg/kg	< 0.5	-	-	-
Benzene	0.1	mg/kg	< 0.1	-	-	-
Bromobenzene	0.5	mg/kg	< 0.5	-	-	-
Bromochloromethane	0.5	mg/kg	< 0.5	-	-	-
Bromodichloromethane	0.5	mg/kg	< 0.5	-	-	-
Bromoform	0.5	mg/kg	< 0.5	-	-	-
Bromomethane	0.5	mg/kg	< 0.5	-	-	-



Client Sample ID			HA01/0.1	HA02/0.1	HA03/0.1	HA04/0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Fe23556	M21-Fe23557	M21-Fe23558	M21-Fe23559
Date Sampled			Feb 10, 2021	Feb 10, 2021	Feb 10, 2021	Feb 10, 2021
Test/Reference	LOR	Unit				
Volatile Organics	LOIN	Onit				
Carbon disulfide	0.5	ma/ka	< 0.5	_	_	_
Carbon Tetrachloride	0.5	ma/ka	< 0.5	-	-	_
Chlorobenzene	0.5	ma/ka	< 0.5	-	-	-
Chloroethane	0.5	ma/ka	< 0.5	-	-	-
Chloroform	0.5	ma/ka	< 0.5	-	-	-
Chloromethane	0.5	ma/ka	< 0.5	-	-	-
cis-1.2-Dichloroethene	0.5	ma/ka	< 0.5	-	-	-
cis-1.3-Dichloropropene	0.5	ma/ka	< 0.5	-	-	-
Dibromochloromethane	0.5	ma/ka	< 0.5	-	-	-
Dibromomethane	0.5	ma/ka	< 0.5	-	-	-
Dichlorodifluoromethane	0.5	ma/ka	< 0.5	-	-	-
Ethylbenzene	0.1	ma/ka	< 0.1	-	-	-
lodomethane	0.5	ma/ka	< 0.5	-	-	-
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	-	-	-
m&p-Xylenes	0.2	ma/ka	< 0.2	-	-	-
Methylene Chloride	0.5	ma/ka	< 0.5	-	-	-
o-Xylene	0.1	ma/ka	< 0.1	-	-	-
Styrene	0.5	mg/kg	< 0.5	-	-	-
Tetrachloroethene	0.5	mg/kg	< 0.5	-	-	-
Toluene	0.1	mg/kg	< 0.1	-	-	-
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	-
Trichloroethene	0.5	mg/kg	< 0.5	-	-	-
Trichlorofluoromethane	0.5	mg/kg	< 0.5	-	-	-
Vinyl chloride	0.5	mg/kg	< 0.5	-	-	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	-	-
Total MAH*	0.5	mg/kg	< 0.5	-	-	-
Vic EPA IWRG 621 CHC (Total)*	0.5	mg/kg	< 0.5	-	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.5	mg/kg	< 0.5	-	-	-
4-Bromofluorobenzene (surr.)	1	%	60	-	-	-
Toluene-d8 (surr.)	1	%	60	-	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fract	ions					
Naphthalene ^{N02}	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	-	< 20
TRH C6-C10 less BTEX (F1) ^{N04}	20	mg/kg	< 20	< 20	-	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	-	< 50
TRH >C10-C16 less Naphthalene (F2) ^{N01}	50	mg/kg	< 50	< 50	-	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	-	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	-	< 100
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	-	< 20
Total Recoverable Hydrocarbons - 1999 NEPM Fract	ions					
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



Client Sample ID			HA01/0.1	HA02/0.1	HA03/0.1	HA04/0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Fe23556	M21-Fe23557	M21-Fe23558	M21-Fe23559
Date Sampled			Feb 10, 2021	Feb 10, 2021	Feb 10, 2021	Feb 10, 2021
		Linit	,	,	,	
Polycyclic Aromatic Hydrocarbons	LOIN	Onit				
Benzo(a)pyrene TEO (lower bound) *	0.5	ma/ka	< 0.5	< 0.5	< 0.5	0.8
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	0.6	0.6	0.6	1 1
Benzo(a)pyrene TEQ (incertain bound) *	0.5	ma/ka	1.2	1.2	1.2	1.1
Acenaphthene	0.5	ma/ka	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	ma/ka	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	ma/ka	< 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	0.6
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	< 0.5	1.0
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	0.7
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.7
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	1.4
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	1.2
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	6.1
2-Fluorobiphenyl (surr.)	1	%	92	86	103	83
p-Terphenyl-d14 (surr.)	1	%	97	97	100	95
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-	-
4.4'-DDD	0.05	mg/kg	< 0.05	-	-	-
4.4'-DDE	0.05	mg/kg	< 0.05	-	-	-
4.4'-DDT	0.05	mg/kg	< 0.05	-	-	-
a-BHC	0.05	mg/kg	< 0.05	-	-	-
Aldrin	0.05	mg/kg	< 0.05	-	-	-
b-BHC	0.05	mg/kg	< 0.05	-	-	-
	0.05	mg/kg	< 0.05	-	-	-
	0.05	mg/kg	< 0.05	-	-	-
	0.05	mg/kg	< 0.05	-	-	-
	0.05	mg/kg	< 0.05	-	-	-
Endrin	0.05	mg/kg	< 0.05	-		
Endrin aldebyde	0.05	mg/kg	< 0.05			_
Endrin ketone	0.05	ma/ka	< 0.05	_	_	_
g-BHC (Lindane)	0.05	ma/ka	< 0.05	-	-	_
Heptachlor	0.05	ma/ka	< 0.05	-	-	-
Heptachlor epoxide	0.05	ma/ka	< 0.05	-	-	-
Hexachlorobenzene	0.05	ma/ka	< 0.05	-	-	-
Methoxychlor	0.05	mg/ka	< 0.05	-	-	-
Toxaphene	0.1	mg/kg	< 0.1	-	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.1	-	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.1			-
Dibutylchlorendate (surr.)	1	%	102	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	116	-	-	-



Client Sample ID			HA01/0.1	HA02/0.1	HA03/0.1	HA04/0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Fe23556	M21-Fe23557	M21-Fe23558	M21-Fe23559
Date Sampled			Feb 10, 2021	Feb 10, 2021	Feb 10, 2021	Eeb 10 2021
Tast/Deference		1.1	1 60 10, 2021	100 10, 2021	10,2021	1 65 10, 2021
Pelvebleringtod Binhonylo	LOR	Unit				
	0.4					
Aroclor-1016	0.1	mg/kg	< 0.1	-	-	-
	0.1	mg/kg	< 0.1	-	-	-
Arocior-1232	0.1	mg/kg	< 0.1	-	-	-
Arocior-1242	0.1	mg/kg	< 0.1	-	-	-
Arocior-1248	0.1	mg/kg	< 0.1	-	-	-
Arocior-1254	0.1	mg/kg	< 0.1	-	-	-
	0.1	mg/kg	< 0.1	-	-	-
Total PCB"	0.1	mg/kg	< 0.1	-	-	-
Dibutyichlorendate (surr.)	1	%	102	-	-	-
l etrachloro-m-xylene (surr.)	1	%	116	-	-	-
Phenois (Halogenated)						
2-Chlorophenol	0.5	mg/kg	< 0.5	-	-	-
2.4-Dichlorophenol	0.5	mg/kg	< 0.5	-	-	-
2.4.5-Trichlorophenol	1	mg/kg	< 1	-	-	-
2.4.6-Trichlorophenol	1	mg/kg	< 1	-	-	-
2.6-Dichlorophenol	0.5	mg/kg	< 0.5	-	-	-
4-Chloro-3-methylphenol	1	mg/kg	< 1	-	-	-
Pentachlorophenol	1	mg/kg	< 1	-	-	-
Tetrachlorophenols - Total	10	mg/kg	< 10	-	-	-
Total Halogenated Phenol*	1	mg/kg	< 1	-	-	-
Phenols (non-Halogenated)		1				
2-Cyclohexyl-4.6-dinitrophenol	20	mg/kg	< 20	-	-	-
2-Methyl-4.6-dinitrophenol	5	mg/kg	< 5	-	-	-
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2	-	-	-
2-Nitrophenol	1.0	mg/kg	< 1	-	-	-
2.4-Dimethylphenol	0.5	mg/kg	< 0.5	-	-	-
2.4-Dinitrophenol	5	mg/kg	< 5	-	-	-
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4	-	-	-
4-Nitrophenol	5	mg/kg	< 5	-	-	-
Dinoseb	20	mg/kg	< 20	-	-	-
Phenol	0.5	mg/kg	< 0.5	-	-	-
Total Non-Halogenated Phenol*	20	mg/kg	< 20	-	-	-
Phenol-d6 (surr.)	1	%	64	-	-	-
Heavy Metals						
Arsenic	2	mg/kg	4.9	4.2	4.6	5.5
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	74	74	75	63
Copper	5	mg/kg	32	65	58	57
Lead	5	mg/kg	9.4	11	10.0	11
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Molybdenum	5	mg/kg	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	91	88	87	73
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Silver	2	mg/kg	< 2	< 2	< 2	< 2
Tin	10	mg/kg	< 10	< 10	< 10	< 10
Zinc	5	mg/kg	74	84	90	94



Client Sample ID			HA05/0.1	HA06/0.1	HA07/0.1	HA08/0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			M21-Fe23560	M21-Fe23561	M21-Fe23562	M21-Fe23563
Date Sampled			Feb 10, 2021	Feb 10, 2021	Feb 10, 2021	Feb 10. 2021
	LOR	Llnit	,	,		,
	LOIN	Offic				
% Moisture	1	%	17	20	11	13
Total Recoverable Hydrocarbons - 2013 NEPM Fract	ions	70		20		
Naphthalene ^{N02}	0.5	ma/ka	< 0.5	< 0.5	< 0.5	-
TRH C6-C10	20	ma/ka	< 20	< 20	< 20	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	ma/ka	< 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	-
Total Recoverable Hydrocarbons						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	-
Total Recoverable Hydrocarbons - 1999 NEPM Fract	ions					
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	-
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
	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyropo	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	 %	82	84	78	79
p-Terphenyl-d14 (surr.)	1	%	105	96	88	79
Heavy Metals	I I	/0	100			
Arsenic	2	ma/ka	5.1	5.1	4.0	53
Cadmium	0.4	ma/ka	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	ma/ka	62	50	46	58
Copper	5	ma/ka	39	40	21	29
Lead	5	ma/ka	11	8.4	7.2	8.7
Mercury	0.1	ma/ka	< 0.1	< 0.1	< 0.1	< 0.1
Molybdenum	5	mg/ka	< 5	< 5	< 5	< 5
Nickel	5	mg/kg	78	57	57	77
	-					



Client Sample ID Sample Matrix Eurofins Sample No.			HA05/0.1 Soil M21-Fe23560	HA06/0.1 Soil M21-Fe23561	HA07/0.1 Soil M21-Fe23562	HA08/0.1 Soil M21-Fe23563
Date Sampled			Feb 10, 2021	Feb 10, 2021	Feb 10, 2021	Feb 10, 2021
Test/Reference	LOR	Unit				
Heavy Metals						
Selenium	2	mg/kg	< 2	< 2	< 2	< 2
Silver	2	mg/kg	< 2	< 2	< 2	< 2
Tin	10	mg/kg	< 10	< 10	< 10	< 10
Zinc	5	mg/kg	79	96	48	66

			1		
Client Sample ID			HA09/0.1	HA10/0.1	HA11/0.1
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			M21-Fe23564	M21-Fe23565	M21-Fe23566
Date Sampled			Feb 10, 2021	Feb 10, 2021	Feb 10, 2021
Test/Reference	LOR	Unit			
		-			
% Moisture	1	%	17	28	18
% Clay	1	%	-	-	10
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	-	-	76
pH (units)(1:5 soil:CaCl2 extract at 25°C as rec.)	0.1	pH Units	-	-	8.5
Total Organic Carbon	0.1	%	-	-	1.4
Total Recoverable Hydrocarbons - 2013 NEPM Fract	tions	,,,			
Naphthalene ^{N02}	0.5	ma/ka	< 0.5	-	-
TRH C6-C10	20	ma/ka	< 20	_	-
TRH C6-C10 less BTEX (F1) ^{N04}	20	ma/ka	< 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	-	-
Total Recoverable Hydrocarbons					
TRH C6-C9	20	mg/kg	< 20	-	-
Total Recoverable Hydrocarbons - 1999 NEPM Fract	tions				
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	-	-
Polycyclic Aromatic Hydrocarbons					
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	-
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	-
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	-
Anthracene	0.5	mg/kg	< 0.5	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	-
Benzo(b&j)fluoranthene ^{N07}	0.5	mg/kg	< 0.5	< 0.5	-
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-
Chrysene	0.5	mg/kg	< 0.5	< 0.5	-
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	-
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-
Fluorene	0.5	mg/kg	< 0.5	< 0.5	-



Client Sample ID			HA09/0.1	HA10/0.1	HA11/0.1
Sample Matrix			Soll	Soll	Soll
Eurofins Sample No.			M21-Fe23564	M21-Fe23565	M21-Fe23566
Date Sampled			Feb 10, 2021	Feb 10, 2021	Feb 10, 2021
Test/Reference	LOR	Unit			
Polycyclic Aromatic Hydrocarbons					
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	%	69	93	-
p-Terphenyl-d14 (surr.)	1	%	69	103	-
Heavy Metals					
Arsenic	2	mg/kg	5.2	4.1	-
Cadmium	0.4	mg/kg	< 0.4	< 0.4	-
Chromium	5	mg/kg	44	56	-
Copper	5	mg/kg	32	32	-
Iron	20	mg/kg	-	-	38000
Lead	5	mg/kg	7.5	7.6	-
Mercury	0.1	mg/kg	< 0.1	< 0.1	-
Molybdenum	5	mg/kg	< 5	< 5	-
Nickel	5	mg/kg	98	78	-
Selenium	2	mg/kg	< 2	< 2	-
Silver	2	mg/kg	< 2	< 2	-
Tin	10	mg/kg	< 10	< 10	-
Zinc	5	mg/kg	59	61	-
Heavy Metals					
Iron (%)	0.01	%	-	-	3.8
Cation Exchange Capacity					
Cation Exchange Capacity	0.05	meq/100g	-	-	35



Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported. A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

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

Description	Testing Site	Extracted	Holding Time
Vic EPA IWRG 621 (Solids)			
Hexachlorobutadiene	Melbourne	Feb 16, 2021	14 Days
- Method: USEPA 8260 - MGT 350A Volatile Organics by GCMS			
Chromium (hexavalent)	Melbourne	Feb 16, 2021	28 Days
- Method: APHA 3500-Cr Hexavalent Chromium- (Extraction:- USEPA3060)			
Cyanide (total)	Melbourne	Feb 16, 2021	14 Days
- Method: LTM-INO-4020 Total Free WAD Cyanide by CFA			
Fluoride (Total)	Melbourne	Feb 16, 2021	28 Days
- Method: LTM-INO-4150 Determination of Total Fluoride PART B – ISE			
pH (1:5 Aqueous extract at 25°C as rec.)	Melbourne	Feb 16, 2021	7 Days
- Method: LTM-GEN-7090 pH in soil by ISE			
Volatile Organics	Melbourne	Feb 16, 2021	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices (USEPA 8260)			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Feb 16, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Feb 16, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons	Melbourne	Feb 16, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	Feb 16, 2021	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons	Melbourne	Feb 16, 2021	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Organochlorine Pesticides	Melbourne	Feb 16, 2021	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8270)			_
Polychlorinated Biphenyls	Melbourne	Feb 16, 2021	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water (USEPA 8082)			
Phenols (Halogenated)	Melbourne	Feb 16, 2021	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Phenols (non-Halogenated)	Melbourne	Feb 16, 2021	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water		E 10,0001	00 D
Metals IWRG 621 : Metals M12	Melbourne	Feb 16, 2021	28 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS		E.1. 40, 0004	
% Moisture	Melbourne	Feb 16, 2021	14 Days
- Method: LTM-GEN-7080 Moisture			
	Drichana	Fab 17 2021	
	DIISDane	Feb 17, 2021	14 Days
- Method: LIM-GEN-7040 Conductivity (1.5 acucous extract at 25° C as rec.)	Molhourno	Eab 16 2021	
Mathadul TM INO 4020 Conductivity	Meibourne	Feb 10, 2021	1 Days
- Method: LTM-INO-4050 Conductivity PH (units)(1:5 soil:CaCl2 extract at 25°C as rec.)	Melbourne	Feb 16 2021	7 Dave
Mathadi LTM CEN 7000 pH in call by ISE	Webburne	160 10, 2021	7 Days
Total Organic Carbon	Melhourne	Feb 17 2021	28 Davs
- Method: I TM-INO-4060 Total Organic Carbon in water and soil	woodunie	100 17,2021	20 Days
	Melbourne	Feb 16 2021	180 Davs
- Method: 1 TM-MET-3030 Metals in Soils by ICP-OES	molooumo	100 10, 2021	100 Dayo
Cation Exchange Capacity	Melbourne	Feb 17 2021	180 Davs

- Method: LTM-MET-3060 Cation Exchange Capacity by bases & Exchangeable Sodium Percentage

Normal Section Environment Testing Medicate Methods Systems Project Bit Boome (1 + 3, 1 + 2 + 2) Bit Boome (1 + 3, 1 + 2 + 2) Price (1 + 3, 1 + 2 + 2) Necessite (1 + 3, 2 + 2 + 2) Neces	
Add. 50 005 055 21 web, www.eurofinis.com.au email: EnvidSales Beurofinis.com 30 ef 1221 & 14271 NRTA # 1281 Bis # 12817 Bis # 23736 Company Name: Low 10, 59 Coventry St. Southbank Comport #: 773462 Phoport #: 773462 Project Name: SUPER LOTS A B C UNDERBANK ESTATE Project ID: 005964-2000 Eurofinis Analytical Services Manager : Vic Sample Detail M M M X X X X X X X X X X Bis Burger Laboratory - NATA Site # 1254 & 14271 X X X X X X X X X X Prisbane Laboratory - NATA Site # 1254 & 14271 X X X X X X X X X Prisbane Laboratory - NATA Site # 1254 & 14271 X X X X X X X Particulaboratory - NATA Site # 1254 & 14271 X X X X X X X Prisbane Laboratory - NATA Site # 1254 & 14271 X X X X X X X Prisbane Laboratory - NATA Site # 1254 & 14271 X X X X X X X Prisbane Laboratory - NATA Site # 1254 & 14271 X X X X X X Particulaboratory - NATA Site # 1254 & 14271 X X X X X Prisbane Laboratory - NATA Site # 1254 & 14271 X X X X X X Pr	Christchurch 43 Detroit Drive Rolleston, Christchurch 767 Phone : 0800 856 450 IANZ # 1290
Company Name: Address: Tonkin & Taylor P/L Level 3, 99 Coventry St Southbank VIC 3006 Order No.: Report #: VIC 3006 Received: Project 03 9963 8685 Feb 11, 2021 34 Due: Feb 18, 2021 Project Name: Project ID: 1000904-2000 SUUPER LOTS A B C UNDERBANK ESTATE Project ID: 03 9963 8685 Order No.: Report #: 03 9963 8685 Total Report #: Project ID: Order No.: Report #: 000994-2000 Feb 11, 2021 34 Due: Feb 18, 2021 Weilbourne Laboratory - NATA Site # 1254 & 14271 X <	
Project Name: SUPER LOTS A B C UNDERBANK ESTATE Project ID: 1005964-2000 Main Market State Main Market State Main Market State Main Market State	РМ
Belbourne Laboratory - NATA Site # 1254 & 14271 X	arry Bacalis
Melbourne Laboratory - NATA Site # 1254 & 14271 X	
Sydney Laboratory - NATA Site # 18217Brisbane Laboratory - NATA Site # 20794XPerth Laboratory - NATA Site # 23736Mayfield Laboratory - NATA Site # 23736XMayfield LaboratoryExternal LaboratoryI have a sequence of the sequence	
Brisbane Laboratory - NATA Site # 20794 X X Perth Laboratory - NATA Site # 23736 Mayfield Laboratory Mayfield Laboratory External Laboratory No Sample Date Sampling Time Matrix LAB ID 1 HA01/0.1 Feb 10, 2021 Soil M21-Fe23556 X X X 2 HA02/0.1 Feb 10, 2021 Soil M21-Fe23557 X X X 3 HA03/0.1 Feb 10, 2021 Soil M21-Fe23558 X X X	
Perth Laboratory - NATA Site # 23736 Mayfield Laboratory Image: Second Colspan="4">Image: S	
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1 HA01/0.1 Feb 10, 2021 Soil M21-Fe23556 X X X 2 HA02/0.1 Feb 10, 2021 Soil M21-Fe23557 X X X 3 HA03/0.1 Feb 10, 2021 Soil M21-Fe23558 X X X 4 HA04/0.1 Feb 10, 2021 Soil M21-Fe23558 X X X	
2 HA02/0.1 Feb 10, 2021 Soil M21-Fe23557 X <	
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5 HA05/0.1 Feb 10, 2021 Soil M21-Fe23560 X <	
6 HA06/0.1 Feb 10, 2021 Soil M21-Fe23561 X X X X	
7 HA07/0.1 Feb 10, 2021 Soil M21-Fe23562 X X X	
8 HA08/0.1 Feb 10, 2021 Soil M21-Fe23563 X X X U	
9 HA09/0.1 Feb 10, 2021 Soil M21-Fe23564 X X X X	

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v curonn	Envi	ironment Testing	Melbourne 6 Monterey Road Dandenong South VIC 31 Phone : +61 3 8564 5000 NATA # 1261	5 Ui 75 16 La Pi	ydney nit F3, E 6 Mars F ane Cov hone : +	Building Road e West 61 2 99	F NSW 2 900 840	Br 1/: 066 Pr 0 N/	risbane 21 Sma urarrie hone : + ATA # 1	allwood F QLD 41 -61 7 39 I261 Site	Place 72 02 4600 e # 20794	Perth 2/91 Leach Highway Kewdale WA 6105 Phone : +61 8 9251 9600 NATA # 1261	Newcastle 4/52 Industrial Drive Mayfield East NSW 2304 PO Box 60 Wickham 2293 Phone : +61 2 4968 8448	Auckland 35 O'Rorke Road Penrose, Auckland 1061 Phone : +64 9 526 45 51 IANZ # 1327	Christchurch 43 Detroit Drive Rolleston, Christchurch 767 Phone : 0800 856 450 IANZ # 1290
ABN: 50 005 085 521 WeD: WW	w.eurofins.com.au	email: EnviroSales@eurofins.com	Site # 1254 & 14271	IN.	ATA # 1	261 51	e # 182	17				Site # 23736			
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	Sa	mple Detail		HOLD	Polycyclic Aromatic Hydrocarbons	Metals IWRG 621 : Metals M12	Moisture Set	NEPM Screen for Soil Classification	Total Recoverable Hydrocarbons	Vic EPA IWRG 621 (Solids)					
Melbourne Laboratory	/ - NATA Site	# 1254 & 14271		Х	X	х	X	Х	х	X					
Sydney Laboratory - N	NATA Site # 1	8217													
Brisbane Laboratory -	• NATA Site #	20794						X							
Perth Laboratory - NA	TA Site # 237	736													
Mayfield Laboratory															
External Laboratory															
10 HA10/0.1 F	ep 10, 2021	Soll	M21-Fe23565			X	X	v							
12 HA01/0.5	eb 10, 2021		M21 E022567	v				×							
12 HA01/0.5 F	Cob 10, 2021	Soil	M21 E022569	^ V											
13 TAUZ/U.3 FO	co 10, 2021		M21-E022560	^ X											
15 HΔ03/0.5 E	co 10, 2021	Soil	M21-Fe23570	^ X											
16 HA04/0.5 F	eh 10, 2021	Soil	M21-Fe23570	X											
17 HA05/0.5 F	eb 10, 2021	Soil	M21-Fe23572	X											
18 HA06/0.5 F	eb 10, 2021	Soil	M21-Fe23573	X											
19 HA07/0.3 F	eb 10, 2021	Soil	M21-Fe23574	X											
20 HA08/0.4 F	eb 10, 2021	Soil	M21-Fe23575	X											

	eurofi	nc			Australia											New Zealand	
ABN: 5	0 005 085 521 web:	www.eurofins.com.a	vironment T	esting @eurofins.com	Melbourne 6 6 Monterey Road Dandenong South VIC 3 Phone : +61 3 8564 5000 NATA # 1261 Site # 1254 & 14271 Site # 14271	S U 175 1 0 L P N	Sydney Jnit F3, I 6 Mars ane Cov Phone : - IATA # 2	Building Road ve Wesi +61 2 9 1261 Si	J F t NSW 2 900 840 te # 182	B 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	/21 Sm /21 Sm /urarrie 'hone : JATA #	e allwood QLD 4 +61 7 39 1261 Sit	Place 172 902 4600 e # 20794	Perth 2/91 Leach Highway Kewdale WA 6105 Phone : +61 8 9251 9600 NATA # 1261 Site # 23736	Newcastle 4/52 Industrial Drive Mayfield East NSW 2304 PO Box 60 Wickham 2293 Phone : +61 2 4968 8448	Auckland 35 O'Rorke Road Penrose, Auckland 1061 Phone : +64 9 526 45 51 IANZ # 1327	Christchurch 43 Detroit Drive Rolleston, Christchurch 7675 Phone : 0800 856 450 IANZ # 1290
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Pro Pro	oject Name: oject ID:	SUPER LO 1005964-20	TS A B C UNDE 000	RBANK EST	ATE										Eurofins Analytical S	Services Manager : H	arry Bacalis
		S	ample Detail			HOLD	Polycyclic Aromatic Hydrocarbons	Metals IWRG 621 : Metals M12	Moisture Set	NEPM Screen for Soil Classification	Total Recoverable Hydrocarbons	Vic EPA IWRG 621 (Solids)					
Melk	ourne Laborate	ory - NATA Site	e # 1254 & 1427	1		Х	Х	Х	Х	X	x	х]				
Sydı	ney Laboratory	- NATA Site #	18217							<u> </u>	<u> </u>		-				
Bris	bane Laborator	y - NATA Site	# 20794							X	–		-				
Pert	h Laboratory - I	NATA Site # 23	736							—	–		4				
May	field Laboratory	/								<u> </u>	+		-				
Exte		/		Dell	M04 E-00570	v				<u> </u>	+		-				
21	HAU9/0.5	Feb 10, 2021		Soil	M21-Fe23576					\vdash	+		-				
22	HΔ11/0 2	Feb 10, 2021		Soil	M21-Fe23579			+		+	+		-				
23	HA12/0 1	Feb 10, 2021		Soil	M21-Fe23570	x	-		+	<u>+</u>	+	+	-				
25	HA12/0.3	Feb 10, 2021		Soil	M21-Fe23580	x		1		<u> </u>	+		-				
Test	Counts		· · · · · ·			14	9	9	11	1	6	1	1				
											-		1				



Internal Quality Control Review and Glossary

General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site 1. 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.
- 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.
- This report replaces any interim results previously issued. 9.

Holding Times

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

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

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

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

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days. **NOTE: pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram	mg/L: milligrams per litre	ug/L: micrograms per litre
ppm: Parts per million	ppb: Parts per billion	%: Percentage
org/100mL: Organisms per 100 millilitres	NTU: Nephelometric Turbidity Units	MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms	
Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
сос	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
СР	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient

QC - Acceptance Criteria

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

- 1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
- 2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
- 3. Organochlorine Pesticide analysis where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
- 4. Organochlorine Pesticide analysis where reporting Spike data, Toxaphene is not added to the Spike.
- Total Recoverable Hydrocarbons where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported 5. in the C10-C14 cell of the Report.
- 6. pH and Free Chlorine analysed in the laboratory Analysis on this test must begin within 30 minutes of sampling. Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
- 7. Recovery Data (Spikes & Surrogates) where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
- 8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
- 9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
- 10. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.



Quality Control Results

Test	Units	Result 1	Acceptance Limits	Pass Limits	Qualifying Code
Method Blank					
Hexachlorobutadiene	mg/kg	< 0.5	0.5	Pass	
Chromium (hexavalent)	mg/kg	< 1	1	Pass	
Cyanide (total)	mg/kg	< 5	5	Pass	
Fluoride (Total)	mg/kg	< 100	100	Pass	
Total Organic Carbon	%	< 0.1	0.1	Pass	
Method Blank				-	
Volatile Organics					
1.1-Dichloroethane	mg/kg	< 0.5	0.5	Pass	
1.2.4-Trichlorobenzene	mg/kg	< 0.5	0.5	Pass	
1.1-Dichloroethene	mg/kg	< 0.5	0.5	Pass	
1.1.1-Trichloroethane	mg/kg	< 0.5	0.5	Pass	
1.1.1.2-Tetrachloroethane	mg/kg	< 0.5	0.5	Pass	
1.1.2-Trichloroethane	mg/kg	< 0.5	0.5	Pass	
1.1.2.2-Tetrachloroethane	mg/kg	< 0.5	0.5	Pass	
1.2-Dibromoethane	mg/kg	< 0.5	0.5	Pass	
1.2-Dichlorobenzene	mg/kg	< 0.5	0.5	Pass	
1.2-Dichloroethane	mg/kg	< 0.5	0.5	Pass	
1.2-Dichloropropane	mg/kg	< 0.5	0.5	Pass	
1.2.3-Trichloropropane	mg/kg	< 0.5	0.5	Pass	
1.2.4-Trimethylbenzene	mg/kg	< 0.5	0.5	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.5	0.5	Pass	
1.3-Dichloropropane	mg/kg	< 0.5	0.5	Pass	
1.3.5-Trimethylbenzene	mg/kg	< 0.5	0.5	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.5	0.5	Pass	
2-Butanone (MEK)	mg/kg	< 0.5	0.5	Pass	
2-Propanone (Acetone)	mg/kg	< 0.5	0.5	Pass	
4-Chlorotoluene	mg/kg	< 0.5	0.5	Pass	
4-Methyl-2-pentanone (MIBK)	mg/kg	< 0.5	0.5	Pass	
Allyl chloride	mg/kg	< 0.5	0.5	Pass	
Benzene	mg/kg	< 0.1	0.1	Pass	
Bromobenzene	mg/kg	< 0.5	0.5	Pass	
Bromochloromethane	mg/kg	< 0.5	0.5	Pass	
Bromodichloromethane	mg/kg	< 0.5	0.5	Pass	
Bromoform	mg/kg	< 0.5	0.5	Pass	
Bromomethane	mg/kg	< 0.5	0.5	Pass	
Carbon disulfide	mg/kg	< 0.5	0.5	Pass	
Carbon Tetrachloride	mg/kg	< 0.5	0.5	Pass	
Chlorobenzene	mg/kg	< 0.5	0.5	Pass	
Chloroethane	mg/kg	< 0.5	0.5	Pass	
Chloroform	mg/kg	< 0.5	0.5	Pass	
Chloromethane	mg/kg	< 0.5	0.5	Pass	
cis-1.2-Dichloroethene	mg/kg	< 0.5	0.5	Pass	
cis-1.3-Dichloropropene	mg/kg	< 0.5	0.5	Pass	
Dibromochloromethane	mg/kg	< 0.5	0.5	Pass	
Dibromomethane	mg/kg	< 0.5	0.5	Pass	
Dichlorodifluoromethane	mg/kg	< 0.5	0.5	Pass	
Ethylbenzene	mg/kg	< 0.1	0.1	Pass	
Iodomethane	mg/kg	< 0.5	0.5	Pass	
Isopropyl benzene (Cumene)	mg/kg	< 0.5	0.5	Pass	
m&p-Xylenes	mg/kg	< 0.2	0.2	Pass	
Methylene Chloride	mg/kg	< 0.5	0.5	Pass	



o-Xylene mg/kg < 0.1
Styrene mg/kg < 0.5 Pass Tetrachloroethene mg/kg < 0.5
Tetrachloroethene mg/kg < 0.5 Pass Toluene mg/kg < 0.1
Toluene mg/kg < 0.1 Pass trans-1.2-Dichloroethene mg/kg < 0.5
trans-1.2-Dichloroethene mg/kg < 0.5 Pass trans-1.3-Dichloropropene mg/kg < 0.5
Instruction Imging Fore Instruction trans-1.3-Dichloropropene mg/kg < 0.5
Trichloroethene mg/kg < 0.5 Pass Trichlorofluoromethane mg/kg < 0.5
Trichlorofluoromethane mg/kg < 0.5 Pass Vinyl chloride mg/kg < 0.5
Instruction Ingrity Constraints Index Vinyl chloride mg/kg < 0.5
My non-neuro Mg/kg Color Factor Xylenes - Total* mg/kg < 0.3
Method Blank mg/kg < 0.0 Fractions Total Recoverable Hydrocarbons - 2013 NEPM Fractions Naphthalene mg/kg < 0.5
Total Recoverable Hydrocarbons - 2013 NEPM Fractions mg/kg < 0.5 Pass Naphthalene mg/kg < 0.5
Naphthalene mg/kg < 0.5 0.5 Pass TRH C6-C10 mg/kg < 20
TRH C6-C10 mg/kg < 0.0 1 dot TRH >C10-C16 mg/kg < 50
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
Total Recoverable Hydrocarbons
TPH C6-C9 $ma/ka < 20$ 20 Pass
Method Blank
Total Recoverable Hydrocarbons - 1999 NEPM Eractions
TRH C10-C14 $ma/ka < 20$ 20 Pass
TRH C15-C28 mg/kg < 50 50 Pass
TRH C29-C36 mg/kg < 50 Fass
Method Blank
Polycyclic Aromatic Hydrocarbons
Acenaphthene malka < 0.5 0.5 Pass
Anthracene ma/kg < 0.5 0.5 Pass
Benz(a)anthracene ma/kg < 0.5 0.5 Pass
Benzo(a)pyrene mg/kg < 0.5 Pass
Benzo(b&i)fluoranthene ma/kg < 0.5 0.5 Pass
$\frac{Benzo(a bi)pen/epe}{Benzo(a bi)pen/epe}$
$\frac{Benzo(k)fluoranthene}{Benzo(k)fluoranthene} \qquad mg/kg < 0.5 \qquad 0.5 \qquad Pass$
$\frac{1}{1} \frac{1}{1} \frac{1}$
Dihenz(a b)anthracene ma/kg < 0.5 0.5 Pass
Eluoranthene ma/kg < 0.5 0.5 Pass
$\frac{1}{1} \frac{1}{1} \frac{1}$
Nanhthalana $ma/ka < 0.5$ 0.5 Pass
Phenanthrane ma/kg < 0.5 0.5 Pass
Pyrane mg/kg < 0.5 Pass
Method Blank
Organochlorine Pesticides
Chlordanes - Total $m\sigma/k\sigma < 0.1$ 0.1 Pass
4.4'-DDD mg/kg < 0.05 0.05 Pass
4.4'-DDE ma/kg < 0.05 0.05 Pass
44'-DDT ma/kg < 0.05 0.05 Pass
a-BHC ma/kg < 0.05 0.05 Pase
Aldrin ma/kg < 0.05 0.05 Pass
b-BHC ma/kg < 0.05 0.05 Pass
d-BHC ma/kg < 0.05 0.05 Pass
Dieldrin mg/kg < 0.05 1.05 Pass



Test	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Endosulfan I	mg/kg	< 0.05		0.05	Pass	
Endosulfan II	mg/kg	< 0.05		0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05		0.05	Pass	
Endrin	mg/kg	< 0.05		0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05		0.05	Pass	
Endrin ketone	mg/kg	< 0.05		0.05	Pass	
g-BHC (Lindane)	mg/kg	< 0.05		0.05	Pass	
Heptachlor	mg/kg	< 0.05		0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05		0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05		0.05	Pass	
Methoxychlor	mg/kg	< 0.05		0.05	Pass	
Toxaphene	mg/kg	< 0.1		0.1	Pass	
Method Blank			-		-	
Polychlorinated Biphenyls						
Aroclor-1016	mg/kg	< 0.1		0.1	Pass	
Aroclor-1221	mg/kg	< 0.1		0.1	Pass	
Aroclor-1232	mg/kg	< 0.1		0.1	Pass	
Aroclor-1242	mg/kg	< 0.1		0.1	Pass	
Aroclor-1248	mg/kg	< 0.1		0.1	Pass	
Aroclor-1254	mg/kg	< 0.1		0.1	Pass	
Aroclor-1260	mg/kg	< 0.1		0.1	Pass	
Total PCB*	mg/kg	< 0.1		0.1	Pass	
Method Blank		1		1	r	
Phenols (Halogenated)						
2-Chlorophenol	mg/kg	< 0.5		0.5	Pass	
2.4-Dichlorophenol	mg/kg	< 0.5		0.5	Pass	
2.4.5-Trichlorophenol	mg/kg	< 1		1	Pass	
2.4.6-Trichlorophenol	mg/kg	< 1		1	Pass	
2.6-Dichlorophenol	mg/kg	< 0.5		0.5	Pass	
4-Chloro-3-methylphenol	mg/kg	< 1		1	Pass	
Pentachlorophenol	mg/kg	< 1		1	Pass	
Tetrachlorophenols - Total	mg/kg	< 10		10	Pass	
Method Blank			r r	I	1	
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	mg/kg	< 20		20	Pass	
2-Methyl-4.6-dinitrophenol	mg/kg	< 5		5	Pass	
2-Methylphenol (o-Cresol)	mg/kg	< 0.2		0.2	Pass	
2-Nitrophenol	mg/kg	< 1		1.0	Pass	
2.4-Dimethylphenol	mg/kg	< 0.5		0.5	Pass	
2.4-Dinitrophenol	mg/kg	< 5		5	Pass	
3&4-Methylphenol (m&p-Cresol)	mg/kg	< 0.4		0.4	Pass	
4-Nitrophenol	mg/kg	< 5		5	Pass	
Dinoseb	mg/kg	< 20		20	Pass	
Phenol	mg/kg	< 0.5		0.5	Pass	
Method Blank						
Heavy Metals				-	Dese	
Arsenic	mg/Kg	< 2		2	Pass	
Chromium	mg/kg	< 0.4		0.4	Pass	
Connor	mg/Kg	< 5		5	Pass	
	mg/kg	< 20		20	Pass	
	mg/kg	< 20		20 E	Pass Deee	
Mercuny	ma/ka			0.1	Page	
Molyhdenum	ma/ka	~ 5		5	Page	
morybuchum	пц/ку	L 20	I	5	1 1 1 2 2 2	i



Test	Units	Result 1	Acceptance Limits	Pass Limits	Qualifying Code
Nickel	mg/kg	< 5	5	Pass	
Selenium	mg/kg	< 2	2	Pass	
Silver	mg/kg	< 2	2	Pass	
Tin	mg/kg	< 10	10	Pass	
Zinc	mg/kg	< 5	5	Pass	
Method Blank					
Cation Exchange Capacity					
Cation Exchange Capacity	meq/100g	< 0.05	0.05	Pass	
LCS - % Recovery			-	-	
Chromium (hexavalent)	%	108	70-130	Pass	
Cyanide (total)	%	113	70-130	Pass	
Fluoride (Total)	%	120	70-130	Pass	
Total Organic Carbon	%	100	70-130	Pass	
LCS - % Recovery					
Volatile Organics					
Benzene	%	97	70-130	Pass	
Ethylbenzene	%	93	70-130	Pass	
m&p-Xylenes	%	99	70-130	Pass	
Toluene	%	93	70-130	Pass	
Xylenes - Total*	%	93	70-130	Pass	
LCS - % Recovery					
Total Recoverable Hydrocarbons - 2013 NEPM Fractions					
Naphthalene	%	87	70-130	Pass	
TRH C6-C10	%	101	70-130	Pass	
TRH >C10-C16	%	119	70-130	Pass	
LCS - % Recovery					
Total Recoverable Hydrocarbons					
TRH C6-C9	%	109	70-130	Pass	
LCS - % Recovery					
Total Recoverable Hydrocarbons - 1999 NEPM Fractions					
TRH C10-C14	%	114	70-130	Pass	
LCS - % Recovery					
Polycyclic Aromatic Hydrocarbons					
Acenaphthene	%	90	70-130	Pass	
Acenaphthylene	%	100	70-130	Pass	
Anthracene	%	86	70-130	Pass	
Benz(a)anthracene	%	78	70-130	Pass	
Benzo(a)pyrene	%	94	70-130	Pass	
Benzo(b&j)fluoranthene	%	119	70-130	Pass	
Benzo(g.h.i)perylene	%	93	70-130	Pass	
Benzo(k)fluoranthene	%	103	70-130	Pass	
Chrysene	%	93	70-130	Pass	
Dibenz(a.h)anthracene	%	90	70-130	Pass	
Fluoranthene	%	91	70-130	Pass	
Fluorene	%	92	70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	76	70-130	Pass	
Naphthalene	%	91	70-130	Pass	
Phenanthrene	%	85	70-130	Pass	
Pyrene	%	91	70-130	Pass	
LCS - % Recovery					
Organochlorine Pesticides					
Chlordanes - Total	%	105	70-130	Pass	
4.4'-DDD	%	124	70-130	Pass	
4.4'-DDE	%	125	70-130	Pass	



Test	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
4.4'-DDT	%	91		70-130	Pass	
a-BHC	%	92		70-130	Pass	
Aldrin	%	109		70-130	Pass	
b-BHC	%	109		70-130	Pass	
d-BHC	%	93		70-130	Pass	
Dieldrin	%	123		70-130	Pass	
Endosulfan I	%	127		70-130	Pass	
Endosulfan II	%	119		70-130	Pass	
Endosulfan sulphate	%	107		70-130	Pass	
Endrin	%	112		70-130	Pass	
Endrin aldehyde	%	103		70-130	Pass	
Endrin ketone	%	100		70-130	Pass	
g-BHC (Lindane)	%	112		70-130	Pass	
Heptachlor	%	92		70-130	Pass	
Heptachlor epoxide	%	97		70-130	Pass	
Hexachlorobenzene	%	96		70-130	Pass	
Methoxychlor	%	89		70-130	Pass	
LCS - % Recovery						
Polychlorinated Biphenyls						
Aroclor-1260	%	124		70-130	Pass	
LCS - % Recovery			н I			
Phenols (Halogenated)						
2-Chlorophenol	%	95		30-130	Pass	
2.4-Dichlorophenol	%	95		30-130	Pass	
2.4.5-Trichlorophenol	%	89		30-130	Pass	
2.4.6-Trichlorophenol	%	75		30-130	Pass	
2.6-Dichlorophenol	%	75		30-130	Pass	
4-Chloro-3-methylphenol	%	85		30-130	Pass	
Pentachlorophenol	%	93		30-130	Pass	
Tetrachlorophenols - Total	%	109		30-130	Pass	
LCS - % Recovery						
Phenols (non-Halogenated)						
2-Cyclohexyl-4.6-dinitrophenol	%	61		30-130	Pass	
2-Methyl-4.6-dinitrophenol	%	70		30-130	Pass	
2-Methylphenol (o-Cresol)	%	83		30-130	Pass	
2-Nitrophenol	%	88		30-130	Pass	
2.4-Dimethylphenol	%	81		30-130	Pass	
2.4-Dinitrophenol	%	56		30-130	Pass	
3&4-Methylphenol (m&p-Cresol)	%	109		30-130	Pass	
4-Nitrophenol	%	78		30-130	Pass	
Dinoseb	%	88		30-130	Pass	
Phenol	%	92		30-130	Pass	
LCS - % Recovery				_	_	
Heavy Metals						
Arsenic	%	116		80-120	Pass	
Cadmium	%	109		80-120	Pass	
Chromium	%	114		80-120	Pass	
Copper	%	118		80-120	Pass	
Iron	%	118		80-120	Pass	
Lead	%	114		80-120	Pass	
Mercury	%	110		80-120	Pass	
Molybdenum	%	108		80-120	Pass	
Nickel	%	116		80-120	Pass	
Selenium	%	101		80-120	Pass	



Test		_	Units	Result 1	Acceptance Limits	Pass Limits	Qualifying Code
Silver			%	109	80-120	Pass	
Tin			%	113	80-120	Pass	
Zinc			%	119	80-120	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1	Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery							
				Result 1			
Chromium (hexavalent)	M21-Fe23056	NCP	%	102	70-130	Pass	
Cyanide (total)	M21-Fe23057	NCP	%	37	70-130	Fail	Q08
Fluoride (Total)	M21-Fe30005	NCP	%	108	70-130	Pass	
Spike - % Recovery				-		-	
Volatile Organics				Result 1			
1.1.1-Trichloroethane	M21-Fe26990	NCP	%	73	70-130	Pass	
1.2-Dichlorobenzene	M21-Fe26990	NCP	%	80	70-130	Pass	
1.2-Dichloroethane	M21-Fe26990	NCP	%	103	70-130	Pass	
Benzene	M21-Fe26990	NCP	%	73	70-130	Pass	
Ethylbenzene	M21-Fe26990	NCP	%	96	70-130	Pass	
m&p-Xylenes	M21-Fe26990	NCP	%	93	70-130	Pass	
o-Xylene	M21-Fe26990	NCP	%	97	70-130	Pass	
Toluene	M21-Fe26990	NCP	%	87	70-130	Pass	
Trichloroethene	M21-Fe26990	NCP	%	84	70-130	Pass	
Xylenes - Total*	M21-Fe26990	NCP	%	94	70-130	Pass	
Spike - % Recovery						-	
Total Recoverable Hydrocarbons -	2013 NEPM Fract	ions		Result 1			
Naphthalene	M21-Fe26990	NCP	%	77	70-130	Pass	
TRH >C10-C16	M21-Fe27399	NCP	%	89	70-130	Pass	
Spike - % Recovery						-	
Total Recoverable Hydrocarbons -	1999 NEPM Fract	ions		Result 1			
TRH C10-C14	M21-Fe27399	NCP	%	87	70-130	Pass	
Spike - % Recovery				1			
Organochlorine Pesticides				Result 1			
Chlordanes - Total	M21-Fe26602	NCP	%	94	70-130	Pass	
4.4'-DDD	M21-Fe26602	NCP	%	74	70-130	Pass	
4.4'-DDE	M21-Fe26602	NCP	%	91	70-130	Pass	
4.4'-DDT	M21-Fe26602	NCP	%	86	70-130	Pass	
a-BHC	M21-Fe26602	NCP	%	75	70-130	Pass	
Aldrin	M21-Fe26602	NCP	%	92	70-130	Pass	
b-BHC	M21-Fe26602	NCP	%	114	70-130	Pass	
d-BHC	M21-Fe26602	NCP	%	75	70-130	Pass	
Dieldrin	M21-Fe26602	NCP	%	89	70-130	Pass	
Endosulfan I	M21-Fe26602	NCP	%	89	70-130	Pass	
Endosulfan II	M21-Fe26602	NCP	%	89	70-130	Pass	
Endosulfan sulphate	M21-Fe26602	NCP	%	74	70-130	Pass	
Endrin	M21-Fe26602	NCP	%	83	70-130	Pass	
Endrin aldehyde	M21-Fe26602	NCP	%	115	70-130	Pass	
Endrin ketone	M21-Fe26602	NCP	%	72	70-130	Pass	
g-BHC (Lindane)	M21-Fe26602	NCP	%	103	70-130	Pass	
Heptachlor	M21-Fe26602	NCP	%	75	70-130	Pass	
Heptachlor epoxide	M21-Fe26602	NCP	%	88	70-130	Pass	
Hexachlorobenzene	M21-Fe26602	NCP	%	85	70-130	Pass	
Methoxychlor	M21-Fe26602	NCP	%	75	70-130	Pass	
Spike - % Recovery							
Polychlorinated Biphenyls	1			Result 1			
Aroclor-1016	M21-Fe27016	NCP	%	80	70-130	Pass	
Aroclor-1260	M21-Fe27016	NCP	%	108	70-130	Pass	



Test	Lab Sample ID	QA Source	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code		
Spike - % Recovery										
Total Recoverable Hydrocarbons -	2013 NEPM Fract	ions		Result 1						
TRH C6-C10	M21-Fe24312	NCP	%	97		70-130	Pass			
Spike - % Recovery				1	I I	1				
Total Recoverable Hydrocarbons				Result 1			_			
TRH C6-C9	M21-Fe24312	NCP	%	109		70-130	Pass			
Spike - % Recovery				Deputed		1				
Polycyclic Aromatic Hydrocarbons	M04 E-07700	NOD	0/	Result 1		70.400	Daaa			
Acenaphthulana	M21-Fe27760	NCP	%	109		70-130	Pass			
Acenaphthylene	M21-Fe27760	NCP	%	122		70-130	Pass			
Antifiacene Ronz(a)onthrocono	M21-Fe27760	NCP	% 0/	06		70-130	Pass			
Benze(a)pyropo	M21 Eo27760		70 0/	100		70-130	Pass			
Benzo(b8i)fluoronthono	M21-Fe27760	NCP	% 0/	112		70-130	Pass			
Benzo(d bi)populopo	M21-Fe27760		70 0/	72		70-130	Pass			
Benzo(k)fluoranthana	M21-Fe27760		70 0/	07		70-130	Pass			
Chrysene	M21-Fe27760	NCP	/0 0/	75		70-130	Pass			
Dibenz(a b)anthracene	M21-Fe27760	NCP	/0 0/	80		70-130	Pass			
Elucranthono	M21 Eo27760		/0 0/.	116		70-130	Pass			
Fluorene	M21-Fe27760	NCP	/0 0/	108		70-130	Pass			
Indepo(1.2.3-cd)pyrepe	M21-Fe27760	NCP	/0 0/	70		70-130	Pass			
Nanhthalene	M21-Fe27760	NCP		105		70-130	Dass			
Phenanthrene	M21-Fe27760	NCP	70 9/	103		70-130	Dass			
Pyrene	M21-Fe27760	NCP	%	113		70-130	Pass			
Snike - % Recovery		NOT	70	110		10130	1 435			
Phenols (Halogenated)				Result 1						
2-Chlorophenol	M21-Fe28673	NCP	%	106		30-130	Pass			
2.4-Dichlorophenol	M21-Fe28673	NCP	%	101		30-130	Pass			
2.4.5-Trichlorophenol	M21-Fe28673	NCP	%	127		30-130	Pass			
2.4.6-Trichlorophenol	M21-Fe28673	NCP	%	82		30-130	Pass			
2.6-Dichlorophenol	M21-Fe28673	NCP	%	85		30-130	Pass			
4-Chloro-3-methylphenol	M21-Fe28673	NCP	%	100		30-130	Pass			
Pentachlorophenol	M21-Fe28673	NCP	%	104		30-130	Pass			
Tetrachlorophenols - Total	M21-Fe28673	NCP	%	113		30-130	Pass			
Spike - % Recovery										
Phenols (non-Halogenated)				Result 1						
2-Cyclohexyl-4.6-dinitrophenol	M21-Fe28673	NCP	%	87		30-130	Pass			
2-Methyl-4.6-dinitrophenol	M21-Fe28673	NCP	%	58		30-130	Pass			
2-Methylphenol (o-Cresol)	M21-Fe28673	NCP	%	99		30-130	Pass			
2-Nitrophenol	M21-Fe28673	NCP	%	101		30-130	Pass			
2.4-Dimethylphenol	M21-Fe28673	NCP	%	90		30-130	Pass			
2.4-Dinitrophenol	M21-Fe15195	NCP	%	34		30-130	Pass			
3&4-Methylphenol (m&p-Cresol)	M21-Fe28673	NCP	%	124		30-130	Pass			
4-Nitrophenol	M21-Fe28673	NCP	%	66		30-130	Pass			
Dinoseb	M21-Fe28673	NCP	%	94		30-130	Pass			
Phenol	M21-Fe28673	NCP	%	113		30-130	Pass			
Spike - % Recovery										
Heavy Metals				Result 1						
Arsenic	M21-Fe23564	СР	%	92		75-125	Pass			
Cadmium	M21-Fe23564	СР	%	97		75-125	Pass			
Chromium	M21-Fe23564	CP	%	82		75-125	Pass			
Copper	M21-Fe23564	СР	%	84		75-125	Pass			
Lead	M21-Fe23564	CP	%	89		75-125	Pass			
Mercury	M21-Fe23564	CP	%	93		75-125	Pass			



Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Molybdenum	M21-Fe23564	CP	%	101			75-125	Pass	
Nickel	M21-Fe23564	CP	%	64			75-125	Fail	Q08
Selenium	M21-Fe23564	CP	%	94			75-125	Pass	
Silver	M21-Fe23564	CP	%	100			75-125	Pass	
Tin	M21-Fe23564	CP	%	92			75-125	Pass	
Zinc	M21-Fe23564	CP	%	86			75-125	Pass	
Test	I ab Sample ID	QA	Unite	Posult 1			Acceptance	Pass	Qualifying
	Lab Gample ID	Source	Units	Result 1			Limits	Limits	Code
Duplicate					1		1		
				Result 1	Result 2	RPD		_	
Hexachlorobutadiene	B21-Fe22245	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chromium (hexavalent)	M21-Fe23861	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
Cyanide (total)	M21-Fe23056	NCP	mg/kg	< 5	< 5	<1	30%	Pass	
	M21-Fe29925	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
pH (1:5 Aqueous extract at 25°C as rec.)	M21-Fe24261	NCP	pH Units	8.9	8.9	pass	30%	Pass	
% Moisture	M21-Fe23556	CP	%	19	20	3.0	30%	Pass	
Duplicate	1112111020000		/0	10	20	0.0	0070	1 400	
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	B21-Fe22245	NCP	ma/ka	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trichlorobenzene	B21-Fe22245	NCP	ma/ka	< 0.5	< 0.5	<1	30%	Pass	
1.1-Dichloroethene	B21-Fe22245	NCP	ma/ka	< 0.5	< 0.5	<1	30%	Pass	
1.1.1-Trichloroethane	B21-Fe22245	NCP	ma/ka	< 0.5	< 0.5	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	B21-Fe22245	NCP	ma/ka	< 0.5	< 0.5	<1	30%	Pass	
1.1.2-Trichloroethane	B21-Fe22245	NCP	ma/ka	< 0.5	< 0.5	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	B21-Fe22245	NCP	ma/ka	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromoethane	B21-Fe22245	NCP	ma/ka	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichlorobenzene	B21-Fe22245	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloroethane	B21-Fe22245	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloropropane	B21-Fe22245	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3-Trichloropropane	B21-Fe22245	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trimethylbenzene	B21-Fe22245	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichlorobenzene	B21-Fe22245	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichloropropane	B21-Fe22245	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3.5-Trimethylbenzene	B21-Fe22245	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.4-Dichlorobenzene	B21-Fe22245	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Butanone (MEK)	B21-Fe22245	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Propanone (Acetone)	B21-Fe22245	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chlorotoluene	B21-Fe22245	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	B21-Fe22245	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Allyl chloride	B21-Fe22245	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzene	B21-Fe22245	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Bromobenzene	B21-Fe22245	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromochloromethane	B21-Fe22245	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromodichloromethane	B21-Fe22245	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromoform	B21-Fe22245	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromomethane	B21-Fe22245	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon disulfide	B21-Fe22245	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon Tetrachloride	B21-Fe22245	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chlorobenzene	B21-Fe22245	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroethane	B21-Fe22245	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroform	B21-Fe22245	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloromethane	B21-Fe22245	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.2-Dichloroethene	B21-Fe22245	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.3-Dichloropropene	B21-Fe22245	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	



Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
Dibromochloromethane	B21-Fe22245	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromomethane	B21-Fe22245	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorodifluoromethane	B21-Fe22245	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Ethylbenzene	B21-Fe22245	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Iodomethane	B21-Fe22245	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Isopropyl benzene (Cumene)	B21-Fe22245	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
m&p-Xylenes	B21-Fe22245	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Methylene Chloride	B21-Fe22245	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
o-Xylene	B21-Fe22245	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Styrene	B21-Fe22245	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Tetrachloroethene	B21-Fe22245	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Toluene	B21-Fe22245	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
trans-1.2-Dichloroethene	B21-Fe22245	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.3-Dichloropropene	B21-Fe22245	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichloroethene	B21-Fe22245	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichlorofluoromethane	B21-Fe22245	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Vinyl chloride	B21-Fe22245	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Xylenes - Total*	B21-Fe22245	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons -	2013 NEPM Fract	ions		Result 1	Result 2	RPD			
Naphthalene	B21-Fe22245	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	B21-Fe22245	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	B21-Fe23747	NCP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	B21-Fe23747	NCP	mg/kg	110	120	10	30%	Pass	
TRH >C34-C40	B21-Fe23747	NCP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons				Result 1	Result 2	RPD			
TRH C6-C9	B21-Fe22245	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate								-	
Total Recoverable Hydrocarbons -	1999 NEPM Fract	ions		Result 1	Result 2	RPD			
TRH C10-C14	B21-Fe23747	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	B21-Fe23747	NCP	mg/kg	50	53	5.0	30%	Pass	
TRH C29-C36	B21-Fe23747	NCP	mg/kg	96	110	14	30%	Pass	
Duplicate								-	
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	M21-Fe26601	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	M21-Fe26601	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	M21-Fe26601	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	M21-Fe26601	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-BHC	M21-Fe26601	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	M21-Fe26601	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	M21-Fe26601	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-BHC	M21-Fe26601	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	M21-Fe26601	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	M21-Fe26601	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	M21-Fe26601	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	M21-Fe26601	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	M21-Fe26601	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	M21-Fe26601	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	M21-Fe26601	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	M21-Fe26601	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	M21-Fe26601	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	M21-Fe26601	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	M21-Fe26601	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	


Environment Testing

Duplicate										
Organochlorine Pesticides				Result 1	Result 2	RPD				
Methoxychlor	M21-Fe26601	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass		
Toxaphene	M21-Fe27018	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass		
Duplicate										
Polychlorinated Biphenyls	_		Result 1	Result 2	RPD					
Aroclor-1016	M21-Fe26601	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass		
Aroclor-1221	M21-Fe26601	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass		
Aroclor-1232	M21-Fe26601	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass		
Aroclor-1242	M21-Fe26601	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass		
Aroclor-1248	M21-Fe26601	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass		
Aroclor-1254	M21-Fe26601	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass		
Aroclor-1260	M21-Fe26601	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass		
Total PCB*	M21-Fe26601	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass		
Duplicate										
Polycyclic Aromatic Hydrocarbons	5			Result 1	Result 2	RPD				
Acenaphthene	M21-Fe23562	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass		
Acenaphthylene	M21-Fe23562	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass		
Anthracene	M21-Fe23562	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass		
Benz(a)anthracene	M21-Fe23562	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass		
Benzo(a)pyrene	M21-Fe23562	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass		
Benzo(b&j)fluoranthene	M21-Fe23562	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass		
Benzo(g.h.i)perylene	M21-Fe23562	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass		
Benzo(k)fluoranthene	M21-Fe23562	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass		
Chrysene	M21-Fe23562	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass		
Dibenz(a.h)anthracene	M21-Fe23562	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass		
Fluoranthene	M21-Fe23562	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass		
Fluorene	M21-Fe23562	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass		
Indeno(1.2.3-cd)pyrene	M21-Fe23562	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass		
Naphthalene	M21-Fe23562	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass		
Phenanthrene	M21-Fe23562	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass		
Pyrene	M21-Fe23562	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass		
Duplicate				1			-			
Phenols (Halogenated)	1	1	1	Result 1	Result 2	RPD				
2-Chlorophenol	M21-Fe23562	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass		
2.4-Dichlorophenol	M21-Fe23562	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass		
2.4.5-Trichlorophenol	M21-Fe23562	CP	mg/kg	< 1	< 1	<1	30%	Pass		
2.4.6-Trichlorophenol	M21-Fe23562	CP	mg/kg	< 1	< 1	<1	30%	Pass		
2.6-Dichlorophenol	M21-Fe23562	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	L	
4-Chloro-3-methylphenol	M21-Fe23562	CP	mg/kg	< 1	< 1	<1	30%	Pass		
Pentachlorophenol	M21-Fe23562	CP	mg/kg	< 1	< 1	<1	30%	Pass	L	
Tetrachlorophenols - Total	M21-Fe23562	CP	mg/kg	< 10	< 10	<1	30%	Pass		
Duplicate										
Phenols (non-Halogenated)	1			Result 1	Result 2	RPD				
2-Cyclohexyl-4.6-dinitrophenol	M21-Fe23562	CP	mg/kg	< 20	< 20	<1	30%	Pass		
2-Methyl-4.6-dinitrophenol	M21-Fe23562	CP	mg/kg	< 5	< 5	<1	30%	Pass		
2-Methylphenol (o-Cresol)	M21-Fe23562	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass		
2-Nitrophenol	M21-Fe23562	CP	mg/kg	< 1	< 1	<1	30%	Pass		
2.4-Dimethylphenol	M21-Fe23562	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass		
2.4-Dinitrophenol	M21-Fe23562	CP	mg/kg	< 5	< 5	<1	30%	Pass		
3&4-Methylphenol (m&p-Cresol)	M21-Fe23562	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass		
4-Nitrophenol	M21-Fe23562	CP	mg/kg	< 5	< 5	<1	30%	Pass		
Dinoseb	M21-Fe23562	CP	mg/kg	< 20	< 20	<1	30%	Pass		
Phenol	M21-Fe23562	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	1	



Environment Testing

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M21-Fe23564	CP	mg/kg	5.2	5.3	3.0	30%	Pass	
Cadmium	M21-Fe23564	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	M21-Fe23564	CP	mg/kg	44	45	3.0	30%	Pass	
Copper	M21-Fe23564	CP	mg/kg	32	33	2.0	30%	Pass	
Iron	M21-Fe23564	CP	mg/kg	40000	41000	3.0	30%	Pass	
Lead	M21-Fe23564	СР	mg/kg	7.5	7.7	2.0	30%	Pass	
Mercury	M21-Fe23564	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Molybdenum	M21-Fe23564	СР	mg/kg	< 5	< 5	<1	30%	Pass	
Nickel	M21-Fe23564	CP	mg/kg	98	100	4.0	30%	Pass	
Selenium	M21-Fe23564	СР	mg/kg	< 2	< 2	<1	30%	Pass	
Silver	M21-Fe23564	СР	mg/kg	< 2	< 2	<1	30%	Pass	
Tin	M21-Fe23564	СР	mg/kg	< 10	< 10	<1	30%	Pass	
Zinc	M21-Fe23564	CP	mg/kg	59	61	3.0	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Conductivity (1:5 aqueous extract at 25°C as rec.)	M21-Fe28369	NCP	uS/cm	< 10	< 10	<1	30%	Pass	
pH (units)(1:5 soil:CaCl2 extract at 25°C as rec.)	M21-Fe26550	NCP	pH Units	8.5	8.6	pass	30%	Pass	
Total Organic Carbon	M21-Fe26600	NCP	%	0.4	0.4	2.5	30%	Pass	
Duplicate									
Cation Exchange Capacity	Result 1	Result 2	RPD						
Cation Exchange Capacity	S21-Fe28456	NCP	meq/100g	17	16	5.0	30%	Pass	



Environment Testing

Comments

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

Qualifier Codes/Comments

Code Description

N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs

The matrix spike recovery is outside of the recommended acceptance criteria. An acceptable recovery was obtained for the laboratory control sample indicating a sample matrix interference.

Authorised by:

Harry Bacalis	Analytical Services Manager
Emily Rosenberg	Senior Analyst-Metal (VIC)
Jonathon Angell	Senior Analyst-Inorganic (QLD)
Joseph Edouard	Senior Analyst-Organic (VIC)
Scott Beddoes	Senior Analyst-Inorganic (VIC)
Vivian Wang	Senior Analyst-Volatile (VIC)

Glenn Jackson General Manager

Final Report - this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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	А	В	С	D	E	F	G	Н	I	J	К	L		
1				UCL Statistics for Data Sets with Non-Detects										
2														
3	User Selected Options													
4	Date/Time of Computation ProUCL 5.2 23/02/2024 1:20:1 / PM													
5			From File	WorkSheet	.xls									
6		Full	Precision	OFF							-			
7	C	Confidence (Coefficient	95%										
8	Number of	Bootstrap C)perations	2000										
9														
10														
11	Ni													
12	Concrel Statistics													
13	General Statistics											•		
14			l otal l	Number of O	bservations	10			Number	of Distinct O	bservations	8		
15									Number o	of Missing O	bservations	0		
16					Minimum	57					Mean	78.4		
17					Maximum	98				0.1 5	Median	/8		
18				O ff	SD	13.57				Std. Er	ror of Mean	4.29		
19				Coefficient	of Variation	0.173					Skewness	-0.485		
20														
21	Normal GOF Test													
22			1% Sh	apiro Wilk C	ritical Value	0.920		Data anno	onapiro wi	1% Signific				
23			170 011		est Statistic	0.761				GOF Test				
24			19	6 Lilliefors Ci	ritical Value	0.100		Data appear Normal at 1% Significance Level						
25	Data appear Normal at 1% Significance Level													
20														
27					Ass	umina Norr	nal Distribut	tion						
20		95% Normal UCI 95% UCI s (Adjusted for Skowness)												
30	95% Student's-t UCL					86.26		95	% Adjusted	-CLT UCL (, Chen-1995)	84.75		
31								9	5% Modified	I-t UCL (Joh	, inson-1978)	86.15		
32														
33						Gamma	GOF Test							
34				A-D T	est Statistic	0.469		Anders	on-Darling	Gamma GC	OF Test			
35				5% A-D Ci	ritical Value	0.724	Detected	data appear	Gamma Di	stributed at	5% Significar	nce Level		
36				K-S T	est Statistic	0.181		Kolmogo	orov-Smirno	v Gamma C	GOF Test			
37				5% K-S C	ritical Value	0.266	Detected	data appear	Gamma Di	stributed at	5% Significar	nce Level		
38				Detected d	lata appear	Gamma Di	stributed at	5% Signific	ance Level					
39														
40						Gamma	Statistics							
41					k hat (MLE)	34.56			k st	ar (bias corr	rected MLE)	24.26		
42				Theta	a hat (MLE)	2.269			Theta st	ar (bias corr	ected MLE)	3.232		
43				n:	u hat (MLE)	691.2		nu star (bias corrected) 48						
44			ML	E Mean (bias	s corrected)	78.4			N	/ILE Sd (bia:	s corrected)	15.92		
45					· · · · · · · · · · · · · · · · · · ·	0.000	Approximate Chi Square Value (0.05) 435.1					435.1		
46			Adjust	ed Level of S	significance	0.0267			Adj	usted Chi So	quare Value	426.8		
47					Λ			tion						
48			OE0/ A	provimete O	ASS	uming Gam	ima Distribu	uon	050/	Adjusted		00 11		
49			90% Ap	iproximate G	amma UCL	07.42			95%	Aujustea G		09.11		
50						Lognorma								
51			Cł	aniro Wilk T	est Statistic	0 803		Shani	ro Wilk Log	normal GO	F Test			
52			10% Sh	apiro Wilk C	ritical Value	0.869	ח	ata annear		at 10% Sign	ificance Leve			
53	Lilliefors Test Statistic 0.192									Test				
55			109	6 Lilliefors Ci	ritical Value	0.241	ח	ata appear	Lognormal :	at 10% Sign	ificance I eve	;		
56				D:	ata appear l	.ognormal a	at 10% Siani	ficance Lev	el			-		
57						- <u>g</u>								

	А	В	С	D	E	F	G	Н	I	J	К	L	
58	Lognormal Statistics												
59			М	inimum of L	ogged Data	4.043	Mean of logged Data						
60			Ma	aximum of L	ogged Data	4.585				SD of I	ogged Data	0.183	
61													
62	Assuming Lognormal Distribution												
63		95% H-UCL 88.08 90% Chebyshev (MVUE) UCL									92.13		
64			95% C	hebyshev (N	/IVUE) UCL	98.33			97.5% C	hebyshev (N	MVUE) UCL	106.9	
65			99% C	hebyshev (N	/IVUE) UCL	123.8							
66													
67	Nonparametric Distribution Free UCL Statistics												
68					Data appear	to follow a	Discernible	Distributio	n				
69													
70		Nonparametric Distribution Free UCLs											
71				959	% CLT UCL	85.46			9	84.2			
72			95% S	tandard Boo	otstrap UCL	85.09				95% Bootstrap-t UCL			
73			95	% Hall's Boo	otstrap UCL	84.94			95% P	ercentile Bo	otstrap UCL	84.8	
74			90% Che	byshev(Mea	n, Sd) UCL	91.27			95% Che	97.1			
75	97.5% Chebyshev(Mean, Sd) UCL 105.2 99% Chebyshev(byshev(Mea	an, Sd) UCL	121.1			
76													
77						Suggested	UCL to Use						
78				95% Stud	lent's-t UCL	86.26							
79													
80	Note:	Suggestio	ns regarding	the selection	on of a 95%	UCL are pro	ovided to he	lp the user	to select the	e most appro	opriate 95% I	JCL.	
81		Recomme	ndations are	based upo	n data size,	data distribu	ution, and sk	kewness usi	ing results f	rom simulati	on studies.		
82	Howeve	er, simulatio	ons results v	ill not cove	r all Real Wo	orld data set	ts; for addition	onal insight	the user ma	ay want to co	onsult a stati	stician.	
83													
84	No	te: For hig	hly negative	ly-skewed	data, confid	ence limits	(e.g., Chen	, Johnson,	Lognormal,	and Gamm	a) may not	be	
85		r	eliable. Ch	en's and Jo	hnson's me	thods provi	de adjustme	ents for pos	itvely skew	ed data sets	S.		
86													

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